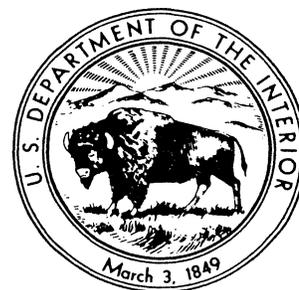


# Typical Field Notes and Classified Excerpts



**Cadastral Survey  
1979**

As the Nation's principal conservation agency, the Department of the Interior has basic responsibilities for water, fish, wildlife, mineral, land, park, and recreational resources. Indian and Territorial affairs are other major concerns of this department of natural resources.

The Department works to assure the wisest choice in managing all our resources so that each shall make its full contribution to a better United States now and in the future.

## PREFACE

In writing field notes it must be kept in mind that there are six basic types of surveys for which field notes must be written. The different types are:

1. Original Surveys.
2. Resurveys.
3. Alaska U.S. Surveys.
4. Alaska Electronic Surveys.
5. Remonumentation Programs.
6. Photogrammetric Resurveys.

For convenience in using this book, each type of survey will be completely covered in its own section although some material may apply to more than one type of survey.

## TABLE OF CONTENTS

	CHAPTER
Original Surveys	1
Resurveys	2
Alaska U.S. Surveys	3
Alaska Electronic Surveys	4
Remonumentation Programs	5
Photogrammetric Resurveys	6
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# ORIGINAL SURVEY

## COVER PAGE

The cover page must be filled out with a complete and comprehensive description of the surveys, meridian, state, executed by, date of Special Instructions, group number, approval date of both original and supplemental or amended Special Instructions, date of assignment instructions and dates survey commenced and completed.

Particular care must be taken to be certain that the dates of the Special and Supplemental or Amended Instructions, dates of approval of Special and Supplemental or Amended Instructions, and date of assignment instructions agree with the group file copy.

In so far as is possible, the information should be centered to present a neat, symmetrical appearance.

The cover page will be prepared at least in duplicate with the original and duplicate being sent to Washington. A third copy may be made for retention in the originating office files. In the upper right hand corner will be stamped ORIGINAL, DUPLICATE, OR TRIPPLICATE.



ORIGINAL

# FIELD NOTES

OF THE

DEPENDENT RESURVEY OF THE GUIDE MERIDIAN

THROUGH T. 27 S., BETWEEN RS. 6 AND 7 W.,

THE SOUTH BOUNDARY OF T. 26 S., R. 7 W.

A PORTION OF THE SOUTH BOUNDARY OF T. 26 S., R. 8 W.

AND

THE SOUTH BOUNDARY AND THE SOUTH 3 MILES OF THE

WEST BOUNDARY AND A PORTION OF THE SUBDIVISIONAL LINES

AND

AN INDEPENDENT RESURVEY OF A PORTION OF THE SUBDIVISIONAL LINES

AND

THE SURVEY COMPLETING THE SUBDIVISIONAL LINES

OF

T. 27 S., R. 7 W.

Of the SALT LAKE Meridian,

In the State of UTAH

## EXECUTED BY

CRAIG P. SYLVESTER, SUPERVISORY CADASTRAL SURVEYOR

Under special instructions dated NOVEMBER 4, 1968, which provided for the surveys  
included under Group Number 502, approved NOVEMBER 12, 1968,  
and assignment instructions dated MARCH 6, 1969.

Survey commenced MARCH 27, 1969

Survey completed JULY 11, 1969

INDEX

The index diagram must be completed and if it is not a carbon of the original on each set of notes, the copy must be compared with the original for accuracy. If the survey does not follow the normal rectangular form, the index should conform to the actual configuration of the survey as much as possible.

The note page numbers will be placed to the right of meridional lines and above latitudinal lines whenever possible.

INDEX DIAGRAM

Township 11 NORTH, Range 10 EAST,

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
42	42	36	32	26	22
30	41 29	35 28	30 27	25 26	21 25 17
39	38	34	29	24	20
31	37 32	33 33	27 34	23 35	19 36 15

Survey of Tract 37 in Section 34, page 44.

CHAINS

In writing the field notes a decision must always be made concerning the order that the lines will appear in the record. As a general rule, the notes are normally written in descending order of importance of the lines. That order is:

1. State boundaries
2. Senior grant and reservation boundaries
3. Principle meridians
4. Base lines
5. Standard parallels
6. Guide meridians
7. Township boundaries
8. Subdivisional section lines
9. Subdivision of section lines
10. Meander lines
11. Other auxiliary survey lines

One basic principle to be kept in mind in applying the order of writing the lines is that any line to be closed upon by another line or connected to by another line should be written before such closing or connecting line. The closing line will be written toward the closing corner. When closing upon a previously surveyed line, always record the tie from the closing corner to the nearest regular corner on the line closed upon.

In writing the notes for the normal township, the boundaries are written first and the usual order is:

1. The south boundary written from east to west
2. The east boundary written from south to north
3. The west boundary written from south to north
4. The north boundary written from east to west

When a new township south boundary line is established, indicate whether the tangent, secant or solar transit method was used to establish a true latitudinal curve.

The subdivisional section lines are written second. The usual starting point is the corner of sections 1, 2, 35 and 36 on the south boundary of the township, writing the line north between sections 35 and 36, to the corner of sections 25, 26, 35 and 36. Then the line between sections 25 and 36 is written from east to west. The writing of the lines continue northward, and from east to west, one section at a time until the corner of sections 1, 2, 35 and 36 on the north boundary of the township is reached. Then the second, third and fourth range of sections is written similarly. The sequence for the fifth and sixth ranges of sections is north between sections 31 and 32, west between sections 29 and 32, west between sections 30 and 31 to the range line, north between sections 29 and 30 and repeat the process on the east-west lines and the line north until the north boundary of the township is reached.

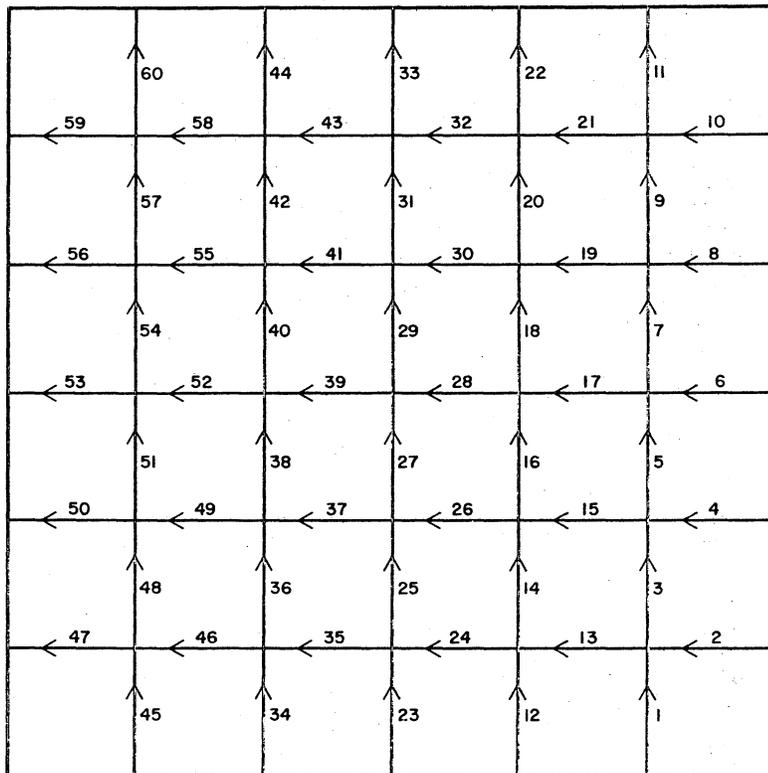
Subdivided sections are written in numerical sequence starting with the lowest numbered section. The subdivision of section lines is written as follows:

1. N-S center line written from south to north
2. E-W center line written from east to west

In case of the subdivision of the  $\frac{1}{4}$  sections into  $\frac{1}{16}$  section or smaller parcels, the same pattern will be used, starting with the  $NE\frac{1}{4}$  and proceeding clockwise around the section. All the lines of each  $\frac{1}{16}$  section will be written before proceeding to the next  $\frac{1}{16}$  section and all lines in each  $\frac{1}{4}$  section will be written before proceeding to the next  $\frac{1}{4}$  section.

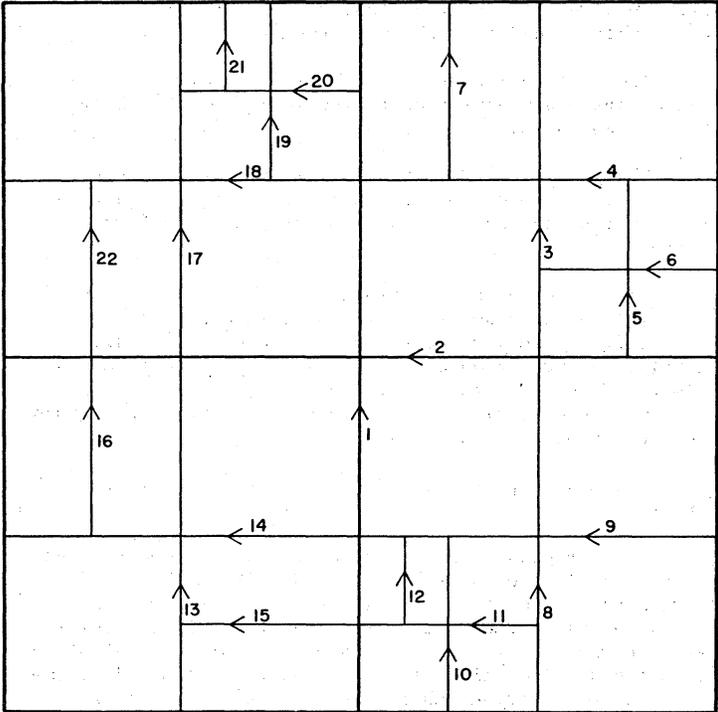
# Order of Writing Field Notes

## Normal Township Subdivision



# Order of Writing Field Notes

Section Subdivision



INTRODUCTORY PARAGRAPHS

CHAINS

The introductory statements on page 1 of the field notes for ordinary surveys must contain five separate paragraphs as follows:

1. Description of survey
2. Reference to Manual of Instructions and Special Instructions
3. Method used to establish direction of lines
4. Geographic coordinates of point in survey
5. Mean magnetic declination

It is preferred that the paragraphs appear on page 1 in the order listed above. The first line of each paragraph will be indented five spaces from the left margin and double spaced from the paragraph above.

The description of the survey must conform to the title page and state in narrative form just what survey was accomplished.

The paragraph concerning the Manual of Instructions and Special Instructions is fairly uniform. It is used to show that the surveyor was authorized to perform the survey.

The method used to establish the direction of the survey lines will be stated in a separate paragraph. Most original surveys occurring outside of Alaska are completion surveys which necessitate the resurvey of the limits of the area to be surveyed. In such cases, the resurvey is done first and a history of surveys paragraph must be inserted on page 1.

The mean magnetic declination of the survey must be shown.

The paragraph concerning the geographic coordinates of a point in the survey will contain the method used to determine the point. The point in the survey will normally be the southeast corner of the township or lesser area surveyed. If the position of the point is calculated through survey lines from a triangulation station, the name of that station and its location by township, range and section should be given. The value of the geographic position should be given to the degree of precision consistent with the accuracy of the method used in obtaining it. Values to a tenth of a second may be given when calculated through an accurate tie to a nearby triangulation station.

If any non-standard method or any special equipment is used, a paragraph detailing this non-standard or extraordinary use must be included.

## T. 11 N., R. 10 E., Gila and Salt River Meridian, Arizona

## CHAINS

The following notes are those of the survey of a portion of the subdivisional lines, and survey of Tract 37, section 34, T. 11 N., R. 10 E., Gila and Salt River Meridian, Arizona.

This survey was executed in accordance with the specifications as set forth in the Manual of Surveying Instructions, 1947, the Special Instructions dated June 29, 1967, and the Amended Supplemental Special Instructions dated April 30, 1968.

The directions of the lines were determined by the solar transit method. The lines were carried by transit method and confirmed by succeeding a.m. and p.m. altitude observations on the sun.

The geographic position of the southeast corner of the township is: Latitude,  $34^{\circ} 14' 46.7''$  N. and Longitude:  $111^{\circ} 16' 21.9''$  W., as determined by calculation from U.S.C.&G.S. triangulation station "Huston" located in section 23 of the township.

The mean magnetic declination is  $13^{\circ} 30'$  E.

## T. 27 S., R. 7 W., Salt Lake Meridian, Utah

CHAINS

The following field notes are those of the dependent resurvey of the Guide Meridian through T. 27 S., between Rs. 6 and 7 W., the South Boundary of T. 26 S., R. 7 W., a portion of the South Boundary of T. 26 S., R. 8 W., the South Boundary, the south 3 miles of the West Boundary, and the subdivisional lines of secs. 19 through 23 and 26 through 35, an independent resurvey of the north 3 miles of the First Meridional Line, and a survey of secs. 1 through 18 and secs. 24, 25 and 36 of T. 27 S., R. 7 W., Salt Lake Meridian, Utah.

The resurvey and survey were executed in accordance with the specifications as set forth in the Manual of Surveying Instructions, 1947, and Special Instructions for Group No. 502, Utah, dated November 4, 1968.

The second mile west, on the North Boundary of T. 27 S., R. 7 W., was surveyed by Julien Bausman in 1870. The South Boundary and the south 3 miles of the West Boundary were surveyed by A. D. Ferron in 1878. The East Boundary (Guide Meridian), the first mile west and the 4 west miles of the North Boundary were surveyed by Hubert D. Page and Harry Erwin in 1900-01. The north 3 miles of the West Boundary were surveyed by Andrew Nelson in 1916. The First Meridional Line was surveyed by Julien Bausman in 1870. The subdivisional lines of secs. 19 through 23 and 26 through 35 were surveyed by A. D. Ferron in 1878.

Before restoring the corners, the lines of the original survey were retraced and diligent search made for any evidence of the orig. cor., bearing trees or other calls of the original field note record.

The rules of proportionate measurement were applied to ascertain the position of the lost corners, but not until exhausting every reasonable possibility of finding direct evidence for the control of each particular corner.

The directions of all lines were determined from observations on the sun and carried forward by sustained angulation, and the distances were determined by chaining where possible; otherwise, by traverse or triangulation. The details of such traverses or triangulations have been thoroughly verified and in order to simplify the record the diagrams and reductions are omitted from these field notes. Where said triangulations were made, the topography was scaled from Geological Survey "Beaver Quadrangle," 1954, 7½' series.

The geographic position of the southeast corner of the township is at Latitude 38° 24' 40" N. and Longitude 112° 35' 00" W., as computed by traverse and section line ties to U. S. Coast and Geodetic Survey Triangulation Station "Piney," at Latitude 38° 30' 12.68" N., and Longitude 112° 39' 16.14" W., located N. 20° 31' 11" E., 28.96 chs. dist., from the cor. of secs. 32 and 33 on the South Boundary of T. 26 S., R. 7 W. Station not occupied, distance determined by triangulation.

The magnetic declination is 15° 45' E.

NOTE: The history of surveys can be in order by boundaries or by time of survey.

PAGE NUMBERS AND HEADING

CHAINS

Each page of the field notes will have a page number placed at the center top of the page. Under the page number, each page will have a heading above the ruled line which gives the contents of that page. The heading will include the meridian and state in addition to the type of survey and township and range.

Page one does not have the type of survey performed because it contains introductory material.

All headings will be centered on ruled line. To accomplish this, abbreviation of townships, ranges and sections will have to be used.

Beginning of Survey

Immediately following the introductory paragraphs, a line is drawn across the page and a subheading indicating the type of survey, township, range, meridian and state is placed immediately under the line. Under this information another line is drawn across the page.

Below this line three items appear:

1. The starting point.
2. The direction and identification of the line being surveyed, cardinal direction spelled out in full.
3. The character of the terrain and type of vegetation on line near the corner.

Survey of a Portion of the Subdivisional Lines,  
T. 4 S., R. 23 E., Gila and Salt River  
Meridian, Arizona

Beginning at the cor. of secs. 13, 14, 23 and 24.

N. 89° 50' W., bet. secs. 14 and 23.

Over gently rolling land, through medium heavy undergrowth.

Survey of a Portion of the Subdivisional Lines,  
T. 11 N., R. 10 E., Gila and Salt River  
Meridian, Arizona

Beginning at the cor. of secs. 29, 30, 31 and 32.

N. 0° 02' W., bet. secs. 29 and 30.

Over rolling land, through medium timber and undergrowth.

WRITING EACH MILE

CHAINS

The point of beginning of each mile should be identified unless it is the terminal point in the immediately preceding notes. It is preferable that the expression "From the cor. of secs.---,etc." be used rather than "Beginning at the cor. of secs.---,etc." except at the beginning of the notes.

Following the identification of the starting point, the course and line must be identified and there should be a statement as to the character of the terrain and the type of vegetation at the beginning of the mile.

At the appropriate distance along the true line between corners the following items must be entered:

1. Topography
2. Culture
3. Major ascents
4. Major descents
5. Changes in character of the terrain
6. Changes in the type of vegetation
7. Other survey lines intersected

The most prevalent items of topography encountered on lines are:

arroyo	pond
cliff	pothole
creek	ridge
divide	ravine
drain	river
draw	saddle
dry creek	slough
gulch	spring
lake	spur
marsh	swamp
outcrop	wash

The most prevalent items of culture encountered on lines are:

building	pipe line
ditch	powerline
diversion channel	railroad
fence	road
field	street
gravel pit	telegraph line
mine shaft	telephone line
mine tailings	trail
pasture	

Also, ties from the appropriate distance along the true line should be given to the following items.

1. Major topographic features such as rock outcrops or cliffs.
2. Major cultural features such as buildings or fence corners.

At the end of each mile, except in the subdivision of a section where it is never required, there must be a summation for that mile, of land, soil, timber and vegetation.

Draw a line completely across the page following this summary, at the end of each mile.

BEGINNING OF EACH MILE

CHAINS

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

N. 88° 35' W., bet. secs. 26 and 35.

Over mountainous land, through medium undergrowth, asc.  
90 ft. along S. slope.

N. 0° 23' W., bet. secs. 26 and 27.

Over mountainous land, through medium undergrowth, asc.  
S. slope.

From the cor. of secs. 23, 24, 25 and 26.

N. 84° 56' W., bet. secs. 23 and 26.

Over mountainous land, through medium undergrowth, asc.  
NE. slope changing to E. slope.

N. 1° 41' W., bet. secs. 22 and 23.

Over low mountainous land, through medium undergrowth,  
desc. N. slope.

NOTE: The amounts of ascent or descent as shown in  
the first example above, will be required  
only in rough country where they are of  
significant value to later surveyors.

ARROYO

CHAINS	
63.00	Right bank of rocky arroyo, bears West and ENE.
66.50	Left bank of same arroyo, bears West and ENE. Ascend gradually through dense undergrowth.
18.20	Tijeras Canon Arroyo, 30 lks. wide, 20 feet deep, drains West.

CLIFF OR BLUFF

CHAINS	
29.40	Top of bluff, 40 ft. high, bears East and West, asc. over nearly level land.
74.00	Rock bluff, 20 ft. high, bears N. 10° W. and S. 10° E., faces SW., desc. 135 ft. over SW. slope.
63.80	Top of main bluff, 80 ft. high, bears NE. and SW. Descend.
65.50	Base of bluff and right bank of rocky arroyo, bears NE.
26.40	Top of rocky ledge, bears ENE. and WSW. Enter dense undergrowth.
27.70	Granite ledge, 15 ft. high, bears irregularly North and South.
68.60	Rocky ledge, bears irregularly North and South.
15.10	South rim of canyon, top of cliff, 75 ft. high, bears NE. and SW.
16.20	North rim of canyon, top of cliff, 75 ft. high, bears NE. and SW.
11.70	Top of a granite bluff, 30 ft. high, bears North and South.

## CREEK

CHAINS	
53.90	Flat Creek, 3 lks. wide, course East, ascend a SW. slope.
14.35	Birch Creek, 5 lks. wide, course N. 10° E., asc. 145 ft. over W. slope.
20.40	Knott Creek, in concrete ditch, 3 lks. wide, 1 ft. deep, course N. 64° 47' W.
18.70	Stream, 3 lks. wide, 6 ins. deep, course NW.
20.10	Creek, 8 lks. wide, course South.

DIVIDE

CHAINS	
50.90	The divide between Zuma Canyon and Ramirez Canyon, bears N. 10° E. and S. 10° W., descend over steep rolling hills.
48.00	Crest of Hot Springs Range, bears South from NW., continue along S. slope.
1.50	Top of divide between Nickel Creek and Pacific Ocean, bears North and South, desc. over W. slope.
36.00	Crest of a divide, bears East and West.

DRAIN

CHAINS	
3.40	Drain, course ENE.
24.70	Drain, course East.
12.50	Shallow drain, course NE., gradually ascend.

## DRAW

CHAINS	
3.80	Draw, drains S. 20° E., ascend a NE. slope.
29.10	Draw, drains N. 80° E., asc. 90 ft. over SE. slope.
7.50	Center of large draw, drains NNE.
38.90	Head of large draw, drains SSW. Begin ascent.
59.60	Draw, drains South, ascend over E. slope.
28.00	Draw, drains irregularly N. 75° W.
30.00	Draw, drains S. 30° E.

DRY CREEK

CHAINS	
5.00	Dry bed of creek, 10 lks. wide, drains East, asc. 240 ft. over SE. slope.
2.70	Dry bed of creek, 8 lks. wide, drains S. 15° W., asc. 140 ft. over SE. slope.
18.65	Dry creek, 3 lks. wide, drains S. 70° E., asc. 225 ft. over SE. slope.
17.50	Dry creek bed, 60 lks. wide, drains SW., continue over nearly level land.
30.80	Willow Creek, dry, 20 lks. wide, 4 ft. deep, drains East 5.00 chs. thence SE., asc. 40 ft. over SE. slope to spur.

GULCH

CHAINS	
25.65	Gulch, drains NE., asc. 195 ft. over SE. slope.
22.15	Cub Gulch, wet, drains S. 10° W.
33.40	Dry gulch, drains NNE. Begin ascent over steep SE. slope.

## LAKE

CHAINS	
3.90	<p>The mean high water line of the southern shore of Porcupine Lake, bears N. 20° E. and S. 35° W., the true point for the meander cor. of secs. 22 and 23. Did not monument.</p> <p>N. 2° 23' W., beginning new measurement.</p> <p>Over Porcupine Lake, distance by triangulation.</p>
11.20	<p>The mean high water line of the northern shore of Porcupine Lake, bears S. 25° E. and N. 50° W., the true point for the meander cor. of secs. 22 and 23.</p>
24.75	<p>East shore of small lake, bears N. 10° W. and S. 30° W.</p>
27.75	<p>West shore of above lake, bears North and South.</p>
77.00	<p>The southern shore of Arizona Lake, bears East and West, thence, by triangulation across Arizona Lake.</p>
80.00	<p>The true point for the cor. of secs. 11, 12, 13 and 14, located within the bed of Arizona Lake. Did not monument.</p> <p>N. 0° 01' W., bet. secs. 11 and 12.</p> <p>Across Arizona Lake.</p>
26.80	<p>The northern shore of Arizona Lake, bears East and SW.</p>
15.50	<p>The East shoreline of Grayling Lake, bears N. 70° W. and S. 5° E.</p>
21.30	<p>The West shoreline of Grayling Lake, bears N. 40° E. and South. Enter fir timber and begin a very gradual ascent.</p>

MARSH

CHAINS	
41.50	Enter marsh, 8 chs. wide, 15 chs. long, extending North and South.
49.30	Leave West edge of marsh and begin a steep ascent of an East slope, through pine and fir timber.
73.00	Enter a large marsh, 15 chs. diameter, edge bears N. 15° E. and S. 15° W.
13.20	Base of descent, bears East and West, enter marsh.
15.20	Leave marsh, bears East and West, asc. over S. slope.
<p>Note: If salt marsh, so state. Distinguish between marsh and swamp because of swamp and overflowed act.</p>	

OUTCROP

CHAINS	
19.10	Rock outcrop, bears NE. and SW. Descend over steep NW. slope.
10.75	Quartz outcrop, bears NNW. and SSE.
14.40	Large granite outcrop.
13.65	A large granite boulder, 20 ft. x 20 ft. x 15 ft., on line.

POTHOLE

CHAINS	
5.10	Bottom of a small, dry, pothole, approximately 1 chain in diameter.
8.00	The South edge of a large pothole, containing some standing water.
14.20	The North edge of pothole, continue over boulder covered, broken terrain, through pine and fir timber.
23.00	The South edge of a dry pothole.
28.50	North edge of pothole.

RAVINE

CHAINS	
0.50	Ravine, drains NW., asc. 10 ft. over SW. slope.
17.50	Head of ravine, drains West, asc. 20 ft. over SW. slope.
39.90	Deep narrow ravine, drains S. 20° E.
29.70	Side ravine drains South, ascend 40 ft. over SE. slope.
17.55	Wet ravine, drains S. 40° E., ascend a NE. slope.
20.20	Small ravine, drains East to next ravine.
0.60	Ravine, drains South, asc. 170 ft. over E. slope.
69.00	Canon bottom, drains NW.
15.40	Bottom of canyon, drains S. 50° W., asc. 205 ft. over SE. slope.
7.40	Ravine, drains irregularly West.

RIDGE

CHAINS	
31.80	Ridge, bears N. 30° W. and S. 30° E., desc. slightly along N. slope on side of spur.
30.00	Ridge, bears N. 20° E. and S. 20° W., desc. 255 ft. over E. slope.
21.35	Sharp, narrow ridge, bears North and South, desc. 405 ft. over E. slope.
31.70	Ridge, bears East and West.
13.00	Top of low ridge, bears NW. and SE., descend gradual SW. slope.
59.50	Prominent high ridge, bears NNE. and SSW., desc. broken NW. slope.
49.10	Top of rocky point on ridge, bears East and West, desc. 35 ft. over rocky NW. slope.
35.80	Low ridge, bears North and South.
70.05	Top of ridge, bears East and West, desc. 67 ft. over N. slope.

## RIVER

CHAINS	
23.00	Left bank of the Middle Fork of the Willamette River, course N. 81° W.
27.45	Right bank of the Middle Fork of the Willamette River, course N. 81° W., asc. 10 ft. over S. slope.

SADDLE

CHAINS	
37.00	Saddle in ridge, bears NE. and West, desc. 5 ft. over NW. slope.
31.70	Saddle on ridge, bears East and West, end triangulation.

SLOUGH

CHAINS

23.80

Slough, 20 lks. wide, 3 ins. deep, course SW.

SPRING

CHAINS	
29.30	Spring branch, 1 lk. wide, 4 ins. deep, course N. 75° W., asc. 140 ft. over SW. slope.
65.60	Spring, 4 lks. diameter, 12 ins. deep, asc. 120 ft. over NW. slope
0.90	Spring branch, 2 lks. wide, 6 ins. deep, course SE.

## SPUR

CHAINS	
28.60	Spur, slopes West, desc. 40 ft. over SW. slope.
26.90	Spur, slopes North, desc. over W. slope.
5.00	Side spur slopes West, desc. 310 ft. over steep broken SW. slope.
18.30	Spur, slopes S. 60° E., desc. 30 ft. over broken, precipitous NE. slope.
33.55	Spur ridge, slopes S. 20° E., descend a SW. slope.
44.80	Rocky spur, slopes North, desc. 300 ft. over rolling W. slope.

SWAMP

CHAINS	
58.80	East edge of swamp, bears North and South.
67.10	West edge of swamp, bears North and South, thence over level land.
27.30	Enter swamp, edge bears N. 80° E. and S. 80° W.
38.40	Leave swamp, edge bears N. 85° W. and S. 50° E.
	<p>Note: Some attempt should be made to estimate size of swamp because of swamp and overflowed act. Distinguish between swamp and marsh.</p>

WASH

CHAINS	
12.40	Wash, 10 lks. wide, 3 ft. deep, drains SW., asc. 500 ft. over steep W. slope of mountain.
8.80	Left bank of Stinking Draw Wash, bears NNE. and SSW.
9.70	Right bank of same wash, bears NNE. and SSW.
19.50	Center of wash, 115 lks. wide, 3 ft. deep, drains S.
19.40	Wash at bottom of large draw, drains S. Begin gradual ascent.
44.77	Wash, 3 chs. wide, 10 ft. deep, drains S. 30° W.
25.40	Wash, 20 lks. wide, 1 ft. deep, drains South for 60 lks., thence S. 60° W.
24.78	Dry wash, 8 lks. wide, drains S.; desc. 57 ft. over SE. slope.

BUILDING

CHAINS	
11.35	Intersect the South side of a wood frame building, 48 x 25 ft., the SW. corner bears S. 70° W., 10 lks. dist., the long side bears N. 70° E.
3.90	Concrete telephone booth, 45 ins. sq.
77.95	The side of a wood frame barn, 40 x 25 ft., the southernmost corner bears S. 60° W., 8 lks. dist., the long side bears N. 30° W.
27.70	Intersect the side of a brick dwelling, 62 x 27 ft., the long side bears N. 15° E., the NE. corner bears N. 15° E., 22 lks. dist.

## DITCH

CHAINS	
33.40	Irrigation ditch, 4 lks. wide, 2 ft. deep, drains N. 30° E., also top of ascent, slopes North, desc. 5 ft. over NW. slope.
35.20	Old water ditch, 3 lks. wide, 1 ft. deep bears N. 25° E. and S. 25° W.
59.65	Ditch, 10 lks. wide, 1½ ft. deep, drains S. 36° W.
31.30	Drainage ditch, 15 lks. wide, 3 ft. deep, with 6 ins. of water, course West.

DIVERSION CHANNEL

CHAINS	
0.60	Diversion channel of Craine Creek, 4 lks. wide, 2 ft. deep, drains North.

FENCE

CHAINS	
26.80	Barbed wire fence, bears East and West.
10.00	Barbed wire fence, 9 strand, parallels highway.
3.20	Remains of an old barbed wire fence line, bears N. 2° W. and S. 2° E.
25.10	Barbed wire drift fence, bears East and West.
14.90	Downed woven wire fence, bears North and South.
4.70	Board fence, bears North and South.
9.95	Wooden fence, bears North and South.
1.15	Woven wire fence, bears N. 75° E. and S. 75° W.
20.45	Barbed wire fence, 4 strand, 31 lks. South of fence corner with fences extending South and East.
0.10	Woven wire fence, bears irregularly N. 30° E. and South.
2.50	Corner of barbed wire fences, extending West and North, thence along fence line.

## FIELD

CHAINS	
59.70	Enter plowed field, edge bears N. 10° W. and S. 10° E.
0.20	Enter cultivated field, edge bears North and South.
76.40	Enter cultivated field, edge bears ENE. and WSW.

GRAVEL PIT

CHAINS

6.60 North end of gravel pit.

MINE SHAFT

CHAINS

1.45 Center of mine prospect shaft, 6 x 6 x 20 ft. deep.

MINE TAILINGS

CHAINS

- 14.40 Edge of mine tailings, bears North and South.
- 15.90 Leave mine tailings, edge bears N. 10° E. and South.

PASTURE

CHAINS	
64.60	Corner of fences extending North, NE. and SW., enter a pasture, edge bears NE. and SW.
23.40	Enter open pasture, edge bears NW. and SE.

PIPELINE

CHAINS	
1.10	Trail road and underground water pipeline, bear SSE. and NNW.
15.40	Power line, 5 wires, and pipeline, 6 ins. diam., bear N. 50° E. and S. 50° W.
17.50	Underground pipeline and trail road, bear East and West.
0.90	Water line, underground, bears N. 30° W. and S. 30° E.

POND

CHAINS	
31.50	Center of tailings pond on drain, approximately 2 chs. in diameter.
48.75	East edge of pond, bears N. 40° W. and S. 30° E.
50.30	West edge of same pond, bears N. 50° E. and S. 40° E.
64.30	Enter opening at South edge of small pond, edge bears East and West.
66.30	Leave pond, edge bears East and West, through grassy opening.

POWER LINE

CHAINS	
1.10	Three wire power transmission line, bears N. $77\frac{3}{4}^{\circ}$ W. and S. $77\frac{3}{4}^{\circ}$ E.
27.40	REA power line, bears N. $45\frac{1}{4}^{\circ}$ E. and S. $45\frac{1}{4}^{\circ}$ W.
20.90	Service power line, 2 wire, on 4 x 4 in. wooden posts, bears N. $10^{\circ}$ W. and S. $10^{\circ}$ E.

## RAILROAD

CHAINS	
11.85	Center line of railroad, bears N. 20° W. and S. 20° E.
32.10	Center line of abandoned railroad grade, 30 lks. wide, bears North and South.
56.75	Center line of old railroad grade, 25 lks. wide, bears N. 22° W. and S. 22° E.
0.80	Center line of Chicago, Burlington and Quincy Railroad, bears East and West.
Note: Name of railroad, if known should be stated.	

## ROAD

CHAINS	
14.80	Center of old mine road, 14 lks. wide, bears East and West.
2.65	Center of Chessman Reservoir road, 30 lks. wide, bears SE. and NW.
37.20	Center of Huston Mesa road, 33 lks. wide, bears S. 80° E. and N. 80° W.
2.75	Center of dirt road, 10 lks. wide, bears N. 60° E. and S. 60° W.
16.50	Center of unimproved dirt road, 12 lks. wide, bears North and South.
33.90	Center of improved dirt road, 18 lks. wide, bears N. 50° E. and S. 50° W.
55.10	Center of track road, 10 lks. wide, bears SE. and NW.
72.40	Center of rut road, 8 lks. wide, bears ENE. and WSW.
23.30	Center of jeep road, 9 lks. wide, bears N. 20° W. and S. 20° E.
15.70	Center of trail road, 10 lks. wide, bears NE. and SW.
35.10	Center of bladed road, 18 lks. wide, bears S. 80° W. and East.
46.20	Center of graded road, 21 lks. wide, bears North and South.
8.25	Center of graveled road, 30 lks. wide, bears N. 77 3/4° W. and S. 77 3/4° E.
26.30	Center of graded gravel road, 25 lks. wide, bears NE. and SW.
7.40	Center of graveled county road, 32 lks. wide, bears ENE. and WSW.

## ROAD

CHAINS	
29.60	Center line of U.S. Highway No. 77, asphalt surfaced, 40 lks. wide, bears North and South.
30.80	Center line of Utah State Highway No. 91, concrete surfaced, 42 lks. wide, bears N. 18° 15' E. and S. 18° 15' W.
9.50	East edge of U.S. Highway No. 97, asphalt surfaced, bears N. 10° E. and S. 10° W.
10.80	West edge of same highway, bears N. 10° E. and S. 10° W.
34.10	Center line of asphalt surfaced road, 48 lks. wide, bears N. 70° E. and S. 70° W.
23.30	Center line of oiled road, 42 lks. wide, bears NE. and SW.
51.80	Center line of concrete surfaced road, 50 lks. wide, bears WNW. and ESE.
21.70	Center line of North bound lanes of Interstate Route 15, concrete surfaced, 40 lks. wide, bears N. 13° 06' E. and S. 13° 06' W.
23.00	Center line of South bound lanes of Interstate Route 15, concrete surfaced, 40 lks. wide, bears N. 13° 06' E. and S. 13° 06' W.

STREET

CHAINS	
4.33	Intersect the eastern right-of-way of Vigo Street, bears N. 34° 14' W., and S. 34° 14' E.
5.09	Intersect the western right-of-way of Vigo Street, the point for Corner No. 2.

TELEGRAPH LINE

CHAINS		
24.10	Telegraph line, bears N. 20° W. and S. 20° E.	

TELEPHONE LINE

CHAINS	
3.35	Telephone line, 7 wires, bears N. 45° E. and S. 45° W.
23.80	Telephone line, bears SE. and NW.
5.70	Telephone line, bears East and West.
17.60	Telephone line, bears N. 7° 05' W. and S. 7° 05' E. Timber, becomes widely scattered with dense sagebrush.

TRAIL

CHAINS	
72.70	Cottonwood Creek Trail, 8 lks. wide, bears East and West.
4.75	Old Bohemia Mine Trail, 10 lks. wide, bears N. 20° E. and S. 20° W.
76.50	Pack trail, 8 lks. wide, bears NW. and SE.

ASCENT

CHAINS	
20.00	Top of ascent, slopes NW., desc. 5 ft. over NE. slope.
41.70	Top of ascent, slopes East, desc. over NE. slope.
69.20	Top of ascent, slopes West, descent a NW. slope.
71.50	Base of steep ascent, bears North and South, asc. 130 ft. over E. slope.
44.00	Top of ascent on W. slope; desc. 50 ft. along W. slope.
73.00	Top of ascent, begin descent over gentle N. slope.
9.10	Top of steep ascent, bears North and South, continue gradual ascent.
17.20	Top of ascent bears East and West. Thence descend 270 ft. over steep N. slope.
24.40	Top of round hill, descend over N. slope.
18.00	Summit of small knoll, at southerly end of a ridge extending NE., descend gradual NW. slope.
56.00	End steep ascent at East edge of rounded ridge bearing North and South, continue a gradual ascent.

## DESCENT

CHAINS	
1.50	Bottom of descent, slopes East, asc. 24 ft. over NE. slope.
9.10	Bottom of descent, slopes West, continue over nearly level land.
22.20	Bottom of descent, drains South asc. 90 ft. over E. slope.
16.10	Base of descent, slopes East, asc. 160 ft. over steep rocky S. slope.
15.00	Base of descent, drains NW., asc. 40 ft. over SW. slope.
15.00	Foot of descent, continue over nearly level prairie and dense greasewood.
5.80	Foot of slope thence across valley bottom.
26.90	Base of hill, bears irregularly North and South.

TERRAIN CHANGES

CHAINS	
73.10	Slope changes to SW., desc. 355 ft. over SW. slope.
52.20	Slope changes to South, continue along broken South slope.

VEGETATION CHANGES

CHAINS	
	Ascend 365 ft. over NE. slope, through heavy timber and dense undergrowth.
	Descend 145 ft. over N. slope, through medium timber and light undergrowth.
	Descend 170 ft. over SE. slope, through light timber and moderate undergrowth, along a fence.
	Descend 290 ft. over N. slope, through scattering timber and dense undergrowth, along fence.
23.40	Enter heavy timber, edge bears NW. and SE.
36.00	Enter medium timber, edge bears N. 10° E. and S. 10° W.
14.00	Enter scattering timber, edge bears NE. and SW.
10.00	Enter widely scattering timber, edge bears NE. and W.
	Descend 55 ft. over W. slope, through scattering sagebrush and juniper.
41.00	Enter medium timber, edge bears East and West.
15.30	Leave burned area, bears N. 10° E. and S. 10° W., enter dense chaparral and scrub oak.
0.75	Ravine, drains S. 80° E., leave timber and ascend 200 ft. over broken SE. slope through dense chaparral.
	Ascend 25 ft. over rolling low lands, through heavy second growth timber and moderate undergrowth.
	Descend 5 ft. over NW. slope, through heavy young timber and dense undergrowth.
2.25	Leave fence, bears South and East, enter dense undergrowth and scattered timber, edges bear South and N. 80° W.

VEGETATION CHANGES

CHAINS	
29.00	Enter timber, edge bears North and South.
0.50	Enter dense timber, edge bears East and West.
3.00	Enter mature pine and juniper, leave young juniper.
8.20	Enter scattered spruce with alder and willow undergrowth.
7.50	Leave pine timber at the South edge of the bottom of a draw draining NW.
13.00	Re-enter pine timber and ascend a rocky S. slope.
0.40	Edge of open marsh, bears North and South.

OFFLINE TIE

CHAINS	
27.40	Stock pond, approximately 1 acre, bears East, 1.20 chs. dist.
15.00	Stock pond, 30 x 15 ft., bears North, 1.00 ch. dist. to center.
26.75	Stock water reservoir, approximately 2½ acres, bears West, 9.15 chs. dist.
32.00	Small pond, approximately 1 ch. diam., bears East, 0.60 chs. dist.
18.70	Seep spring, bears West, 11.70 chs. dist.
1.60	Edge of large boulder, 15 x 10 x 10 ft., balanced on rock outcrop, bears West, 0.25 chs. dist.
12.30	Rock cliff bears North, 0.12 chs. dist.
15.60	The W. corner of the most easterly dwelling, 52 x 28 ft., long side bears N. 40° E., of the Dome Lake Club cabin area, bears East, 0.52 chs. dist.

INTERSECTION WITH DONATION LAND CLAIM LINE

CHAINS

6.68 Intersect the West bdy. of Donation Land Claim No. 60

From this point the SW. cor. of Claim No. 60, hereinbefore described, bears S. 0° 14' W., 13.00 chs. dist.

Note: No closing corner set except along large grants to be determined administratively.

INTERSECTION WITH HOMESTEAD ENTRY LINE

CHAINS	
42.21	<p>Intersect the line between Cors. 1 and 8 of H.E.S. 446.</p> <p>from which</p> <p>Cor. No. 1 of HES 446, bears S. 64° 17' W., 2.30 chs. dist., monumented with a granite stone, 24 x 10 x 8 ins. projecting 8 ins. above ground, with X chiseled on top.</p>

INTERSECTION WITH MINERAL SURVEY LINE

CHAINS	
22.24	Intersect line 3-4 of Mineral Survey No. 475, Transfer Lode.
	From this point cor. No. 4 of the Transfer Lode, bears S. 62° 58' W., 4.09 chs. dist., hereinafter described.
25.875	Intersect line 2-3 of MS 4043 Hughes Quartz Mine, at a point from which cor. No. 2 bears N. 44° 26' W., 4.50 chs. dist., described in the subsequent resurvey of Mineral Survey 4043.
28.350	Intersect line 3-4 of MS No. 5435, Mirabeau, identical with NW. cor. of Lot 57, at a point from which cor. No. 4 bears S. 13° 07' 00" E., 0.233 chs. dist., hereinafter described.

INTERSECTION WITH SPANISH LAND GRANT LINE

CHAINS

8.75 The closing cor. of secs. 5 and 32 on the boundary of the Rancho Guejito Land Grant, monumented with a granite stone 20 x 10 x 6 ins. set 10 ins. in the ground under a fence bearing N. 42½° E. and S. 42½° W. and marked CC on the E. face.

from which

Cor. No. 9 of the Rancho Guejito bears N. 42° 15' E., approx, 45.50 chs. dist.

Cor. No. 8 of the Rancho Guejito bears S. 42° 15' W., approx. 176 chs. dist.

An oak, 25 ins. diam., bears N. 21° W., 83 lks. dist., with healed blaze.

At the corner point

Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.

T 11 S R 1 E  
Rancho / S 32  
Guejito / S 5 CC  
T 12 S  
1967

42.48 Intersect course No. 9 of the Potrero de la Cienega.

Point for the closing cor. of secs. 33 and 34.

Set an iron post, 28 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap mkd.

T 6 S  
R 5 W  
S 33 C  
I  
E  
N  
E  
G  
A  
CC — |

1965

Raise a mound of stone, 3 ft. base, around post to top.

From this point, cor. No. 9 of the Potrero de la Cienega bears N. 57° 33' W., 31.24 chs. dist.

5.91 Intersect the N. bdy. of Canon de Carnue Grant.

Point for the closing corner of secs. 8 and 9.

Set an iron post, 28 ins. long, 2½ ins. diam., 27 ins. in the ground, with brass cap mkd.

T 10 N R 5 E  
S 8 | S 9  
C | C  
C.C.GT  
1956

From this point, the 10 Mile corner, hereinafter described, bears S. 41° 21' W., 7.44 chs. dist., and meander corner 39, hereinafter described, bears N. 41° 21' E., 1.27 chs. dist.

SUMMARY EACH MILE

CHAINS	
	<p>Land, rolling hills. Soil, rocky clay. Timber, dense juniper and scattering pinon.</p>
	<p>Land, mountainous. Soil, rocky clay. Timber, fir, pine, cedar, oak, madrone, and chinquapin. Undergrowth, manzanita, ceanothus, hazel, ocean spray, blackberry, and poison oak.</p>
	<p>Land, rolling. Soil, sandy clay. Undergrowth, sagebrush, shadscale, greasewood and grass pasture.</p>
	<p>Land, mountainous and rolling. Soil, silty loam and rocky, some granite outcroppings. Timber, pine and fir, scattered grasses.</p>
	<p>Land, rolling. Soil, gravel loam. Timber, medium pine and juniper, scattered oak. Undergrowth, dense manzanita, scattered cacti.</p>
	<p>Land, mountainous. Soil, sandy loam. Timber, scattered live oak. Undergrowth, chamiso and oak species.</p>
	<p>Land, rolling hills. Soil, rocky clay. Timber, fir, cedar, hemlock, madrone, maple, chinquapin, yew, alder and oak. Undergrowth, salal, poison oak, Oregon grape, scotch broom, arrowwood, hazel, huckleberry, vines and ferns.</p>

CORNERS

CHAINS

At all corner points there must be a complete description of what was done. Even when no monument is set that fact must be stated. When a monument is set, the post must be described as to size and how far set in the ground. The brass cap must be correctly marked. The marks including township, range, section numbers, date, horizontal and vertical bars, when used, must be correctly oriented on the brass cap.

The specific terrain at the corner point should be stated.

All accessories must be fully and correctly marked in the field and stated in the notes.

A mound of stone will be described by size and relationship to the corner point.

Bearing trees and bearing objects will be listed in the proper sequence of orientation with the corner point, starting with the northeast tree and proceeding clockwise. The direction of the line being run has no effect on the proper sequence of listing the bearing trees or objects.

Bearing trees will be listed as to kind, diameter in inches, bearing from the corner point, distance in links and markings.

Ties shall be given from a corner of the survey to all springs and water holes of importance. This is important as all subdivisions containing water sources are automatically withdrawn from entry as public water reserves.

If feasible, ties shall be made in the field to all triangulation stations, bench marks and U.S. location and mineral monuments. These ties will be recorded in the notes, with geographic positions of the triangulation stations, if known.

ORIGINAL CORNERS

CHAINS

40.00 Point for the  $\frac{1}{4}$  sec. cor. of secs. 29 and 30.

Set an iron post, 28 ins. long,  $2\frac{1}{2}$  ins. diam., 8 ins. in the ground, and in a mound of stone, 3 ft. base, to top, with brass cap mkd.

T 11 N R 10 E  
 $\frac{1}{4}$   
 S 30 | S 29  
 1967

from which

A juniper,  $22\frac{1}{2}$  ins. diam., bears N.  $25^\circ$  E., 53 lks. dist., mkd.  $\frac{1}{4}$  S29 BT.

A large granite outcrop, bears S.  $86\frac{1}{2}^\circ$  W., 36 lks. dist., mkd. + B0, on N. center portion.

80.00 Point for the cor. of secs. 19, 20, 29 and 30.

Set an iron post, 28 ins. long,  $2\frac{1}{2}$  ins. diam., 16 ins. in the ground, and in a mound of stone, 3 ft. base, to top, with brass cap mkd.

T11 N R 10 E  
 S 19 | S 20  
 S 30 | S 29  
 1967

from which

A juniper, 10 ins. diam., bears S.  $65^\circ$  E., 58 lks. dist., mkd. T11N R10E S29 BT.

A juniper, 10 ins. diam., bears N.  $77\frac{3}{4}^\circ$  W., 50 lks. dist., mkd. T11N R10E S19 BT.

CIRCULAR CURVE BOUNDARY

CHAINS

Thence N. 5° 50' W.

Along the easterly right-of-way of U. S. Highway 101,  
over nearly level land.

11.40 Lost Man Creek, 30 lks. wide, course West.

11.99 Point for angle point JJ-3, and beginning of curve.

Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins.  
in the ground, with brass cap mkd.

T 11 N      R N P  
R 1 E      AP JJ-3  
S 23  
1970

Thence along the arc of a circular curve to the left  
having a radius of 550 ft.; the chord of said arc bears  
N. 18° 39' W., 3.6971 chs. dist.

3.7285 Point for angle point JJ-4 and end of curve.

Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins.  
in the ground, with brass cap mkd.

T 11 N      R N P  
R 1 E      AP JJ-4  
S 23  
1970

Thence N. 31° 28' W.

BEARING OBJECT, BOULDER

CHAINS

from which

The marks BXO on a granite boulder 3 x 3 x 3 ft.,  
bears N. 58° W., 11 lks. dist.

from which

A boulder, 17 x 8 x 4 ft. bears N. 10° W., 26 lks.  
dist., mkd. XBO at the exact reference point.

from which

The marks X BO on a boulder 5 x 4 x 4 ft., bears  
S. 11° E., 18 lks. dist.

Note: The marks should be recorded in the notes  
exactly as placed in the field.

BEARING OBJECT,  
CONCRETE ABUTMENT

CHAINS

from which

An "X" on the SW. cor. of concrete abutment, bears  
S. 71° 13' E., 153 lks. dist.

from which

An X with BO MC 12 chiseled on E. wing of old con-  
crete culvert wall bears N. 86° W., 16 lks. dist.

from which

A concrete revetment, bears N. 30° W., 123 lks.  
dist., mkd. COR 1 BO

from which

A concrete abutment in drainage canal, bears  
S. 22° 38' W., 69 lks. dist., mkd. BXO on top.

BEARING OBJECT, ROCK LEDGE OR CUT

CHAINS

from which

A bearing object, the marks BXO on the NW. face of a granite ledge 3 ft. high, bears S. 45° E., 10 lks. dist.

from which

A XBO, chiseled on vertical rock cut, 4 ft. above surface of road bed, bears S. 75½° E., 72 lks. dist.

from which

A X with BO chiseled on rock face in highway cut, bears N. 43½° W., 208 lks. dist.

from which

A point on a granite bedrock outcrop, even with the general surface, bears N. 9½° E., 27 lks. dist., mkd. BXO.

BEARING OBJECT, ROCK OUTCROP

CHAINS

from which

A point on granite bedrock outcrop, even with the  
general surface, bears N.  $9\frac{1}{2}^{\circ}$  E., 27 lks. dist.,  
mkd. BXO.

## BEARING TREE

## CHAINS

from which

A fir, 6 ins. diam., bears N. 23° E., 25 lks. dist.,  
mkd. T53N R87W S12 BT.

from which

A pine, 30 ins. diam., bears S. 43° E., 22 lks.  
dist., mkd. ¼ S21 BT.

from which

A pine, 5 ins. diam., bears N. 7¼° E., 21 lks. dist.,  
mkd. T9N R5W S33 SC BT.

from which

A larch, 8 ins. diam., bears N. 14° E., 51 lks.  
dist., mkd. MC S23 BT.

from which

A live oak, 9 ins. diam., bears S. 47° E., 89 lks.  
dist., mkd. COR 3 M S 4043 BT.

A live oak, 8 ins. diam., bears N. 5¾° W., 35 lks.  
dist., mkd. S27 CC BT.

from which

A fir, 63 ins. diam., bears N. 28° E., 95 lks. dist.,  
mkd. T36S R5W S34 BT, on a bark blaze.

from which

A madrone, 6 ins. diam., bears S. 26° E., 164½ lks.  
dist., bark scribed ¼ S10 BT.

BEARING TREE, WITNESS CORNER

CHAINS

from which

A spruce, 8 ins. in diam., bears S. 33° E., 57 lks.  
dist., mkd. X at breast height and BT at the base.

BENCH MARK

CHAINS

from which

A standard brass tablet bench mark of the Forest Service, set in concrete form, in front of Ranger Station Office, bears N.  $22\frac{1}{2}^{\circ}$  W., 169 lks. dist., bench mark is mkd. A135 1934.

from which

A U.S. Army Corps of Engineers bench mark, with a regulation brass tablet, set in concrete form, bears S.  $57^{\circ} 47'$  W., 2.837 chs. (187.2 ft.) dist., with brass tablet mkd.

U.S. ENGR. DEPT.  
B M  
No. 50A  
LOUISVILLE OFFICE

BUILDING

CHAINS

from which

The NW. cor. of small cement block pumphouse,  
bears S.  $81\frac{1}{2}^{\circ}$  E., 63 lks. dist.

from which

The SW. cor. of a U.S. Forest Service Self-Recording  
Weather Station, bears N.  $21\frac{1}{2}^{\circ}$  E., 151 lks. dist.

from which

The most easterly cor. of a frame building,  
18 x 16 ft., bears N.  $23\frac{1}{2}^{\circ}$  E., 19.70 chs. dist.,  
long side bears S.  $89^{\circ}$  W.

The SW. cor. of a plywood storehouse, 23 x 12 ft.,  
bears N.  $53^{\circ} 53'$  E., 375 lks. dist., long side  
bears N.  $79^{\circ}$  E.

The W. cor. of an irregular shaped frame house,  
31 x 24 ft., bears N.  $70^{\circ} 23'$  E., 347 lks. dist.  
long side bears N.  $44^{\circ}$  E.

The N. cor. of a plywood shed, 8 x 8 ft., bears  
N.  $85^{\circ} 21'$  E., 443 lks. dist., front side bears  
S.  $47^{\circ}$  E.

from which

The SW. cor. of a wood-framed house, 16 x 12 ft.,  
bears N.  $29^{\circ} 25'$  W., 398 lks. dist., long side  
bears North and South.

The SE. cor. of a wood-framed shed, 12 x 8 ft.,  
bears N.  $36^{\circ} 20'$  W., 422 lks. dist., long side  
bears North and South.

The SE. cor. of a log cache, 22 x 8 ft., bears  
N.  $69^{\circ} 50'$  W., 568 lks. dist., long side bears  
North and South.

from which

The NW. cor. of a wood-framed ranch style home,  
bears S.  $71\frac{1}{2}^{\circ}$  E., 192 lks. dist., long side  
bears East and West.

The NE. cor. of the E. C. Swearingen home, bears  
S.  $37\frac{1}{2}^{\circ}$  W., 136 lks. dist., long side bears  
N.  $10^{\circ}$  W.

CULTURE, MISCELLANEOUS

CHAINS

from which

The center bolt on top of a fire hydrant, bears  
S. 50° 09' W., 7 lks. dist.

The center of Memorial Rotunda, bears N. 43° 30' W.,  
222 lks. dist.

from which

The Flag Pole in front of West Hall, bears  
N. 22° 22' E., 397 lks. dist.

The NW corner of the pedestal of the statue of  
Father Pierre Gibault, bears S. 47° 50' E., 244  
lks. dist.

The door knob of the center door of the St. Francis  
Xavier Cathedral, bears S. 14° 34' E., 255 lks.  
dist.

FENCE CORNER

CHAINS

from which

A corner post (steel) of fences extending N. 10° E.  
and W., bears N. 21½° W., 28 lks. dist.

from which

A corner of fences extending South and West, bears  
N. 41° W., 41 lks. dist.

MEMORIAL, CONCRETE BLOCK

CHAINS

Bury a concrete block, 6 x 4 x 4 ins., mkd. X base of the iron post.

Deposit concrete block, 12 x 6 x 4 ins. mkd. X alongside the iron post.

MEMORIAL, FENCE POST

CHAINS

Set a steel fence post alongside the corner.

MEMORIAL, GLASS

CHAINS

Deposit a green glass bottle at base of iron post.

Deposit broken glass alongside the iron post.

Place broken glass and tin cans at base of iron post.

PIT

CHAINS

Raise a mound of earth, 4 ft. base, 1 ft. high, around the cor. and dig pits on line North and South, 3 ft. dist.

POWER POLE

CHAINS

from which

A powerpole, 10 ins. diam., bears North, 5 lks.  
dist., No. W61 L3 L5.

from which

A powerpole, bears N.  $22\frac{1}{2}^{\circ}$  E., 38 lks. dist., mkd.  
X B0.

from which

A powerpole, with spike in it, bears N.  $44\frac{1}{2}^{\circ}$  W.,  
82 lks. dist.

from which

A Eugene Water and Electric Board powerpole No. 2275  
bears N.  $56\frac{3}{4}^{\circ}$  E., 299 lks. dist.

Note: Indicate powerpole number when possible.

REFERENCE MONUMENT

CHAINS

from which

An iron post, 28 ins. long, 2½ ins. diam., set 24 ins. in the ground, for a reference monument, bears S. 42° 13' W., 61 lks. dist., with brass cap mkd. T4N R39E S4 RM 1959 and an arrow pointing to the cor.

STONE MOUND

CHAINS

Raise a mound of stone, 2 ft. base, 1½ ft. high, 1 lk.  
North of cor.

Raise a mound of stone, 4 ft. base, 2 ft. high 1 lk.  
West of cor.

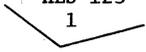
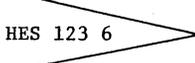
U.S.C. & G.S. MONUMENT

CHAINS

from which

United States Coast and Geodetic Survey triangulation station "Antone 1945" bears S. 27° 03' 45" W., 48.69 chs. dist., monumented with a standard brass cap, 3½ ins. diam., firmly cemented into a drill hole in a rock outcrop, 5 x 4 x 2 ft. above ground, with top mkd. ANTONE 1945 and a triangle.

Sample Notes, Original Survey  
 Subdivision, T. 11 N., R. 10 E., Gila and Salt River Meridian, Arizona

CHAINS	
79.94	<p>The cor. of secs. 27, 28, 33 and 34.</p> <p>Land, rolling.            Soil, gravel loam.            Timber, medium dense pine and juniper, with some oak.            Undergrowth, medium dense manzanita and oak brush, cacti and Spanish bayonet.</p>
	<p>N. 0° 01' W., bet. secs. 27 and 28.</p> <p>Over rolling land, through moderate timber and undergrowth.</p>
3.00	<p>Wash, 10 lks. wide, 2 ft. deep, drains SW. about 1 ch. to wash, draining South.</p>
6.18	<p>Intersect the line bet. cors. 1 and 2, H.E.S. 123.</p> <p>from which</p> <p>Cor. No. 1, H.E.S. 123, bears S. 64° 22' E., 2.07 chs. dist., monumented with a Forest Service iron post, 2½ ins. diam., firmly set, projecting 2 ins. above ground, with brass cap mkd.</p> <div style="text-align: center;"> <p>T 11 N R 10 E</p> <p>HES 123</p> <p>1</p>  <p>S 27</p> <p>LS 6713</p> <p>1967</p> </div> <p>From Cor. No. 1, H.E.S. 123, Cor. No. 6 bears N. 82° 48' E., 14.47 chs. dist., monumented with a Forest Service iron post, 2½ ins. diam., set 4 ins. below the surface of a bladed road, with brass cap mkd.</p> <div style="text-align: center;"> <p>T 11 N R 10 E</p> <p>HES 123 6</p>  <p>LS 6713</p> <p>1967</p> </div>

Sample Notes, Original Survey  
 Subdivision, T. 11 N., R. 10 E., Gila and Salt River Meridian, Arizona

CHAINS	
	<p>Thence through residential area, by traverse, topography as calculated to true line.</p>
25.86	<p>Intersect the line bet. cors. 5 and 6, H.E.S. 123.</p>
	<p>from which</p> <p>Cor. No. 5, H.E.S. 123, bears N. 40° 48' W., 24.14 chs. dist., monumented with a Forest Service iron post, 2½ ins. diam., firmly set, projecting 3 ins. above ground, with brass cap mkd.</p>
	<p style="text-align: center;">T11N R10E S 28</p>  <p style="text-align: center;">1967</p>
	<p>Cor. No. 6, H.E.S. 123, bears S. 40° 48' E., 24.79 chs. dist., previously described.</p>
40.00	<p>Point for the ¼ sec. cor. of secs. 27 and 28.</p>
	<p>Set an iron post, 28 ins. long, 2½ ins. diam., 22 ins. in the ground, with brass cap mkd.</p>
	<p style="text-align: center;">T11N R10E ¼ S 28   S 27 1967</p>
	<p>from which</p> <p>A pine, 13 ins. diam., bears S. 34° E., 50 lks. dist., mkd. ¼ S27 BT.</p> <p>An oak, 9 ins. diam., bears N. 50½° W., 31½ lks. dist., mkd. ¼ S28 BT.</p>

Sample Notes, Original Survey  
 Subdivision, T. 11 N., R. 10 E., Gila and Salt River Meridian, Arizona

CHAINS	
80.00	<p>Point for the cor. of secs. 21, 22, 27 and 28.</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 12 ins. in the ground, and in a mound of stone, 4 ft. base, to top, with brass cap mkd.</p> <p style="text-align: center;">T11N R10E  <math>\frac{S\ 21}{S\ 28}   \frac{S\ 22}{S\ 27}</math>          1967</p> <p>from which</p> <p style="padding-left: 40px;">A pine, 12½ ins. diam., bears N. 68½° E.,          122 lks. dist., mkd. T11N R10E S22 BT.</p> <p style="padding-left: 40px;">A pine, 19 ins. diam., bears S. 41¼° E.,          108 lks. dist., mkd. T11N R10E S27 BT.</p> <p style="padding-left: 40px;">A juniper, 14 ins. diam., bears N. 49° W.,          78 lks. dist., mkd. T11N R10E S21 BT.</p> <p>Land, rolling.          Soil, gravel loam.          Timber, pine, juniper and oak.          Undergrowth, manzanita and oak brush.</p>
	<p>From the cor. of secs. 22, 23, 26 and 27.</p> <p>West, bet. secs. 22 and 27.</p> <p>Over rolling land, through moderate timber and undergrowth.</p>
7.10	Small ravine, drains irregularly South.
40.00	<p>Point for the ¼ sec. cor. of secs. 22 and 27.</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 6 ins. in the ground, and in a mound of stone, 4 ft. base, to top, with brass cap mkd.</p> <p style="text-align: center;">T11N R10E  <math>\frac{1}{4} \frac{S\ 22}{S\ 27}</math>          1967</p> <p>from which</p> <p style="padding-left: 40px;">A pine, 11 ins. diam., bears S. 32¾° E., 36 lks.          dist., mkd. ¼ S27 BT.</p> <p style="padding-left: 40px;">A juniper, 7½ ins. diam., bears N. 44¼° W., 12 lks.          dist., mkd. ¼ S22 BT.</p>
41.20	Ridge, bears S. 80° E. and West.

Sample Notes, Original Survey  
 Subdivision, T. 11 N., R. 10 E., Gila and Salt River Meridian, Arizona

CHAINS	
80.00	<p>The cor. of secs. 21, 22, 27 and 28.</p> <p>Land, rolling.            Soil, gravel loam.            Timber, pine, juniper and some oak.            Undergrowth, manzanita and oak brush.</p> <hr/> <p>From the cor. of secs. 32 and 33 on the S. bdy. of the Tp.            N. 0° 02' W., bet. secs. 32 and 33.            Over rolling land, through medium timber and undergrowth.</p>
38.30	<p>Point for the <math>\frac{1}{4}</math> sec. cor. of secs. 32 and 33.</p> <p>Set an iron post, 28 ins. long, <math>2\frac{1}{2}</math> ins. diam., 6 ins. in the ground, and in a mound of stone, 4 ft. base, to top, with brass cap mkd.</p> <p style="text-align: center;">T11N R10E  <math>\frac{1}{4}</math>            S 32   S 33            1967</p> <p>from which</p> <p style="padding-left: 40px;">A juniper, <math>7\frac{1}{2}</math> ins. diam., bears S. <math>60\frac{3}{4}</math>° E., 36 lks. dist., mkd. <math>\frac{1}{4}</math> S33 BT.</p> <p style="padding-left: 40px;">A pine, 5 ins. diam., bears N. <math>53\frac{1}{2}</math>° W., 81 lks. dist., mkd. <math>\frac{1}{4}</math> S32 BT.</p>
78.30	<p>Intersect the sectional correction line.</p> <p>Point for the cor. of secs. 28, 29, 32 and 33.</p> <p>Set an iron post, 28 ins. long, <math>2\frac{1}{2}</math> ins. diam., 6 ins. in the ground, and in a mound of stone, 4 ft. base, to top, with brass cap mkd.</p> <p style="text-align: center;">T11N R10E            S 29   S 28            S 32   S 33            1967</p> <p>from which</p> <p style="padding-left: 40px;">A juniper, 14 ins. diam., bears N. 51° E., 70 lks. dist., mkd. T11N R10E S28 BT.</p> <p style="padding-left: 40px;">A juniper, 8 ins. diam., bears S. 36° E., 107 lks. dist., mkd. T11N R10E S33 BT.</p> <p style="padding-left: 40px;">A pine, 5 ins. diam., bears S. <math>62\frac{1}{2}</math>° W., 193 lks. dist., mkd. T11N R10E S32 BT.</p> <p style="padding-left: 40px;">A pine, 5 ins. diam., bears N. <math>43\frac{1}{4}</math>° W., 107 lks. dist., mkd. T11N R10E S29 BT.</p> <p>Land, rolling for first <math>\frac{1}{4}</math> mile, then nearly level.            Soil, gravel loam.            Timber, juniper and scattered pine.            Undergrowth, scattered oak brush.</p>

Sample Notes, Original Survey  
 Subdivision, T. 11 N., R. 10 E., Gila and Salt River Meridian, Arizona

CHAINS	
	From the cor. of secs. 27, 28, 33 and 34.
	West, on the sectional correction line, bet. secs. 28 and 33.
	Over rolling land, through medium timber and undergrowth.
0.30	Wash, 20 lks. wide, 4 ft. deep, drains South.
40.01	Point for the $\frac{1}{4}$ sec. cor. of secs. 28 and 33.
	Set an iron post, 28 ins. long, $2\frac{1}{2}$ ins. diam., 5 ins. in the ground, and in a mound of stone, 4 ft. base, to top, with brass cap mkd.
	<div style="text-align: center;">           T11N R10E  <math>\frac{1}{4}</math> S 28  <math>\frac{1}{4}</math> S 33            1967         </div>
	from which
	A pine, $7\frac{1}{2}$ ins. diam., bears N. $54\frac{1}{2}^\circ$ E., $39\frac{1}{2}$ lks. dist., mkd. $\frac{1}{4}$ S28 BT.
	A pine, 12 ins. diam., bears S. $43^\circ$ E., $39\frac{1}{2}$ lks. dist., mkd. $\frac{1}{4}$ S33 BT.
74.30	Rocky wash, 20 lks. wide, 1 ft. deep, drains NW.
80.02	The cor. of secs. 28, 29, 32 and 33.
	Land, rolling.
	Soil, gravel loam.
	Timber, juniper and scattered pine.
	Undergrowth, manzanita and oak brush, with cat claw and Spanish bayonet.
	N. $0^\circ 02'$ W., bet. secs. 28 and 29.
	Over rolling land, through medium timber and undergrowth.
10.00	Rocky wash, 30 lks. wide, 2 ft. deep, drains N. $30^\circ$ W.
40.00	Point for the $\frac{1}{4}$ sec. cor. of secs. 28 and 29.
	Set an iron post, 28 ins. long, $2\frac{1}{2}$ ins. diam., 6 ins. in the ground, and in a mound of stone, 4 ft. base, to top, with brass cap mkd.
	<div style="text-align: center;">           T11N R10E  <math>\frac{1}{4}</math>            S 29   S 28            1967         </div>
	from which
	A cedar, 7 ins. diam., bears N. $88\frac{1}{2}^\circ$ E., $64\frac{1}{2}$ lks. dist., mkd. $\frac{1}{4}$ S28 BT.
	A juniper, 10 ins. diam., bears S. $15^\circ$ W., 29 lks. dist., mkd. $\frac{1}{4}$ S29 BT.
79.70	Wash, 10 lks. wide, 1 ft. deep, drains N. $30^\circ$ W.
80.00	Point for the cor. of secs. 20, 21, 28 and 29.

Sample Notes, Original Survey  
 Subdivision, T. 11 N., R. 10 E., Gila and Salt River Meridian, Arizona

CHAINS		
	<p>Set an iron post, 28 ins. long, 2½ ins. diam., 12 ins. in the ground, and in a mound of stone, 4 ft. base, to top, with brass cap mkd.</p> <p style="text-align: center;">T11N R10E            S 20   S 21            S 29   S 28            1967</p> <p>from which</p> <p>A pine, 7½ ins. diam., bears S. 76½° E., 118½ lks. dist., mkd. T11N R10E S28 BT.</p> <p>A juniper, 11 ins. diam. bears S. 11½° E., 59½ lks. dist., mkd. X BT.</p> <p>A juniper, 12½ ins. diam., bears N. 45° W., 86 lks. dist., mkd. T11N R10E S20 BT.</p> <p>Land, rolling.            Soil, gravel loam.            Timber, pine, juniper and oak.            Undergrowth, manzanita and oak brush.</p>	
	<p>From the cor. of secs. 21, 22, 27 and 28.</p> <p>West, bet. secs. 21 and 28.</p> <p>Over rolling and broken land, through moderate timber and undergrowth.</p> <p>1.40 Ravine, drains N. 20° W.</p> <p>36.90 Ridge, bears S. 30° E. and N. 30° W.</p> <p>40.04 Point for the ¼ sec. cor. of secs. 21 and 28.</p>	
	<p>Set an iron post, 28 ins. long, 2½ ins. diam., 12 ins. in the ground, and in a mound of stone, 4 ft. base, to top, with brass cap mkd.</p> <p style="text-align: center;">T11N R10E            ¼ S 21            S 28            1967</p> <p>from which</p> <p>A juniper, 7½ ins. diam., bears S. 40° W., 72½ lks. dist., mkd. ¼ S28 BT.</p> <p>A pine, 10 ins. diam., bears N. 28¼° W., 167½ lks. dist., mkd. ¼ S21 BT.</p> <p>80.08 The cor. of secs. 20, 21, 28 and 29.</p> <p>Land, high rolling.            Soil, rocky clay loam.            Timber, pine and juniper.            Undergrowth, manzanita and oak brush.</p>	

SMALL TRACT (SURVEYED AREA)

CHAINS	
10.00	<p>Thence, S. 0° 01' E., on line 3-4, Tract 37.</p> <p>Point for Angle Point No. 4, Tract 37.</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 22 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">T 11 N R 10 E  <span style="border: 1px solid black; padding: 2px;">S 34</span>  AP 4  TR 37</p> <p style="text-align: center;">1968</p> <p>from which</p> <p style="text-align: center;">A pine, 15 ins. diam., bears N. 34° W., 99 lks. dist., mkd. AP4 TR37 BT.</p>
20.04	<p>Thence N. 89° 42' W., along line 4-5, Tract 37.</p> <p>Point for Angle Point No. 5, Tract 37.</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 4 ins. in the ground, and in a mound of stone, 4 ft. base, to top, with brass cap mkd.</p> <p style="text-align: center;">T 11 N R 10 E  S 34 <span style="border: 1px solid black; padding: 2px;">AP 5 TR 37</span></p> <p style="text-align: center;">1968</p> <p>from which</p> <p style="text-align: center;">The ¼ sec. cor. of secs. 33 and 34, bears N. 5° 31' W., 8.77 chs. dist.</p> <p>The cor. is set alongside a local cor., which is a 1 in. water pipe, projecting 6 ins. above the ground.</p>

SMALL TRACT (UNSURVEYED AREA)

CHAINS  
5.00

Point for Angle Point No. 3, Tract No. 37.

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

T18N R4E  
TR 37  
AP 3  
1968

from which

An aspen, 5 ins. in diam., bears N. 49 3/4° E., 10 lks. dist., mkd. X BT.

An aspen, 5 ins. in diam., bears N. 35½° W., 19 lks. dist., mkd. X BT.

15.00

Point for Angle Point No. 5, Tract No. 37.

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

T18N R4E  
TR 37  
AP 5  
1968

from which

A spruce, 4 ins. in diam., bears S. 11½° E., 19 lks. dist., mkd. X BT.

A spruce, 4 ins. in diam., bears N. 28½° W., 24 lks. dist., mkd. X BT.

## GENERAL DESCRIPTION

A general description shall be included in the returns of every field survey. The following items are offered as a guide to the material to be included in the general description.

1. A statement of the general location of the area and its proximity to towns, and any permanent reservations affecting the area.
2. A statement as to the general terrain in the area with classification as mountainous, rolling, level, etc., and range of elevations above sea level.
3. A statement as to the general drainage in the area.
4. A general description of the soil and vegetation and its distribution and density.
5. General location and classification of roads serving the area.
6. A description and location of important springs, water holes, other sources of water, and major improvements.
7. A statement as to areas under cultivation.
8. The location and size of towns.
9. Number and location of permanent residents.
10. A report of any known mineral deposits or mining activity.
11. Method of determining the mean magnetic declination.
12. Any other pertinent data.
13. Describe areas that are classified as swamp and overflow land.

CHAINS	GENERAL DESCRIPTION
	<p>Township 35 north, range 36 east is situated about 12 miles WSW. of Winnemucca, Nevada. The elevation varies from 4,200 to 5,200 feet above sea level. The soil varies from silt along the river bottom to sand dunes in the NW. portion of the township.</p> <p>The Humboldt River crosses the township from NE. to SW. Rose Creek drains the SE. portion of the area to a ranch in section 23. There are water wells in sections 14, 15, 21, 24, 25 and 26. Small seep springs are located in section 28.</p> <p>An abandoned mining operation is situated in sections 1 and 2. No other mining deposits of value were noted. Currently, the principle users of the township are cattlemen. There is no timber in the township.</p> <p>The Western Pacific Railroad crosses the area from E. to W. The Southern Pacific Railroad crosses the township from E. to SW. U.S. Highway Nos. 40 and 95 roughly parallels the Southern Pacific Railroad. Further access to the township is provided by numerous secondary and desert trail roads. A power line crosses the SE. portion of the township and REA power lines serve the homes and ranches. Two ranches are located in the Humboldt River bottom and another in section 23. There are several homes in sections 25, 26 and 27.</p> <p>An average number of readings throughout the area resurveyed gives a mean magnetic declination of 19½° E., with no noticeable difference due to local attraction.</p>
	<p style="text-align: center;">GENERAL DESCRIPTION</p> <p>The area surveyed and resurveyed within T. 10 N., R. 27 E., varies from mountainous in the west portion to nearly level in the central portion with the remaining terrain being gently rolling. The elevation ranges from about 4,700 to 5,600 ft. above sea level. The soil varies from sandy clay loam and rocky on the higher elevations to black loam on the bottom land. The vegetation consists of shadscale, blackbrush, budsage, sagebrush, meadow grass and other sparse native grasses. There are scattered stands of buckthorn, willow and cottonwood along the East Walker River which crosses the township in a northerly course.</p> <p>The Rafter Seven Ranch house is situated on the south boundary of sec. 33 and there are numerous buildings belonging to the Santa Margarita Ranch, in secs. 16 and 21. No mineral formations of consequence were noted during the survey.</p> <p>The average of a number of readings along the lines resurveyed gives a mean magnetic declination of 20° E., with a range of 2° in local attraction.</p>

FIELD ASSISTANTS

CHAINS

The names of the field assistants must be listed and the column under the heading "Capacity" will be filled with his Civil Service Classification. Use the full name of the individual if possible. Do not use nicknames.

The classification "Cadastral Surveyor" will be used instead of "Land Surveyor."



CERTIFICATE OF SURVEYOR

CHAINS

The certificate of surveyor, shall be completed, dated and signed by the Chief of Party. Only one certificate shall be prepared for each book of field notes. The names of other engineers shall be incorporated into the certificate of approval with the statement as acting under the Chief of Party. (Director's memorandum, 5.04b, dated April 14, 1960). However, two or more certificates of survey may be made if parts of the township are surveyed at different times by different Cadastral Surveyors under the same group number.

If more than one certificate of survey is made, all the surveys made under that group must be listed in one certificate of approval.

The surveyor's, or supervisor's signature on the certificate is his approval of the field notes as a true representation of the survey. He must hand sign the original but a rubber stamp or facsimile signature may be used on the duplicate and triplicate.

The identification of surveys in the surveyor's certificate shall be identical with that given on the title page.

The certificate of approval shall be completed except for date and signature.

The certificate of transcript shall be crossed out on the original copy and completed on the carbon copies, except for date and signature.

CERTIFICATE OF SURVEY

(I) John Trueline, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 29th day of February, 1972, (I) ~~(We)~~ have surveyed a portion of the south boundary and subdivisional lines, and subdivided sections 26 and 35, Township 39 North, Range 16 East,

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

April 1, 1972 /s/ John Trueline  
(Date) (Cadastral Surveyor)  
  
(Date) (Cadastral Surveyor)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT  
Washington, D.C.

The foregoing field notes of the survey of a portion of the south boundary and subdivisional lines, and subdivision of sections 26 and 35, Township 39 North, Range 16 East, Salt Lake Meridian, Utah.

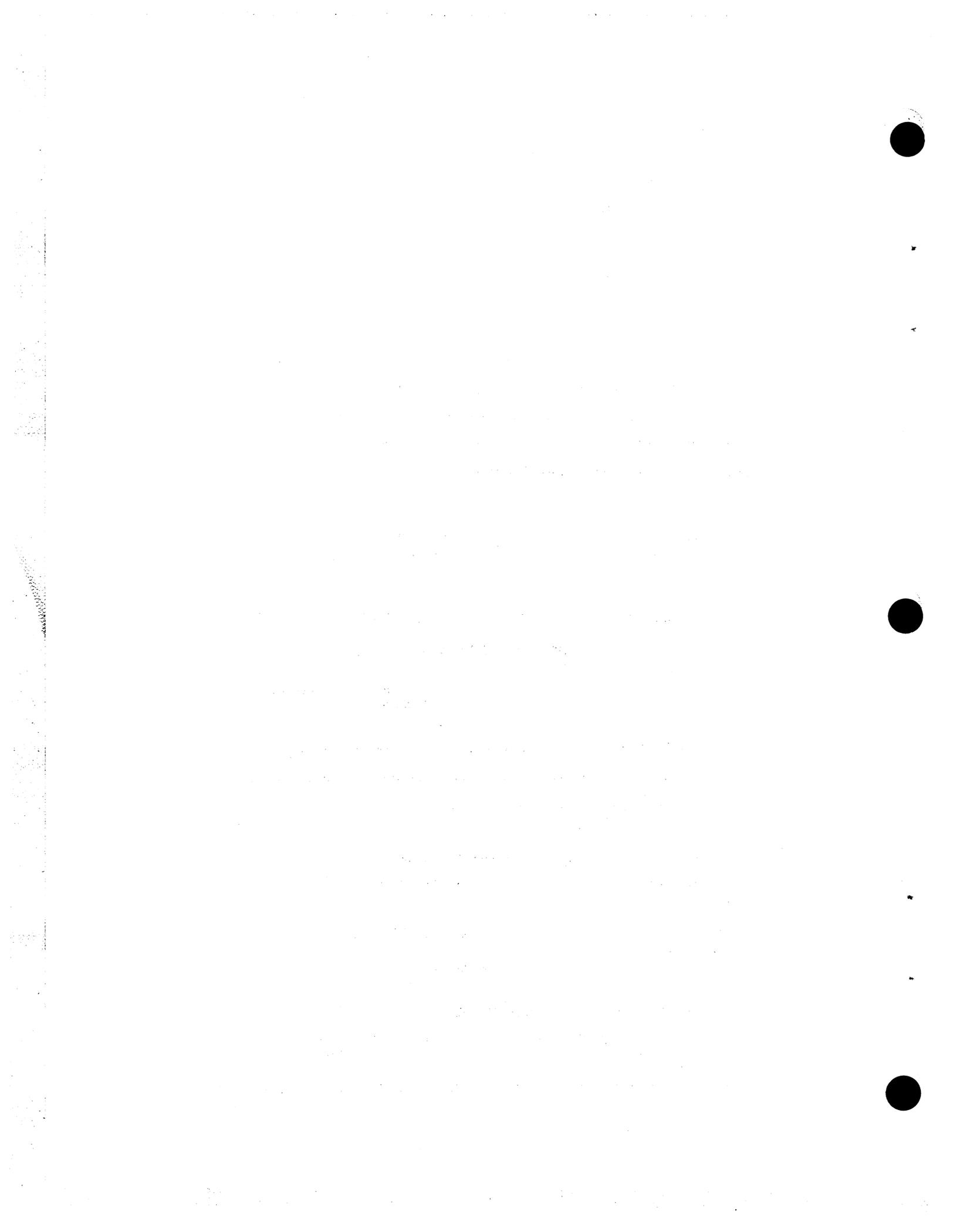
executed by John Trueline, Cadastral Surveyor  
having been critically examined and found correct, are hereby approved.

(Date) (Chief, Division of Cadastral Survey)

CERTIFICATE OF TRANSCRIPT

I CERTIFY That the foregoing transcript of the field notes of the above-described surveys in (Tp., R., Mer., and State on copies), is a true copy of the original field notes.

(Date) (Chief, Division of Cadastral Survey) GPO 849-626



# FIELD NOTES

OF THE

RETRACEMENT OF A PORTION OF THE NORTH BOUNDARY;

THE DEPENDENT RESURVEY

OF THE

EAST BOUNDARY,

PORTIONS OF THE NORTH AND SOUTH BOUNDARIES,

AND

A PORTION OF THE SUBDIVISIONAL LINES

OF

TOWNSHIP 39 NORTH, RANGE 40 EAST

Of the MOUNT DIABLO Meridian,

In the State of NEVADA

## EXECUTED BY

Lacel E. Bland, Cadastral Surveyor

Dennis D. Bland, Cadastral Surveyor

Under special instructions dated November 5, 19 65, which provided for the surveys  
Supplemental Instructions dated July 12, 1966  
included under Group Number 432, approved November 5, 1965 and  
July 12, 1966  
and assignment instructions dated November 5, 19 66.

Survey commenced June 14, 19 66

Survey completed August 16, 19 66

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FIELD NOTES

OF THE  
DEPENDENT RESURVEY OF THE GUIDE MERIDIAN

THROUGH T. 27 S., BETWEEN RS. 6 AND 7 W.,

THE SOUTH BOUNDARY OF T. 26 S., R. 7 W.,

A PORTION OF THE SOUTH BOUNDARY OF T. 26 S., R. 8 W.,

AND

THE SOUTH BOUNDARY AND THE SOUTH 3 MILES OF THE  
WEST BOUNDARY AND A PORTION OF THE SUBDIVISIONAL LINES

AND

AN INDEPENDENT RESURVEY OF A PORTION OF THE SUBDIVISIONAL LINES

AND

THE SURVEY COMPLETING THE SUBDIVISIONAL LINES

OF

T. 27 S., R. 7 W.

Of the SALT LAKE Meridian,  
In the State of UTAH

EXECUTED BY

Craig P. Sylvester Supervisory Cadastral Surveyor

Under special instructions dated November 4, 1968, which provided for the surveys  
included under Group Number 502, approved November 12, 1968,  
and assignment instructions dated March 6, 1969.

Survey commenced March 27, 1969

Survey completed July 11, 1969

# RESURVEY

## COVER PAGE

The cover page must be filled out with a complete and comprehensive description of the surveys, meridian, state, executed by, date of Special Instructions, group number, approval date of both original and supplemental or amended Special Instructions, date of assignment instructions and dates survey commenced and completed.

Particular care must be taken to be certain that the dates of the Special and Supplemental or Amended Instructions, dates of approval of Special and Supplemental or Amended Instructions, and date of assignment instructions agree with the group file copy.

In so far as is possible, the information should be centered to present a neat, symmetrical appearance.

The cover page will be prepared at least in duplicate with the original and duplicate being sent to Washington. A third copy may be made for retention in the originating office files. In the upper right hand corner will be stamped ORIGINAL, DUPLICATE, OR TRIPLICATE.

ORIGINAL

Form 9180-6  
(April 1965)  
(formerly 4-679)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FIELD NOTES

OF THE

DEPENDENT RESURVEY

OF A PORTION OF THE

NORTH BOUNDARY,

A PORTION OF THE

EAST BOUNDARY,

AND PORTIONS OF THE

SUBDIVISIONAL LINES

WITH A

PARTIAL SUBDIVISIONAL SURVEY

OF

SECTIONS 2, 11 AND 14

TOWNSHIP 53 NORTH, RANGE 87 WEST

Of the SIXTH PRINCIPAL Meridian,

In the State of WYOMING

EXECUTED BY

Clifford A. Robinson, Supervisory Cadastral Surveyor

Under special instructions dated August 8, 19 67, which provided for the surveys

included under Group Number 312, approved August 8, 1967,

and assignment instructions dated August 8, 19 67.

Survey commenced August 23, 1967

Survey completed October 19, 1967

INDEX

The index diagram must be completed and if it is not a carbon of the original on each set of notes, the copy must be compared with the original for accuracy. If the survey does not follow the normal rectangular form, the index should conform to the actual configuration of the survey as much as possible.

The note page numbers will be placed to the right of meridional lines and above latitudinal lines whenever possible.

INDEX DIAGRAM

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7 86	8 80	9 76	10 71	11 65	12 7	
83	82	79	74	69	63	
18 85	17 79	16 75	15 70	14 64	13 6	
29	30	31	31	32	33	
20 19 62	20 54	21 49	22 44	23 39	24 4	
61	59	53	48	43	37	
19 30 58	29 52	28 47	27 42	26 36	25 3	
57	56	51	46	41	35	
18 31 55	32 50	33 45	34 40	35 34	36 2	
17	15	13	11	10	9	

# INDEX DIAGRAM

Township 39 NORTH, Range 40 EAST

12		11	10	10	9	9
6	67 5	58 4	48 3	37 2	27 1	8
	67	58	47	37	26	
7	66 8	57 9	46 10	36 11	26 12	7
	65	56	46	35	25	
18	64 17	55 16	45 15	34 14	24 13	5
	64	54	44	33	23	
19	63 20	53 21	43 22	32 23	22 24	4
	62	53	42	32	21	
30	61 29	52 28	41 27	31 26	20 25	3
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31	59 32	50 33	39 34	29 35	18 36	2
	17	16	15	14	13	

ORDER OF WRITING LINES

CHAINS

In writing the field notes a decision must always be made concerning the order that the lines will appear in the record. As a general rule, the notes are normally written in descending order of importance of the lines. That order is:

1. State boundaries
2. Senior grant and reservation boundaries
3. Principle meridians
4. Base lines
5. Standard parallels
6. Guide meridians
7. Township boundaries
8. Subdivisional section lines
9. Subdivision of section lines
10. Meander lines
11. Other auxiliary survey lines

One basic principle to be kept in mind in applying the order of writing the lines is that any line to be closed upon by another line or connected to by another line should be written before such closing or connecting line. The closing line will be written toward the closing corner. When closing upon a previously surveyed line, always record the tie from the closing corner to the nearest regular corner on the line closed upon.

In writing the notes for the normal township, the boundaries are written first and the usual order is:

1. The south boundary written from east to west
2. The east boundary written from south to north
3. The west boundary written from south to north
4. The north boundary written from east to west

The subdivisional section lines are written second. The usual starting point is the corner of sections 1, 2, 35 and 36 on the south boundary of the township, writing the line north between sections 35 and 36, to the corner of sections 25, 26, 35 and 36. Then the line between sections 25 and 36 is written from east to west. The writing of the lines continue northward, and from east to west, one section at a time until the corner of sections 1, 2, 35 and 36 on the north boundary of the township is reached. Then the second, third and fourth range of sections is written similarly. The sequence for the fifth and sixth ranges of sections is north between sections 31 and 32, west between sections 29 and 32, west between sections 30 and 31 to the range line, north between sections 29 and 30 and repeat the process on the east-west lines and the line north until the north boundary of the township is reached.

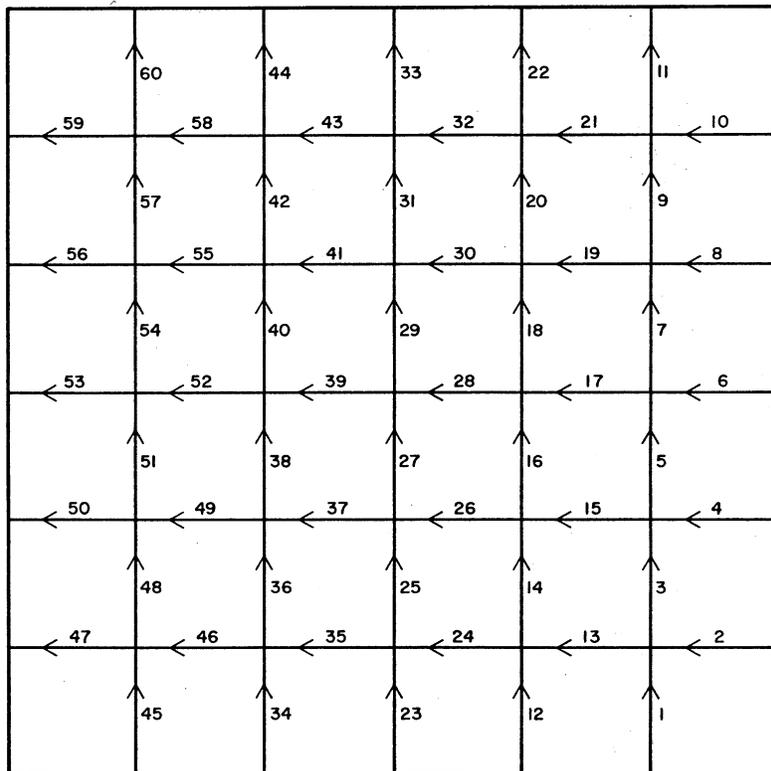
Subdivided sections are written in numerical sequence starting with the lowest numbered section. The subdivision of section lines is written as follows:

1. N-S center line written from south to north
2. E-W center line written from east to west

In case of the subdivision of the  $\frac{1}{4}$  sections into  $\frac{1}{16}$  section or smaller parcels, the same pattern will be used, starting with the NE  $\frac{1}{4}$  and proceeding clockwise around the section. All the lines of each  $\frac{1}{16}$  section will be written before proceeding to the next  $\frac{1}{16}$  section and all lines in each  $\frac{1}{4}$  section will be written before proceeding to the next  $\frac{1}{4}$  section.

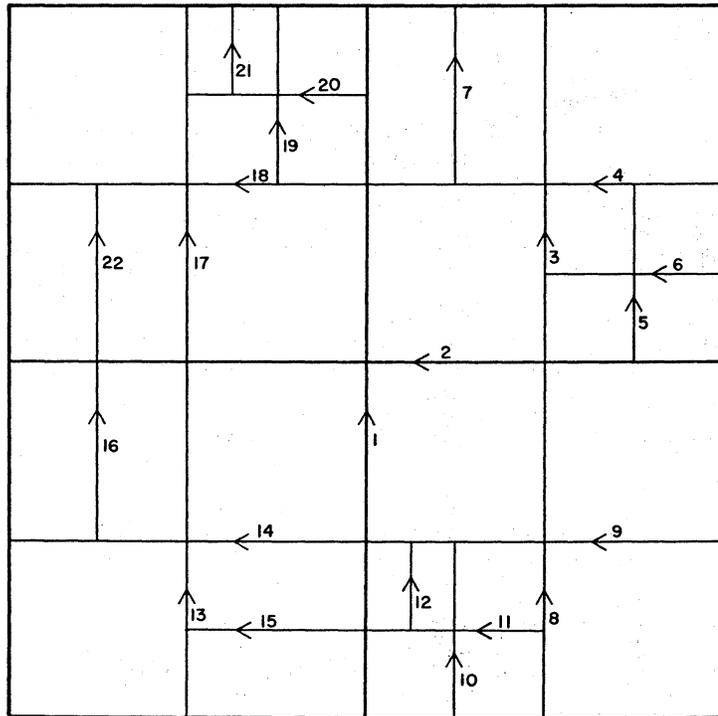
# Order of Writing Field Notes

## Normal Township Subdivision



# Order of Writing Field Notes

Section Subdivision



## INTRODUCTORY PARAGRAPHS

The introductory statements on page one of the field notes for ordinary surveys must contain seven separate paragraphs as follows:

1. Description of survey.
2. History of previous surveys.
3. Reference to Manual of Instructions and Special Instructions.
4. Method used to establish the direction of the survey lines.
5. Statement concerning search for intervening corners.
6. Geographic coordinates of point in survey.
7. Mean magnetic declination.

It is preferred that the paragraphs appear on page one in the order listed above. Each paragraph will be indented five spaces from the left margin and double spaced from the paragraph above.

The description of the survey must conform to the title page and state in narrative form just what survey was accomplished.

The history of previous surveys details the surveys that have been performed on those lines that are resurveyed and may be either in narrative or tabular form. In either case, the listing must be complete and will start with the earliest survey and end with the most recent survey. The history need only relate to the area being resurveyed even if it is very small and localized.

The paragraph concerning the Manual of Instructions and Special Instructions is fairly uniform. It is used to show that the surveyor was authorized to perform the survey.

The paragraph concerning the geographic coordinates of a point in the survey will contain the method used to determine the point. The point in the survey will normally be the southeast corner of the township or lesser area surveyed. If the position of the point is calculated through surveyed lines from a triangulation station, the name of that station and its location by township, range and section should be given. The value of the geographic position should be given to the degree of precision consistent with the accuracy of the method used in obtaining it. Values to a tenth of a second may be given when calculated through an accurate tie to a nearby triangulation station.

The mean magnetic declination of the survey must be shown.

If any non-standard method or any special equipment is used, a paragraph detailing this non-standard or extraordinary use must be included.

DESCRIPTION OF SURVEY

CHAINS

The following field notes are those of the dependent resurvey of a portion of the subdivision lines and an extension survey in section 23, to include lands, omitted from the original survey of Township 40 North, Range 15 East, Fourth Principal Meridian, Wisconsin.

The following field notes are those of the dependent resurvey of the Fourth Standard Parallel South in Ranges 24 and 25 East (N. bdy.), west bdy. and subdivisional lines of Township 21 South, Range 24 East, New Mexico Principle Meridian, New Mexico.

The following field notes are those of the retracement of a portion of the north bdy.; the dependent resurvey of the east bdy., a portion of the north and south bdys. and a portion of the subdivisional lines of Township 39 North, Range 40 East, Mount Diablo Meridian, Nevada.

The following field notes are those of a dependent resurvey of a portion of the west bdy. and a portion of the subdivisional lines of Township 1 North, Range 71 West of the Sixth Principle Meridian, Colorado. These notes also include a partial subdivision of section 17, 18, 19 and 20, a metes and bounds survey of certain small lots and a resurvey of a portion of the mineral surveys within this township.

The following field notes are those of the dependent resurvey of the Guide Meridian through T. 27 S., between Rs. 6 and 7 W., the South Boundary of T. 26 S., R. 8 W., the South Boundary, the south 3 miles of the West Boundary, and the subdivisional lines of secs. 19 through 23 and 26 through 35, an independent resurvey of the north 3 miles of the First Meridional Line, and a survey of secs. 1 through 18 and secs. 24, 25, and 36 of T. 27 S., R. 7 W., Salt Lake Meridian, Utah.

HISTORY OF SURVEYS

CHAINS

(Narrative Form)

The south boundary was surveyed in 1904 by Campbell and Oakes. The east boundary was surveyed in 1904 by C. L. Campbell. The west boundary was surveyed in 1919 by S. E. Blout. Exchange Survey No. 680 in sections 33 and 34 was surveyed in 1956 by Charles C. Doak, U. S. Forest Service, and was cancelled by memorandum from the Director, dated June 15, 1967. The north boundary of section 3, Township 10 North, Range 10 East, was concurrently resurveyed under Group No. 480 and again resurveyed under this group when a double set of corners were necessary. The field notes thereof are included under Township 11 North, Range 10 East.

The south boundary, which is a portion of the 13th Standard Parallel North, the east, west and north boundaries, and the subdivisional lines, were surveyed by Edward F. Stahle, U. S. Deputy Surveyor, in 1881 and 1882. The east boundary was independently resurveyed in 1940, and the west boundary was dependently resurveyed in 1942 by Marvin J. Lytle, Cadastral Engineer.

Township 40 North, Range 15 East: the boundaries of the township were surveyed by Artemas Curtis, Deputy Surveyor in August 1857, the subdivision lines were surveyed by William E. Daugherty and Alexander S. McDill, Deputy Surveyors, in May 1865.

HISTORY OF SURVEYS

CHAINS

(Tabular Form)

History of prior surveys:

Potrero de la Cienega - John C. Hays in 1858.

Southeast corner of T. 6 S., R. 5 W., - George Sandow in 1880.

South boundary and subdivisional lines - O. N. Sanford in 1884.

Course No. 10 and 11 of the Potrero de la Cienega, retraced, Homestead Entry Survey No. 237 - Percy L. Day in 1917.

Course No. 11 of the Potrero de la Cienega, retraced by Norman A. Neste R.C.E. 8613 1961 - County of Riverside.

History of earlier surveys in connection with the above described surveys.

West Boundary Secs. 18 and 19	Surveyed	F. F. Brune	1871
West Boundary Secs. 18 and 19	Retraced	G. S. Oliver	1882
Remaining Boundaries of Secs. 17, 18 19 and 20	Surveyed	E. H. Kellog	1875
North Boundary Sec. 17	Resurveyed	J. M. Tufts	1942

The history of the previous surveys is as follows:

<u>Lines Surveyed</u>	<u>By Whom</u>	<u>Date</u>
2nd Stan. Par. N.	James W. Page	1879
Res. 2nd Stan. Par. N.	William K. Trippet & John P. Gensman	1908
Subdivisional Lines	William K. Trippet & John P. Gensman	1908

REFERENCE TO SPECIAL INSTRUCTIONS

CHAINS

These surveys were executed in accordance with the specifications as set forth in the Manual of Surveying Instructions, 1947, and the Special Instructions dated June 24, 1964.

The survey was executed in accordance with the specifications as set forth in the Manual of Surveying Instructions, 1947, and the Special Instructions dated October 6, 1966.

The survey was executed in accordance with the specifications as set forth in the Manual of Surveying Instructions, 1947, the Special Instructions dated November 5, 1965, and the Supplemental Instructions dated July 12, 1966.

SURVEY LINE DIRECTION

CHAINS

The direction of the lines of this survey was determined by altitude observations on the sun. The lines were carried forward by sustained angulation being supplemented by other altitude observations on the sun taken throughout the progress of the survey. The vertical angles of measurements made on the slope were ascertained by a clinometer in good adjustment; the horizontal equivalents only are entered in the field notes.

The directions of all lines were determined by the solar transit and refer to the true meridian. The lines were carried by transit method and confirmed by succeeding a.m. and p.m. altitude observations on the sun.

The directions of lines were determined by the solar compass method, the solar transit method, and by deflections from azimuths obtained by direct solar observations.

The direction of the lines of this survey were determined by reference to true meridians established on line by a gyrocompass and direct solar observations. The lines were carried forward by sustained angulation, being supplemented by other solar observations taken throughout the progress of the survey.

SEARCH FOR ORIGINAL CORNERS

CHAINS

Before restoring the corners, the lines of the original surveys were retraced and diligent search made for any evidence of the original corners, bearing trees and other calls of the field note records. When duly identified, the corner positions were remonumented and new bearing objects marked.

Before restoring the corners, the lines of the original surveys were retraced and a diligent search made for any evidence of the original corners, bearing trees, and calls of the original field note records. When duly identified, the corner positions were remonumented and new accessories obtained.

Prior to restoration of any corners, all necessary lines of the original survey were retraced and diligent search was made for any evidence of the original monuments and other calls of the official record. Identified corners were remonumented in their original positions. Lost corners were reestablished at proportionate positions, but not until exhausting every reasonable possibility of finding direct evidence of the control of each corner.

In initiating the resurvey, retracements of the previous surveys were performed and a diligent search made to identify evidence of all previously established corner monuments. Identified corners are remonumented in their original positions; where available, collateral evidence is used to reestablish obliterated corners; and lost corners are reestablished by the rules of proportionate measurement.

## GEOGRAPHIC POSITION

CHAINS

The geographic position of the southeast corner section 33, as scaled from U.S. Geological Survey "Jefferson City" Quadrangle Map, 1956, 7½' series, is as follows:

Latitude: 46° 29.1' N. Longitude: 112° 13.7' W.

The geographic position of the southeast corner of the township as determined from a tie made to U.S.G.S. vertical angle bench mark "Dead Man," located in the NW corner of sec. 9, is:

Latitude: 32° 25' 42" N. Longitude: 104° 26' 34" W.

The geographic position of the southeast corner of sec. 35, as scaled from the Elmira, Oregon quadrangle map, 1956, 15' series, published by the U.S.G. Survey in 1957, is as follows:

Latitude: 44° 02.5' N. Longitude: 123° 29.5' W.

The geographic position of the SE. cor. of sec. 13, as scaled from the 1970, U.S.G.S.'s 7.5 minute series, "Dome Lake" Quadrangle, is:

Latitude: 44° 33.3' N. Longitude: 107° 16.5' W.

The data furnished with the Special Instructions gives the geographic position of the ¼ sec. cor. of secs. 22 and 23 as:

Latitude: 45° 56.0' N. Longitude: 88° 35.5' W.

MAGNETIC DECLINATION

CHAINS

The mean magnetic declination is 13° 30' E.

The mean magnetic declination is 15° E.

PAGE NUMBERS AND HEADING

Each page of the field notes will have a page number placed at the center top of the page. Under the page number, each page will have a heading above the ruled line which gives the contents of that page. The heading will include the meridian and state in addition to the type of survey and township and range.

Page one does not have the type of survey performed because it contains introductory material.

All headings will be centered on ruled line. To accomplish this, abbreviation of townships, ranges, and sections will have to be used.

1

T. 5 N., R. 7 W., Sixth Principal Meridian, Nebraska

2

Dependent Resurvey of the First Standard Parallel North  
(Through Range 7 West) Sixth Principal Meridian,  
Nebraska

3

Dependent Resurvey of a Portion of the Subdivision  
Lines T. 40 N., R. 15 E., Fourth Principal  
Meridian, Wisconsin

4

Partial Subdivision of Sec. 2, T. 53 N., R. 87 W.,  
Sixth Principal Meridian, Wyoming

5

Dependent Resurvey of a Portion of the Subdivision  
Lines, T. 18 N., R. 4 E., New Mexico Principal  
Meridian, New Mexico

65

Independent Resurvey, T. 27 S., R. 7 W., SLM, Utah

WRITING EACH MILE

CHAINS

The point of beginning of each mile should be identified unless it is the terminal point in the immediately preceding notes. It is preferable that the expression "From the cor. of secs.---,etc." be used rather than "Beginning at the cor. of secs.---,etc." except at the beginning of the notes.

Following the identification of the starting point, the course and line must be identified and there should be a statement as to the character of the terrain and the type of vegetation at the beginning of the mile.

At the appropriate distance along the true line between corners the following items must be entered:

1. Topography
2. Culture
3. Major ascents
4. Major descents
5. Changes in character of the terrain
6. Changes in the type of vegetation
7. Other survey lines intersected

The most prevalent items of topography encountered on lines are:

arroyo	pond
cliff	pothole
creek	ridge
divide	ravine
drain	river
draw	saddle
dry creek	slough
gulch	spring
lake	spur
marsh	swamp
outcrop	wash

The most prevalent items of culture encountered on lines are:

building	pipe line
ditch	powerline
diversion channel	railroad
fence	road
field	street
gravel pit	telegraph line
mine shaft	telephone line
mine tailings	trail
pasture	

Also, ties from the appropriate distance along the true line should be given to the following items.

1. Major topographic features such as rock outcrops or cliffs.
2. Major cultural features such as buildings or fence corners.

At the end of each mile, except in the subdivision of a section where it is never required, there must be a summation for that mile, of land, soil, timber and vegetation.

Draw a line completely across the page following this summary, at the end of each mile.

Beginning of Survey

CHAINS

Immediately following the introductory paragraphs, a line is drawn across the page and a subheading indicating the type of survey, township, range, meridian and state is placed immediately under the line. Under this information another line is drawn across the page. Below this second line, information is given identifying the notes as a reestablishment or supersedence of surveys executed by a specific surveyor in a specific year.

If the resurvey is dependent, the word reestablished is used. If it is an independent resurvey, the word superseded is used.

Under this information a line crossing the page is drawn.

Below this line three items appear:

1. The starting point.
2. The direction and identification of the line being resurveyed.
3. The character of the terrain and type of vegetation on line near the corner.

Dependent Resurvey of the East Boundary of T. 39 N.,  
R. 40 E., Mount Diablo Meridian, Nevada

Reestablishment of the Survey Executed by H. B.  
Maxson, Deputy Surveyor, in 1888

Beginning at the cor. of Tps. 38 and 39 N., Rs. 40 and 41 E., monumented with an iron post, 2½ ins. diam., set, mkd. and witnessed as described in the field notes of T. 38 N., R. 41 E., executed concurrently under this same group.

N. 2° 22' E., bet. secs. 31 and 36.

Along rolling E. slope, through medium undergrowth.

Dependent Resurvey of a Portion of the 2nd Standard  
Parallel South, S. Bdy. of T. 8 S., R. 22 E., SLM, Utah

Reestablishment of the Resurvey Executed by W. F.  
Benson, Deputy Surveyor, in 1879.

Beginning at the standard cor. of secs. 32 and 33, T. 8 S.  
R. 22 E., monumented with a local iron post, 2½ ins. diam.,  
6 ins. above ground, accepted as best available evidence  
of the orig. cor., with a metal cap mkd.

PVID  
8 22  
S 32 | S 33  
6  
9 22

from which

A railroad iron, projecting 36 ins. above ground,  
bears N. 45½° E., 64½ lks. dist.

A railroad iron, projecting 40 ins. above ground,  
bears S. 45½° W., 64 lks. dist.

CHAINS

The cor. is located at the intersection of two rough bladed roads, bearing North, South, East and West, and was remonumented by the Palo Verde Irrigation District.

N. 89° 59' E., along the S. bdy. of sec. 33.

Ascend 15 ft. over nearly level bottom land, along a bulldozed trail, through dense arrowweed, salt cedar, ironwood and scattered cottonwood trees.

Dependent Resurvey of a portion of the Subdivisional Lines, T. 17 S., R. 7 W., Willamette Meridian, Ore.

Reestablishment of the Survey Executed by Daniel S. Herron, Deputy Surveyor, in 1859-60 and the Resurvey Executed by W. S. Chapman and C. S. Nicklin, Deputy Surveyors, in 1897-98

Beginning at the cor. of secs. 1, 2, 35 and 36, on the S. bdy. of the Tp., monumented with an iron post, 2 ins. diam., firmly set, projecting 8 ins. above ground, with brass cap mkd.

T 17 S R 7 W  
 S 35 | S 36  
 S 2 | S 1  
 T 18 S  
 1947

from which

A fir, 22 ins. diam., bears N. 22° E., 269 lks. dist., with a healed blaze.

A fir, 11 ins. diam., bears S. 76° E., 110 lks. dist., with a healed blaze.

A fir, 38 ins. diam., bears S. 38° W., 82 lks. dist., with a healed blaze.

A fir, 24 ins. diam., bears N. 85½° W., 196 lks. dist., with a healed blaze.

N. 1° 48' E., bet. secs. 35 and 36.

Descend 156 ft. over NW. slope, through heavy second growth timber and dense undergrowth.

Independent Resurvey of a Portion of the Subdivision of T. 27 S., R. 7 W., SLM, Utah

Superseding the Survey Executed by A. D. Ferron in 1878

BEGINNING OF EACH MILE

CHAINS

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

N. 88° 35' W., bet. secs. 26 and 35.

Over mountainous land, through medium undergrowth, asc.  
90 ft. along S. slope.

N. 0° 23' W., bet. secs. 26 and 27.

Over mountainous land, through medium undergrowth, asc.  
S. slope.

From the cor. of secs. 23, 24, 25 and 26.

N. 84° 56' W., bet. secs. 23 and 26.

Over mountainous land, through medium undergrowth, asc.  
NE. slope changing to E. slope.

N. 1° 41' W., bet. secs. 22 and 23.

Over low mountainous land, through medium undergrowth,  
desc. N. slope.

NOTE: The amounts of ascent or descent as shown in  
the first example above, will be required  
only in rough country where they are of  
significant value to later surveyors.

ARROYO

CHAINS	
63.00	Right bank of rocky arroyo, bears West and ENE.
66.50	Left bank of same arroyo, bears West and ENE. Ascend gradually through dense undergrowth.
18.20	Tijeras Canon Arroyo, 30 lks. wide, 20 feet deep, drains West.

## CLIFF OR BLUFF

CHAINS	
29.40	Top of bluff, 40 ft. high, bears East and West, asc. over nearly level land.
74.00	Rock bluff, 20 ft. high, bears N. 10° W. and S. 10° E., faces SW., desc. 135 ft. over SW. slope.
63.80	Top of main bluff, 80 ft. high, bears NE. and SW. Descend.
65.50	Base of bluff and right bank of rocky arroyo, bears NE.
26.40	Top of rocky ledge, bears ENE. and WSW. Enter dense undergrowth.
27.70	Granite ledge, 15 ft. high, bears irregularly North and South.
68.60	Rocky ledge, bears irregularly North and South.
15.10	South rim of canyon, top of cliff, 75 ft. high, bears NE. and SW.
16.20	North rim of canyon, top of cliff, 75 ft. high, bears NE. and SW.
11.70	Top of a granite bluff, 30 ft. high, bears North and South.

## CREEK

CHAINS	
53.90	Flat Creek, 3 lks. wide, course East, ascend a SW. slope.
14.35	Birch Creek, 5 lks. wide, course N. 10° E., asc. 145 ft. over W. slope.
20.40	Knott Creek, in concrete ditch, 3 lks. wide, 1 ft. deep, course N. 64° 47' W.
18.70	Stream, 3 lks. wide, 6 ins. deep, course NW.
20.10	Creek, 8 lks. wide, course South.

DIVIDE

CHAINS	
50.90	The divide between Zuma Canyon and Ramirez Canyon, bears N. 10° E. and S. 10° W., descend over steep rolling hills.
48.00	Crest of Hot Springs Range, bears South from NW., continue along S. slope.
1.50	Top of divide between Nickel Creek and Pacific Ocean, bears North and South, desc. over W. slope.
36.00	Crest of a divide, bears East and West.

DRAIN

CHAINS

3.40 Drain, course ENE.

24.70 Drain, course East.

12.50 Shallow drain, course NE., gradually ascend.

## DRAW

CHAINS	
3.80	Draw, drains S. 20° E., ascend a NE. slope.
29.10	Draw, drains N. 80° E., asc. 90 ft. over SE. slope.
7.50	Center of large draw, drains NNE.
38.90	Head of large draw, drains SSW. Begin ascent.
59.60	Draw, drains South, ascend over E. slope.
28.00	Draw, drains irregularly N. 75° W.
30.00	Draw, drains S. 30° E.

DRY CREEK

CHAINS	
5.00	Dry bed of creek, 10 lks. wide, drains East, asc. 240 ft. over SE. slope.
2.70	Dry bed of creek, 8 lks. wide, drains S. 15° W., asc. 140 ft. over SE. slope.
18.65	Dry creek, 3 lks. wide, drains S. 70° E., asc. 225 ft. over SE. slope.
17.50	Dry creek bed, 60 lks. wide, drains SW., continue over nearly level land.
30.80	Willow Creek, dry, 20 lks. wide, 4 ft. deep, drains East 5.00 chs. thence SE., asc. 40 ft. over SE. slope to spur.

## GULCH

CHAINS	
25.65	Gulch, drains NE., asc. 195 ft. over SE. slope.
22.15	Cub Gulch, wet, drains S. 10° W.
33.40	Dry gulch, drains NNE. Begin ascent over steep SE. slope.

## LAKE

CHAINS	
3.90	<p>The mean high water line of the southern shore of Porcupine Lake, bears N. 20° E. and S. 35° W., the true point for the meander cor. of secs. 22 and 23. Did not monument.</p> <p>N. 2° 23' W., beginning new measurement.</p> <p>Over Porcupine Lake, distance by triangulation.</p>
11.20	<p>The mean high water line of the northern shore of Porcupine Lake, bears S. 25° E. and N. 50° W., the true point for the meander cor. of secs. 22 and 23.</p>
24.75	<p>East shore of small lake, bears N. 10° W. and S. 30° W.</p>
27.75	<p>West shore of above lake, bears North and South.</p>
77.00	<p>The southern shore of Arizona Lake, bears East and West, thence, by triangulation across Arizona Lake.</p>
80.00	<p>The true point for the cor. of secs. 11, 12, 13 and 14, located within the bed of Arizona Lake. Did not monument.</p> <p>N. 0° 01' W., bet. secs. 11 and 12.</p> <p>Across Arizona Lake.</p>
26.80	<p>The northern shore of Arizona Lake, bears East and SW.</p>
15.50	<p>The East shoreline of Grayling Lake, bears N. 70° W. and S. 5° E.</p>
21.30	<p>The West shoreline of Grayling Lake, bears N. 40° E. and South. Enter fir timber and begin a very gradual ascent.</p>

MARSH

CHAINS	
41.50	Enter marsh, 8 chs. wide, 15 chs. long, extending North and South.
49.30	Leave West edge of marsh and begin a steep ascent of an East slope, through pine and fir timber.
73.00	Enter a large marsh, 15 chs. diameter, edge bears N. 15° E. and S. 15° W.
13.20	Base of descent, bears East and West, enter marsh.
15.20	Leave marsh, bears East and West, asc. over S. slope.
<p>Note: If salt marsh, so state. Distinguish between marsh and swamp because of swamp and overflowed act.</p>	

OUTCROP

CHAINS	
19.10	Rock outcrop, bears NE. and SW. Descend over steep NW. slope.
10.75	Quartz outcrop, bears NNW. and SSE.
14.40	Large granite outcrop.
13.65	A large granite boulder, 20 ft. x 20 ft. x 15 ft., on line.

POTHOLE

CHAINS	
5.10	Bottom of a small, dry, pothole, approximately 1 chain in diameter.
8.00	The South edge of a large pothole, containing some standing water.
14.20	The North edge of pothole, continue over boulder covered, broken terrain, through pine and fir timber.
23.00	The South edge of a dry pothole.
28.50	North edge of pothole.

RAVINE

CHAINS	
0.50	Ravine, drains NW., asc. 10 ft. over SW. slope.
17.50	Head of ravine, drains West, asc. 20 ft. over SW. slope.
39.90	Deep narrow ravine, drains S. 20° E.
29.70	Side ravine drains South, ascend 40 ft. over SE. slope.
17.55	Wet ravine, drains S. 40° E., ascend a NE. slope.
20.20	Small ravine, drains East to next ravine.
0.60	Ravine, drains South, asc. 170 ft. over E. slope.
69.00	Canon bottom, drains NW.
15.40	Bottom of canyon, drains S. 50° W., asc. 205 ft. over SE. slope.
7.40	Ravine, drains irregularly West.

RIDGE

CHAINS	
31.80	Ridge, bears N. 30° W. and S. 30° E., desc. slightly along N. slope on side of spur.
30.00	Ridge, bears N. 20° E. and S. 20° W., desc. 255 ft. over E. slope.
21.35	Sharp, narrow ridge, bears North and South, desc. 405 ft. over E. slope.
31.70	Ridge, bears East and West.
13.00	Top of low ridge, bears NW. and SE., descend gradual SW. slope.
59.50	Prominent high ridge, bears NNE. and SSW., desc. broken NW. slope.
49.10	Top of rocky point on ridge, bears East and West, desc. 35 ft. over rocky NW. slope.
35.80	Low ridge, bears North and South.
70.05	Top of ridge, bears East and West, desc. 67 ft. over N. slope.

RIVER

CHAINS	
23.00	Left bank of the Middle Fork of the Willamette River, course N. 81° W.
27.45	Right bank of the Middle Fork of the Willamette River, course N. 81° W., asc. 10 ft. over S. slope.

## SADDLE

CHAINS	
37.00	Saddle in ridge, bears NE. and West, desc. 5 ft. over NW. slope.
31.70	Saddle on ridge, bears East and West, end triangulation.

SLOUGH

CHAINS

23.80

Slough, 20 lks. wide, 3 ins. deep, course SW.

SPRING

CHAINS	
29.30	Spring branch, 1 lk. wide, 4 ins. deep, course N. 75° W., asc. 140 ft. over SW. slope.
65.60	Spring, 4 lks. diameter, 12 ins. deep, asc. 120 ft. over NW. slope
0.90	Spring branch, 2 lks. wide, 6 ins. deep, course SE.

## SPUR

CHAINS	
28.60	Spur, slopes West, desc. 40 ft. over SW. slope.
26.90	Spur, slopes North, desc. over W. slope.
5.00	Side spur slopes West, desc. 310 ft. over steep broken SW. slope.
18.30	Spur, slopes S. 60° E., desc. 30 ft. over broken, precipitous NE. slope.
33.55	Spur ridge, slopes S. 20° E., descend a SW. slope.
44.80	Rocky spur, slopes North, desc. 300 ft. over rolling W. slope.

## SWAMP

CHAINS	
58.80	East edge of swamp, bears North and South.
67.10	West edge of swamp, bears North and South, thence over level land.
27.30	Enter swamp, edge bears N. 80° E. and S. 80° W.
38.40	Leave swamp, edge bears N. 85° W. and S. 50° E.
	Note: Some attempt should be made to estimate size of swamp because of swamp and overflowed act. Distinguish between swamp and marsh.

## WASH

CHAINS	
12.40	Wash, 10 lks. wide, 3 ft. deep, drains SW., asc. 500 ft. over steep W. slope of mountain.
8.80	Left bank of Stinking Draw Wash, bears NNE. and SSW.
9.70	Right bank of same wash, bears NNE. and SSW.
19.50	Center of wash, 115 lks. wide, 3 ft. deep, drains S.
19.40	Wash at bottom of large draw, drains S. Begin gradual ascent.
44.77	Wash, 3 chs. wide, 10 ft. deep, drains S. 30° W.
25.40	Wash, 20 lks. wide, 1 ft. deep, drains South for 60 lks., thence S. 60° W.
24.78	Dry wash, 8 lks. wide, drains S.; desc. 57 ft. over SE. slope.

BUILDING

CHAINS	
11.35	Intersect the South side of a wood frame building, 48 x 25 ft., the SW. corner bears S. 70° W., 10 lks. dist., the long side bears N. 70° E.
3.90	Concrete telephone booth, 45 ins. sq.
77.95	The side of a wood frame barn, 40 x 25 ft., the southernmost corner bears S. 60° W., 8 lks. dist., the long side bears N. 30° W.
27.70	Intersect the side of a brick dwelling, 62 x 27 ft., the long side bears N. 15° E., the NE. corner bears N. 15° E., 22 lks. dist.

## DITCH

CHAINS	
33.40	Irrigation ditch, 4 lks. wide, 2 ft. deep, drains N. 30° E., also top of ascent, slopes North, desc. 5 ft. over NW. slope.
35.20	Old water ditch, 3 lks. wide, 1 ft. deep bears N. 25° E. and S. 25° W.
59.65	Ditch, 10 lks. wide, 1½ ft. deep, drains S. 36° W.
31.30	Drainage ditch, 15 lks. wide, 3 ft. deep, with 6 ins. of water, course West.

DIVERSION CHANNEL

CHAINS

0.60

Diversion channel of Craine Creek, 4 lks. wide, 2 ft. deep, drains North.

FENCE

CHAINS	FENCE
26.80	Barbed wire fence, bears East and West.
10.00	Barbed wire fence, 9 strand, parallels highway.
3.20	Remains of an old barbed wire fence line, bears N. 2° W. and S. 2° E.
25.10	Barbed wire drift fence, bears East and West.
14.90	Downed woven wire fence, bears North and South.
4.70	Board fence, bears North and South.
9.95	Wooden fence, bears North and South.
1.15	Woven wire fence, bears N. 75° E. and S. 75° W.
20.45	Barbed wire fence, 4 strand, 31 lks. South of fence corner with fences extending South and East.
0.10	Woven wire fence, bears irregularly N. 30° E. and South.
2.50	Corner of barbed wire fences, extending West and North, thence along fence line.

## FIELD

CHAINS	
59.70	Enter plowed field, edge bears N. 10° W. and S. 10° E.
0.20	Enter cultivated field, edge bears North and South.
76.40	Enter cultivated field, edge bears ENE. and WSW.

GRAVEL PIT

CHAINS

6.60

North end of gravel pit.

MINE SHAFT

CHAINS

1.45

Center of mine prospect shaft, 6 x 6 x 20 ft. deep.

MINE TAILINGS

CHAINS	
14.40	Edge of mine tailings, bears North and South.
15.90	Leave mine tailings, edge bears N. 10° E. and South.

PASTURE

CHAINS	
64.60	Corner of fences extending North, NE. and SW., enter a pasture, edge bears NE. and SW.
23.40	Enter open pasture, edge bears NW. and SE.

PIPELINE

CHAINS	
1.10	Trail road and underground water pipeline, bear SSE. and NNW.
15.40	Power line, 5 wires, and pipeline, 6 ins. diam., bear N. 50° E. and S. 50° W.
17.50	Underground pipeline and trail road, bear East and West.
0.90	Water line, underground, bears N. 30° W. and S. 30° E.

POND

CHAINS	
31.50	Center of tailings pond on drain, approximately 2 chs. in diameter.
48.75	East edge of pond, bears N. 40° W. and S. 30° E.
50.30	West edge of same pond, bears N. 50° E. and S. 40° E.
64.30	Enter opening at South edge of small pond, edge bears East and West.
66.30	Leave pond, edge bears East and West, through grassy opening.

## POWER LINE

CHAINS	
1.10	Three wire power transmission line, bears N. $77\frac{3}{4}^{\circ}$ W. and S. $77\frac{3}{4}^{\circ}$ E.
27.40	REA power line, bears N. $45\frac{1}{2}^{\circ}$ E. and S. $45\frac{1}{2}^{\circ}$ W.
20.90	Service power line, 2 wire, on 4 x 4 in. wooden posts, bears N. $10^{\circ}$ W. and S. $10^{\circ}$ E.

## RAILROAD

CHAINS	
11.85	Center line of railroad, bears N. 20° W. and S. 20° E.
32.10	Center line of abandoned railroad grade, 30 lks. wide, bears North and South.
56.75	Center line of old railroad grade, 25 lks. wide, bears N. 22° W. and S. 22° E.
0.80	Center line of Chicago, Burlington and Quincy Railroad, bears East and West.
Note: Name of railroad, if known should be stated.	

## ROAD

CHAINS	
14.80	Center of old mine road, 14 lks. wide, bears East and West.
2.65	Center of Chessman Reservoir road, 30 lks. wide, bears SE. and NW.
37.20	Center of Huston Mesa road, 33 lks. wide, bears S. 80° E. and N. 80° W.
2.75	Center of dirt road, 10 lks. wide, bears N. 60° E. and S. 60° W.
16.50	Center of unimproved dirt road, 12 lks. wide, bears North and South.
33.90	Center of improved dirt road, 18 lks. wide, bears N. 50° E. and S. 50° W.
55.10	Center of track road, 10 lks. wide, bears SE. and NW.
72.40	Center of rut road, 8 lks. wide, bears ENE. and WSW.
23.30	Center of jeep road, 9 lks. wide, bears N. 20° W. and S. 20° E.
15.70	Center of trail road, 10 lks. wide, bears NE. and SW.
35.10	Center of bladed road, 18 lks. wide, bears S. 80° W. and East.
46.20	Center of graded road, 21 lks. wide, bears North and South.
8.25	Center of graveled road, 30 lks. wide, bears N. 77 3/4° W. and S. 77 3/4° E.
26.30	Center of graded gravel road, 25 lks. wide, bears NE. and SW.
7.40	Center of graveled county road, 32 lks. wide, bears ENE. and WSW.

## ROAD

CHAINS	
29.60	Center line of U.S. Highway No. 77, asphalt surfaced, 40 lks. wide, bears North and South.
30.80	Center line of Utah State Highway No. 91, concrete surfaced, 42 lks. wide, bears N. 18° 15' E. and S. 18° 15' W.
9.50	East edge of U.S. Highway No. 97, asphalt surfaced, bears N. 10° E. and S. 10° W.
10.80	West edge of same highway, bears N. 10° E. and S. 10° W.
34.10	Center line of asphalt surfaced road, 48 lks. wide, bears N. 70° E. and S. 70° W.
23.30	Center line of oiled road, 42 lks. wide, bears NE. and SW.
51.80	Center line of concrete surfaced road, 50 lks. wide, bears WNW. and ESE.
21.70	Center line of North bound lanes of Interstate Route 15, concrete surfaced, 40 lks. wide, bears N. 13° 06' E. and S. 13° 06' W.
23.00	Center line of South bound lanes of Interstate Route 15, concrete surfaced, 40 lks. wide, bears N. 13° 06' E. and S. 13° 06' W.

STREET

CHAINS

4.33 Intersect the eastern right-of-way of Vigo Street, bears N. 34° 14' W., and S. 34° 14' E.

5.09 Intersect the western right-of-way of Vigo Street, the point for Corner No. 2.

TELEGRAPH LINE

CHAINS

24.10

Telegraph line, bears N. 20° W. and S. 20° E.

TELEPHONE LINE

CHAINS	
3.35	Telephone line, 7 wires, bears N. 45° E. and S. 45° W.
23.80	Telephone line, bears SE. and NW.
5.70	Telephone line, bears East and West.
17.60	Telephone line, bears N. 7° 05' W. and S. 7° 05' E. Timber, becomes widely scattered with dense sagebrush.

TRAIL

CHAINS	
72.70	Cottonwood Creek Trail, 8 lks. wide, bears East and West.
4.75	Old Bohemia Mine Trail, 10 lks. wide, bears N. 20° E. and S. 20° W.
76.50	Pack trail, 8 lks. wide, bears NW. and SE.

ASCENT

CHAINS	
20.00	Top of ascent, slopes NW., desc. 5 ft. over NE. slope.
41.70	Top of ascent, slopes East, desc. over NE. slope.
69.20	Top of ascent, slopes West, descent a NW. slope.
71.50	Base of steep ascent, bears North and South, asc. 130 ft. over E. slope.
44.00	Top of ascent on W. slope; desc. 50 ft. along W. slope.
73.00	Top of ascent, begin descent over gentle N. slope.
9.10	Top of steep ascent, bears North and South, continue gradual ascent.
17.20	Top of ascent bears East and West. Thence descend 270 ft. over steep N. slope.
24.40	Top of round hill, descend over N. slope.
18.00	Summit of small knoll, at southerly end of a ridge extending NE., descend gradual NW. slope.
56.00	End steep ascent at East edge of rounded ridge bearing North and South, continue a gradual ascent.

## DESCENT

CHAINS	
1.50	Bottom of descent, slopes East, asc. 24 ft. over NE. slope.
9.10	Bottom of descent, slopes West, continue over nearly level land.
22.20	Bottom of descent, drains South asc. 90 ft. over E. slope.
16.10	Base of descent, slopes East, asc. 160 ft. over steep rocky S. slope.
15.00	Base of descent, drains NW., asc. 40 ft. over SW. slope.
15.00	Foot of descent, continue over nearly level prairie and dense greasewood.
5.80	Foot of slope thence across valley bottom.
26.90	Base of hill, bears irregularly North and South.

TERRAIN CHANGES

CHAINS	
73.10	Slope changes to SW., desc. 355 ft. over SW. slope.
52.20	Slope changes to South, continue along broken South slope.

VEGETATION CHANGES

CHAINS	
	Ascend 365 ft. over NE. slope, through heavy timber and dense undergrowth.
	Descend 145 ft. over N. slope, through medium timber and light undergrowth.
	Descend 170 ft. over SE. slope, through light timber and moderate undergrowth, along a fence.
	Descend 290 ft. over N. slope, through scattering timber and dense undergrowth, along fence.
23.40	Enter heavy timber, edge bears NW. and SE.
36.00	Enter medium timber, edge bears N. 10° E. and S. 10° W.
14.00	Enter scattering timber, edge bears NE. and SW.
10.00	Enter widely scattering timber, edge bears NE. and W.
	Descend 55 ft. over W. slope, through scattering sagebrush and juniper.
41.00	Enter medium timber, edge bears East and West.
15.30	Leave burned area, bears N. 10° E. and S. 10° W., enter dense chaparral and scrub oak.
0.75	Ravine, drains S. 80° E., leave timber and ascend 200 ft. over broken SE. slope through dense chaparral.
	Ascend 25 ft. over rolling low lands, through heavy second growth timber and moderate undergrowth.
	Descend 5 ft. over NW. slope, through heavy young timber and dense undergrowth.
2.25	Leave fence, bears South and East, enter dense undergrowth and scattered timber, edges bear South and N. 80° W.

VEGETATION CHANGES

CHAINS	
29.00	Enter timber, edge bears North and South.
0.50	Enter dense timber, edge bears East and West.
3.00	Enter mature pine and juniper, leave young juniper.
8.20	Enter scattered spruce with alder and willow undergrowth.
7.50	Leave pine timber at the South edge of the bottom of a draw draining NW.
13.00	Re-enter pine timber and ascend a rocky S. slope.
0.40	Edge of open marsh, bears North and South.

OFFLINE TIE

CHAINS	
27.40	Stock pond, approximately 1 acre, bears East, 1.20 chs. dist.
15.00	Stock pond, 30 x 15 ft., bears North, 1.00 ch. dist. to center.
26.75	Stock water reservoir, approximately 2½ acres, bears West, 9.15 chs. dist.
32.00	Small pond, approximately 1 ch. diam., bears East, 0.60 chs. dist.
18.70	Seep spring, bears West, 11.70 chs. dist.
1.60	Edge of large boulder, 15 x 10 x 10 ft., balanced on rock outcrop, bears West, 0.25 chs. dist.
12.30	Rock cliff bears North, 0.12 chs. dist.
15.60	The W. corner of the most easterly dwelling, 52 x 28 ft., long side bears N. 40° E., of the Dome Lake Club cabin area, bears East, 0.52 chs. dist.

INTERSECTION WITH DONATION LAND CLAIM LINE

CHAINS

Intersect the West bdy. of Donation Land Claim No. 60.

From this point the SW. cor. of Claim No. 60, hereinbefore described, bears S.  $0^{\circ} 14' W.$ , 13.00 chs. dist.

Note: No closing corner set except along large grants to be determined administratively.

INTERSECTION WITH HOMESTEAD ENTRY LINE

CHAINS

42.21

Intersect the line between Cors. 1 and 8 of H.E.S. 446.

from which

Cor. No. 1 of HES 446, bears S. 64° 17' W., 2.30 chs.  
dist., monumented with a granite stone, 24 x 10 x  
8 ins. projecting 8 ins. above ground, with X  
chiseled on top.

INTERSECTION WITH MINERAL SURVEY LINE

CHAINS	
22.24	<p>Intersect line 3-4 of Mineral Survey No. 475, Transfer Lode.</p> <p>From this point cor. No. 4 of the Transfer Lode, bears S. 62° 58' W., 4.09 chs. dist., hereinafter described.</p>
25.875	<p>Intersect line 2-3 of MS 4043 Hughes Quartz Mine, at a point from which cor. No. 2 bears N. 44° 26' W., 4.50 chs. dist., described in the subsequent resurvey of Mineral Survey 4043.</p>
28.350	<p>Intersect line 3-4 of MS No. 5435, Mirabeau, identical with NW. cor. of Lot 57, at a point from which cor. No. 4 bears S. 13° 07' 00" E., 0.233 chs. dist., hereinafter described.</p>

INTERSECTION WITH SPANISH LAND GRANT LINE

CHAINS

8.75 The closing cor. of secs. 5 and 32 on the boundary of the Rancho Guejito Land Grant, monumented with a granite stone 20 x 10 x 6 ins. set 10 ins. in the ground under a fence bearing N. 42½° E. and S. 42½° W. and marked CC on the E. face.

from which

Cor. No. 9 of the Rancho Guejito bears N. 42° 15' E., approx. 45.50 chs. dist.

Cor. No. 8 of the Rancho Guejito bears S. 42° 15' W., approx. 176 chs. dist.

An oak, 25 ins. diam., bears N. 21° W., 83 lks. dist., with healed blaze.

At the corner point

Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.

Rancho T 11 S R 1 E  
 Guejito / S 32  
           / S 5 CC  
           T 12 S  
           1967

42.48 Intersect course No. 9 of the Potrero de la Cienega.

Point for the closing cor. of secs. 33 and 34.

Set an iron post, 28 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap mkd.

T 6 S  
 R 5 W  
 S 33 C  
           I  
           E  
 CC ——— N  
           E  
           G  
           A

1965

Raise a mound of stone, 3 ft. base, around post to top.

From this point, cor. No. 9 of the Potrero de la Cienega bears N. 57° 33' W., 31.24 chs. dist.

5.91 Intersect the N. bdy. of Canon de Carnue Grant.

Point for the closing corner of secs. 8 and 9.

Set an iron post, 28 ins. long, 2½ ins. diam., 27 ins. in the ground, with brass cap mkd.

T 10 N R 5 E  
 S 8 | S 9  
       C | C  
       — C.C.GT  
       1956

From this point, the 10 Mile corner, hereinafter described, bears S. 41° 21' W., 7.44 chs. dist., and meander corner 39, hereinafter described, bears N. 41° 21' E., 1.27 chs. dist.

SUMMARY, EACH MILE

CHAINS	
	<p>Land, rolling hills. Soil, rocky clay. Timber, dense juniper and scattering pinon.</p>
	<p>Land, mountainous. Soil, rocky clay. Timber, fir, pine, cedar, oak, madrone, and chinquapin. Undergrowth, manzanita, ceanothus, hazel, ocean spray, blackberry, and poison oak.</p>
	<p>Land, rolling. Soil, sandy clay. Undergrowth, sagebrush, shadscale, greasewood and grass pasture.</p>
	<p>Land, mountainous and rolling. Soil, silty loam and rocky, some granite outcroppings. Timber, pine and fir, scattered grasses.</p>
	<p>Land, rolling. Soil, gravel loam. Timber, medium pine and juniper, scattered oak. Undergrowth, dense manzanita, scattered cacti.</p>
	<p>Land, mountainous. Soil, sandy loam. Timber, scattered live oak. Undergrowth, chamiso and oak species.</p>
	<p>Land, rolling hills. Soil, rocky clay. Timber, fir, cedar, hemlock, madrone, maple, chinquapin, yew, alder and oak. Undergrowth, salal, poison oak, Oregon grape, scotch broom, arrowwood, hazel, huckleberry, vines and ferns.</p>

CORNERS

CHAINS

Every corner encountered on a resurvey must be completely described, whether remonumented or not, and even if it is already monumented with a standard iron post with brass cap and all the accessories are extant exactly as described in the official records. If it is a standard brass cap monument, the brass cap markings need not be restated. The year date that the corner was visited should be stamped on the brass cap, if the corner description was changed. The corner need only be described once in each group, although it may be encountered more than once.

At found original corners there must be a complete description of what was found, including monumentation and accessories.

When the corner is monumented with a stone, it must be fully described as to kind, size, how marked, how set, (firmly, loosely) how far projecting above ground or how far set in the ground.

When a stake is found, it must be described as to kind, size, how marked and set.

When an iron post with brass cap is found it must be described as to size of iron post, how far it projects above ground, and how marked.

The original accessories must also be described. A mound of stone, how large diameter, how high, and where placed in relation to the corner point. Exact description location, and markings of bearing objects and bearing trees found.

At all corner points there must be a complete description of what was done. Even when no monument was set that fact must be stated. When a monument is set, the new post must be described as to size and how far set in the ground. The brass cap must be correctly marked, and the marks, including the township, range, section numbers, date, horizontal and vertical bars, when used, must be correctly oriented on the brass cap.

The disposition of the found monument must be stated as to whether buried, deposited alongside or inverted inside the new monument.

Any new accessories must be fully and correctly marked in the field and stated in the notes.

A mound of stone will be described by size and relationship to the corner point.

Bearing trees and bearing objects will be listed in the proper sequence of orientation with the corner point, starting with the northeast tree and proceeding clockwise. The direction of the line being run has no effect on the proper sequence of listing the bearing trees or objects.

Bearing trees will be listed as to kind, diameter in inches, bearing from the corner point, distance in links, and markings.

When the original corner cannot be found, a statement concerning the method of reestablishment should be made, i.e., at proportionate distance, at midpoint, etc.

CORNER TIE

CHAINS

When a control corner used to compute the position of a proportioned corner is located beyond a point where any other original corner had been previously established, the following statement must be made in the field notes:

This control line was fully retraced and careful search was made for evidence of intervening corners, none of which was recovered.

After describing a found original or accepted corner, a short line, centered on the page, should be drawn on the page and immediately under this line a new bearing should be given and a new measurement begun.

Ties shall be given from a corner of the survey to all springs and water holes of importance. This is important as all subdivisions containing water sources are automatically withdrawn from entry as public water reserves.

If feasible, ties shall be made in the field to all triangulation stations, bench marks and U.S. location and mineral monuments. These ties will be recorded in the notes.

TOWNSHIP CORNER

CHAINS

39.69 The cor. of Tps. 6 and 7 S., Rs. 4 and 5 W., originally established by George Sandow in 1880, and remonumented by O. N. Sanford in 1884, monumented with a mound of stone, 3 ft. diam., 1 ft. high with a shattered slate stone in the center and a slate stone, 18 x 10 x 7 ins., marked with 6 grooves and T6S R4W on one face and 6 notches on three edges found lying alongside the mound of stone.

At the corner point in the center of the mound of stone

Set an iron post, 28 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap mkd.

T 6 S	
R 5 W	R 4 W
S 36	S 31
S 1	S 6
T 7 S	
1965	

from which

U.S.C. & G.S. Elsinore with latitude 33° 36' 08.33" and longitude 117° 20' 33.25" bears N. 15° 30' E., 29.80 chs. dist., monumented with an iron post, 2 ins. diam., projecting 8 ins. above ground with brass cap mkd., Elsinore, 1939.

A granite boulder, 8 x 8 ft., projecting 9 ft. above ground, bears N. 81° 30' W., 205 lks. dist., mkd. X BO.

Raise a mound of stone, 3 ft. base, around post to top.

41.04 The cor. of Tps. 10 and 11 N., Rs. 10 and 11 E., monumented with a granite stone, 8 x 6 x 4 ins., firmly set, 4 ins. in the ground, and plainly mkd. with 6 notches on S. edge and other edge very faintly notched, from which the remaining original bearing tree:

A juniper, 14 ins. diam., bears N. 45° E., 197½ lks. dist., mkd. T11N R11E S31 BT.

At the corner point

Set an iron post, 28 ins. long, 2½ ins. diam., 18 ins. in the ground, and in a collar of stone, with brass cap mkd.

T 11 N	
R 10 E	R 11 E
S 36	S 31
S 1	S 6
T 10 N	
1967	

from which

A pine, 16 ins. diam., bears S. 66° E., 116 lks. dist., mkd. T10N R11E S6 BT.

A pine, 10 ins. diam., bears N. 71° W., 69½ lks. dist., mkd. T11N R10E S36 BT.

Bury the original cor. stone alongside the iron post.

## TOWNSHIP CORNER

CHAINS

79.42 The cor. of Tps. 27 and 28 S., Rs. 6 and 7 W., monumented with a quartzite stone, 14 x 9 x 7 ins., firmly set, projecting 6 ins. above ground, and plainly mkd. with 6 notches on all 4 edges.

At the corner point

Set an iron post, 28 ins. long, 2½ ins. diam., 22 ins. in the ground, and in a mound of stone, 3 ft. base, to top, with brass cap mkd.

T 27 S  
R 7 W R 6 W  
S 36 | S 31  
S 1 | S 6  
T 28 S  
1969

Bury the marked stone alongside the iron post.

From the cor. of T. 21 S., Rs. 23 and 24 E., monumented with a limestone, 16 x 12 x 4 ins., loosely set in a mound of stone, marked with 6 grooves on the N., E., S. and W. faces.

At the corner point

Set an iron post, 28 ins. long, 2½ ins. diam., 22 ins. in the ground, and in a mound of stone, 4 ft. base, to top, with brass cap mkd.

T 21 S  
R 23 E R 24 E  
S 36 | S 31  
T 22 S R 23 E  
S 1  
1966

Bury the original corner stone alongside the iron post.

82.12 The cor. of Tps. 37½ and 38 N., R. 43 E., monumented with a squared wooden post, 2 x 2 x 30 ins. long, loosely set in a mound of stone, projecting 18 ins. above ground.

At the corner point

Set an iron post, 28 ins. long, 2½ ins. diam., 22 ins. in the ground, with brass cap mkd.

T 38 N  
R 43 E R 44 E  
S 36 |  
S 36 |  
T 37½ N  
1963

Reset the wooden post alongside the iron post and raise a mound of stone, 3 ft. base, 2 ft. high,

TOWNSHIP CORNER

CHAINS

1 lk. West of cor.

Cor. falls on S. slope.

52.52 The NW. cor. of T. 27 S., R. 6 W., monumented with a trachyte stone, 12 x 10 x 8 ins., firmly set, and plainly mkd. with 6 notches on the S. and E. edges.

At the corner point

Set an iron post, 28 ins. long, 2½ ins. diam., 6 ins. in the ground, to solid rock, and in a mound of stone, 6 ft. base, to top, with brass cap mkd.

T 26 S  
R 7 W  
S 36

S 6
T 27 S
R 6 W

1969

Bury the marked stone alongside the iron post.

No suitable bearing trees available.

Land, rolling and broken.  
Soil, rocky clay.  
Timber, scattered juniper and oak.  
Undergrowth, none.

From the cor. of Tps. 27 and 28 S., Rs. 6 and 7 W., previously described.

S. 89° 53' W., bet. secs. 1 and 36.

Over rolling land, through dense juniper and oak; desc. 95 ft. over gently rolling SW. slope.

## SECTION CORNER, Original

## CHAINS

79.32 The cor. of secs. 2, 3, 34 and 35, on the N. bdy. of the Tp., determined at the center of an old scattering mound of stone. This point is accepted as a careful and faithful determination of the original corner position by local survey.

At the corner point

Set an iron post, 28 ins. long,  $2\frac{1}{2}$  ins. diam., 26 ins. in the ground, with brass cap mkd.

T 54	N R 87	W
S 34	S 35	
S 3	S 2	
T 53	N	
1967		

Raise a mound of stone- 3 ft. base, 2 ft. high, 1 lk. West of the corner.

80.16 The cor. of secs. 13, 18, 19 and 24, which is monumented with a trachyte stone, 16 x 10 x 5 ins., firmly set, 9 ins. in the ground, and plainly mkd. with 3 notches on N. and 3 notches on S. edges. This cor. will now function as the cor. to secs. 18 and 19, T. 27 S., R. 6 W., only.

At the corner point

Set an iron post, 30 ins. long,  $2\frac{1}{2}$  ins. diam., 16 ins. in the ground, to solid rock, and in a mound of stone, 3 ft. base, to top, with brass cap mkd.

T 27	S
R 6	W
S 18	
S 19	
1969	

Bury the marked stone alongside the iron post.

39.025 The cor. of secs. 13, 18, 19 and 24, monumented with a granite stone, 29 x 16 x 8 ins., set in a mound of stone, no visible marks on the stone.

At the corner point

Set an iron post, 30 ins. long,  $2\frac{1}{2}$  ins. diam., 10 ins. in the ground, to underlying rock and in a supporting mound of stone, 4 ft. base to top, with brass cap mkd.

T 1	N	
R 72	W R 71	W
S 13	S 18	
S 24	S 19	
1959		

from which

A pine, 10 ins. diam., bears S.  $39\frac{3}{4}^{\circ}$  E., 33 lks. dist., mkd. T1N R71W S19 BT.

A pine, 4 ins. diam., bears N.  $58\frac{1}{2}^{\circ}$  W., 18 $\frac{1}{2}$  lks. dist., mkd. X BT.

Bury the original corner stone alongside iron post.

## SECTION CORNER

## CHAINS

39.68 The cor. of secs. 27, 28, 33 and 34, monumented with an embedded mound of stone, 2½ ft. diam., on the S. side of a granite boulder, 16 x 8 x 4 ft. (Record, 15 x 8 x 4 ft.)

At the corner point in the center of the old mound of stone.

Set an iron post, 28 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap mkd.

T 6 S R 5 W
S 28   S 27
S 33   S 34
1965

from which

A granite boulder, 9 x 7 x 6 ft. bears N. 88½° E., 92 lks. dist., mkd. X BO.

Rebuild the mound of stone, 3 ft. base, around post to top.

39.90 The cor. of secs. 1, 2, 35 and 36, monumented with a granite stone 12 x 6 x 4 ins., firmly set, projecting 5 ins. above ground and plainly mkd. with 1 notch on the E. edge and 5 notches on the W. edge, from which the original bearing trees:

A juniper, 17½ ins. diam., bears S. 30½° E., 154½ lks. dist., mkd. T10N R10E S1 BT.

An oak, 7 ins. diam., bears N. 20½° W., 104½ lks. dist., mkd. S35 BT.

At the corner point

Set an iron post, 28 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap mkd.

T 11 N R 10 E
S 35   S 36
S 2   S 1
T 10 N
1967

from which

A cedar, 10 ins. diam., bears N. 21½° E., 79 lks. dist., mkd. T11N R10E S36 BT.

A pine, 17½ ins. diam., bears N. 80¾° W., 53 lks. dist., mkd. X BT.

A pine, 12 ins. diam., bears N. 13¼° W., 124½ lks. dist., mkd. T11N R10E S35 BT.

Bury the original cor. stone alongside the iron post.

## SECTION CORNER.

## CHAINS

39.85 The cor. of secs. 1, 2, 35 and 36, monumented with a granite stone, 14 x 10 x 8 ins., plainly mkd. with 1 notch on the E. face and 5 notches on the W. edge and firmly set in a circle of stone. This cor. will now refer to the cor. of secs. 1 and 2 only.

At the corner point

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

T 17 N R 47 E  
 S 36  
 S 2 | S 1  
 T 16 N R 47 E  
 1964

Deposit marked stone alongside iron post.

77.44 The cor. of secs. 5, 6, 31 and 32, determined at the center point on a mound of earth between the original 4 pits, the outlines of which are clearly visible. This corner will now function for the cor. of secs. 5 and 6 only.

At the corner point

Set an iron post, 28 ins. long, 2½ ins. diam., 22 ins. in the ground with brass cap mkd.

T 40 N R 40 E  
 S 32  
 S 6 | S 5  
 T 39 N  
 1966

80.88 The cor. of secs. 7, 12, 13 and 18, monumented with a mound of stone. No marked stone found. This is accepted as the best available evidence of the position of the original corner.

At the corner point

Set an iron post, 28 ins. long, 2½ ins. diam., 22 ins. in the ground, with brass cap mkd.

T 13 N  
 R 64 E R 65 E  
 S 12 | S 7  
 S 13 | S 18  
 1964

Raise a mound of stone, 3½ ft. base, 2 ft. high, 1 lk. West of the cor.

41.39 The cor. of secs. 26, 27, 34 and 35, determined from the remains of the original bearing trees:

A fir, 24 ins. diam., bears N. 21° E., 64 lks. dist., with a healed blaze.

A sawed fir stump, 36 ins. diam., bears S. 11° E., 32 lks. dist., with a partially opened and burned blaze.

## SECTION CORNER

## CHAINS

A sawed fir stump, 30 ins. diam., bears S. 65° W., 50 lks. dist., with a partially opened and burned blaze. (Record, S. 45° W.)

A sawed fir stump, 45 ins. diam., bears N. 44° W., 73 lks. dist., with scribe mark T visible on opened blaze.

At the corner point

Set an iron post, 28 ins. long, 2½ ins. diam., 26 ins. in the ground, with brass cap mkd.

T 17 S R 7 W	
S 27	S 26
S 34	S 35
1963	

from which new bearing trees:

A fir, 10 ins. diam., bears N. 43° E., 24 lks. dist., mkd. T17S R7W S26 BT.

A fir, 8 ins. diam., bears S. 78° E., 28½ lks. dist., mkd. T17S R7W S35 BT.

A fir, 13 ins. diam., bears S. 51½° W., 33 lks. dist., mkd. T17S R7W S34 BT.

A fir, 9 ins. diam., bears N. 32° W., 42 lks. dist., mkd. T17S R7W S27 BT.

81.07 The cor. of secs. 1, 2; 35 and 36, on the N. bdy. of the Tp., determined from the remains of a decayed pine post, 5 x 1 x 1 ins., with no discernible markings, lying loose beneath matted surface roots, amid several scattered stones, and in the path of an old cut and blazed line bearing East and West. This position is harmoniously related to existing original corners and is accepted as the best available evidence of the original corner.

At the corner point

Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.

T 12 N R 10 E	
S 35	S 36
S 2	S 1
T 11 N	
1970	

from which

A juniper, 14 ins. diam., bears N. 51° E., 70 lks. dist., mkd. T12N R10E S36 BT.

A juniper, 8 ins. diam., bears S. 36° E., 107 lks. dist., mkd. T11N R10E S1 BT.

A pine, 5 ins. diam., bears S. 62½° W., 193 lks. dist., mkd. T11N R10E S2 BT.

## SECTION CORNER

CHAINS

A pine, 5 ins. diam., bears N.  $43\frac{1}{4}^{\circ}$  W., 107 lks.  
dist., mkd. T12N R10E S35 BT.

41.03 The cor. of secs. 13, 18, 19 and 24, on the E. bdy. of the  
Tp., perpetuated and recorded by Charles M. Collier,  
County Surveyor, in 1909, remonumented with the hub and  
16 ins. of the axle of a mowing machine, with the axle  
being inserted in the hole of a grindstone, 8 ins. diam.,  
2 ins. through, all buried 8 ins. beneath the surface of  
the ground. Collier determined the corner position from  
an original bearing tree which no longer exists.

At the corner point

Set an iron post, 30 ins. long,  $2\frac{1}{2}$  ins. diam., 24 ins. in  
the ground, with brass cap mkd.

T	25	S
R	7	W R 6 W
S	13	S 18
S	24	S 19
1969		

Deposit the axle and grindstone alongside the iron  
post.

## SECTION CORNER, Proportioned

CHAINS	
79.44	<p>Point for the cor. of secs. 1, 2, 11 and 12, at proportionate distance; no</p> <p>Set an iron post, 30 ins. long, 2½ ins. diam., 8 ins. in the ground to bedrock, supported in a mound of stone to the top, with brass cap marked</p> <p style="text-align: center;">T21S R24E  S2   S1  S11   S12  1967</p>
40.11	<p>Point for the cor. of secs. 4, 5, 32 and 33 at proportionate distance. There is no remaining evidence of the orig. cor.</p> <p>Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">T27S R7W  S32   S33  S5   S4  T28S  1969</p> <p>Set a 6 ft. steel fence post, 2 ft. in the ground, alongside iron post.</p>
81.28	<p>Point for the cor. of secs. 32 and 33, at proportionate distance, there is no remaining evidence of the original corner.</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 20 ins. in the ground with brass cap mkd.</p> <p style="text-align: center;">T6S R5W  S32   S33  1965</p>
82.28	<p>Point for the cor. of secs. 1, 2, 11 and 12, at proportionate distance, there is no remaining evidence of the original corner.</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 4 ins. in the ground to bedrock and in a mound of stone, 5 ft. base, to top, with brass cap mkd.</p> <p style="text-align: center;">T39N R40E  S 2   S 1  S 11   S 12  1966</p>

SECTION CORNER, Proportioned

CHAINS									
39.81	<p>Point for the cor. of secs. 13, 14, 23, and 24, at proportionate distance, there is no remaining evidence of the original corner.</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 22 ins. in the ground, with brass cap mkd.</p> <div style="text-align: center;"> <table border="0"> <tr><td>T 17</td><td>S R 2 W</td></tr> <tr><td>S 14</td><td>S 13</td></tr> <tr><td>S 23</td><td>S 24</td></tr> <tr><td colspan="2">1965</td></tr> </table> </div>	T 17	S R 2 W	S 14	S 13	S 23	S 24	1965	
T 17	S R 2 W								
S 14	S 13								
S 23	S 24								
1965									
80.02	<p>Point for the cor. of secs. 2, 3, 10 and 11, at proportionate distance, there is no remaining evidence of the original corner.</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.</p> <div style="text-align: center;"> <table border="0"> <tr><td>T 13</td><td>S R 11 W</td></tr> <tr><td>S 3</td><td>S 2</td></tr> <tr><td>S 10</td><td>S 11</td></tr> <tr><td colspan="2">1967</td></tr> </table> </div> <p>from which</p> <p>An alder, 17 ins. diam., bears N. 75° E., 16 lks. dist., mkd. T13S R11W S2 BT.</p> <p>A hemlock, 27 ins. diam., bears S. 10° E., 33 lks. dist., mkd. T13S R11W S11 BT.</p> <p>An alder, 12 ins. diam., bears S. 88° W., 20 lks. dist., mkd. T13S R11W S10 BT.</p> <p>An alder, 22 ins. diam., bears N. 33½° W., 54 lks. dist., mkd. T13S R11W S3 BT.</p> <p>From this point the cor. of secs. 4, 5, 8 and 9, bears N. 89° 14' W., 149.94 chs. dist., hereinbefore discribed.</p> <p>This control line was fully retraced and careful search was made for evidence of intervening corners, none of which was recovered.</p>	T 13	S R 11 W	S 3	S 2	S 10	S 11	1967	
T 13	S R 11 W								
S 3	S 2								
S 10	S 11								
1967									

¼ CORNER, ORIGINAL

CHAINS

From the ¼ sec. cor. of secs. 27 and 34, monumented with the original basalt stone, 19 x 14 x 7 ins., firmly set, 10 ins. in the ground, mkd. ¼ on the N. face, from which the original bearing trees:

A black oak, 14 ins. diam., bears N. 22° E., 41½ lks. dist., with healed blaze. (Record, 43 lks.)

A black oak, 26 ins. diam., bears S. 80° W., 23 lks. dist., with illegible scribe marks visible on partly healed and rotted blaze. (Record, 25 lks.)

At the corner point

Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.

T 36 S R 5 W  
           S 27  
    ¼ S 34  
           1968

from which new bearing trees

A fir, 15 ins. diam., bears S. 26° E., 58 lks. dist., mkd. ¼ S34 BT.

A fir, 19 ins. diam., bears N. 19° W., 26½ lks. dist., mkd. ¼ S27 BT.

Deposit original stone alongside iron post.

39.53

The ¼ sec. cor. orig. set for secs. 5 and 32, monumented with a granite stone, 15 x 8 x 6 ins., loosely set, projecting 13 ins. above ground, and plainly mkd. ¼ on N. face, from which an original bearing tree:

A pine, 15½ ins. diam., bears N. 25½° E., 100 lks. dist., illegibly scribed.

This cor. now functions as the ¼ sec. cor. of sec. 5, T. 10 N., R. 10 E. only.

At the corner point

Set an iron post, 28 ins. long, 2½ ins. diam., 6 ins. in the ground, to bedrock, and in a mound of stone, 4 ft. base, to top, with brass cap mkd.

T 11 N  
           S 5  
    ¼ S 5  
    T 10 N R 10 E  
           1967

from which

A juniper, 9 ins. diam., bears S. 9¾° E., 115 lks. dist., mkd. ¼ S5 BT.

A power pole, bears S. 67° W., 11½ lks. dist.,

Deposit the orig. cor. stone in the mound of stone alongside the iron post.

20.50

The ¼ sec. cor. of secs. 13 and 24, monumented with a decayed pine post, 12 x 3 x 3 ins., with dim scribe markings on a face, lying loose on a mound of earth.

¼ CORNER, ORIGINAL

CHAINS

At the corner point

Set an iron post, 28 ins. long, 2½ ins. diam., 22 ins. in the ground, encircled with a collar of stone, 4 ft. base to top, with brass cap mkd.

T 53 N R 87 W  
 $\frac{1}{4}$   $\frac{S 13}{S 24}$   
 1967

from which

A pine, 6 ins. diam., bears S. 6½° E., 21 lks. dist., mkd. ¼ S24 BT.

A pine, 9 ins. diam., bears N. 20° W., 37 lks. dist., mkd. ¼ S13 BT.

Bury the remains of the old pine post alongside the iron post.

40.05

The ¼ sec. cor. of secs. 31 and 36, monumented with a trachyte stone, 16 x 10 x 3 ins., firmly set, 9 ins. in the ground, and plainly mkd. ¼ on W. face.

At the corner point

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

T 27 S  
 R 7 W R 6 W  
 $\frac{1}{4}$   
 S 36 | S 31  
 1969

Bury orig. cornerstone alongside iron post.

Raise a mound of stone, 2½ ft. base, 1½ ft. high, 2 lks. W. of cor.

39.50

The ¼ sec. cor. of secs. 19 and 24, monumented with a granite stone 18 x 10 x 4 ins., loosely set in mound of stone and mkd. ¼ on the W. face.

At the corner point

Set an iron post. 30 ins. long, 2½ ins. diam., 29 ins. in the ground, with brass cap mkd.

T 1 N  
 R 72 W R 71 W  
 $\frac{1}{4}$   
 S 24 | S 19  
 1959

from which

A fir, 10 ins. diam., bears S. 62¾° E., 12½ lks. dist., mkd. ¼ S19 BT.

A pine, 24 ins. diam., bears S. 52¾° W., 45 lks. dist., mkd. ¼ S24 BT.

A fir, 26 ins. diam., bears N. 21° W., 59½ lks. dist., mkd. ¼ S24 BT.

Deposit the marked stone alongside the iron post.

¼ CORNER, ORIGINAL

CHAINS

38.71 The ¼ sec. cor. of secs. 26 and 27, monumented with a limestone, 12 x 12 x 4 ins., firmly set, projecting 5 ins. above ground, dimly mkd. ¼ on the W. face.

At the corner point

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

T 21 S R 24 E

¼  
S 27 | S 26  
1967

Deposit the original cornerstone alongside the iron post, in the supporting mound.

1/4 CORNER, Proportioned

CHAINS

- 41.22 Point for the 1/4 sec. cor. of secs. 5 and 32, at proportionate distance and in an old fence, bearing N. 10° 10' E. and S. 10° W., there is no remaining evidence of the original corner.
- Set an iron post, 30 ins. long, 2 1/2 ins. diam., 24 ins. in the ground and in a collar of stone, with brass cap mkd.
- T44N R27E  
1/4 S 32  
S 5  
T43N  
1962
- 40.64 Point for the 1/4 sec. cor. of sec. 31, at proportionate distance, there is no remaining evidence of the original corner.
- Set an iron post, 28 ins. long, 2 1/2 ins. diam., 22 ins. in the ground, with brass cap mkd.
- T6S R5W  
1/4 S31  
1965
- Raise a mound of stone, 3 ft. base, around post to top.
- 39.985 Point for the 1/4 sec. cor. of secs. 13 and 18, at proportionate distance, there is no remaining evidence of the original corner.
- Set an iron post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.
- T 17 S  
1/4  
R 2 W | R 1 W  
S 13 | S 18  
1965

½ CORNER, Proportioned

CHAINS	
41.05	<p>Point for the ½ sec. cor. of secs. 1 and 12, at proportionate distance, no evidence of the original corner could be found.</p> <p>Set an iron post, 30 ins. long, 2½ ins. diam., 6 ins. in the ground to bedrock, and in a mound of stone, 4 ft. base, to top, with brass cap mkd.</p> <p style="text-align: center;">T21S R24E ½ <math>\frac{S1}{S12}</math> 1967</p>
40.47	<p>Point for the ½ sec. cor. of secs. 2 and 35 at proportionate distance. There is no remaining evidence of the orig. cor.</p> <p>Set an iron post, 30 ins. long, 2½ ins. diam., 24 ins. in the ground and in a collar of stone, with brass cap mkd.</p> <p style="text-align: center;">T27S R7W ½ <math>\frac{S35}{S2}</math> T28S R7W 1969</p>
40.02	<p>Point for the ½ sec. cor. of secs. 14 and 23, at proportionate dist.; there is no remaining evidence of the original corner.</p>
32.82	<p>Point for the ½ sec. cor. of secs. 12 and 13, at proportionate distance between the original lines trees to the East and West, there is no remaining evidence of the original corner.</p>

CORNER,  
DONATION LAND CLAIM

CHAINS

0.54

Point for the NW. cor. of Donation Land Claim No. 37, at proportionate distance, there is no remaining evidence of the original corner.

Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, with the brass cap mkd.

T 17 S R 2 W

S 14 | S 13  
C 37

1965

from which

A fir, 16 ins. diam., bears N. 46½° E., 11 lks. dist., mkd. T17S R2W S13 BT.

A fir, 6 ins. diam., bears S. 32½° E., 36 lks. dist., mkd. C37 BT.

A cedar, 8 ins. diam., bears N. 75½° W., 20½ lks. dist., mkd. T17S R2W S14 BT.

4.535

Point for the exterior cor. on the N. bdy. of Claim No. 37, determined by the method of broken boundaries, there is no remaining evidence of the original corner.

Set an iron post, 28 ins. long, 2½ ins. diam., 18 ins. in the ground, to solid rock, and in a mound of stone, 3 ft. base, to top, with brass cap mkd.

T 17 S R 2 W

S 13  
C 37

1965

from which

A cedar, 24 ins. diam., bears S. 85½° E., 41 lks. dist., mkd. C37 BT.

15.415

The interior cor. on the N. bdy. of Claim No. 37, determined from the remaining original bearing tree:

A maple, 55 ins. diam., bears N. 83° E., 35 lks. dist., with scribe marks 3 2 visible on negative on overgrowth.

At the corner point

Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.

T 17 S R 2 W

S 13 |  
C 37

1965

From the NW. cor. of Donation Land Claim No. 60, on the S. bdy. of Claim No. 40, monumented with a basalt stone, 10 x 8 x 8 ins., firmly set, 2 ins. in the ground, marked X on top, from which the remaining original bearing tree:

A sawed fir stump, 30 ins. diam., bears S. 68½° E., 22 lks. dist., with scribe marks BT visible on an open blaze.

CORNER,  
DONATION LAND CLAIM

CHAINS

At the corner point

Set an iron post, 28 ins. long,  $2\frac{1}{2}$  ins. diam., 24 ins. in the ground, with brass cap mkd.

T 17 S R 2 W  
C 40  
S 13 C 60  
1965

from which

A fir, 10 ins. diam., bears S.  $48\frac{1}{2}^{\circ}$  E.,  $39\frac{1}{2}$  lks. dist., mkd. C60 BT.

A fir, 15 ins. diam., bears S.  $53^{\circ}$  W., 57 lks. dist., mkd. T17S R2W S13 BT.

A fir, 6 ins. diam., bears N.  $47\frac{1}{2}^{\circ}$  W.,  $43\frac{1}{2}$  lks. dist., mkd. C40 BT.

Deposit the corner stone alongside the iron post.

CORNER,  
HOMESTEAD ENTRY

CHAINS

40.01

The cor. originally set for secs. 5, 6, 31 and 32, identical with cor. No. 1 of H.E.S. 576, monumented by a granite stone, 20 x 12 x 8 ins., firmly set, and plainly mkd. with 5 notches on E. edge and 1 notch on W. edge, with + on top. This cor. now functions as the cor. of secs. 5 and 6, T. 10 N., R. 10 E., only, and cor. No. 1 of H.E.S. 576, from which the original bearing trees:

A cedar, 19 ins. diam., bears S. 19° E., 309 lks. dist., mkd. 10 N 10 E S 5 BT.

A dead cedar, 12½ ins. diam., bears S. 6½° W., 201 lks. dist., mkd. T10N R10E S6 BT.

At the corner point

Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.

T 11 N  
HES 576  
Cor 1 S 32  
S 6 | S 5  
T 10 N R 10 E  
1967

From this point, cor. No. 1, H.E.S. 123, bears S. 64° 22' E., 2.07 chs. dist., monumented with a Forest Service iron post, 2½ ins. diam., firmly set, projecting 2 ins. above ground, with brass cap mkd.

T 11 N R 10 E  
HES 123  
1  
S 27  
LS 6713  
1967

CORNER,  
INDIAN RESERVATION

CHAINS											
25.59	<p>Point for the 3 Mile Post, at proportionate distance; there is no remaining evidence of the original corner.</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.</p> <div style="text-align: center;"> <table border="0"> <tr> <td>T 7 S</td> <td>R 14 E</td> </tr> <tr> <td colspan="2"><hr style="width: 50px; margin: 0 auto;"/></td> </tr> <tr> <td colspan="2" style="text-align: center;">S 6</td> </tr> <tr> <td colspan="2" style="text-align: center;">WSIR 3 M</td> </tr> <tr> <td colspan="2" style="text-align: center;">1964</td> </tr> </table> </div> <p>from which</p> <p>A juniper, 15 ins. diam., bears S. 58¼° E., 63 lks. dist., mkd. 3M WSIR BT.</p> <p>A juniper, 8 ins. diam., bears N. 53¾° W., 45 lks. dist., mkd. 3M WSIR BT.</p>	T 7 S	R 14 E	<hr style="width: 50px; margin: 0 auto;"/>		S 6		WSIR 3 M		1964	
T 7 S	R 14 E										
<hr style="width: 50px; margin: 0 auto;"/>											
S 6											
WSIR 3 M											
1964											
7.68	<p>Point for angle point No. 4, at proportionate distance, on a small level area on ridge top, there is no remaining evidence of the original corner.</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 3 ins. in the ground, to bedrock, supported in a mound of stone, 6 ft. base, to top, with brass cap mkd.</p> <div style="text-align: center;"> <table border="0"> <tr> <td>T 6 S</td> <td rowspan="3" style="border-left: 1px solid black; padding-left: 5px;">AP 4</td> </tr> <tr> <td>S 32</td> </tr> <tr> <td>R 14 E</td> </tr> <tr> <td colspan="2" style="text-align: center;">WSIR</td> </tr> <tr> <td colspan="2" style="text-align: center;">1964</td> </tr> </table> </div> <p>from which</p> <p>A fir, 30 ins. diam., bears N. 71¾° E., 165 lks. dist., mkd. AP4 WSIR BT.</p> <p>A fir, 18 ins. diam., bears S. 73¼° W., 112 lks. dist., mkd. AP4 WSIR BT.</p>	T 6 S	AP 4	S 32	R 14 E	WSIR		1964			
T 6 S	AP 4										
S 32											
R 14 E											
WSIR											
1964											
52.66	<p>The 4 Mile Post and angle point No. 10, on the N. bdy. of the Warm Springs Indian Reservation, monumented with a basalt stone, 21 x 10 x 2 ins., firmly set 6 ins. in the ground, and in a mound of stone, 3 ft. base, 1 ft. high, mkd. 4M on E. and IR on W. faces, from which the bearing trees mkd. by Rumsey in 1882:</p> <p>An oak snag, 12 ins. diam., bears N. 11° E., 30 lks. dist., mkd. with healed blaze. (Record, N. 25° E., 35 lks.)</p> <p>An oak snag, 19 ins. diam., bears N. 42¼° W., 179 lks. dist., mkd. with healed blaze. (Record, 176 lks.)</p> <p>At the corner point</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, and in a mound of stone, 3 ft. base, to top, with brass cap mkd.</p> <div style="text-align: center;"> <table border="0"> <tr> <td>AP 10</td> <td>T 5 S</td> </tr> <tr> <td>WSIR</td> <td>R 14 E</td> </tr> <tr> <td>4 M</td> <td>S 6</td> </tr> <tr> <td colspan="2" style="text-align: center;">1964</td> </tr> </table> </div>	AP 10	T 5 S	WSIR	R 14 E	4 M	S 6	1964			
AP 10	T 5 S										
WSIR	R 14 E										
4 M	S 6										
1964											

CORNER,  
INDIAN RESERVATION

CHAINS

From which new bearing trees

An oak, 20 ins. diam., bears N. 52° E., 62 lks.  
dist., mkd. 4M AP10 WSIR BT.

A juniper, 8 ins. diam., bears S. 15° E., 32 lks.  
dist., mkd. 4M AP10 WSIR BT.

Deposit the marked stone alongside the iron post.

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CORNER,  
MINERAL SURVEY

CHAINS

Beginning at cor. No. 1 of the M.S. No. 5416, Tiger Mine lode, identical with cor. No. 1 of the Buffalo Quartz Claim lode of the same survey, monumented with an iron pipe, 2 ins. diam., projecting 24 ins. above ground in the center of an embedded mound of stone, 2½ ft. diam., 18 ins. high. This corner is harmoniously related to existing original corners, to the record topography and is accepted as the best evidence of the original corner.

At the corner point

Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.

M S - 5416  
T  
1  
1 B  
1964

Deposit iron pipe alongside iron post.

CORNER,  
NATIONAL PARK

CHAINS

1.85

Intersect the western right-of-way of Main Street; the point for Corner No. 26, determined at the intersection of right-of-ways.

Set a regulation brass tablet,  $3\frac{1}{2}$  ins. in diam., 3 in. stem, seated in the concrete surface of the street, with brass tablet mkd.

GRC  
NHP  
COR 26  
1969

65.70

Intersect the S. bdy. of the Miller Redwood Company exclusion.

Point for angle point 1-S.

Set an iron post, 30 ins. long,  $2\frac{1}{2}$  ins. diam., 24 ins. in the ground, with brass cap mkd.

T 15 N R 1 W  
MR  
C  
RNP  
AP 1-S  
S 1  
C  
1969

CORNER,  
SPANISH LAND GRANT

CHAINS

27.25 Meander corner 20, monumented with an old mound of stone at corner of fences bearing NE. and WNW. Thomas Gonzales, President of Canon de Carnue Grant Association and local resident for over 60 years, stated there has always been a marked stone at this mound until recently, from which the original bearing tree:

A cedar, 8 ins. diam., bears N. 42° W., 13 lks. dist., with healed blaze.

At the corner point

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

C.C GT  
MC 20  
T 10 N R 5 E  
S 22  
1956

16.65 The 8 Mile Corner, monumented with a red granite stone, 20 x 14 x 14 ins., firmly set, 10 ins. in the ground, mkd. CC GT 8M on N.

At the corner point

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

C.C. GT  
8M  
T 10 N R 5 E  
S 30  
1956

Raise a mound of stone, 3 ft. base, 2 ft. high, 1 lk. N. of corner.

Deposit marked stone alongside iron post.

37.87 Point for cor. No. 3 of the Potrero at proportionate distance, there is no remaining evidence of the original corner.

Set an iron post, 28 ins. long, 2½ ins. diam., 22 ins. in the ground, with brass cap mkd.

C I E N E G A  
3  
1965

from which

A granite boulder, 8 x 4 ft., 4 ft. high, bears S. 53° 05' E., 103 lks. dist., mkd. X B0.

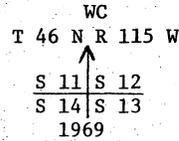
1/16 CORNER

CHAINS	
20.215	<p>Point for the S 1/16 sec. cor. of secs. 25 and 36.</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 26 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">S 1/16</p> <p style="text-align: center;">S26 S25 1965</p> <p>from which</p> <p style="padding-left: 40px;">A digger pine, 10 ins. diam., bears N. 6°40' W., 197 lks. dist., mkd. S1/16 S26 BT.</p>
18.597	<p>Point for the W. 1/16 sec. corner of secs. 20 and 29.</p> <p>Set an iron post, 30 ins. long, 2½ ins. in diam., 24 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">S 20</p> <p style="text-align: center;">W 1/16 —————</p> <p style="text-align: center;">S 29 1959</p> <p>from which</p> <p style="padding-left: 40px;">A pine, 12 ins. in diam., bears N. 8° E., 90 lks. dist., mkd. W 1/16 S20 BT.</p>
28.41	<p>Point for the S 1/16 sec. cor. of sec. 13 only, on the E. bdy. of T. 6 S., R. 13 E.</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">S 1/16   S 13   1964</p> <p style="padding-left: 40px;">Raise a mound of stone, 3 ft. base, 2 ft. high, West of cor.</p>

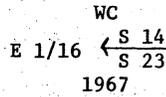
WITNESS CORNER

CHAINS

73.40 Point for the witness corner of secs. 11, 12, 13 and 14.  
Set an iron post, 30 ins. long, 2½ ins. diam., 25 ins. in the ground, with brass cap mkd.



19.63 Point selected for the witness E 1/16 sec. cor. of secs. 14 and 23.  
Set an iron post, 28 ins. long, 2½ ins. diam., 22 ins. in the ground, encircled with a collar of stone, 5 ft. base, to top, with brass cap mkd.



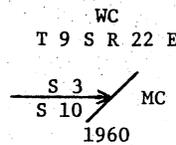
from which

A fir, 16 ins. diam., bears S. 32° W., 49 lks. dist., mkd. X BT.

A fir, 24 ins. diam., bears N. 30° W., 60 lks. dist., mkd. X BT.

19.73 True point for the E 1/16 sec. cor. of secs. 14 and 23, falls in the easterly channel of the West Fork Big Goose Creek, 10 lks. wide, 1 ft. deep, course North. Point unsuitable for monumentation.

51.10 Point for the witness meander cor. of secs. 3 and 10.  
Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.



Deposit a white granite stone, 7 x 5 x 3 ins., mkd. X alongside the iron post.

51.30 True point for the meander cor. of secs. 3 and 10, on the right bank of the Colorado River, bears NE. and SW.

Cor. point falls on vertical bank, not suitable for a permanent monument.

WITNESS CORNER

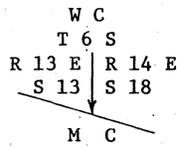
CHAINS	
41.37	<p>True point for the <math>\frac{1}{4}</math> sec. cor. of secs. 33 and 34, at proportionate distance, no evidence of the original corner could be found. The corner point falls near left bank of wash and is impossible to perpetuate.</p>
41.97	<p>Point for the witness <math>\frac{1}{4}</math> sec. cor. of secs. 33 and 34.</p> <p>Set an iron post, 30 ins. long, <math>2\frac{1}{2}</math> ins. diam., 20 ins. in the ground to bedrock, supported in a mound of stone, 2 ft. base, to top, with brass cap mkd.</p> <div style="text-align: center;"> <p>W C</p> <p>T21S      R24E</p> <p><math>\frac{1}{4}</math></p> <p>S33      ↓      S34</p> <p>1967</p> </div>
35.36	<p>Point for the witness <math>\frac{1}{4}</math> sec. cor. of secs. 21 and 28.</p> <p>Set an iron post, 30 ins. long, <math>2\frac{1}{2}</math> ins. diam., 18 ins. in the ground, supported in a mound of stone, 3 ft. base, to top, with brass cap mkd.</p> <div style="text-align: center;"> <p>WC</p> <p>T21S      R24E</p> <p><math>\frac{1}{4}</math> ← <math>\frac{S21}{S28}</math></p> <p>1967</p> </div>
36.20	<p>Right bank of Rocky Arroyo, bears ENE. and WSW. Continue along bottom of Rocky Arroyo.</p>
39.96	<p>True point for the <math>\frac{1}{4}</math> sec. cor. of secs. 21 and 28, at proportionate distance, no evidence of the original cor. could be found. The corner point falls near the center of Rocky Arroyo, course ENE.</p>
46.70	<p>Left bank of Rocky Arroyo, bears ENE. and WSW. Enter dense growth of willow and salt cedar.</p>

WITNESS CORNER

CHAINS

- 11.15 Left bank of the Deschutes River, bears NW. and SE., course NW. Thence across river.
- 13.495 Point for the meander cor. of secs. 13 and 18, on right bank of the Deschutes River, at proportionate distance, there is no remaining evidence of the original corner. This point falls in the river, where it is impracticable to establish a permanent monument.
- 15.20 Right bank of Deschutes River, bears N. 55° W. and S. 55° E., asc. 5 ft. over S. slope.
- 15.395 Point for the witness meander cor. of secs. 13 and 18, on right bank.

Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.



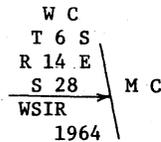
1964

from which

A power pole, 10 ins. diam., No. G147, bears N. 53½° E., 45 lks. dist.

- 97.11 Point for the witness meander corner on the left bank of the Deschutes River.

Set an iron post, 28 ins. long, 2½ ins. diam., 21 ins. in the ground, with brass cap mkd.



1964

CLOSING CORNER

CHAINS

46.67 Intersect the Sixth Standard Parallel North.  
 The closing cor. of secs. 1 and 2, monumented with a granite stone, 16 x 12 x 5 ins., plainly mkd. with 1 groove on the E. face, 5 grooves on the W. face, CC on the S. face and firmly set in the ground with a mound of earth, S. of cor.

At the corner point

Set an iron post, 28 ins. long, 2½ ins. diam., 22 ins. in the ground, with brass cap mkd.

T 31 N R 45 E  
 S 35  
 S 2 | S 1  
 T 30 N R 45 E  
 C C  
 1967

Bury the original cornerstone and set a steel fence post, 6 ft. long, 2 ft. in the ground, alongside the iron post.

From this corner the standard ¼ sec. cor. of sec. 35, bears S. 89° 50' W., 9.40 chs. dist., herein before described.

Land, gently rolling.

Soil, sandy clay loam.

Undergrowth, shadscale, budsage, greasewood, and sagebrush.

59.89 The orig. closing cor. of secs. 2 and 3, monumented with a granite stone, 18 x 14 x 12 ins., mkd. CC on the N. face, 2 grooves on the E. face and 4 grooves on the W. face, firmly set in a mound of stone. I add the marks AM and bury the stone 6 ins. below the surface of the ground.

60.25 Point for the closing cor. of secs. 2 and 3, at intersection with the Mount Diablo Base Line.

Set an iron post, 28 ins. long, 2½ ins. diam., 22 ins. in the ground, with brass cap mkd.

T 1 N R 65 E  
 S 34  
 S 3 | S 2  
 T 1 S R 65 E  
 C C  
 1970

Raise a mound of stone, 3 ft. base, 2 ft. high, 1 lk. South of corner.

From this corner, the standard ¼ sec. cor. of sec. 34, T. 1 N., R. 65 E., monumented with an iron post, 2½ ins. diam., set, mkd. and witnessed as described in the field notes of the resurvey of the Mount Diablo Base Line, through Range 65 East, executed concurrently under this same group,,bears S. 87° 54' E., 14.91 chs. dist.

Land, mountainous.

Soil, rock and clay.

Undergrowth, budsage and shadscale.

CLOSING CORNER

CHAINS	
15.68	<p>Point for the closing cor. of T. 1 S., Rs. 65 and 66 E. at intersection with the Mount Diablo Base Line.</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 22 ins. in the ground, with brass cap mkd.</p> $\begin{array}{r} T\ 1\ N\ R\ 65\ E \\ S\ 36 \\ \hline S\ 1\  S\ 6 \\ R\ 65\ E\  R\ 66\ E \\ T\ 1\ S \\ C\ C \\ 1970 \end{array}$ <p>Raise a mound of stone, 3 ft. base, 2 ft. high, 1 lk. South of corner.</p> <p>From this corner, the original closing cor., monumented with a limestone, 16 x 12 x 6 ins., mkd. CC on the N. face and 6 grooves on the S., E., and W. faces, firmly set, 12 ins. in the ground, bears N. 0° 28' W., 3.70 chs. dist.; I add the marks AM and bury the stone 6 ins. below the surface of the ground.</p> <p>From this same corner, the standard ¼ sec. cor. of sec. 36, T. 1 N., R. 65 E., monumented with an iron post, 2½ ins. diam., set, mkd. and witnessed as described in the field notes of the resurvey of the Mount Diablo Base Line, through Range 65 East, executed concurrently under this same group, bears S. 88° 20' E., 12.01 chs. dist.</p> <p>Land, rolling hills. Soil, rock and clay. Timber, none; Undergrowth, budsage, shadscale and sagebrush.</p>
37.81	<p>The closing cor. of T. 27 S., Rs. 7 and 8 W., monumented with an iron post, 3 ins. diam., firmly set, projecting 6 ins. above the ground, with brass cap mkd.</p> $\begin{array}{r} T\ 26\ S\ R\ 8\ W \\ S\ 36 \\ \hline C\ C \\ R\ 8\ W\  R\ 7\ W \\ S\ 1\  S\ 6 \\ T\ 27\ S \\ 1916 \end{array}$
1.76	<p>The closing cor. of T. 1 S., Rs. 53 and 54 E., monumented with a lava stone, 18 x 8 x 4 ins., plainly mkd. CC on the S. face and firmly set in a mound of stone.</p> <p>At the corner point</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 6 ins. in the ground, to bedrock and in a mound of stone, 4 ft. base, to top, with brass cap mkd.</p> $\begin{array}{r} T\ 1\ N\ R\ 53\ E \\ S\ 36 \\ \hline S\ 1\  S\ 6 \\ C\ C \\ T\ 1\ S \\ R\ 53\ E\  R\ 54\ E \\ 1966 \end{array}$

CLOSING CORNER

CHAINS

Bury the orig. stone alongside the iron post.

82.52 Intersect the E. bdy. of sec. 12, T. 11 N., R. 56 E.

Point for the closing cor. of secs. 6 and 7, T. 11 N., R. 57 E.

Set an iron post, 28 ins. long, 2½ ins. diam., 22 ins. in the ground, with brass cap mkd.

T 11 N  
R 56 E R 57 E  
S 12 | S 6 C  
      | S 7 C  
1965

Raise a mound of stone, 3 ft. base, 2 ft. high, 1 lk. E. of cor.

From this corner, the cor. of secs. 1 and 12, T. 11 N., R. 56 E., bears N. 0° 25' E., 3.66 chs. dist.

From this same corner, the ¼ sec. cor. of sec. 12, T. 11 N., R. 56 E., bears S. 0° 25' W., 36.69 chs. dist.

Land, level.

Soil, sandy clay.

Undergrowth, sagebrush and greasewood.

81.23 Intersect the S. bdy. of sec. 33, T. 26 S., R. 7 W.

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

Set an iron post, 28 ins. long, 2½ ins. diam., 6 ins. in the ground, to solid rock, and in a mound of stone, 4 ft. base, to top, with brass cap mkd.

T 26 S R 7 W  
      S 33  
      S 4 | S 3  
      C | C  
T 27 S R 7 W  
1969

No suitable bearing trees available.

From this closing cor., the cor. of secs. 33 and 34, T. 26 S., R. 7 W., bears N. 89° 50' E., 0.60 chs. dist.

Land, steep mountain land.

Soil, rocky clay.

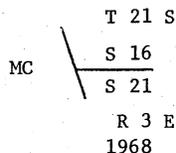
Timber, dense mahogany; undergrowth, none.

MEANDER CORNER

CHAINS  
34.81

Point for the new meander cor. of secs. 16 and 21, on the right bank of the Middle Fork of the Willamette River; there is no remaining evidence of the original corner.

Set an iron post, 28 ins. long, 2½ ins. diam., 21 ins. in the ground, with brass cap mkd.



from which

A maple, 23 ins. diam., bears N. 46° E., 39 lks. dist., mkd. T21S R3E S16 MC BT.

A cedar, 21 ins. diam., bears S. 30° E., 53 lks. dist., mkd. T21S R3E S21 MC BT.

Descend 6 ft. over SW. slope.

35.00

Waters edge, right bank of the Middle Fork of the Willamette River, course N. 51° W.

39.26

Point for the ¼ sec. cor. of secs. 16 and 21, at mid-point longitudinally, falls in the Middle Fork of the Willamette River where it is impractical to establish a permanent monument.

42.00

Waters edge, left bank of the Middle Fork of the Willamette River.

42.53

The 1897 Oscar Thiel meander cor. of secs. 16 and 21, on the left bank of the Middle Fork of the Willamette River, perpetuated and recorded by Malcolm N. Clark, Registered Land Surveyor No. 601, in 1964, monumented with an iron pipe, 1 in. diam., firmly set, protruding 6 ins. above the ground, from which the remaining original bearing tree:

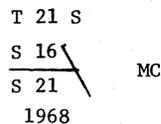
A sawed fir stump, 23 ins. diam., bears S. 43° E., 8 lks. dist., with scribe marks BT visible on open blaze;

and a bearing tree mkd. by Clark

A fir, 19 ins. diam., bears S. 46° W., 17 lks. dist., mkd. CS BT.

At the corner point

Set an iron post, 28 ins. long, 2½ ins. diam., 21 ins. in the ground, with brass cap mkd.



from which a new bearing tree

A fir, 13 ins. diam., bears S. 85° W., 76 lks. dist., mkd. T21S R3E S21 BT.

MEANDER CORNER

CHAINS	
29.00	<p>Point for the original meander cor. of secs. 3 and 4, at record distance. There is no evidence of the original corner.</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 46 ins. in the ground, with brass cap mkd.</p> <div style="text-align: center;"> <p>T 9 S R 22 E</p> <p>S4 S3</p>  <p>MC</p> <p>1960</p> </div> <p>from which</p> <p>A power pole, #439948, bears S. 5° W., 11.68 chs. dist.</p> <p>USC &amp; GS Triangulation Station Palo Verde Peak, bears S. 46° 41' W., about 10 miles dist.</p>
39.91	<p>Point for the orig. meander cor. of secs. 3 and 10, at proportionate dist.; there is no remaining evidence of the orig. cor. Point not monumented.</p>

CIRCULAR CURVE BOUNDARY

CHAINS

Thence N. 5° 50' W.

Along the easterly right-of-way of U. S. Highway 101, over nearly level land.

11.40 Lost Man Creek, 30 lks. wide, course West.

11.99 Point for angle point JJ-3, and beginning of curve.

Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.

T 11 N      R N P  
R 1 E      AP JJ-3  
S 23

1970

Thence along the arc of a circular curve to the left having a radius of 550 ft.; the chord of said arc bears N. 18° 39' W., 3.6971 chs. dist.

3.7285 Point for angle point JJ-4 and end of curve.

Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.

T 11 N      R N P  
R 1 E      AP JJ-4  
S 23

1970

Thence N. 31° 28' W.

## CORNER TIE

CHAINS																												
76.36	<p>Point for the cor. of secs. 15, 16, 21 and 22, at proportionate distance, there is no remaining evidence of the original corner.</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.</p> <table border="0" style="margin-left: auto; margin-right: auto;"> <tr><td>T 6</td><td>S R 14</td><td>E</td></tr> <tr><td>S 16</td><td>S 15</td><td></td></tr> <tr><td>S 21</td><td>S 22</td><td></td></tr> <tr><td colspan="3" style="text-align: center;">1964</td></tr> </table> <p>from which</p> <p>A juniper, 9 ins. diam., bears N. 45½° E., 85 lks. dist., mkd. T6S R14E S15 BT.</p> <p>A juniper, 15 ins. diam., bears S. 13½° E., 105 lks. dist., mkd. T6S R14E S22 BT.</p> <p>A juniper, 15 ins. diam., bears S. 57° W., 260 lks. dist., mkd. T6S R14E S21 BT.</p> <p>A juniper, 8 ins. diam., bears N. 15½° W., 102 lks. dist., mkd. T6S R14E S16 BT.</p> <p>From this point the cor. of secs. 13, 18, 19 and 24, on the E. bdy. of the Tp., bears N. 88° E., 240.01 chs. dist., monumented with a basalt stone, 18 x 14 x 10 ins., mkd. T6S R15E on E., with 3 grooves on S. face, found in a rock crib at the cor. of wire fences which bears North, East and West from this point.</p> <p>At the corner point</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.</p> <table border="0" style="margin-left: auto; margin-right: auto;"> <tr><td>T 6</td><td>S</td><td></td></tr> <tr><td>R 14</td><td>E</td><td>R 15</td></tr> <tr><td>S 13</td><td>S 18</td><td></td></tr> <tr><td>S 24</td><td>S 19</td><td></td></tr> <tr><td colspan="3" style="text-align: center;">1964</td></tr> </table> <p>Raise a mound of stone, 2½ ft. base, 1½ ft. high, 1 lk. West of the corner.</p> <p>This control line was fully retraced and careful search was made for evidence of intervening corners, none of which was recovered.</p> <p>From this point the ¼ sec. cor. of secs. 19 and 24, on the E. bdy. of the Tp., heretofore described, bears S. 0° 29' E., 40.26 chs. dist.</p> <p>Land, mountainous. Soil, rocky clay loam. Timber, juniper and hackberry. Undergrowth, sagebrush, rabbit brush, greasewood, bitterbrush, willow, weeds, and grasses.</p>	T 6	S R 14	E	S 16	S 15		S 21	S 22		1964			T 6	S		R 14	E	R 15	S 13	S 18		S 24	S 19		1964		
T 6	S R 14	E																										
S 16	S 15																											
S 21	S 22																											
1964																												
T 6	S																											
R 14	E	R 15																										
S 13	S 18																											
S 24	S 19																											
1964																												
76.54	<p>Point for the cor. of secs. 21, 22, 27 and 28, at proportionate distance, there is no remaining evidence of the original corner.</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 22 ins. in the ground, and in a mound of stone, 2½ ft. base, to top, with brass cap mkd.</p>																											

## CORNER TIE

CHAINS

T 6 S R 14 E  
 S 21 | S 22  
 S 28 | S 27  
 1964

Raise a mound of stone, 4 ft. base, 2½ ft. high,  
 1 lks. West of corner.

From this point the cor. of secs. 19, 24, 25 and 30, on  
 the E. bdy. of the Tp., bears N. 89° 15' E., 241.64 chs.  
 dist., monumented with a mound of stone, 4½ ft. base,  
 1 ft. high, nearly buried in the ground.

At the corner point

Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in  
 the ground, with brass cap mkd.

T 6 S  
 R 14 E | R 15 E  
 S 24 | S 19  
 S 25 | S 30  
 1964

from which

A juniper, 15 ins. diam., bears S. 80½° E., 340 lks.  
 dist., mkd. T6S R15E S30 BT.

Raise a mound of stone, 4 ft. base, 2½ ft. high,  
 West of corner.

The corner is located 112 lks. E. of the center of U.S.  
 Highway No. 197, which bears N. 10° W. and S. 10° E.

This control line was fully retraced and careful search  
 was made for evidence of intervening corners, none of  
 which was recovered.

From this point, the ¼ sec. cor. of secs. 19 and 24, on  
 the E. bdy. of the Tp., bears N. 0° 13' E., 40.26 chs.  
 dist., monumented with a mound of stone, 4 ft. base, 2 ft.  
 high. This corner was not remonumented.

Land, mountainous.

Soil, rocky clay loam.

Timber, juniper, hackberry, and alder;

Undergrowth, sagebrush, rabbit brush, greasewood, bitter-  
 brush, weeds, willow and grasses.

## BEARING TREE

CHAINS

## The original bearing trees:

A pine, 7 ins. diam., bears N.  $38\frac{1}{2}^{\circ}$  E., 81 lks.  
dist., mkd. CC SC T9N R5W S33 BT. (Record:  
N.  $39^{\circ}$  E., 80 lks.)

A pine, 6 ins. diam., bears N.  $46\frac{3}{4}^{\circ}$  E., 53 lks.  
dist., mkd. CC SC T9N R5W S33 BT. (Record;  
N.  $47\frac{1}{2}^{\circ}$  E., 52 lks.)

## from which the original bearing trees:

A pinon, 14 ins. diam., bears N.  $33^{\circ}$  E., 55 lks.  
dist., partly grown over with scribe marks MC  
30 BT visible.

A cedar, 12 ins. diam., bears S.  $71^{\circ}$  E., 16 lks.  
dist., with scribe marks MC 31 BT visible on open  
face.

## from which the remaining original bearing tree

A cedar, 10 ins. diam., bears N.  $47\frac{1}{2}^{\circ}$  W., 31 lks.  
dist., with old blaze and illegible scribe marks  
visible on burned blaze.

## from which the original bearing trees:

A live oak, 26 ins. diam., bears S.  $7\frac{1}{2}^{\circ}$  W., 45 lks.  
dist., with rotted center and the cast of the  
scribe marks visible on the overgrowth.

A pine, 10 ins. diam., bears N.  $73\frac{1}{4}^{\circ}$  W., 24 lks.  
dist., mkd. T11N R44E S18 BT on a partially  
healed face.

## from which the original bearing trees:

A white pine, 16 ins. diam., bears S.  $26^{\circ}$  E., 18  
lks. dist., with healed face. (Record species:  
fir).

A cedar, 32 ins. diam., bears S.  $34^{\circ}$  E., 14 lks.  
dist., with healed face. (Record; 24 lks.)

A fir, 60 ins. diam., bears N.  $63\frac{1}{2}^{\circ}$  W., 286 lks.  
dist., with a healed blaze. (Record; N.  $62^{\circ}$  W.)

BEARING TREE, WITH HEALED BLAZE

CHAINS

from which

A live oak, 22 ins. diam., bears N.  $45\frac{1}{2}^{\circ}$  E., 119 lks. dist., with overgrown blaze. (Record: S.  $45^{\circ}$  E., 120 lks. dist.)

A live oak, 22 ins. diam., bears S.  $40^{\circ}$  E., 71 lks. dist., with healed over blaze.

from which

A fir, 18 ins. diam., bears S.  $81\frac{1}{2}^{\circ}$  E., 22 lks. dist., mkd. with a healed blaze.

from which

A fir stump, 54 ins. diam., bears N.  $77^{\circ}$  W., 27 lks. dist., with healed blaze.

from which

A Douglas fir, 14 ins. diam., bears S.  $46^{\circ}$  E., 11 lks. dist., with healed face.

BEARING TREE, NO RECORD

CHAINS

and a bearing tree not of record

A fir, 31 ins. diam., bears S. 45° E., 46 lks. dist.,  
mkd. with healed blaze.

From this point an unrecorded yellow pine stump, 28 ins.  
diam., bears S. 67° 18' W., 222 lks. dist., with scribe  
marks S17 BT visible on open blaze.

BOULDER

CHAINS

from which

The original bearing object, a granite boulder,  
4 x 3 x 3 ft. above ground, bears N. 83° E., 13  
ft. above ground, bears N. 83° E., 13 ft. dist.,  
mkd. 17 BR with a cross (X) at the exact reference  
point.

from which

An X BO chiseled on a granite boulder, 4 x 3 x 3 ft.,  
bears N. 70° E., 5 lks. dist.

HOUSE, GARAGE

CHAINS

The southwest corner of a frame house, 25 x 21½ ft., bears N. 67° E., 98 lks. dist., the long side bears N. 57½° E.

The northwest corner of a concrete block house, 26 x 20 ft., bears N. 58° 40' E., 302 lks. dist., the long side bears N. 78° E.

The northwest corner of a frame garage, 20½ x 10½ ft., bears N. 58° 43' E., 654 lks. dist., the long side bears N. 1½° W.

The northwest corner of a metal garage, 18½ x 16½ ft., bears N. 63° 45' E., 1435 lks. dist., the long side bears S. 84½° E.

KILN

57

CHAINS	
23.88	Meander corner 23, as recovered at record distance from the NW. cor. of an old lime kiln and on extension of line from meander corner 24 through the NW. cor. of lime kiln, as shown in the 1907 resurvey record. This position is supported by a Forest Service Boundary sign in mound of stone.

MEMORIAL, MARKED STONE

CHAINS

The original corner rock, a sandstone, 12 x 19 x 36 ins.,  
mkd. 1/4 is lying on the East side of the corner post.

MOUND OF STONE

CHAINS

17.20

Corner No. 2 of Mineral Survey No. 7300, Louise Lode, on line 2-3 of Mineral Survey No. 13 and 26, Lee Mountain Mill Site, monumented with a granite stone, 20 x 12 x 6 ins., firmly set, 14 ins. in the ground, mkd. 2-7300, and witnessed by a mound of stone, 4 ft. base, 3 ft. high, 1 lk. N. of corner.

PITS

67

CHAINS

40.11

The 1/4 sec. cor. of secs. 13 and 14, monumented with small pieces of stone, found in a flat mound of earth and witnessed by dim pits, N. and S. of the cor., 3 ft. dist.

77.88

The cor. of secs. 4, 5, 32 and 33, determined at the center point on a mound of earth between the original 4 pits, the outlines of which are clearly visible.

REFERENCE MONUMENT

CHAINS	
	<p>from which</p> <p>An iron post, 2½ ins. diam., firmly set, projecting 4 ins. above the ground, for a reference monument, bears S. 64½° E., 50.6 ft. dist., with brass cap mkd. RM T11S R5E ¼ S5 50.6 FT 1967, and an arrow pointing to the true corner point.</p> <p>from which</p> <p>An iron post, 1 in. diam., firmly set in a mound of stone, bears S. 45° E., 54 lks. dist., with brass cap mkd. RM S12 1947 and an arrow pointing to the corner.</p>

BEARING OBJECT,  
ROCK CLIFF

CHAINS

from which

An X BO on a rock cliff, 50 ft. high, bears N.  $21\frac{1}{2}^{\circ}$  W.  
8 lks. dist.

BEARING OBJECT,  
ROCK LEDGE

CHAINS

from which

An X BO chiseled on limestone ledge bears West,  
4 lks. dist.

ROOT CROWN

CHAINS

A live oak stump hole and root structure, 16 ins. diam., bears N. 60° E., 46 lks. dist.

The root crown of a buckeye, size indeterminate, bears N. 15½° E., 83 lks. dist.

## SNAG

## CHAINS

A hemlock snag, 30 ins. diam., bears S. 25 1/2° E., 22 lks. dist., no marks remaining. (Record: S. 50° E.)

A fir snag, 36 ins. diam., bears S. 44° W., 39 lks. dist., no marks visible.

A dead pine, 8 ins. diam., bears S. 68 1/4° E., 98 lks. dist., mkd. 1/4 S34 BT. (Record: S. 64° E., 98 lks.)

A dead pine, 12 ins. in diam., bears S. 30° W., 15 lks. dist., mkd. 1/4 S BT.

A snag, 16 ins. diam., bears N. 16° E., 32 lks. dist., mkd. T12N R43E S36 BT on a weathered face.

## STUMP

CHAINS

from which

The original bearing tree, a pine stump, 16 ins. diam., bears S.  $32\frac{1}{2}^{\circ}$  E., 28 lks. dist., mkd. 16 BT. (Record: 12 lks.)

A fir stump, 48 ins. diam., bears S.  $50^{\circ}$  E., 20 lks. dist., with scribe marks BT visible on opened blaze.

A juniper stump, 12 ins. diam., bears S.  $22^{\circ}$  W., 104 lks. dist., with illegible scribe marks visible on partially healed face.

A tamarack stump, size indeterminate, bears S.  $20^{\circ}$  E., 31 lks. dist., with no scribe marks visible.

A pine stump, 28 ins. diam., bears S.  $36\frac{3}{4}^{\circ}$  W., 95 lks. dist., with no scribe marks visible.

BURNED STUMP

CHAINS

from which

A burned redwood stump, 36 ins. diam., bears  
N.  $34\frac{1}{2}^{\circ}$  W., 30 lks. dist., mkd.  $\frac{1}{4}$  S BT on opened  
blaze.

from which

A burned cedar stump, 18 ins. diam., bears N.  $66^{\circ}$  E.,  
4 lks. dist., with no scribe marks visible.

ROTTED STUMP

CHAINS	
	<p>from which</p> <p>A rotted fir stump, size indeterminate, bears N. 60° W., 40 lks. dist., with no marks remaining. (Record: 48 lks.)</p> <p>from which</p> <p>A rotted pine stump, 40 ins. diam., bears N. 11° E., 195 lks. dist., no marks visible.</p> <p>from which</p> <p>A rotted hemlock stump, 32 ins. diam., bears N. 89° W., 50 lks. dist., no marks visible.</p>

SAWED STUMP

CHAINS

from which

A sawed fir stump, 18 ins. diam., bears N. 79° W.,  
34 lks. dist., no marks visible.

from which

A sawed fir stump, 40 ins. diam., bears N. 8½° W.,  
19 lks. dist., with burned blaze. No marks visible.  
(Record: N. 39° W.)

STUMPHOLE

CHAINS

from which

A stumphole, bears N. 37° E., 120 lks. dist.

A stumphole, bears N. 47° W., 75 lks. dist., with maple shoots around the hole.

from which

A root hole, bears S. 38° W., 122 lks. dist., alongside of which is lying a fir, 40 ins. diam., with scribe marks R S BT visible on partly opened blaze.

A stumphole, bears N. 84° W., 34 lks. dist., with a pine stump laying nearby, mkd. ¼ S4 BT.

from which

A root hole bears N. 66½° E., 55 lks. dist., with fallen aspen, 8 ins. diam., alongside, mkd. T11N R43E S3 BT on a bark blaze.

A root hole bears S. 55° E., 6 lks. dist.

A root hole bears S. 35° W., 8 lks. dist., with pieces of fir log alongside bearing evidence of scribe marks.

from which

A root hole bears N. 10° E., 95 lks. dist., with log 14 ins. diam., with no scribe marks visible.

The stump hole of a downed pine, 9 ins. diam., bears N. 53° W., 54 lks. dist., the tree mkd. S BT on an opened blaze.

## CORNER ACCESSORIES ESTABLISHED

## CHAINS

Bearing object, boulder  
Concrete abutment  
Rock ledge or cut  
Rock outcrop  
Bearing tree  
Bench mark  
Building  
Culture, Miscellaneous  
Fence corner  
Memorial, concrete block  
Memorial, fence post  
Memorial, glass  
Memorial, iron pipe  
Memorial, rod  
Memorial, stone  
Memorial, wooden post  
Pit  
Power pole  
Reference monument  
Stone mound  
U.S.C. & G.S. monument

BEARING OBJECT, BOULDER

CHAINS

from which

The marks BXO on a granite boulder 3 x 3 x 3 ft., bears N. 58° W., 11 lks. dist.

from which

A boulder, 17 x 8 x 4 ft. bears N. 10° W., 26 lks. dist., mkd. XBO at the exact reference point.

from which

The marks X BO on a boulder 5 x 4 x 4 ft., bears S. 11° E., 18 lks. dist.

Note: The marks should be recorded in the notes exactly as placed in the field.

CONCRETE ABUTMENT

CHAINS

from which

An "X" on the SW. cor. of concrete abutment, bears  
S. 71° 13' E., 153 lks. dist.

from which

An X with BO MC 12 chiseled on E. wing of old con-  
crete culvert wall bears N. 86° W., 16 lks. dist.

from which

A concrete revetment, bears N. 30° W., 123 lks.  
dist., mkd. COR 1 BO

from which

A concrete abutment in drainage canal, bears  
S. 22° 38' W., 69 lks. dist., mkd. BXO on top.

BEARING OBJECT, ROCK LEDGE OR CUT

CHAINS

from which

A bearing object, the marks BXO on the NW. face of a granite ledge 3 ft. high, bears S. 45° E., 10 lks. dist.

from which

A XBO, chiseled on vertical rock cut, 4 ft. above surface of road bed, bears S. 75½° E., 72 lks. dist.

from which

A X with BO chiseled on rock face in highway cut, bears N. 43½° W., 208 lks. dist.

from which

A point on a granite bedrock outcrop, even with the general surface, bears N. 9½° E., 27 lks. dist., mkd. BXO.

BEARING OBJECT, ROCK OUTCROP

CHAINS

from which

A point on granite bedrock outcrop, even with the  
general surface, bears N.  $9\frac{1}{2}^{\circ}$  E., 27 lks. dist.,  
mkd. BXO.

## BEARING TREE

## CHAINS

from which

A fir, 6 ins. diam., bears N. 23° E., 25 lks. dist.,  
mkd. T53N R87W S12 BT.

from which

A pine, 30 ins. diam., bears S. 43° E., 22 lks.  
dist., mkd. ¼ S21 BT.

from which

A pine, 5 ins. diam., bears N. 7½° E., 21 lks. dist.,  
mkd. T9N R5W S33 SC BT.

from which

A larch, 8 ins. diam., bears N. 14° E., 51 lks.  
dist., mkd. MC S23 BT.

from which

A live oak, 9 ins. diam., bears S. 47° E., 89 lks.  
dist., mkd. COR 3 M S 4043 BT.

A live oak, 8 ins. diam., bears N. 5½° W., 35 lks.  
dist., mkd. S27 CC BT.

from which

A fir, 63 ins. diam., bears N. 28° E., 95 lks. dist.,  
mkd. T36S R5W S34 BT, on a bark blaze.

from which

A madrone, 6 ins. diam., bears S. 26° E., 164½ lks.  
dist., bark scribed ¼ S10 BT.

BEARING TREE, WITNESS CORNER

CHAINS

from which

A spruce, 8 ins. in diam., bears S. 33° E., 57 lks.  
dist., mkd. X at breast height and BT at the base.

BENCH MARK

CHAINS

from which

A standard brass tablet bench mark of the Forest Service, set in concrete form, in front of Ranger Station Office, bears N.  $22\frac{1}{2}^{\circ}$  W., 169 lks. dist., bench mark is mkd. A135 1934.

from which

A U.S. Army Corps of Engineers bench mark, with a regulation brass tablet, set in concrete form, bears S.  $57^{\circ} 47'$  W., 2.837 chs. (187.2 ft.) dist., with brass tablet mkd.

U.S. ENGR. DEPT.  
B M  
No. 50A  
LOUISVILLE OFFICE

BUILDING

CHAINS

from which

The NW. cor. of small cement block pumphouse,  
bears S.  $81\frac{3}{4}^{\circ}$  E., 63 lks. dist.

from which

The SW. cor. of a U.S. Forest Service Self-Recording  
Weather Station, bears N.  $21\frac{1}{2}^{\circ}$  E., 151 lks. dist.

from which

The most easterly cor. of a frame building,  
18 x 16 ft., bears N.  $23\frac{1}{2}^{\circ}$  E., 19.70 chs. dist.,  
long side bears S.  $89^{\circ}$  W.

The SW. cor. of a plywood storehouse, 23 x 12 ft.,  
bears N.  $53^{\circ} 53'$  E., 375 lks. dist., long side  
bears N.  $79^{\circ}$  E.

The W. cor. of an irregular shaped frame house,  
31 x 24 ft., bears N.  $70^{\circ} 23'$  E., 347 lks. dist.  
long side bears N.  $44^{\circ}$  E.

The N. cor. of a plywood shed, 8 x 8 ft., bears  
N.  $85^{\circ} 21'$  E., 443 lks. dist., front side bears  
S.  $47^{\circ}$  E.

from which

The SW. cor. of a wood-framed house, 16 x 12 ft.,  
bears N.  $29^{\circ} 25'$  W., 398 lks. dist., long side  
bears North and South.

The SE. cor. of a wood-framed shed, 12 x 8 ft.,  
bears N.  $36^{\circ} 20'$  W., 422 lks. dist., long side  
bears North and South.

The SE. cor. of a log cache, 22 x 8 ft., bears  
N.  $69^{\circ} 50'$  W., 568 lks. dist., long side bears  
North and South.

from which

The NW. cor. of a wood-framed ranch style home,  
bears S.  $71\frac{1}{4}^{\circ}$  E., 192 lks. dist., long side  
bears East and West.

The NE. cor. of the E. C. Swearingen home, bears  
S.  $37\frac{1}{2}^{\circ}$  W., 136 lks. dist., long side bears  
N.  $10^{\circ}$  W.

CULTURE, MISCELLANEOUS

CHAINS

from which

The center bolt on top of a fire hydrant, bears  
S. 50° 09' W., 7 lks. dist.

The center of Memorial Rotunda, bears N. 43° 30' W.,  
222 lks. dist.

from which

The Flag Pole in front of West Hall, bears  
N. 22° 22' E., 397 lks. dist.

The NW corner of the pedestal of the statue of  
Father Pierre Gibault, bears S. 47° 50' E., 244  
lks. dist.

The door knob of the center door of the St. Francis  
Xavier Cathedral, bears S. 14° 34' E., 255 lks.  
dist.

FENCE CORNER

CHAINS

from which

A corner post (steel) of fences extending N. 10° E.  
and W., bears N. 21½° W., 28 lks. dist.

from which

A corner of fences extending South and West, bears  
N. 41° W., 41 lks. dist.

MEMORIAL, CONCRETE BLOCK

CHAINS

Bury a concrete block, 6 x 4 x 4 ins., mkd. X base of the iron post.

Deposit concrete block, 12 x 6 x 4 ins. mkd. X alongside the iron post.

MEMORIAL, FENCE POST

CHAINS

Set a steel fence post alongside the corner.

MEMORIAL, GLASS

CHAINS

Deposit a green glass bottle at base of iron post.

Deposit broken glass alongside the iron post.

Place broken glass and tin cans at base of iron post.

MEMORIAL, IRON PIPE

CHAINS

Reset iron pipe alongside iron post.

Deposit the galvanized pipe alongside the iron post.

Set an iron pipe, 2 ins. diam., 4 ft. long, alongside the iron post.

MEMORIAL, ROD

CHAINS

Insert iron rod inside iron post.

Deposit the steel rod marker alongside the iron post.

MEMORIAL, STONE

CHAINS

Deposit corner stone alongside iron post.

Bury the original stone alongside and raise a collar of stone, 3 ft. base, around the iron post.

Bury the original corner stone alongside the iron post.

Deposit the original corner stone alongside the iron post, in the supporting mound.

Deposit the original stone alongside the iron post.

Deposit the original corner stone in the mound, alongside the iron post.

MEMORIAL, WOODEN POST

CHAINS

Reset the wooden post alongside the iron post and raise a mound of stone, 2½ ft. base, 2 ft. high, 3 lks. West of corner.

Bury the original post alongside and raise a collar of stone, 3 ft. diam., around the copper coated steel stake.

Deposit the wood post marker alongside the iron post, and raise a mound of stone, 3 ft. base, 2 ft. high, 3 lks. South of the corner.

Bury the original pine post, inverted and alongside the iron post.

PIT

CHAINS

Raise a mound of earth, 4 ft. base, 1 ft. high, around the cor. and dig pits on line North and South, 3 ft. dist.

POWER POLE

CHAINS

from which

A powerpole, 10 ins. diam., bears North, 5 lks.  
dist., No. W61 L3 L5.

from which

A powerpole, bears N.  $22\frac{1}{2}^{\circ}$  E., 38 lks. dist., mkd,  
X B0.

from which

A powerpole, with spike in it, bears N.  $44\frac{1}{2}^{\circ}$  W.,  
82 lks. dist.

from which

A Eugene Water and Electric Board powerpole No. 2275  
bears N.  $56\frac{3}{4}^{\circ}$  E., 299 lks. dist.

Note: Indicate powerpole number when possible.

REFERENCE MONUMENT

CHAINS

from which

An iron post, 28 ins. long, 2½ ins. diam., set 24 ins. in the ground, for a reference monument, bears S. 42° 13' W., 61 lks. dist., with brass cap mkd. T4N R39E S4 RM 1959 and an arrow pointing to the cor.

STONE MOUND

CHAINS

Raise a mound of stone, 2 ft. base, 1½ ft. high, 1 lk.  
North of cor.

Raise a mound of stone, 4 ft. base, 2 ft. high 1 lk.  
West of cor.

U.S.C. & G.S. MONUMENT

CHAINS

from which

United States Coast and Geodetic Survey triangulation station "Antone 1945" bears S. 27° 03' 45" W., 48.69 chs. dist., monumented with a standard brass cap, 3½ ins. diam., firmly cemented into a drill hole in a rock outcrop, 5 x 4 x 2 ft. above ground, with top mkd. ANTONE 1945 and a triangle.

## GENERAL DESCRIPTION

A general description shall be included in the returns of every field survey. The following items are offered as a guide to the material to be included in the general description.

1. A statement of the general location of the area and its proximity to towns, and any permanent reservations affecting the area.
2. A statement as to the general terrain in the area with classification as mountainous, rolling, level, etc., and range of elevations above sea level.
3. A statement as to the general drainage in the area.
4. A general description of the soil and vegetation and its distribution and density.
5. General location and classification of roads serving the area.
6. A description and location of important springs, water holes, other sources of water, and major improvements.
7. A statement as to areas under cultivation.
8. The location and size of towns.
9. Number and location of permanent residents.
10. A report of any known mineral deposits or mining activity.
11. Method of determining the mean magnetic declination.
12. Any other pertinent data.
13. Describe areas that are classified as swamp and overflow land.

CHAINS

GENERAL DESCRIPTION

Township 35 north, range 36 east is situated about 12 miles WSW. of Winnemucca, Nevada. The elevation varies from 4,200 to 5,200 feet above sea level. The soil varies from silt along the river bottom to sand dunes in the NW. portion of the township.

The Humboldt River crosses the township from NE. to SW. Rose Creek drains the SE. portion of the area to a ranch in section 23. There are water wells in sections 14, 15, 21, 24, 25 and 26. Small seep springs are located in section 28.

An abandoned mining operation is situated in sections 1 and 2. No other mining deposits of value were noted. Currently, the principle users of the township are cattlemen. There is no timber in the township.

The Western Pacific Railroad crosses the area from E. to W. The Southern Pacific Railroad crosses the township from E. to SW. U.S. Highway Nos. 40 and 95 roughly parallels the Southern Pacific Railroad. Further access to the township is provided by numerous secondary and desert trail roads. A power line crosses the SE. portion of the township and REA power lines serve the homes and ranches. Two ranches are located in the Humboldt River bottom and another in section 23. There are several homes in sections 25, 26 and 27.

An average number of readings throughout the area resurveyed gives a mean magnetic declination of  $19\frac{1}{2}^{\circ}$  E., with no noticeable difference due to local attraction.

GENERAL DESCRIPTION

The area surveyed and resurveyed within T. 10 N., R. 27 E., varies from mountainous in the west portion to nearly level in the central portion with the remaining terrain being gently rolling. The elevation ranges from about 4,700 to 5,600 ft. above sea level. The soil varies from sandy clay loam and rocky on the higher elevations to black loam on the bottom land. The vegetation consists of shadscale, blackbrush, budsage, sagebrush, meadow grass and other sparse native grasses. There are scattered stands of buckthorn, willow and cottonwood along the East Walker River which crosses the township in a northerly course.

The Rafter Seven Ranch house is situated on the south boundary of sec. 33 and there are numerous buildings belonging to the Santa Margarita Ranch, in secs. 16 and 21. No mineral formations of consequence were noted during the survey.

The average of a number of readings along the lines resurveyed gives a mean magnetic declination of  $20^{\circ}$  E., with a range of  $2^{\circ}$  in local attraction.

FIELD ASSISTANTS

CHAINS

The names of the field assistants must be listed and the column under the heading "Capacity" will be filled with his Civil Service Classification.



CERTIFICATE OF SURVEYOR

CHAINS

The certificate of surveyor, shall be completed, dated and signed by the Chief of Party. Only one certificate shall be prepared for each book of field notes. The names of other engineers shall be incorporated into the certificate of approval with the statement as acting under the Chief of Party. (Director's memorandum, 5.04b, dated April 14, 1960). However, two or more certificates of survey may be made if parts of the township are surveyed at different times by different Cadastral Surveyors under the same group number.

If more than one certificate of survey is made, all the surveys made under that group must be listed in one certificate of approval.

The surveyor's, or supervisor's signature on the certificate is his approval of the field notes as a true representation of the survey. He must hand sign the original but a rubber stamp or facsimile signature may be used on the duplicate and triplicate.

The identification of surveys in the surveyor's certificate shall be identical with that given on the title page.

The certificate of approval shall be completed except for date and signature.

The certificate of transcript shall be crossed out on the original copy and completed on the carbon copies, except for date and signature.

CERTIFICATE OF SURVEY

(I) ~~(We)~~, John Trueline, \_\_\_\_\_, HEREBY  
CERTIFY upon honor that, in pursuance of special instructions bearing date of the 29th day  
of February, 19 72, (I) ~~(We)~~ have surveyed a portion of the south bound-  
ary and subdivisional lines, and subdivided sections 26 and 35, Township  
39 North, Range 16 East,

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

April 1, 1972  
(Date)

/s/ John Trueline  
(Cadastral Surveyor)

\_\_\_\_\_  
(Date)

\_\_\_\_\_  
(Cadastral Surveyor)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT  
Washington, D.C.

The foregoing field notes of the survey of a portion of the south boundary and sub-  
divisional lines, and subdivision of sections 26 and 35, Township 39 North,  
Range 16 East, Salt Lake Meridian, Utah.

executed by John Trueline, Cadastral Surveyor  
having been critically examined and found correct, are hereby approved.

\_\_\_\_\_  
(Date)

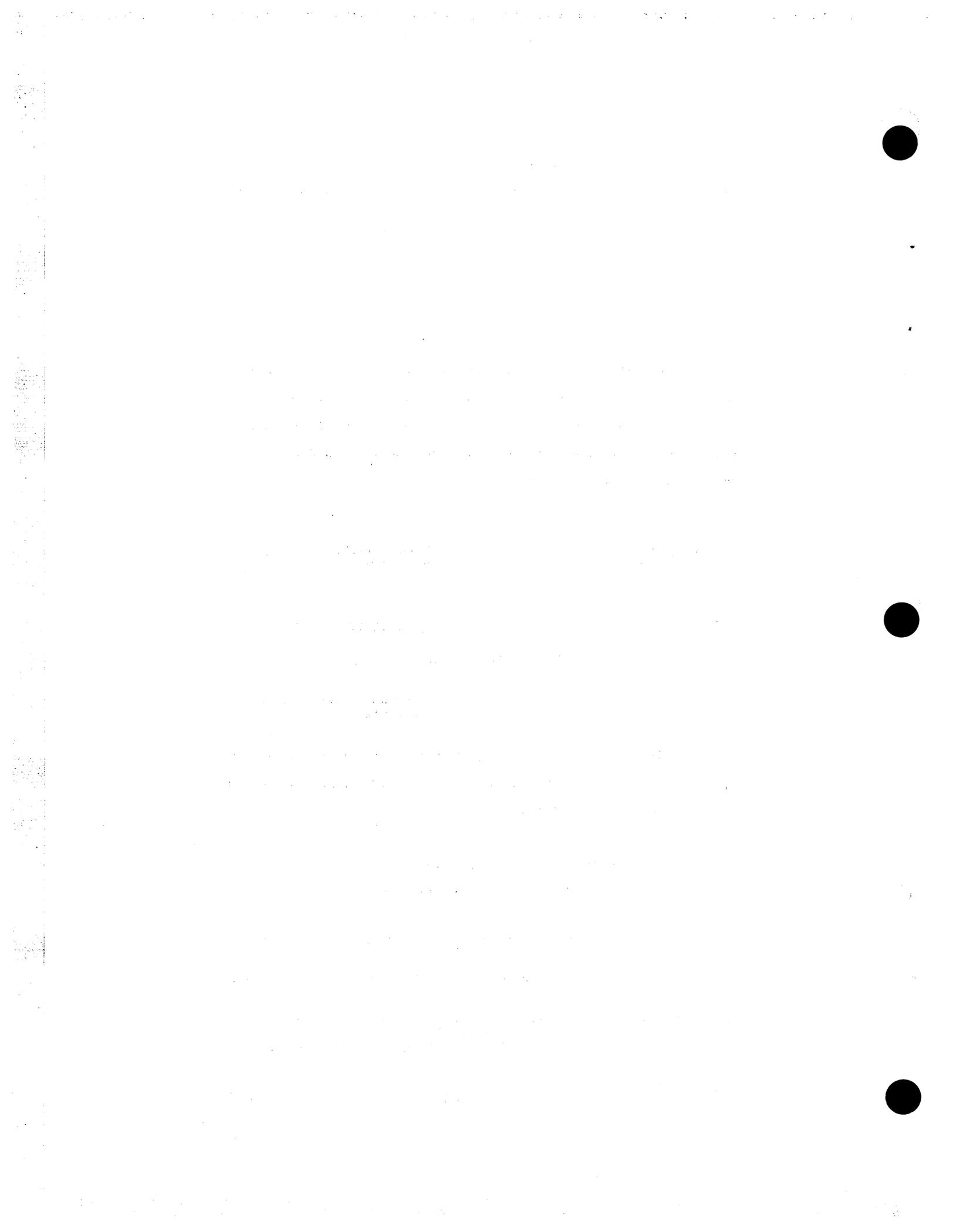
\_\_\_\_\_  
(Chief, Division of Cadastral Survey)

~~CERTIFICATE OF TRANSCRIPT~~

~~I CERTIFY That the foregoing transcript of the field notes of the above-described surveys in  
, is a true copy of the original field notes.~~

~~\_\_\_\_\_  
(Date)~~

~~\_\_\_\_\_  
(Chief, Division of Cadastral Survey)~~



# ALASKA U. S. SURVEY

## COVER PAGE

The cover page must be filled out with a complete and comprehensive description of the surveys, state, executed by, date of Special Instructions, U.S. Survey Number, approval date of both original and supplemental or amended Special Instructions, date of assignment instructions and dates survey commenced and completed.

Particular care must be taken to be certain that the dates of the Special and Supplemental or Amended Instructions, dates of approval of Special and Supplemental or Amended Instructions, and date of assignment instructions agree with the file copy.

In so far as is possible, the information should be centered to present a neat, symmetrical appearance.

The cover page will be prepared at least in duplicate with the original and duplicate being sent to Washington. A third copy may be made for retention in the originating office files. In the upper right hand corner will be stamped ORIGINAL, DUPLICATE, OR TRIPLICATE.

No Index is required.

## INTRODUCTORY STATEMENTS

The introductory statements on page one of the field notes for U.S. surveys must contain four separate paragraphs as follows:

1. Reference to Manual of Instructions and Special Instructions.
2. Method used to determine azimuth.
3. Geodetic position of point in survey.
4. Mean magnetic declination.

It is preferred that the paragraphs appear on page one in the order listed above. Each paragraph will be indented five spaces from the left margin and double spaced from the paragraph above.

The paragraph concerning the Manual of Instructions and Special Instructions is fairly uniform. It is used to show that the surveyor was authorized to perform the survey.

The paragraph concerning the geodetic coordinates of a point in the survey will contain the method used to determine the point.

The mean magnetic declination of the survey must be shown.

If any non-standard method or any special equipment is used, a paragraph detailing this non-standard or extraordinary use must be included.

BODY OF NOTES

The body of the notes show the survey that was performed, additional meanders, location monument designation, general description, list of field assistants and certificate.

The types of monument set is shown by symbol on the plat.

Reference monuments and witness points are not shown.

Except for townsites, bearings are given to nearest minute and distances to links.

On townsites the foot unit is used and is carried to hundredths. Bearings may be carried to seconds. Along the exterior boundaries, the chain unit, carried to four decimals, is also given in parenthesis.

The bearings, distances and topography along interior lot lines are not given in the field notes but are shown on the plat only.

Fieldnotes on townsites only show exterior boundary. Lot designation only shown on plat.

# FIELD NOTES

OF THE

U.S. SURVEY NO. 5520 COMPRISING LOTS 1 AND 2 LOCATED ON

UNALASKA ISLAND AT CHERNOFSKI HARBOR

GEODETTIC POSITION OF MEANDER CORNER NO. 1, LOT 2

LATITUDE 53° 24' 14.8" NORTH LONGITUDE 167° 30' 20.8" WEST

AND

DESIGNATION OF U.S. LOCATION MONUMENT NO. 5520

Of the \_\_\_\_\_ Meridian,

In the State of \_\_\_\_\_ ALASKA \_\_\_\_\_

## EXECUTED BY

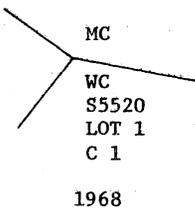
EDWARD D. CONKLIN, CADASTRAL SURVEYOR

Under special instructions dated \_\_\_\_\_ JULY 23 \_\_\_\_\_, 19 68 \_\_\_\_\_, which provided for the surveys  
U.S. SURVEY NO. 5520  
included under Group Number \_\_\_\_\_, approved JULY 23, 1968 \_\_\_\_\_,  
and assignment instructions dated \_\_\_\_\_ JULY 23 \_\_\_\_\_, 1968 \_\_\_\_\_.

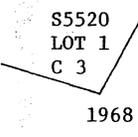
Survey commenced \_\_\_\_\_ AUGUST 8 \_\_\_\_\_, 1968 \_\_\_\_\_

Survey completed \_\_\_\_\_ AUGUST 12 \_\_\_\_\_, 1968 \_\_\_\_\_

## U.S. SURVEY NO. 5520

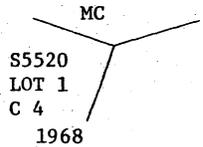
CHAINS	
	<p>This survey was executed in accordance with the specifications as set forth in the Manual of Surveying Instructions, 1947, and the Special Instructions dated July 23, 1968.</p> <p>Azimuth was obtained from a.m. and p.m. observations of the sun.</p> <p>The geodetic position of meander corner No. 1, Lot 2, as determined by a triangulated tie to U.S. Coast and Geodetic Survey Triangulation Station "LAMB, 1935," is Latitude 53°24'14.8" North, Longitude 167°30'20.8" West.</p> <p>The observed magnetic declination at meander corner No. 4, Lot 1, was 15° East.</p>
	<p style="text-align: center;"><u>LOT 1</u></p> <p>Begin at the point for meander cor. No. 1, Lot 1, on the westerly shore of Mailboat Cove. Unsafe place for a monument.</p> <p>S. 17°07' W., on line 1-2, Lot 1.</p> <p>Over level rocky beach.</p> <p>0.34 Point selected for witness meander cor. No. 1, Lot 1.</p> <p>Set a concrete filled iron post, 28 ins. long, 2 1/2 ins. diam., 26 ins. in the ground, with brass cap mkd.</p> <div style="text-align: center;">  <p>MC WC S5520 LOT 1 C 1 1968</p> </div> <p>from which</p> <p>The most northerly corner of a frame warehouse and shearing barn bears S. 35°07' E., 1.97 chs. dist. From the most northerly corner, the sides of this building extend S. 63° E., 48 ft., S. 73° E., 32 ft., N. 17° E., 8 ft., S. 73° E., 18 ft., S. 17° W., 2 ft., S. 73° E., 30 ft., S. 17° W., 3 ft., S. 73° E., 64 ft., S. 17° W., 19 ft., S. 73° E., 11 ft., S. 17° W., 25 ft., N. 73° W., 105 ft., N. 17° E., 11 ft., N. 73° W., 50 ft., N. 63° W., 55 ft., N. 27° E., 30 ft., to the point of beginning.</p> <p>The most northerly corner of a metal quonset building, 22 x 31 ft., bears S. 3°49' W., 0.70 chs. dist., long side extends S. 61° E.</p> <p>0.39 A wire fence, 3 ft. high, extends S. 68½° E., and N. 68½° W.</p> <p>0.85 A wire fence, 3 ft. high, extends N. 46° E., and S. 46° W.</p> <p>1.40 Base of steep slope extends SE. and NW. Ascend 40 ft.</p> <p>2.50 Top of slope. Continue gradual ascent over grassy ground.</p>

## U.S. SURVEY NO. 5520

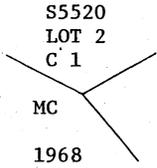
CHAINS	
4.23	Wire fence, 3 ft. high, extends S. 55° E. and N. 55° W.
5.99	Point for cor. No. 2, Lot 1.
	Set a concrete filled iron post, 28 ins. long, 2½ ins. diam., 26 ins. in the ground, with brass cap mkd.
	
	from which
	Cor. No. 2, Lot 2, hereinafter described, bears N. 60°42' E., 160.41 chs. dist.
	The center of the base of an aluminum antenna tower 30 ft. high bears S. 85°51' E., 4.69 chs. dist.
	A fence post, 4 ft. high, 5 ins. diam., bears S. 78°09' E., 1.73 chs. dist., with B0+ carved on the northwesterly side near the top.
	The center of the base of a wooden antenna tower 10 ft. high bears S. 75°31' E., 6.50 chs. dist.
	A fence post, 4 ft. high, 5 ins. diam., bears S. 59°01' E., 1.61 chs. dist., with B0+ carved on the northerly side near the top.
	S. 73°53' E., on line 2-3, Lot 1.
	Descend gradually over grassy slope.
1.67	Wire fence 3 ft. high extends N. 34° E. and S. 34° W.
7.58	Northerly side of a wooden coal chute extends NE. and SW.
7.67	Southerly side of a wooden coal chute extends NE. and SW.
8.33	Point for cor. No. 3, Lot 1.
	Set a concrete filled iron post, 28 ins. long, 2½ ins. diam., 25 ins. in the ground, with brass cap mkd.
	
	from which
	The most southerly corner of a wooden coal shed 10 x 19 ft., bears N. 46°13' W., 0.57 chs. dist. Long side extends N. 23° E.
	The most southerly corner of a metal generator house bears N. 1°43' E., 1.07 chs. dist. From the most southerly corner, the sides of this building extend N. 22° E., 16 ft., N. 68° W., 11 ft., N. 22° E., 12 ft., N. 68° W., 10 ft., S. 22° W., 28 ft., S. 68° E., 21 ft., to the point of beginning.

U.S. SURVEY NO. 5520

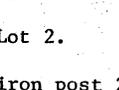
CHAINS	
	<p>N. 17° 07' E., on line 3-4, Lot 1.</p>
	<p>Descend gradually over grassy ground.</p>
4.80	<p>A wire fence 4 ft. high extends N. 86° E. and S. 86° W.</p>
5.99	<p>Point for meander cor. No. 4, Lot 1 on the westerly shore of Mailboat Cove.</p>
	<p>Set a concrete filled iron post 28 ins. long, 2½ ins. diam., 26 ins. in the ground, with brass cap mkd.</p>
	<p>from which</p>
	<p>The NW. corner of a frame house bears S. 34° 12' W., 4.56 chs. dist. From the NW. corner, the sides of this house extend S. 74° E., 10 ft., N. 16° E., 4 ft., S. 74° E., 14 ft., S. 16° W., 32 ft., S. 74° E., 18 ft., S. 16° W., 18 ft., N. 74° W., 18 ft., S. 16° W., 8 ft., N. 74° W., 24 ft., N. 16° E., 54 ft., to the point of beginning.</p>
	<p>The most northerly corner of a frame washhouse 10 x 16 ft., bears S. 37° 50' W., 4.85 chs. dist. long side extends S. 18° W.</p>
	<p>The most northerly corner of a frame bunk house bears S. 45° 13' W., 5.12 chs. dist. From the most northerly corner, the sides of this building extend S. 72° E., 38 ft., S. 18° W., 18 ft., N. 72° W., 6 ft., S. 18° W., 10 ft., N. 72° W., 8 ft., N. 18° E., 10 ft., N. 72° W., 12 ft., N. 18° E., 10 ft., N. 72° W., 12 ft., N. 18° E., 8 ft., to the point of beginning.</p>
	<p>The most easterly corner of an outhouse 5 x 8 ft., bears S. 51° 31' W., 4.95 chs. dist. long side extends N. 29° W.</p>
	<p>The most easterly corner of a metal bunk house 14 x 18 ft., bears S. 51° 45' W., 4.49 chs. dist. long side extends N. 29° W.</p>
	<p>The most easterly corner of a metal chicken coop 12 x 16 ft., bears S. 52° 32' W., 4.74 chs. dist. long side extends N. 29° W.</p>
	<p>The most easterly corner of a metal warehouse and shop bears N. 86° 46' W., 3.46 chs. dist. From the most easterly corner, the sides of this building extend S. 12° W., 20 ft., N. 78° W., 2½ ft., S. 12° W., 7 ft., N. 78° W., 18 ft., N. 12° E., 7 ft., N. 78° W., 29 ft., S. 12° W., 8 ft., N. 78° W., 30 ft., N. 12° E., 28 ft., S. 78° E., 79½ ft., to the point of beginning.</p>
	<p>The most northerly corner of a metal warehouse 16 x 30 ft., bears N. 83° 41' W., 3.07 chs. dist. long side extends S. 78° E.</p>
	<p>Thence with meanders along the westerly shore of Mailboat Cove.</p>



## U.S. SURVEY NO. 5520

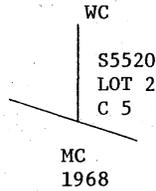
CHAINS	
	<p>N. 72° 53' W., 8.33 chs. dist. At 3.85 chs. dist., edge of a wooden dock 9 ft., wide extends N. 15° E., and S. 15° W. Continue under dock.</p> <p>At 4.00 chs. dist., edge of dock extends N. 15° E. and S. 15° W.</p> <p>At 8.33 chs. dist., end of course, point for meander cor. No. 1 and point of beginning.</p>
	<p style="text-align: center;"><u>LOT 2</u></p> <p>Begin at the point for meander cor. No. 1, Lot 2 on the easterly shore of Mutton Cove.</p> <p>Set a concrete filled iron post 28 ins. long, 2½ ins. diam., 26 ins. in the ground, with brass cap mkd.</p> <div style="text-align: center;">  <p>S5520 LOT 2 C 1 MC 1968</p> </div> <p>from which</p> <p>U.S. Coast and Geodetic Survey triangulation station "LAMB, 1935," herein designated U.S. Location Monument No. 5520, bears S. 11° 56' W., 64.49 chs. dist.</p> <p>The most northerly corner of a wooden dock 22 x 263 ft., bears N. 55° 41' W., 1.80 chs. dist. long side extends S. 42° W.</p> <p>N. 88° 07' E., on line 1-2, Lot 2.</p> <p>Over level grassy beach.</p> <p>0.70 Base of moderate slope extends SE. and NW. Ascend 100 ft.</p> <p>4.50 Hill becomes less steep. Continue gradual ascent over hilltop with native grass vegetation.</p> <p>16.08 Point for cor. No. 2, Lot 2.</p> <p>Set a concrete filled iron post 28 ins. long, 2½ ins. diam., 26 ins. in the ground, with brass cap mkd.</p> <div style="text-align: center;">  <p>S5520 LOT 2 C 2 1968</p> </div> <p>from which</p> <p>Cor. No. 2, Lot 1, hereinbefore described, bears S. 60° 43' W., 160.41 chs. dist.</p>

## U.S. SURVEY NO. 5520

CHAINS	
	Dig pits 18 x 18 x 12 ins., N. and W. on line 3 ft. dist.
	N. 1° 53' W., on line 2-3, Lot 2.
	Over gently rolling grassy hillside.
3.00	Base of steep slope extends SE. and NW. Ascend 140 ft.
6.00	Top of slope. Continue over nearly level grassy hilltop.
12.00	Base of moderate slope extends E. and W. Ascend 50 ft.
16.70	Top of hill. Descend gradually over open tundra.
25.76	Point for cor. No. 3, Lot 2.
	Set a concrete filled iron post 28 ins. long, 2½ ins. diam., 25 ins. in the ground, with brass cap mkd.
	<div style="text-align: center;">  <p>S5520 LOT 2 C 3 1968</p> </div>
	Dig pits 18 x 18 x 12 ins. S. and W. on line 3 ft. dist.
	S. 88° 07' W., on line 3-4, Lot 2.
	Ascend gradually over open tundra.
6.00	Base of hill extends N. and S. Ascend 60 ft. over moderate slope.
10.20	Top of hill. Continue across nearly level hilltop.
16.00	Top of slope. Descend over broad, moderately sloping, southwesterly and facing hillside.
36.04	Point for cor. No. 4, Lot 2.
	Set a concrete filled iron post 28 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.
	<div style="text-align: center;">  <p>S5520 LOT 2 C 4 1968</p> </div>
	Dig pits 18 x 18 x 12 ins. E. and S. on line 3 ft. dist.
	S. 1° 53' E., on line 4-5, Lot 2.
	Descend over moderate slope with native grass.
7.30	Top of steep earth bank extends SE. and NW. Descend 40 ft.
8.03	Creek 0.01 chs. wide, 2 ins. deep flows SW.
8.76	Point selected for witness meander cor. No. 5, Lot 2.
	Set a concrete filled iron post 28 ins. long, 2½ ins. diam., 26 ins. in the ground, with brass cap mkd.

U.S. SURVEY NO. 5520

CHAINS



from which

The most westerly corner of a frame warehouse and slaughterhouse 50 x 200 ft., bears S. 12° 02' E., 5.62 chs. dist. Long side extends S. 36° E.

The most northerly corner of a wooden dock bears S. 28° 46' W., 8.04 chs. dist. From the most northerly corner, the sides of this dock extend S. 54° W., 72 ft., S. 36° E., 360 ft., N. 54° E., 30 ft., S. 36° E., 45 ft., N. 54° E., 42 ft., N. 36° W., 44 ft., N. 54° E., 325 ft., N. 36° W., 32 ft., S. 54° W., 325 ft., N. 36° W., 238 ft., N. 54° E., 294 ft., N. 36° W., 32 ft., S. 54° W., 294 ft., N. 36° W., 59 ft., to the point of beginning.

9.22 Point for meander cor. No. 5, Lot 2 on the easterly shore of Mutton Cove. Unsafe place for a monument.

Thence with meanders along the easterly shore of Mutton Cove.

S. 37° 31' E., 2.40 chs. dist.

S. 24° 00' W., 3.69 chs. dist. At 3.30 chs. dist., an edge of the dock hereinbefore described extends N. 54° E. and S. 54° W.

S. 48° 51' E., 4.17 chs. dist. At 0.27 chs. dist., edge of dock extends N. 54° E. and S. 54° W.

At 3.89 chs. dist., edge of dock extends N. 54° E. and S. 54° W.

S. 89° 49' E., 5.41 chs. dist. At 0.13 chs. dist., end of dock extends S. 36° E. and N. 36° W.

S. 67° 54' E., 9.09 chs. dist.

S. 38° 52' E., 5.69 chs. dist. At 5.69 chs. dist., end of course, point for meander cor. No. 1, Lot 2 and point of beginning.

AREAS

Lot 1	4.99 acres
Lot 2	79.19 acres
Total	84.18 acres

## U.S. SURVEY NO. 5520

CHAINS

ADDITIONAL MEANDERS

From meander cor. No. 1, Lot 1, thence with meanders along the westerly shore of Mailboat Cove.

N. 52°33' W., 10.00 chs. dist.

From meander cor. No. 4, Lot 1, thence with meanders along the southerly shore of Mailboat Cove.

N. 67°37' E., 10.00 chs. dist.

From meander cor. No. 1, Lot 2, thence with meanders along the easterly shore of Mutton Cove.

S. 36°00' E., 2.00 chs. dist.

S. 16°00' E., 8.00 chs. dist.

From meander cor. No. 5, Lot 2, thence with meanders along the easterly shore of Mutton Cove.

N. 44°50' W., 10.00 chs. dist.

DESIGNATION OF U.S. LOCATION MONUMENT NO. 5520

There were no approved corners of public surveys or other acceptable monuments within the area.

Therefore it was necessary to designate a U.S. Location Monument.

The designation was accomplished by designating U.S. Coast and Geodetic Survey triangulation station "LAMB," 1935, as U.S. Location Monument No. 5520. This station is monumented with a bronze disk 3 ins. diam., marked "LAMB, 1935," cemented in a boulder which is about 1 ft. square and extends about 3 ins. above the surface. No marks were added to the brass disk.

This station is located on a spit on the west side of Chernofski Harbor. It is about 330 ft. westerly from the easterly end of the spit, and is about 80 ft. from the high water line of the southerly side of the spit. The ground is about 10 ft. elevation at this point.

from which

Meander cor. No. 1, Lot 2, hereinbefore described, bears N. 11°56' E., 64.49 chs. dist.

The most southeasterly corner of a frame barn 40 x 100 ft., bears S. 40°57' W., 4.05 chs. dist.

The most northeasterly corner of the same barn bears S. 48°45' W., 4.27 chs. dist.

## U.S. SURVEY NO. 5520

CHAINS

GENERAL DESCRIPTION

Mailboat Cove extends southwest from the mouth of Chernofski Harbor. Lot 1 is located on the southwest shore of this cove at the base of a gently sloping hill. Mutton Cove is at the mouth of Chernofski Harbor on the north side. Lot 2 extends east from the easterly shore of this cove.

The only vegetation on the survey is native grass.

The land does not seem suitable for general agricultural use other than livestock grazing.

There is no apparent mineralization.

The only access to this survey is by boat or float plane.

All improvements are shown on the plats.



CERTIFICATE OF SURVEY

(I) ~~(We)~~, Edward D. Conklin, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 23rd day of July, 1968, (I) ~~(We)~~ have surveyed U.S. Survey No. 5520, comprising Lots 1 and 2, located on Unalaska Island at Chernofski Harbor, and designation of U.S. Location Monument No. 5520.

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

Oct. 1, 1969 (Date) /s/ Edward D. Conklin (Cadastral Surveyor)

CERTIFICATE OF APPROVAL

SUBMITTED FOR APPROVAL BUREAU OF LAND MANAGEMENT Washington, D.C.

Date Oct. 9, 1969

The foregoing field notes of the survey of U.S. Survey No. 5520, comprising Lots 1 and 2, located on Unalaska Island at Chernofski Harbor, and designation of U.S. Location Monument No. 5520.

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

May 20, 1970 (Date) /s/ Clark L. Gumm (Chief, Division of Cadastral Survey)

CERTIFICATE OF TRANSCRIPT

I CERTIFY That the foregoing transcript of the field notes of the above-described surveys in, is a true copy of the original field notes.

(Date) (Chief, Division of Cadastral Survey) GPO 649-626

1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes the need for transparency and accountability in financial reporting.

2. The second part of the document outlines the various methods and techniques used to collect and analyze data. It includes a detailed description of the experimental procedures and the tools used for data collection.

3. The third part of the document presents the results of the study. It includes a series of tables and graphs that illustrate the findings. The data shows a clear trend of increasing activity over time, which is consistent with the theoretical model.

4. The fourth part of the document discusses the implications of the findings. It suggests that the results have significant implications for the field of research and may lead to further developments in the area.

5. The fifth part of the document concludes the study. It summarizes the key findings and provides a final statement on the overall significance of the research. The authors express their gratitude to the funding agencies and the research assistants who made the study possible.

6. The sixth part of the document includes a list of references. It cites the works of other researchers in the field, providing a context for the current study. The references are listed in alphabetical order.

7. The seventh part of the document contains a list of appendices. These include additional data, detailed descriptions of the experimental setup, and other supporting information. The appendices are provided for the reader's reference.

8. The eighth part of the document is the index. It provides a quick reference to the various sections of the document, allowing the reader to find the information they need easily.

# ALASKA

## ELECTRONIC SURVEY

ABC (Electronic) surveys delineate township boundaries, but not in the manner set forth in the Manual of Surveying Instructions, 1947. The Special Instructions include a "monumentation diagram" which shows the proposed monumentation as agreed to by BLM and the State of Alaska. In general, monuments are set approximately every 2 miles. There is no surveyed line between them. The introductory paragraphs of the field notes tell how these surveys are made.

These surveys cover large areas of from 10 to 50 or more townships. When writing the notes, one township is selected as the starting point (often the SE township) and all of its boundaries will be described in its notes. The notes of the other townships will then include only 2 or 3 of their boundaries (see Fig. 1). Because of this, the entire group is processed as a unit, is submitted to Washington for approval as a unit and is approved at the same time.

On the plats of ABC work the type of monument set is shown by symbol. Also, while witness points are not shown on other types of plats, they are shown on these plats. The hydrography and roads are shown and this data is taken from U.S.G.S. 1:63, 360 series quadrangle maps.

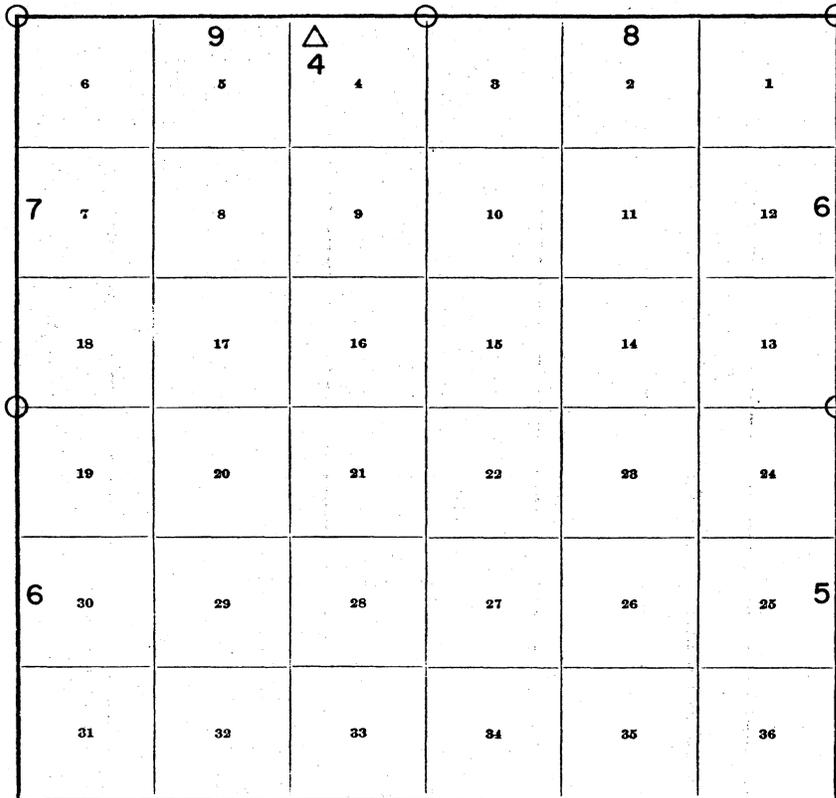
If some of the land within a township has been previously surveyed, when the plat is made the newly (ABC) surveyed portion is designated a tract, i.e., if there is one small 5-acre special survey within a township, the remaining area would be designated tract A. Some townships may have two, three or more tracts when areas are separated by previously surveyed land.

A set of field notes will be prepared for each township which will contain a cover page, index, horizontal control diagram, preliminary statement, list of previously established control, including geographic and State Plane Coordinate positions, list of supplemental control, including geographic and State Plane Coordinate positions, the body of the notes, amount of area surveyed, general description, list of field assistants and certificate. The body of the field notes is composed primarily of corner descriptions and the method used to establish that corner.



# INDEX DIAGRAM

Township 25 North, Range 3 West, S.M.



○ Corners set by electronic survey party (ABC)

△ Control monuments set by electronic survey party

# ALASKA ELECTRONIC SURVEY

## Township Boundaries

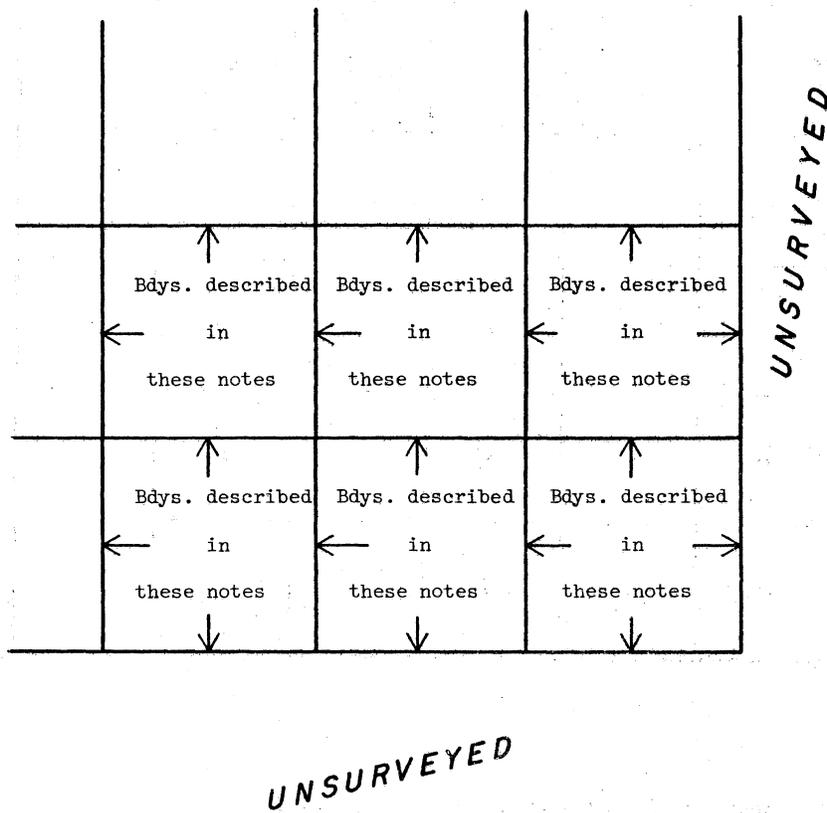


Figure 1

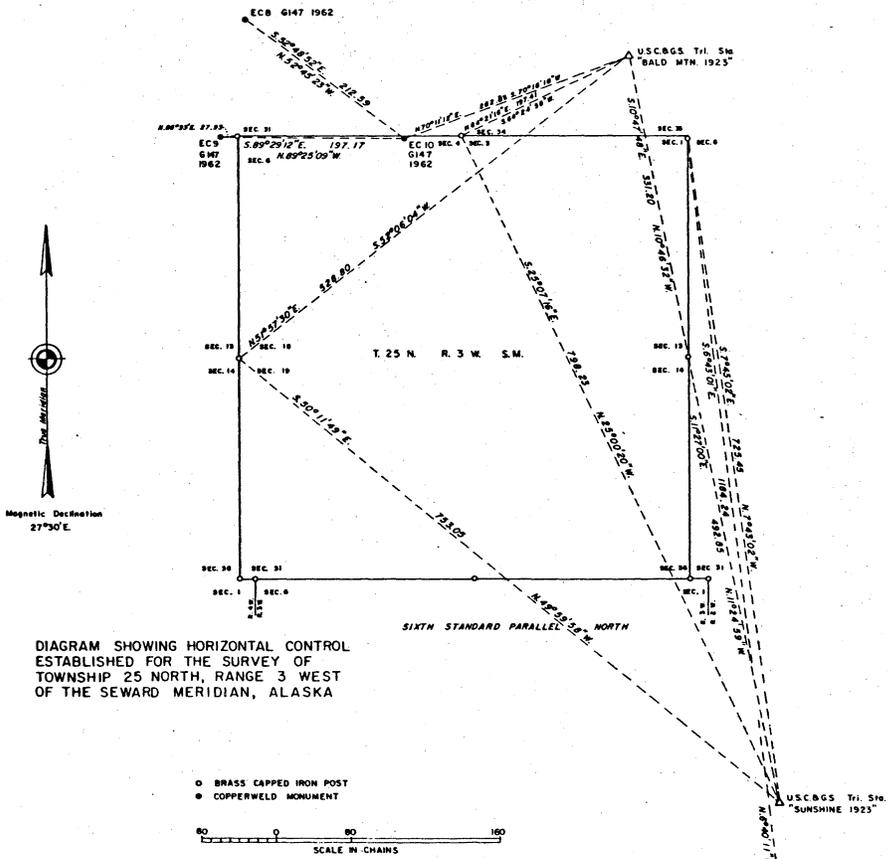


DIAGRAM SHOWING HORIZONTAL CONTROL ESTABLISHED FOR THE SURVEY OF TOWNSHIP 25 NORTH, RANGE 3 WEST OF THE SEWARD MERIDIAN, ALASKA

T. 25 N., R. 3 W., S.M.

## CHAINS

This survey establishes the East, West and North boundaries of Township 25 North, Range 3 West, Seward Meridian.

Corners in this survey were established by the following methods:

Using theodolites and Tellurometers, supplemental control stations were established and monumented in the vicinity of the predetermined positions of corners to be monumented on the rectangular survey lines. In the establishment of these stations, the angular measurements were made using theodolites, and distance measurements were made with electronic instruments. Wherever possible, the supplemental stations were established from two separate primary control points. Those supplemental control stations, which were established from only one primary control point, were checked by making an additional independent set of distance and angular measurements. All instruments were in good condition and in proper adjustment at all times during the survey. Vertical angles, where practicable, were taken at each end of the sight. The difference attributable to the curvature of the earth and refraction was taken into account in those instances where it was impracticable to read both angles. Horizontal angles are the average of three direct and three inverted telescope sightings and readings. Using transits and steel tapes, which were in good condition and in proper adjustment at all times during the survey; closed traverses were run from the supplemental control stations thus established to the position for the corner on the rectangular survey system. The geographic position of the supplemental control stations was determined from connections to the primary horizontal control established by accredited Government agencies.

Using the Airborne Control System (ABC), control stations established by U.S. Coast and Geodetic Survey, U.S. Geological Survey, U.S. Army Corps of Engineers, or the Bureau of Land Management, were occupied, and using precomputed angles, or an angle and a distance, a helicopter was positioned over the predetermined location to be monumented. When only one control station could be occupied, an additional independent set of distance and angular measurements were made. A marker was dropped at this location. Then by hovering at the height necessary to provide line of sight to the control stations, the helicopter served as an aerial platform for the electronic distance measuring equipment and was equipped with a beacon to provide a target for angular measurements. The helicopter was maintained in position over the ground point through the use of a sight, which provides a vertical reference for the pilot. Angular measurements were made with electronic distance measuring instruments, which were in good condition and in proper adjustment at all times during the survey. Since vertical angles were measured from only one end of the line, the difference attributable to the curvature of the earth and refraction was taken into account.

Electronic measurements and computations were made with the foot unit of measure and where distances are given in chains in the field record, they have been converted from feet. Horizontal distances, as given in these

T. 25 N., R. 3 W., S.M.

## CHAINS

field notes, were converted from slope measurements and reduced to their sea level equivalents.

NO LINE OF SIGHT WAS ACTUALLY SURVEYED ON THE GROUND BETWEEN CONSECUTIVE MONUMENTS. Monuments were established at precomputed positions and the distances and bearings between such monuments were determined by calculation. The field note record is prepared in the conventional manner, from monument to monument, along the lines of the boundaries being established. This is done to lend continuity to the field note record.

The initial point of the Seward Meridian, Latitude  $60^{\circ} 07' 36.950''$  N., Long.  $149^{\circ} 21' 26.008''$  West, North American Datum, 1927, was used to control the geographic position for the rectangular system survey established by this survey.

All coordinate positions, given in these notes, are based upon the Alaska State Plane Coordinate System.

The word "COPPERWELD," as used in these notes, is a trade name for a 9/16 inch diameter, copper-coated steel rod, with brass cap.

The magnetic declination was not measured. Information from recent mapping sources indicates an average of  $27\frac{1}{2}^{\circ}$  East.

The following geographic positions, used as control for this survey, are from the publications of data by the establishing agency:

U.S. Coast and Geodetic Survey triangulation station  
"SUNSHINE 1923"

Lat.  $62^{\circ} 09' 45.80''$  N., Long.  $149^{\circ} 41' 25.91''$  W.  
(Y = 2,982,647 ft., X = 552,914 ft., Zone 4)

U.S. Coast and Geodetic Survey triangulation station  
"BALD MOUNTAIN 1923"

Lat.  $62^{\circ} 18' 31.10''$  N., Long.  $149^{\circ} 45' 08.30''$  W.  
(Y = 3,035,951 ft., X = 542,147 ft., Zone 4)

U.S. Coast and Geodetic Survey triangulation station  
"MONTANA 1922"

Lat.  $62^{\circ} 04' 48.64''$  N., Long.  $149^{\circ} 40' 29.91''$  W.  
(Y = 2,952,480 ft., X = 555,725 ft., Zone 4)

The following monuments were established as control stations in the execution of this survey:

Occupying U.S.C.&G.S. triangulation station "BALD MT. 1923," turn a true forward bearing of N.  $48^{\circ} 12' 35''$  W., (back bearing S.  $48^{\circ} 18' 26''$  E.) and measure a distance of 25,096 ft., (380.24 chs.) to a point at:

Lat.  $62^{\circ} 21' 15.60''$  N., Long.  $149^{\circ} 51' 44.73''$  W.  
(Y = 3,052,601 ft., X = 523,374 ft., Zone 4)

Set a Copperweld monument, 36 ins. long, 28 ins. in the ground, with cap mkd.

T. 25 N., R. 3 W., S.M.

CHAINS

EC-2  
G147

1962

from which

A spruce, 6 ins. diam., bears N. 44° E., 50 lks.  
dist., mkd. EC2 G147.

A spruce, 6 ins. diam., bears S. 58° E., 36 lks.  
dist., mkd. EC2 G147.

This monument is 45 lks. E. of the shore of Larson Lake  
near its N. end, approximately 12 chs. S. of the outlet.

Occupying BLM control station "EC 2 G147 1962" turn a true  
forward bearing of S. 67° 49' 31" W., (back bearing  
N. 67° 48' 45" E.) and measure a distance of 2,668 ft.  
(40.42 chs.) to a point at:

Lat. 62° 21' 05.68" N., Long. 149° 52' 37.08" W.  
(Y = 3,051,589 ft., X = 520,905 ft., Zone 4)

Set a Copperweld monument, 36 ins. long, 30 ins. in the  
ground, with cap mkd.

EC-3  
G147

1962

from which

A birch, 6 ins. diam., bears S. 52° W., 66 lks.  
dist., mkd. EC3 G147 BT.

A spruce, 5 ins. diam., bears S. 86° W., 23 lks.  
dist., mkd. EC3 G147 BT.

This monument is on NW. side of a large lake and approx-  
imately 3.50 chs. E. of a cabin.

Occupying BLM control station "EC 3 G147 1962," turn a  
true forward bearing of S. 24° 03' 56" W., (back bearing  
N. 24° 02' 39" E.) and measure a distance of 10,067 ft.,  
(152.53 chs.) to a point at:

Lat. 62° 19' 35.18" N., Long 149° 54' 03.97" W.  
(Y = 3,042,391 ft., X = 516,818 ft., Zone 4)

Set a Copperweld monument, 36 ins. long, 28 ins. in the  
ground, with cap mkd.

EC-7  
G147

1962

from which

A spruce, 10 ins. diam., bears S. 49° W., 44 lks.  
dist., mkd. EC7 G147 BT.

A birch, 8 ins. diam., bears N. 57° W., 28 lks.  
dist., mkd. EC7 G147 BT.

## T. 25 N., R. 3 W., S.M.

## CHAINS

This monument is approximately 1.50 chs. E. of a cabin, on a point extending into the SW. portion of Larson Lake.

Occupying BLM control station "EC-7 G147 1962," turn a true forward bearing of S. 29° 09' 08" W., (back bearing N. 29° 08' 28" E.) and measure a distance of 4,454 ft. (67.48 chs.) to a point at:

Lat. 62° 18' 56.88" N., Long. 149° 54' 49.88" W.  
(Y = 3,038,498 ft., X = 514,655 ft., Zone 4)

Set a Copperweld monument, 72 ins. long, 56 ins. in the ground, with cap mkd.

EC-8  
G147

1962

from which

A spruce, 5 ins. diam., bears S. 48° W., 78 lks. dist., mkd. EC8 G147 BT.

A spruce, 8 ins. diam., bears N. 25° W., 107 lks. dist., mkd. X BT.

This monument is on open swampy ground, approximately 80 lks. E. of timber and 10.60 chs. from the SW. end of Larson Lake.

Occupying BLM control station "EC-8 G147 1962," turn a true forward bearing of S. 52° 48' 52" E., (back bearing N. 52° 45' 23" W.) and measure a distance of 14,031 ft. (212.59 chs.) to a point; and occupying U.S.C.&G.S. station "BALD MT. 1923," turn a true forward bearing of S. 70° 16' 18" W., (back bearing N. 70° 11' 12" E.) and measure a distance of 17,347 ft. (262.83 chs.) to the same point at:

Lat. 62° 17' 33.33" N., Long. 149° 50' 53.54" W.  
(Y = 3,030,033 ft., X = 525,843 ft., Zone 4)

Set a Copperweld monument, 36 ins. long, 24 ins. in the ground, with cap mkd.

EC-10  
G147

1962

from which

A boulder, 6 ft. diam., bears N. 43° W., 69 lks. dist., mkd. X B0.

A boulder, 3 x 4 ft., bears S. 85° E., 80 lks. dist., mkd. X B0.

This monument is on top of a hill approximately 32 chs. W. of Bald Mt.

Occupying BLM control station "EC-10 G147 1962," turn a true forward bearing of N. 89° 25' 09" W., (back bearing S. 89° 29' 12" E.) and measure a distance of 13,013 ft. (197.17 chs.) to a point at:

T. 25 N., R. 3 W., S.M.

CHAINS

Lat. 62° 17' 34.55" N., Long. 149° 55' 28.66" W.  
(Y = 3,030,134 ft., X = 512,832 ft., Zone 4)

Set a Copperweld monument, 72 ins. long, 62 ins. in the ground, with brass cap mkd.

EC-9  
G147

1962

from which

A spruce, 5 ins. diam., bears N. 27° W., 146 lks. dist., mkd. X BT.

A spruce, 4 ins. diam., bears N. 3° W., 169 lks. dist., mkd. X BT.

This monument is 75 lks. E. of a small point and approximately 2 miles S. of Larson Lake.

EAST BOUNDARY

Beginning at the standard cor. of T. 25 N., Rs. 2 and 3 W., set, mkd. and witnessed as described in the field notes of T. 24 N., R. 3 W., at:

Lat. 62° 12' 23.74" N., Long. 149° 43' 41.84" W.  
(Y = 2,998,658 ft., X = 546,390 ft., Zone 4)

North, bet. Rs. 2 and 3 W.

240.00 Point for the cor. of Secs. 13, 18, 19 and 24, thus established:

Occupying U.S.C.&G.S. triangulation station "SUNSHINE 1923," turn a true forward bearing of N. 11° 24' 59" W., (back bearing S. 11° 27' 00" E.) and measure a distance of 32,528 ft. (492.85 chs.) to a point and occupying U.S.C.&G.S. triangulation station "BALD Mt. 1923," turn a true forward bearing of S. 10° 47' 48" E., (back bearing N. 10° 46' 32" W.) and measure a distance of 21,859 ft. (331.20 chs.) to the same point at:

Lat. 62° 14' 59.69" N., Long. 149° 43' 41.84" W.  
(Y = 3,014,497 ft., X = 546,324 ft., Zone 4)

Set an iron post, 28 ins. long, 2½ ins. diam., 25 ins. in the ground, with brass cap mkd.

T25N	
R3W	R2W
S13	S18
S24	S19

1964

from which

A spruce, 6 ins. diam., bears N. 56° E., 208 lks. dist., mkd. T25N R2W S18 BT.

A spruce, 8 ins. diam., bears S. 62° E., 314 lks. dist., mkd. T25N R2S S19 BT.

A spruce, 6 ins. diam., bears N. 40° W., 250 lks. dist., mkd. T25N R3W S13 BT.

## E. BDY., T. 25 N., R. 3 W., S.M.

CHAINS	
	<p>Set a 55 gal. metal barrel, painted orange, E. of the iron post, 9 lks. dist.</p> <p>This cor. is on the SE. slope of a small knoll, in a large, natural clearing in scattered spruce timber and alder undergrowth.</p>
235.80	<p>North, bet. Rs. 2 and 3 W., beginning a new distance.</p> <p>Point selected for the witness cor. of Tps. 25 and 26 N., Rs. 2 and 3 W., thus established:</p> <p>Occupying U.S.C.&amp;G.S. triangulation station "MONTANA 1922," turn a true forward bearing of N. 6° 40' 11" W., (back bearing S. 6° 43' 01" E.) and measure a distance of 78,160 ft. (1184.24 chs.) to the point selected; and occupying U.S.C.&amp;G.S. triangulation station "SUNSHINE 1923," turn a true forward bearing of N. 7° 43' 02" W., (back bearing S. 7° 45' 02" E.) and measure a distance of 47,880 ft. (725.45 chs.) to the same point at:</p> <p style="text-align: center;">Lat. 62° 17' 32.91" N., Long. 149° 43' 41.84" W. (Y = 3,030,058 ft., X = 546,258 ft., Zone 4)</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.</p> <div style="text-align: center;"> <p>WC T26N R3W   R2W <u>S36   S31</u> S1   S6 T25N 1964</p> </div> <p>from which</p> <p>A 4 x 6 ft. boulder with a flat face, bears S. 50° W., 37 lks. dist., mkd. X B0.</p> <p>A 3 x 2 ft. boulder, bears S. 35° E., 38 lks. dist., mkd. X B0.</p> <p>Build a mound of stone, 3 ft. high, NW. of cor., 15 lks. dist.</p> <p>Set a 55 gal. metal barrel, painted orange, N. of the iron post, 3 lks. dist.</p> <p>This cor. is approximately 40 lks. S. of the S. edge of a small lake, on open, hilly ground. There are scattered small, patches of spruce timber, and alder undergrowth in the vicinity.</p>
240.00	<p>Point for the cor. of Tps. 25 and 26 N., Rs. 2 and 3 W., not monumented at:</p> <p style="text-align: center;">Lat. 62° 17' 35.64" N., Long. 149° 43' 41.84" W. (Y = 3,030,335 ft., X = 546,257 ft., Zone 4)</p>
	<p style="text-align: center;"><u>WEST BOUNDARY</u></p> <p>From the point for the Standard cor. of T. 25 N., Rs. 3 and 4 W., not monumented at:</p>

W. BDY., T. 25 N., R. 3 W., S.M.

CHAINS					
	<p>Lat. <math>62^{\circ} 12' 23.74''</math> N., Long. <math>149^{\circ} 54' 49.76''</math> W. (Y = 2,998,570 ft., X = 514,714 ft., Zone 4)</p> <p>North, bet. Rs. 3 and 4 W.</p>				
2.25	<p>The witness standard cor. of T. 25 N., Rs. 3 and 4 W., set, mkd. and witnessed as described in the field note record of T. 24 N., R. 3 W., S.M.</p>				
240.00	<p>Point for the cor. of Secs. 13, 18, 19 and 24, thus established:</p> <p>Occupying U.S.C.&amp;G.S. triangulation station, "SUNSHINE 1923," turn a true forward bearing of <math>N. 49^{\circ} 59' 58''</math> W., (back bearing <math>S. 50^{\circ} 11' 49''</math> E.) and measure a distance of 49,701 ft. (753.05 chs.) to a point; and occupying U.S.C.&amp;G.S. triangulation station "BALD MT. 1923," turn a true forward bearing of <math>S. 52^{\circ} 06' 04''</math> W. (back bearing <math>N. 51^{\circ} 57' 30''</math> E.) and measure a distance of 34,901 ft., (528.80 chs.) to the same point at:</p> <p>Lat. <math>62^{\circ} 14' 59.69''</math> N., Long. <math>149^{\circ} 54' 49.76''</math> W. (Y = 3,014,409 ft., X = 514,692 ft., Zone 4)</p> <p>Set an iron post, 28 ins. long, <math>2\frac{1}{2}</math> ins. diam., 24 ins. in the ground, with brass cap mkd.</p> <table border="0" style="margin-left: auto; margin-right: auto;"> <tr><td style="text-align: center;">T25N</td></tr> <tr><td style="text-align: center;">R4W   R3W</td></tr> <tr><td style="text-align: center;"><u>S13</u>   S18</td></tr> <tr><td style="text-align: center;">S24   S19</td></tr> </table> <p style="text-align: center;">1964</p> <p>from which</p> <p>A spruce, 5 ins. diam., bears <math>N. 70^{\circ}</math> E., 66 lks. dist., mkd. T25N R3W S18 BT.</p> <p>A spruce, 6 ins. diam., bears <math>S. 60^{\circ}</math> E., 54 lks. dist., mkd. T25N R3W S19 BT.</p> <p>A birch, 10 ins. diam., bears <math>S. 33^{\circ}</math> W., 47 lks. dist., mkd. T25N R4W S24 BT.</p> <p>A spruce, 5 ins. diam., bears <math>N. 47^{\circ}</math> W., 58 lks. dist., mkd. T25N R4W S13 BT.</p> <p>Set a 55 gal. metal barrel, painted orange, NW of the iron post, 6 lks. dist., at the center of cleared area, 50 ft. in diam.</p> <p>This cor. is in timber, on rolling ground. There is a small, open, swamp, approximately 1.10 chs. E.</p>	T25N	R4W   R3W	<u>S13</u>   S18	S24   S19
T25N					
R4W   R3W					
<u>S13</u>   S18					
S24   S19					
240.00	<p>North, bet. Rs. 3 and 4 W., beginning new distance.</p> <p>Point for the cor. of Tps. 25 and 26 N., Rs. 3 and 4 W., thus established:</p> <p>From BLM control station "EC-9 G147 1962," <math>N. 86^{\circ} 33'</math> E., 27.93 chs. dist., to the point at:</p>				

W. BDY., T. 25 N., R. 3 W., S.M.

## CHAINS

Lat.  $62^{\circ} 17' 35.64''$  N., Long.  $149^{\circ} 54' 49.76''$  W.  
(Y = 3,030,248 ft., X = 514,671 ft., Zone 4)

Set an iron post, 28 ins. long,  $2\frac{1}{2}$  ins. diam., 24 ins. in the ground, with brass cap mkd.

T26N	
R4W	R3W
S36	S31
S1	S6
T25N	
1962	

from which

A birch, 6 ins. diam., bears N.  $21^{\circ}$  E., 61 lks. dist., mkd. T26N R3W S31 BT.

A birch, 14 ins. diam., bears S.  $35^{\circ}$  E., 57 lks. dist., mkd. T25N R3W S6 BT.

A spruce, 10 ins. diam., bears S.  $70^{\circ}$  W., 67 lks. dist., mkd. T25N R4W S1 BT.

A spruce, 12 ins. diam., bears N.  $30^{\circ}$  W., 67 lks. dist., mkd. T26N R4W S36 BT.

Set a 55 gal. metal barrel, painted orange, W. of the iron post, 3 lks. dist., at the center of a cleared area, 50 ft. in diam.

This cor. is in birch and spruce timber, at the base of a 6 ft. rise. The ground slopes W. to the E. edge of a small lake approximately 28 chs. dist.

NORTH BOUNDARY

From the point for the cor. of Tps. 25 and 26 N., Rs. 2 and 3 W., not monumented.

West bet. Tps. 25 and 26 N., R. 3 W.

240.00 Point for the cor. of Secs. 3, 4, 33 and 34, Tps. 25 and 26 N., R. 3 W., thus established:

Occupying U.S.C.&G.S. triangulation station "SUNSHINE 1923," turn a true forward bearing of N.  $25^{\circ} 00' 20''$  W., (back bearing S.  $25^{\circ} 07' 16''$  E.) and measure a distance of 52,683 ft. (798.23 chs.) to a point; and occupying U.S.C.&G.S. triangulation station, "BALD MT. 1923," turn a true forward bearing of S.  $64^{\circ} 24' 56''$  W. (back bearing N.  $64^{\circ} 21' 16''$  E.) and measure a distance of 13,029 ft. (197.41 chs.) to the same point at:

Lat.  $62^{\circ} 17' 35.64''$  N., Long.  $149^{\circ} 49' 16.76''$  W.  
(Y = 3,030,280 ft., X = 530,419 ft., Zone 4)

Set an iron post, 28 ins. long,  $2\frac{1}{2}$  ins. diam., 24 ins. in the ground, with brass cap mkd.

T26N R3W	
S33	S34
S4	S3
T25N	
1964	

from which

N. BDY., T. 25 N., R. 3 W., S.M.

<p>CHAINS</p>	<p>A spruce, 6 ins. diam., bears N. 52° E., 326 lks. dist., mkd. T26N R3W S34 BT.</p> <p>Set a 55 gal. metal barrel, painted orange, W. of the iron post, 6 lks. dist., at the center of a cleared area, 50 ft. in diam.</p> <p>This cor. is on rolling ground approximately 11.40 chs. NE. of a small lake.</p>
<p>160.00</p>	<p>West bet. Tps. 25 and 26 N., beginning a new distance.</p> <p>Point for the cor. of Secs. 5, 6, 31 and 32, not monumented.</p>
<p>238.62</p>	<p>The cor. of Tps. 25 and 26 N., Rs. 3 and 4 W.</p>
<p><u>AREA</u></p>	
<p>Gross Area 23,006.88 Acres</p> <p>Exclusions: None</p> <p>Net Area 23,006.88 Acres</p>	
<p><u>GENERAL DESCRIPTION</u></p>	
<p>This survey is situated approximately 8 miles Southeast of the small town of Talkeetna, Alaska.</p> <p>The land is rolling hills with some small unnamed streams in the Southeast portion. Elevations in this survey are from 900 ft. in the western portion to 2300 ft. in the eastern portion.</p> <p>The soil consists of sandy silt and clay in the higher elevations, and silt and muck at the lower elevations.</p> <p>The timber consists of spruce and birch and cottonwood, the underbrush is willow and alder.</p> <p>There are no roads in the area, transportation of personnel and equipment for the execution of this survey was accomplished by helicopter.</p>	

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Wallace E. Smith	Cadastral Surveyor
Dean Conklin	Cadastral Surveyor
John Baldessari	Cadastral Surveyor
Arvel Thomas	Cadastral Surveyor
Jerry Ambercrombie	Cadastral Surveyor
James A. Rhea	Surveying Technician
Jerome C. Ives	Surveying Technician
John P. Lamb	Surveying Technician
Joe Dombrowski	Surveying Technician
Robert Pond	Surveying Aid
Larry Langton	Surveying Aid
Ornie Oskolkoff	Surveying Aid
Greig Walker	Surveying Aid
Harry Torbert	Surveying Aid

CERTIFICATE OF SURVEY

(X) (We), Frederick W. Ward, Louis L. Doerr, HEREBY  
Supplemental 27  
CERTIFY upon honor that, in pursuance of special instructions bearing date of the 27 day  
August 1963  
of June, 19 62, (X) (We) have surveyed the East, West and North  
boundaries of Township 25 North, Range 3 West

of the Seward Meridian, in the State of Alaska, which  
are represented in the foregoing field notes as having been executed by (X) (us) and under (X) (our)  
(our) direction; and that said survey has been made in strict conformity with said special instruc-  
tions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in  
specific manner described in the foregoing field notes.

Jan. 8, 1969 /s/ Frederick W. Ward  
(Date) (Cadastral Surveyor)  
Frederick W. Ward  
Supervisory Cadastral Surveyor  
Jan. 3, 1969 /s/ Louis L. Doerr  
(Date) (Cadastral Surveyor)  
Louis L. Doerr  
Supervisory Surveying Technician  
CERTIFICATE OF APPROVAL

SUBMITTED FOR APPROVAL

BUREAU OF LAND MANAGEMENT  
Washington, D.C.

Date Jan. 16, 1969

The foregoing field notes of the survey of the East, West and North boundaries  
of Township 25 North, Range 3 West, Seward Meridian,

Frederick W. Ward, Supervisory Cadastral Surveyor  
executed by Louis L. Doerr, Supervisory Surveying Technician  
having been critically examined and found correct, are hereby approved.

May 2, 1969 /s/ Clark L. Gumm  
(Date) (Chief, Division of Cadastral Survey)  
Chief, Division of Cadastral Survey

~~CERTIFICATE OF TRANSCRIPT~~

~~I CERTIFY That the foregoing transcript of the field notes of the above-described surveys in  
is a true copy of the original field notes.~~

~~(Date) (Chief, Division of Cadastral Survey) GPO 1969-626~~

# REMONUMENTATION

The remonumentation field notes must be submitted in duplicate to the Washington office. A third copy may be made for retention in the originating office files. In the upper right hand corner of the cover page will be stamped ORIGINAL, DUPLICATE OR TRIPLICATE.

## COVER PAGE

The cover page must be filled out with a complete and comprehensive description of the remonumentation, township, range, meridian, state, executed by, date of Special Instructions, group number, approval date of both original and supplemental or amended Special Instructions, date of assignment instructions and dates remonumentation commenced and completed.

Particular care must be taken to be certain that the dates of the Special and Supplemental or Amended Instructions, dates of approval of Special and Supplemental or Amended Instructions, and date of assignment instructions agree with the group file copy.

In so far as is possible, the information should be centered to present a neat, symmetrical appearance.

## INDEX

The index diagram must be completed and if it is not a carbon of the original on each set of notes, the copy must be compared with the original for accuracy.

If more than one township is covered in the field notes, a separate index diagram must be completed for the corners appearing in each township.

The note page numbers will be placed to the right of meridional lines and above latitudinal lines whenever possible.

## BODY OF NOTES

The body of the notes will consist of a listing of the corners remonumented. The order of the listing will conform to the normal method of writing lines. The corners on the township boundaries are described first and then the township subdivisional corners are described.

Each page of the notes will be numbered at the top center and a heading which shows the township, range, meridian and state will be placed under the page number.

The introductory statements only consist of the location of the remonumentation, authority for job, who requested the project and the mean magnetic declination.

A subheading describing the line on which the corner falls precedes the description of all corners on that line.

The present corner evidence must be fully described. If the original monument is available it must be described as follows:

1. Stone or stake - kind, size, marks, set (firmly, loosely), how far projecting above ground or below ground.
2. Iron post - size, marks, set, how far projecting above ground.

Any original corner accessories must be fully described, starting in the Northeast quadrant and proceeding clockwise around the corner point. If the bearing and/or distance to the accessory from the corner point does not conform to the record so indicate the record in the notes.

A full and complete description of the monument set, including kind, size, marks and how far in the ground must be given. All new accessories must be fully described, in the proper sequence.

The disposition of the original monument must be shown.

The list of field assistants and the certificate of survey must be completed.



# INDEX DIAGRAM

Township 31 SOUTH, Range 13 EAST

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			<u>1</u> <u>1</u>				

## T. 31 S., R. 13 E., Willamette Meridian, Oregon

## CHAINS

The following field notes describe the remonumentation of certain original corner points, township 31 south, range 13 east, of the Willamette Meridian, Oregon, as provided for in the General Special Instructions, Group No. 350, Oregon, dated May 3, 1957, "Investigation of Collateral or Physical Evidence of Corner Positions and Accessories Followed by Remonumentation of Corner Points, with New Accessories when Needed."

The remonumentation of original corner points was made at the request of the United States Forest Service, in conjunction with their Land Line Location Program. The mean magnetic declination is 20° E.

South Boundary, T. 31 S., R. 13 E.,  
Willamette Meridian, Oregon

Remonumenting corners established by William B. Pengra, in 1869, and rehabilitated by Rufus S. Moore and Henry Meldrum, in 1895

The  $\frac{1}{4}$  sec. cor. of secs. 4 and 33, on the S. bdy. of the Tp., monumented with the original basalt stone, 13 x 10 x 6 ins., firmly set 9 ins. in the ground, mkd.  $\frac{1}{4}$  on the N. face, from which bearing trees mkd. by Moore and Meldrum, in 1895:

A pine, 20 ins. diam., bears N. 49° W., 33 lks. dist., with healed blaze.

A sawed pine stump, 50 ins. diam., bears S. 43° E., 21 lks. dist., with no marks remaining.

At the corner point

Set an iron post, 28 ins. long, 2 $\frac{1}{2}$  ins. diam., 24 ins. in the ground, with brass cap mkd.

T 31 S  
S 33  
 $\frac{1}{4}$  S 4  
T 32 S R 13 E  
1968

from which new bearing trees

A pine, 5 ins. diam., bears N. 1 $\frac{1}{2}$ ° E., 17 lks. dist., mkd.  $\frac{1}{4}$  S33 BT.

A pine, 8 ins. diam., bears S. 48 $\frac{3}{4}$ ° W., 66 $\frac{1}{2}$  lks. dist., mkd.  $\frac{1}{4}$  S4 BT.

Deposit the original corner stone alongside iron post.

The cor. of secs. 4, 5, 32 and 33 on the S. bdy. of the Tp., determined at record bearing and distance from the original bearing tree:

A pine, 42 ins. diam., bears N. 57° E., 39 lks. dist., with healed blaze.

and bearing trees mkd. by Rufus S. Moore and Henry Meldrum in 1895.

Remonumentation of Certain Original Corner Points,  
T. 31 S., R. 13 E., Willamette Meridian, Oregon

## CHAINS

A lodge pole pine snag, 22 ins. diam., bears  
S.  $70\frac{1}{4}^{\circ}$  E., 147 lks. dist., with scribe marks  
T32S R13E S4 BT visible on open blaze.

A down pine, 18 ins. diam., bears S.  $12^{\circ}$  W.,  
133 lks. dist., with fragmentary scribe marks  
visible on open blaze. This tree has been  
uprooted and displaced due to road construc-  
tion. (Record, S.  $33\frac{1}{2}^{\circ}$  W., 130 lks.)

A sawed pine stump, 46 ins. diam., bears  
N.  $12^{\circ}$  W., 73 lks. dist., with scribe marks  
T31S R13E S32 BT visible on open blaze.

At the corner point

Set an iron post, 28 ins. long,  $2\frac{1}{2}$  ins. diam., 24 ins. in  
the ground, with brass cap mkd.

T 31 S R 13 E
S 32   S 33
S 5   S 4
T 32 S
1968

from which new bearing trees

A pine, 7 ins. diam., bears N.  $22\frac{3}{4}^{\circ}$  E.,  $63\frac{1}{2}$  lks.  
dist., mkd. T31S R13E S33 BT.

A pine, 9 ins. diam., bears S.  $52\frac{1}{2}^{\circ}$  E., 71 lks.  
dist., mkd. T32S R13E S4 BT.

A pine, 15 ins. diam., bears S.  $28^{\circ}$  W., 154 lks.  
dist., mkd. T32S R13E S5 BT.

A pine, 10 ins. diam., bears N.  $41\frac{3}{4}^{\circ}$  W., 98 lks.  
dist., mkd. T31S R13E S32 BT.

East Boundary, T. 31 S., R. 13 E.,  
Willamette Meridian, Oregon

Remonumenting corners established by David P. Thompson,  
in 1865

The  $\frac{1}{4}$  sec. cor. of secs. 19 and 24, on the E. bdy. of  
the Tp., determined at record bearing and distance from  
the original bearing tree:

A pine, 50 ins. diam., bears N.  $15^{\circ}$  E., 200 lks.  
dist., with fragmentary scribe marks visible  
on open blaze.

At the corner point

Set an iron post, 28 ins. long,  $2\frac{1}{2}$  ins. diam., 14 ins. in  
the ground, to bedrock mkd. X, and in a mound of stone,  
3 ft. base to top, with brass cap mkd.

$\frac{1}{4}$
S 24   S 19
R 13 E   R 14 E
T 31 S
1968

from which new bearing trees

Remonumentation of Certain Original Corner Points,  
T. 31 S., R. 13 E., Willamette Meridian, Oregon

## CHAINS

A pine, 23 ins. diam., bears N. 73° E., 147 lks.  
dist., mkd. ¼ S19 BT.

A pine, 11 ins. diam., bears N. 12° W., 174½ lks.  
dist., mkd. ¼ S24 BT.

The cor. of secs. 13, 18, 19, and 24, on the E. bdy. of  
the Tp., monumented with the original basalt stone, 16 x  
10 x 8 ins., firmly set 10 ins. in the ground, and in a  
mound of stone, 2 ft. base, 1 ft. high, mkd. with 3  
notches on the N. and 3 notches on the S. edge.

At the corner point

Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in  
the ground, and in a mound of stone, 2 ft. base, to top,  
with brass cap mkd.

T 31 S	
R 13 E	R 14 E
S 13	S 18
S 24	S 19
1968	

from which

A lodge pole pine, 9 ins. diam., bears N. 32° E.,  
210 lks. dist., mkd. T31S R14E S18 BT.

A lodge pole pine, 12 ins. diam., bears N. 13½° W.,  
213 lks. dist., mkd. T31S R13E S13 BT.

Deposit the original corner stone alongside iron  
post.

Remonumenting a corner established by David P. Thompson,  
in 1865, and rehabilitated by Rufus S. Moore and  
Henry Meldrum, in 1895

The cor. of secs. 7, 12, 13, and 18, on the E. bdy. of  
the Tp., monumented with the original basalt stone, 18 x  
16 x 8 ins., firmly set 14 ins. in the ground, mkd. with  
4 notches on the S. edge, from which the original bearing  
tree:

A root hole, bears N. 65° E., 38 lks. dist., with  
a down pine alongside, 20 ins. diam., with frag-  
mentary scribe marks visible on decayed blaze.

and bearing trees mkd. by Rufus S. Moore and Henry  
Meldrum, in 1895

A pine, 18 ins. diam., bears S. 35¾° E., 38 lks.  
dist., with healed blaze.

A pine, 20 ins. diam., bears S. 62° W., 26 lks.  
dist., with fragmentary scribe marks visible  
on open blaze.

A pine, 16 ins. diam., bears N. 64° W., 5 lks.  
dist., with fragmentary scribe marks visible  
on open blaze.

At the corner point

Remonumentation of Certain Original Corner Points,  
T. 31 S., R. 13 E., Willamette Meridian, Oregon

CHAINS	
	<p>Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">           T 31 S            R 13 E   R 14 E            S 12   S 7            S 13   S 18            1968         </p> <p>from which a new bearing tree</p> <p>A pine, 19 ins. diam., bears N. 76° E., 85 lks. dist., mkd. T31S R14E S7 BT.</p> <p>Deposit the original corner stone alongside iron post.</p>
	<p>Remonumenting corners established by David P. Thompson, in 1865</p>
	<p>The ¼ sec. cor. of secs. 7 and 12, on the E. bdy. of the Tp., determined at record distance from the original bearing trees:</p> <p>A root hole, bears S. 45° E., 264 lks. dist., with a down pine alongside, 25 ins. diam., with scribe marks ¼ S BT visible on open blaze. (Record, S. 50° E.)</p> <p>A pine snag, 22 ins. diam., bears S. 56½° W., 262 lks. dist., with scribe marks ¼ S BT visible on open blaze. (Record, S. 45° W.)</p> <p>At the corner point</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">           ¼            S 12   S 7            R 13 E   R 14 E            T 31 S            1968         </p> <p>from which new bearing trees</p> <p>A lodge pole pine, 18 ins. diam., bears S. 44¾° E., 227 lks. dist., mkd. ¼ S7 BT.</p> <p>A lodge pole pine, 20 ins. diam., bears S. 61° W., 247 lks. dist., mkd. ¼ S12 BT.</p> <p>The corner point is located in barbed wire fence, bears North and South.</p> <p>The cor. of secs. 1, 6, 7 and 12, on the E. bdy. of the Tp., determined at record bearing and distance from the original bearing tree:</p> <p>A root hole, bears N. 22° E., 168 lks. dist., with a down pine alongside, 18 ins. diam., with fragmentary scribe marks visible on partially healed blaze.</p> <p>At the corner point</p>

Remonumentation of Certain Original Corner Points,  
T. 31 S., R. 13 E., Willamette Meridian, Oregon

CHAINS

Set an iron post, 28 ins. long, 2½ ins. diam., 20 ins. in the ground, with brass cap mkd.

T 31 S  
R 13 E | R 14 E  
S 1 | S 6  
S 12 | S 7  
1968

from which new bearing trees

A pine, 10 ins. diam., bears N. 52½° E., 6½ lks. dist., mkd. T31S R14E S6 BT.

A pine, 8 ins. diam., bears S. 15° E., 7 lks. dist., mkd. T31S R14E S7 BT.

A pine, 11 ins. diam., bears N. 43° W., 156½ lks. dist., mkd. T31S R13E S1 BT.

The ¼ sec. cor. of secs. 1 and 6, on the E. bdy. of the Tp., determined at record distance from the original bearing trees:

A pine, 19 ins. diam., bears N. 58° E., 19 lks. dist., with fragmentary scribe marks visible on decayed blaze. (Record, N. 50° E.)

A pine, 26 ins. diam., bears N. 8° W., 26 lks. dist., with fragmentary scribe marks visible on partially healed blaze.

At the corner point

Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.

¼  
S 1 | S 6  
R 13 E | R 14 E  
T 31 S  
1968

from which new bearing trees

A pine, 6 ins. diam., bears S. 26½° E., 29½ lks. dist., mkd. ¼ S6 BT.

A pine, 6 ins. diam., bears S. 13° W., 63 lks. dist., mkd. ¼ S1 BT.

West Boundary, T. 31 S., R. 13 E.,  
Willamette Meridian, Oregon

Remonumenting a corner established by Rufus S. Moore  
and Henry Meldrum, in 1895

The cor. of secs. 1, 6, 7 and 12 on the W. bdy. of the Tp., monumented with the original basalt stone, 18 x 14 x 7 ins., firmly set 9 ins. in the ground, mkd. with 1 groove on the N. face and 5 grooves on the S. face, from which the original bearing trees:

A root hole, bears N. 75½° E., 34 lks. dist., with a down pine alongside, 10 ins. diam., no marks

Remonumentation of Certain Original Corner Points,  
T. 31 S., R. 13 E., Willamette Meridian, Oregon

CHAINS

remaining.

A lodge pole pine, 10 ins. diam., bears S.  $47\frac{3}{4}^{\circ}$  E.,  
57 lks. dist., with scribe marks T31S R13E S7 BT  
visible on open blaze. (Record, S.  $49\frac{1}{2}^{\circ}$  E.)

A fir, 41 ins. diam., bears S.  $46^{\circ} 45'$  W., 45 lks.  
dist., with healed blaze.

A lodge pole pine, 11 ins. diam., bears N.  $79\frac{1}{2}^{\circ}$  W.,  
28 lks. dist., with scribe marks T31S R12E S1 BT  
visible on unhealed blaze.

At the corner point

Set an iron post, 28 ins. long,  $2\frac{1}{2}$  ins. diam., 24 ins. in  
the ground, with brass cap mkd.

T	31	S
R	12	E   R 13 E
S	1	S 6
S	12	S 7
1968		

from which new bearing trees

A lodge pole pine, 7 ins. diam., bears N.  $57\frac{1}{2}^{\circ}$  E.,  
23 lks. dist., mkd. T31S R13E S6 BT.

A lodge pole pine, 6 ins. diam., bears S.  $43\frac{1}{4}^{\circ}$  E.,  
22 $\frac{1}{2}$  lks. dist., mkd. T31S R13E S7 BT.

A lodge pole pine, 6 ins. diam., bears S.  $64\frac{1}{2}^{\circ}$  W.,  
23 $\frac{1}{2}$  lks. dist., mkd. T31S R12E S12 BT.

A lodge pole pine, 7 ins. diam., bears N.  $31^{\circ}$  W.,  
12 $\frac{1}{2}$  lks. dist., mkd. T31S R12E S1 BT.

Deposit the original corner stone alongside iron  
post.

Remonumenting corners established by Rufus S. Moore and  
Henry Meldrum, in 1895

The  $\frac{1}{4}$  sec. cor. of secs. 23 and 24, determined at record  
distance from the original bearing trees:

A root hole, bears S.  $72\frac{3}{4}^{\circ}$  E., 18 lks. dist., with  
a down lodge pole pine alongside, 15 ins. diam.,  
with scribe marks  $\frac{1}{4}$  S BT visible on unhealed  
blaze.

A root hole, bears N.  $19\frac{3}{4}^{\circ}$  W., 37 lks. dist., with  
a down lodge pole pine alongside, 12 ins. diam.,  
with scribe marks  $\frac{1}{4}$  S BT visible on open blaze.  
(Record, N.  $23\frac{3}{4}^{\circ}$  W.)

At the corner point

Set an iron post, 28 ins. long,  $2\frac{1}{2}$  ins. diam., 24 ins. in  
the ground, with brass cap mkd.

$\frac{1}{4}$
S 23   S 24
T 31 S R 13 E
1968

Remuneration of Certain Original Corner Points,  
T. 31 S., R. 13 E., Willamette Meridian, Oregon

## CHAINS

from which new bearing trees

A lodge pole pine, 8 ins. diam., bears N. 45° E.,  
10½ lks. dist., mkd. ¼ S24 BT.

A lodge pole pine, 6 ins. diam., bears N. 66° W.,  
41½ lks. dist., mkd. ¼ S23 BT.

The cor. of secs. 13, 14, 23 and 24, determined at record  
distance from the original bearing tree:

A root hole, bears N. 15° E., 723 lks. dist., with a  
down pine alongside, 32 ins. diam., with fragmen-  
tary scribe marks visible on decayed blaze.  
(Record, N. 12¼° E.)

A pine snag, 19 ins. diam., bears S. 51¼° E., 200 lks  
dist., with scribe marks T31S R13E S24 BT visible  
on open blaze. (Record, S. 53¾° E.)

A root hole, bears S. 28½° W., 288 lks. dist., with  
a down pine alongside, 25 ins. diam., with frag-  
mentary scribe marks visible on decayed blaze.  
(Record, S. 25° 20' W.)

A root hole, bears N. 41½° W., 327 lks. dist., with  
a down pine alongside, 19 ins. diam., with scribe  
marks T31S R13E S14 BT visible on open blaze.

At the corner point

Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in  
the ground, with brass cap mkd.

T 31 S R 13 E
S 14   S 13
S 23   S 24
1968

from which new bearing trees

A lodge pole pine, 9 ins. diam., bears N. 40° E.,  
299 lks. dist., mkd. T31S R13E S13 BT.

A lodge pole pine, 7 ins. diam., bears S. 32¾° E.,  
135½ lks. dist., mkd. T31S R13E S24 BT.

A lodge pole pine, 13 ins. diam., bears S. 8° W.,  
188 lks. dist., mkd. T31S R13E S23 BT.

A lodge pole pine, 9 ins. diam., bears N. 29¼° W.,  
42½ lks. dist., mkd. T31S R13E S14 BT.

The corner point is located in a barbed wire fence, bears  
East and West.

The ¼ sec. cor. of secs. 13 and 24, monumented with the  
original basalt stone, 14 x 12 x 7 ins., firmly set 10 ins.  
in the ground, mkd. ¼ on the N. face, from which the orig-  
inal bearing trees:

A pine, 23 ins. diam., bears N. 43° W., 59 lks. dist.,  
with scribe marks ¼ S BT visible on open blaze.  
(Record, N. 45° W.)

Remonumentation of Certain Original Corner Points,  
T. 31 S., R. 13 E., Willamette Meridian, Oregon

## CHAINS

A pine, 30 ins. diam., bears S. 56° E., 38 lks. dist., with scribe marks  $\frac{1}{4}$  S BT visible on open blaze.

At the corner point

Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.

$$\begin{array}{r} \text{S } 13 \\ \frac{1}{4} \text{ S } 24 \\ \hline \text{T } 31 \text{ S } \text{ R } 13 \text{ E} \\ 1968 \end{array}$$

from which new bearing trees

A pine, 5 ins. diam., bears N. 76° W., 46 lks. dist., mkd.  $\frac{1}{4}$  S13 BT.

A pine, 10 ins. diam., bears S. 15° E., 100½ lks. dist., mkd.  $\frac{1}{4}$  S24 BT.

Deposit the original corner stone alongside iron post.

The cor. of secs. 11, 12, 13 and 14, monumented with the original basalt stone, 12 x 12 x 10 ins., loosely set on top of the ground, mkd. with 1 groove on the E. face and 4 grooves on the S. face, from which the original bearing trees:

A root hole, bears N. 8½° E., 569 lks. dist., with a down pine alongside, 19 ins. diam., with scribe marks T31S R13E S12 BT visible on open blaze.

A root hole, bears S. 7° E., 374 lks. dist., with a down pine alongside, 16 ins. diam., with fragmentary scribe marks visible on open blaze.

A lodge pole pine, 23 ins. diam., bears S. 10° 05' W. 426½ lks. dist., with scribe marks T31S R13E S14 BT visible on open blaze.

A root hole, bears N. 11¼° W., 452 lks. dist., with a down pine alongside, 23 ins. diam., with scribe marks T31S R13E S11 BT visible on open blaze.

At the corner point

Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.

$$\begin{array}{r} \text{T } 31 \text{ S } \text{ R } 13 \text{ E} \\ \text{S } 11 \text{ S } 12 \\ \text{S } 14 \text{ S } 13 \\ \hline 1968 \end{array}$$

from which new bearing trees

A lodge pole pine, 6 ins. diam., bears N. 9° E., 403 lks. dist., mkd. T31S R13E S12 BT.

A lodge pole pine, 9 ins. diam., bears S. 10½° E., 402 lks. dist., mkd. T31S R13E S13 BT.

A lodge pole pine, 9 ins. diam., bears S. 21¼° W., 435 lks. dist., mkd. T31S R13E S14 BT.

Remonumentation of Certain Original Corner Points,  
T. 31 S., R. 13 E., Willamette Meridian, Oregon

## CHAINS

from which new bearing trees

- A lodge pole pine, 3 ins. diam., bears N. 32° E.,  
22½ lks. dist., mkd. X BT.
- A lodge pole pine, 13 ins. diam., bears S. 78½° E.,  
10½ lks. dist., mkd. T31S R13E S12 BT.
- A lodge pole pine, 3 ins. diam., bears S. 32½° W.,  
68½ lks. dist., mkd. X BT.
- A lodge pole pine, 5 ins. diam., bears N. 50° W.,  
41 lks. dist., mkd. T31S R13E S2 BT.

The ¼ sec. cor. of secs. 26 and 27, determined at record bearing and distance from the original bearing trees:

- A lodge pole pine, 17 ins. diam., bears S. 56½° E.,  
92 lks. dist., with scribe marks ¼ S BT visible  
on open blaze.
- A pine, 35 ins. diam., bears N. 53° W., 77 lks. dist.  
with scribe marks ¼ S BT visible on open blaze.

At the corner point

Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in  
the ground, with brass cap mkd.

¼  
S 27 | S 26  
T 31 S R 13 E  
1968

from which new bearing trees

- A pine, 13 ins. diam., bears S. 70¾° E., 22 lks.  
dist., mkd. ¼ S26 BT.
- A pine, 7 ins. diam., bears N. 54½° W., 36½ lks.  
dist., mkd. ¼ S27 BT.

The cor. of secs. 22, 23, 26 and 27, monumented with the  
original basalt stone, loosely set 6 ins. in the ground  
mkd. with 2 grooves on the E. face and 2 grooves on the S.  
face, alongside of which is an iron pipe, ¾ in. diam.,  
firmly set, projecting 12 ins. above the ground, from  
which the original bearing trees:

- A pine, 41 ins. diam., bears N. 51° E., 114 lks.  
dist., with fragmentary scribe marks visible  
on partially healed blaze.
- A root hole, bears S. 20° E., 4 lks. dist., with  
a down pine alongside, 16 ins. diam., with frag-  
mentary scribe marks visible on decayed blaze.
- A pine snag, 22 ins. diam., bears S. 85° W., 32 lks.  
dist., with scribe marks T31S R13E S27 BT visible  
on open blaze. (Record, 34 lks.)
- A root hole, bears N. 44° W., 46 lks. dist., with  
a down pine alongside, 20 ins. diam., no marks  
visible.

At the corner point

Remonumentation of Certain Original Corner Points,  
T. 31 S., R. 13 E., Willamette Meridian, Oregon

CHAINS

Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.

T 31 S R 13 E  
S 22 | S 23  
S 27 | S 26  
1968

from which new bearing trees

A pine, 8 ins. diam., bears N. 38½° E., 36 lks. dist., mkd. T31S R13E S23 BT.

A pine, 8 ins. diam., bears S. 59° E., 29 lks. dist., mkd. T31S R13E S26 BT.

A pine, 8 ins. diam., bears S. 8° W., 19 lks. dist., mkd. T31S R13E S27 BT.

A pine, 6 ins. diam., bears N. 48° W., 61½ lks. dist., mkd. T31S R13E S22 BT.

Deposit the original corner stone, and reset the iron pipe alongside iron post.

The ¼ sec. cor. of secs. 23 and 26, determined at record bearing and distance from the original bearing trees:

A sawed pine stump, 23 ins. diam., bears N. 49° E., 31 lks. dist., with fragmentary scribe marks visible on decayed blaze.

A decayed pine stump, 9 ins. diam., bears S. 68½° W., 32 lks. dist., no marks remaining.

At the corner point

Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.

¼ S 23  
¼ S 26  
T 31 S R 13 E  
1968

from which new bearing trees

A pine, 7 ins. diam., bears N. 60¼° W., 51 lks. dist., mkd. ¼ S23 BT.

A pine, 6 ins. diam., bears S. 12° E., 59 lks. dist., mkd. ¼ S26 BT.

The ¼ sec. cor. of secs. 22 and 23, monumented with a basalt stone 16 x 10 x 10 ins., loosely set 8 ins. in the ground, from which the original bearing trees:

A pine stump, 20 ins. diam., bears S. 42° E., 28 lks. dist., with a down pine alongside, with scribe marks ¼ S BT visible on open blaze.

A root hole, bears S. 36° W., 55 lks. dist., with a down and burned pine alongside, 15 ins. diam., no marks remaining.

At the corner point

Remonumentation of Certain Original Corner Points,  
T. 31 S., R. 13 E., Willamette Meridian, Oregon

## CHAINS

Set an iron post, 28 ins. long,  $2\frac{1}{2}$  ins. diam., 18 ins. in the ground, to bedrock, mkd. X, and in a mound of stone, 3 ft. base, to top, with brass cap mkd.

$\frac{1}{4}$   
S 22 | S 23  
T 31 S R 13 E  
1968

from which new bearing trees

A pine, 17 ins. diam., bears S.  $53\frac{1}{2}^{\circ}$  E.,  $96\frac{1}{2}$  lks. dist., mkd.  $\frac{1}{4}$  S23 BT.

A pine, 6 ins. diam., bears S.  $6^{\circ}$  W., 102 lks. dist., mkd.  $\frac{1}{4}$  S22 BT.

Deposit the original corner stone alongside iron post.

The cor. of secs. 14, 15, 22, and 23, determined at record distance from the original bearing trees:

A lodge pole pine, 15 ins. diam., bears N.  $67^{\circ}$  E., 9 lks. dist., with healed blaze. (Record, N.  $73^{\circ}$  E.)

A lodge pole pine snag, 15 ins. diam., bears S.  $28\frac{1}{2}^{\circ}$  E.,  $68\frac{1}{2}$  lks. dist., with scribe marks T31S R13E S23 BT visible on open blaze.

A lodge pole pine, 18 ins. diam., bears S.  $52\frac{1}{2}^{\circ}$  W., 70 lks. dist., with scribe marks T31S R13E S22 BT visible on open blaze.

A lodge pole pine stump, 7 ins. diam., bears N.  $12\frac{1}{2}^{\circ}$  W.,  $21\frac{1}{2}$  lks. dist., with a down pine alongside, with fragmentary scribe marks visible on decayed blaze.

At the corner point

Set an iron post, 28 ins. long,  $2\frac{1}{2}$  ins. diam., 24 ins. in the ground, with brass cap mkd.

T 31 S R 13 E  
S 15 | S 14  
S 22 | S 23  
1968

from which new bearing trees

A lodge pole pine, 6 ins. diam., bears N.  $25^{\circ}$  E., 61 lks. dist., mkd. T31S R13E S14 BT.

A pine, 6 ins. diam., bears S.  $45\frac{1}{2}^{\circ}$  E., 90 lks. dist., mkd. T31S R13E S23 BT.

A pine, 5 ins. diam., bears S.  $67\frac{1}{2}^{\circ}$  W.,  $52\frac{1}{2}$  lks. dist., mkd. T31S R13E S22 BT.

A lodge pole pine, 16 ins. diam., bears N.  $31^{\circ}$  W., 59 lks. dist., mkd. T31S R13E S15 BT.

The  $\frac{1}{4}$  sec. cor. of secs. 14 and 23, monumented with the original basalt stone, 14 x 10 x 8 ins., firmly set 8 ins. in the ground, mkd.  $\frac{1}{4}$  on the N. face, from which the original bearing trees:

Remonumentation of Certain Original Corner Points,  
T. 31 S., R. 13 E., Willamette Meridian, Oregon

CHAINS

A root hole, bears N.  $19^{\circ}$  E., 41 lks. dist., with a down pine alongside, 10 ins. diam., with scribe marks  $\frac{1}{4}$  S BT visible on open blaze.

A root hole, bears S.  $21\frac{1}{2}^{\circ}$  W., 28 lks. dist., with a down pine alongside, 14 ins. diam., with scribe marks  $\frac{1}{4}$  S BT visible on open blaze.

At the corner point

Set an iron post, 28 ins. long,  $2\frac{1}{2}$  ins. diam., 24 ins. in the ground, with brass cap mkd.

$$\begin{array}{r} \frac{1}{4} \text{ S } 14 \\ \text{S } 23 \\ \text{T } 31 \text{ S } \text{ R } 13 \text{ E} \\ 1968 \end{array}$$

from which new bearing trees

A lodge pole pine, 8 ins. diam., bears N.  $3^{\circ}$  W., 27 lks. dist., mkd.  $\frac{1}{4}$  S14 BT.

A lodge pole pine, 8 ins. diam., bears S.  $37^{\circ}$  E.,  $24\frac{1}{2}$  lks. dist., mkd.  $\frac{1}{4}$  S23 BT.

Deposit the original corner stone alongside iron post.

The  $\frac{1}{4}$  sec. cor. of secs. 14 and 15, determined at record distance from the original bearing trees:

A pine, 44 ins. diam., bears S.  $35^{\circ}$  E., 33 lks. dist., with scribe marks  $\frac{1}{4}$  S BT visible on open blaze.

A pine, 30 ins. diam., bears S.  $39^{\circ}$  W., 8 lks. dist., with scribe marks  $\frac{1}{4}$  S BT visible on open blaze. (Record, S.  $25^{\circ}$  W.)

At the corner point

Set an iron post, 28 ins. long,  $2\frac{1}{2}$  ins. diam., 24 ins. in the ground, with brass cap mkd.

$$\begin{array}{r} \frac{1}{4} \\ \text{S } 15 \text{ | } \text{S } 14 \\ \text{T } 31 \text{ S } \text{ R } 13 \text{ E} \\ 1968 \end{array}$$

The cor. of secs. 10, 11, 14 and 15, monumented with the original basalt stone, 12 x 12 x 7 ins., firmly set, 10 ins. in the ground, mkd. with 2 grooves on the E. face, and 4 notches on the S. edge, from which the original bearing trees:

A pine, 28 ins. diam., bears N.  $13\frac{1}{2}^{\circ}$  E., 24 lks. dist., with healed blaze.

A root hole, bears S.  $59\frac{1}{4}^{\circ}$  E., 55 lks. dist., with a down pine alongside, 8 ins. diam., no marks remaining.

A root hole, bears S.  $31\frac{3}{4}^{\circ}$  W., 15 lks. dist., with a down lodge pole pine alongside, 15 ins. diam., with fragmentary scribe marks visible on partially healed blaze.

Remonumentation of Certain Original Corner Points,  
T. 31 S., R. 13 E., Willamette Meridian, Oregon

## CHAINS

A down lodge pole pine, 13 ins. diam., bears N. 57° W., 46 lks. dist., with fragmentary scribe marks visible on open blaze. (Record, N. 68¼° W., 47½ lks.

At the corner point

Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.

T 31 S R 13 E
S 10   S 11
S 15   S 14
1968

from which new bearing trees

A lodge pole pine, 10 ins. diam., bears N. 66½° E., 25½ lks. dist., mkd. T31S R13E S11 BT.

A lodge pole pine, 8 ins. diam., bears S. 39½° E., 28½ lks. dist., mkd. T31S R13E S14 BT.

A lodge pole pine, 7 ins. diam., bears S. 77¼° W., 87 lks. dist., mkd. T31S R13E S15 BT.

A pine, 9 ins. diam., bears N. 5° W., 112½ lks. dist., mkd. T31S R13E S10 BT.

Deposit the original corner stone alongside iron post.

The ¼ sec. cor. of secs. 11 and 14, determined at record bearing and distance from the original bearing trees:

A lodge pole pine, 15 ins. diam., bears N. 72° W., 12 lks. dist., with scribe marks ¼ visible on open blaze.

A decayed pine stump, 6 ins. diam., bears S. 32° W., 5 lks. dist., no marks remaining.

At the corner point

Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.

¼ S 11
¼ S 14
T 31 S R 13 E
1968

from which new bearing trees

A lodge pole pine, 9 ins. diam., bears N. 54¼° E., 45½ lks. dist., mkd. ¼ S11 BT.

A lodge pole pine, 7 ins. diam., bears S. 22¼° W., 49 lks. dist., mkd. ¼ S14 BT.



CERTIFICATE OF SURVEY

(I) ~~(We)~~ James E. Jelley, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 3rd day of May, 19 57, (I) ~~(We)~~ have remonumented certain original corner points, township 31 south, range 13 east,

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

December 17, 1968

(Date)

*James E. Jelley*

(Cadastral Surveyor)

(Date)

(Cadastral Surveyor)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT  
Washington, D.C.

The foregoing field notes of the remonumentation of certain original corner points, township 31 south, range 13 east, Willamette Meridian, Oregon,

executed by James E. Jelley, Cadastral Surveyor, having been critically examined and found correct, are hereby approved.

(Date)

(Chief, Division of Cadastral Survey)

CERTIFICATE OF TRANSCRIPT

I CERTIFY That the foregoing transcript of the field notes of the above-described surveys in \_\_\_\_\_, is a true copy of the original field notes.

(Date)

(Chief, Division of Cadastral Survey) GPO 849-620

1. The first part of the document discusses the importance of maintaining accurate records of all transactions.

2. It then goes on to describe the various methods used to collect and analyze data.

3. The next section details the results of the study, showing a clear correlation between the variables.

4. Finally, the document concludes with a summary of the findings and recommendations for future research.

5. The authors note that further investigation is needed to confirm the results and explore the underlying mechanisms.

6. In conclusion, the study provides valuable insights into the relationship between the variables and offers practical suggestions.

7. The data collected over the course of the study supports the hypothesis that there is a significant impact.

8. The results are consistent with previous research in this field, suggesting a common trend.

9. The study also identifies several limitations and areas for future research to address.

10. Overall, the findings are promising and provide a solid foundation for further exploration.

11. The authors express their gratitude to the participants and funding agencies for their support.

12. The document is organized into several sections, each covering a different aspect of the study.

13. The methodology section provides a detailed account of the procedures used throughout the study.

14. The results section presents the data in a clear and concise manner, using tables and graphs.

15. The discussion section interprets the findings and relates them to the existing body of knowledge.

16. The conclusion summarizes the key points and offers a final perspective on the study's contributions.

17. The document is a comprehensive overview of the research project and its outcomes.

18. The authors hope that this work will inspire further research and contribute to the field.

# PHOTOGRAMMETRIC RESURVEYS

Photogrammetric resurveys are of specialized application where the lines are not run on the ground. All measurements are developed directly from the aerial photography by analytical aerotriangulation.

## COVER PAGE

The cover page must be filled out with a complete and comprehensive description of the surveys, meridian, state, executed by, date of Special Instructions, group number, approval date of both original and supplemental or amended Special Instructions, date of assignment instructions and dates survey commenced and completed.

Particular care must be taken to be certain that the dates of the Special and Supplemental or Amended Instructions, dates of approval of Special and Supplemental or Amended Instructions, and date of assignment instructions agree with the group file copy.

In so far as is possible, the information should be centered to present a neat, symmetrical appearance.

The cover page will be prepared at least in duplicate with the original and duplicate being sent to Washington. A third copy may be made for retention in the originating office files. In the upper right hand corner will be stamped ORIGINAL, DUPLICATE, OR TRIPLICATE.

# FIELD NOTES

OF THE

DEPENDENT RESURVEY OF A PORTION OF THE SEVENTH STANDARD PARALLEL NORTH,

THROUGH RANGE 94 WEST AND THE SUBDIVISIONAL LINES OF

TOWNSHIP 28 NORTH, RANGE 94 WEST

[Lined area for field notes]

Of the SIXTH PRINCIPAL Meridian,

In the State of WYOMING

### EXECUTED BY

Clifford A. Robinson, Supervisory Cadastral Surveyor

[Lined area for signature and date]

Under special instructions dated July 1, 19 65, which provided for the surveys  
included under Group Number 282, approved July 1, 1965  
July 1, 1965  
and assignment instructions dated August 16, 1965  
September 1, 1965  
October 12, 1966

Survey commenced July 1, 19 65

Survey completed June 14, 19 68

INDEX

The index diagram must be completed and if it is not a carbon of the original on each set of notes, the copy must be compared with the original for accuracy. If the survey does not follow the normal rectangular form, the index should conform to the actual configuration of the survey as much as possible.

The note page numbers will be placed to the right of meridional lines and above latitudinal lines whenever possible.

INDEX DIAGRAM

Township 28 North, Range 94 West

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#### INTRODUCTORY PARAGRAPHS

The introductory statements on page one of the field notes for photogrammetric resurveys must contain ten separate paragraphs as follows:

1. Description of survey.
2. History of previous surveys.
3. Authorization to use photogrammetric survey methods
4. Identification of control.
5. Use of control.
6. Statement concerning search for original corners.
7. Computation units.
8. Monumentation.
9. Geographic coordinates of point in survey.
10. Mean magnetic declination.

It is preferred that the paragraphs appear on page one in the order listed above. Each paragraph will be indented five spaces from the left margin and double spaced from the paragraph above.

The description of the survey must conform to the title page and state in narrative form just what survey was accomplished.

The history of previous surveys details the surveys that have been performed on those lines that are resurveyed and may be either in narrative or tabular form. In either case, the listing must be complete and will start with the earliest survey and end with the most recent survey. The history need only relate to the are being resurveyed even if it is very small and localized.

The paragraph concerning the geographic coordinates of a point in the survey will contain the method used to determine the point. The point in the survey will normally be the southeast corner of the township or lesser area surveyed. If the position of the point is calculated through surveyed lines from a triangulation station, the name of that station and its location by township, range and section should be given. The value of the geographic position should be given to the degree of precision consistent with the accuracy of the method used in obtaining it. Values to a tenth of a second may be given when calculated through an accurate tie to a nearby triangulation station.

The mean magnetic declination of the survey must be shown.

BODY OF NOTES

Each page will have a page number and heading centered on the above ruled line.

Under the paragraph about the mean magnetic declination, the identification of the present survey and which survey is being reestablished will be stated.

The main body of the notes consists of a listing of the corner monumentation. All topography and distances are placed on the plat only.

CHAINS

The following field notes are those of the dependent resurvey of a portion of the Seventh Standard Parallel North through R. 94 W., and of the subdivisional lines of T. 28 N., R. 94 W., of the Sixth Principal Meridian, Wyoming.

The north boundary, which is a portion of the Seventh Standard Parallel North, was surveyed by Wilbur C. Sampson, U.S. Deputy Surveyor, in 1882. The survey of the east, south and west boundaries and the subdivisional lines, plus a retracement of the north boundary, was executed by Frank S. Wood, U.S. Deputy Surveyor, in 1882. A retracement of both the south boundary and the east boundary was executed by Wilbur C. Sampson in 1882 and 1883, respectively. Carl W. Enix, Agricultural Engineer, dependently resurveyed the west boundary in 1963.

This township is one of seventeen townships resurveyed in accordance with the Supplemental Special Instructions for Group 282, Wyoming, authorizing application of photogrammetric survey methods in the execution of these dependent resurveys.

Horizontal and vertical control for the area was obtained from existing USC&GS and USGS triangulation stations, and further supplemented by the establishment of additional control stations by electronic traverse.

All control points, found corners and temporary points were targeted prior to the flying of the aerial photography. ALL MEASUREMENTS BETWEEN CORNERS WERE DEVELOPED DIRECTLY FROM THE AERIAL PHOTOGRAPHY. The method of analytical aerotriangulation adopted for this survey is outlined in Bulletin No. 21 published by the U.S. Coast and Geodetic Survey.

A diligent search was made for the original corners in the vicinity of the targeted temporary points. Whenever the original monument could not be recovered, the corner points were reestablished and monumented at proportionate positions, but only after exhausting every possibility of recovering any direct evidence of such corners.

All computations were made with the foot unit of measure, based on the West Central Zone of the Wyoming State Plane Coordinate System. These results were then transformed to the earth's surface and all distances have been converted to the chain units of measurement. The courses and distances between corners have been omitted from the field note record and appear only on the plat. All bearings shown on the plat are related to astronomical North.

The geographic position of the SE. corner of the township is Latitude: 42° 20' 56.78" N., and Longitude: 107° 59' 16.87" W.; and the coordinate positions for the four corners of the township in relation to Zone III of the Wyoming State Plane Coordinate System are as follows:

	<u>Y</u>	<u>X</u>
NE. Tp. corner	645 560	705 659
SE. Tp. corner	613 927	705 979
SW. Tp. corner	613 695	674 276
NW. Tp. corner	645 626	673 991

The mean magnetic declination was found to be 14 $\frac{3}{4}$ ° E.

## Dependent Resurvey of a portion of the Seventh Standard Parallel North, R. 94 W.

CHAINS

Dependent Resurvey of a Portion of the  
Seventh Standard Parallel North through R. 94 W.

Reestablishment of the Survey Executed by  
William C. Sampson, U. S. Deputy Surveyor, in 1882.

The standard cor. of T. 29 N., Rs. 93 and 94 W., an iron  
post, 3 ins. diam., projecting 6 ins. above ground, with  
brass cap mkd. as described in the official record.

from which

A mound of stone, 3 ft. base, 2 ft. high bears North,  
1 lks. dist.

The standard  $\frac{1}{4}$  sec. cor. of sec. 36, monumented with a  
granite stone, 16 x 14 x 10 ins., plainly mkd. SC  $\frac{1}{4}$  on  
N. face, firmly set 11 ins. in the ground.

At the corner point

Set an iron post, 28 ins. long,  $2\frac{1}{2}$  ins. diam., 22 ins. in  
the ground, with brass cap mkd.

T 29 N R 94 W  
S C  
 $\frac{1}{4}$  S 36  
1965

Bury the original corner stone alongside the iron post.

The standard cor. of secs. 35 and 36, monumented with a  
granite stone, 18 x 14 x 10 ins., plainly mkd. with 1  
notch on the E., 5 notches on the W. and SC on the N.  
faces, loosely set in the ground.

At the corner point

Set an iron post, 28 ins. long,  $2\frac{1}{2}$  ins. diam., 18 ins. in  
the ground, with brass cap mkd.

T 29 N R 94 W  
S C  
S 35 | S 36  
1965

Bury the original corner stone alongside the iron post.

Set a steel fence post 5 ft. S. of the corner.

(Continue Standard Parallel descriptions)

Dependent Resurvey of the Subdivisional Lines,  
T. 28 N., R. 94 W.

Reestablishment of the Survey Executed by  
Frank S. Wood, U. S. Deputy Surveyor, in 1882.

The cor. of secs. 1, 2, 35 and 36 on the S. bdy. of the  
Tp., an iron post,  $2\frac{1}{2}$  ins. diam., set, mkd. and witnessed  
as described in the field notes of the dependent resurvey

## Dependent Resurvey of the Subdivisional Lines, T. 28 N., R. 94 W.

## CHAINS

Point for the  $\frac{1}{4}$  sec. cor. of secs. 24 and 25, at proportionate distance. There is no remaining evidence of the original corner.

Set an iron post, 28 ins. long,  $2\frac{1}{2}$  ins. diam., 26 ins. in the ground, with brass cap mkd.

T 28 N R 94 W  
 $\frac{1}{4}$   $\frac{S}{S}$   $\frac{24}{25}$   
 1967

from which

A pine, 14 ins. diam., bears N.  $5^\circ$  W., 0.80 chs. dist., mkd.  $\frac{1}{4}$  S24 BT.

Set a steel fence post 4 ft. S.

Raise a mound of stone, 2 ft. base, 1 ft. high, N.

(Continue subdivision descriptions)

The  $\frac{1}{4}$  sec. cor. of secs. 5 and 6, monumented with a sandstone, 14 x 10 x 8 ins., plainly mkd.  $\frac{1}{4}$  on W. face, firmly set in a mound of stone.

At the corner point

Set an iron post, 28 ins. long,  $2\frac{1}{2}$  ins. diam., 16 ins. in the ground, encircled with a collar of stone, 3 ft. base, to top, with brass cap mkd.

T 28 N R 94 W  
 $\frac{1}{4}$   
 S 6 | S 5  
 1965

Bury the original corner stone alongside the iron post.

Set a steel fence post 5 ft. S. of the corner.

Point for the closing cor. of secs. 5 and 6, at intersection with the Seventh Standard Parallel North.

Set an iron post, 28 ins. long,  $2\frac{1}{2}$  ins. diam., 24 ins. in the ground, with brass cap mkd.

T 29 N R 94 W  
 $\frac{1}{4}$   
 S 33  
 S 6 | S 5  
 C | C  
 T 28 N R 94 W  
 1965

Set a steel fence post 4 ft. S. and raise a mound of stone, 2 ft. base, 1 ft. high, S. of the corner.

From the point of intersection the original closing cor. of secs. 5 and 6, monumented with a sandstone, 12 x 12 x 8 ins., dimly mkd. CC on S. face, firmly set in a mound of stone, bears S.  $0^\circ 48' E.$ , 0.96 chs. dist. I additionally marked the stone AM and buried 6 ins. below the surface of the ground.

From this same point, the std. cor. of secs. 32 and 33, T. 29 N., R. 94 W., hereinbefore described bears N.  $89^\circ 33' W.$ , 14.22 chs. dist.

## Dependent Resurvey of the Subdivisional Lines, T. 28 N., R. 94 W.

## CHAINS

The point for the N.  $\frac{1}{4}$  sec. cor. of sec. 5, T. 28 N., R. 94 W., is at midpoint and on the Tp. bdy.

Set an iron post, 28 ins. long,  $2\frac{1}{2}$  ins. diam., 25 ins. in the ground, with brass cap mkd.

—  $\frac{1}{4}$  S 5 —  
T 28 N R 94 W  
1966

Set a steel fence post 4 ft. S. of the corner.

From this corner the std. cor. of sec. 33, T. 29 N., R. 94 W., hereinbefore described, bears N.  $89^{\circ} 20'$  W., 13.87 chs. dist.

The point for the N.  $\frac{1}{4}$  sec. cor. of sec. 6, T. 28 N., R. 94 W., is at proportionate distance and on the Tp. bdy.

Set an iron post, 28 ins. long,  $2\frac{1}{2}$  ins. diam., 26 ins. in the ground, with brass cap mkd.

—  $\frac{1}{4}$  S 6 —  
T 28 N R 94 W  
1966

Set a steel fence post 4 ft. S. and raise a mound of stone, 3 ft. base, 2 ft. high, S. of the corner.

From this corner, the std.  $\frac{1}{4}$  sec. cor. of sec. 32, T. 29 N., R. 94 W., hereinbefore described, bears N.  $89^{\circ} 22'$  W., 14.22 chs. dist.

## GENERAL DESCRIPTION

The area embraced by this survey lies astride the west end of the Green Mountains. The entire township, with the exception of section 31, is heavy rolling terrain broken by numerous draws and washes. The soil, a sandy loam with rock fragments, supports a dense growth of sagebrush intermingled with some grasses suitable for limited grazing. There are several small patches of pine timber scattered along the north slopes of the mountains, but these are very few in number.

All drainage to the south of the summit of the Green Mountains trends southward and is tributary and secondary to East Alkali Creek, flowing west-northwesterly through the southwest quarter of the township. That drainage to the north trends northerly. Haypress Creek, fed by several small springs along its course, flows northerly through the second tier of sections from the east.

Numerous seismograph trail roads throughout the township testify to petroleum exploration in the past, but the most recent mineral activity has been the restaking of uranium claim locations.

The area is accessible from Jeffrey City, Wyoming, by going westerly on U.S. Highway No. 287, a distance of 7.5 miles to the Happy Springs junctions; then southerly on an improved gravel road a distance of approximately 6 miles to several trail roads leading southwesterly. At this point the northeast quarter of the township is within 2 miles and can be reached along any of these trail roads.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
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Preston, William R.	Surveying Aid
Ray, Ronnie P.	Surveying Aid
Ross, John R.	Surveying Aid
Taylor, Richard S.	Surveying Aid
Tompkinson, Fred	Surveying Aid





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