

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Original

FIELD NOTES

OF THE

DEPENDENT RESURVEY

OF A PORTION

OF THE BOULDER CANYON PROJECT FEDERAL RESERVATION BOUNDARY,

A PORTION OF THE EAST BOUNDARY, AND

A PORTION OF THE SUBDIVISIONAL LINES,

AND

THE SUBDIVISION OF SECTION 25,

TOWNSHIP 23 SOUTH, RANGE 63 1/2 EAST,

OF THE MOUNT DIABLO MERIDIAN,

IN THE STATE OF NEVADA

EXECUTED BY

Jose A. Serna, Cadastral Surveyor

Under Special Instructions dated January 29, 2013,

and approved January 29, 2013,

which provided for the surveys included under Group No. 921,

and Assignment Instructions dated January 29, 2013.

Survey commenced January 29, 2013

Survey completed April 12, 2013

INDEX DIAGRAM

TOWNSHIP 23 SOUTH, RANGE 63 1/2 EAST, MOUNT DIABLO MERIDIAN, NEVADA

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Portion of the Boulder Canyon Project Federal Reservation

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T. 23 S., R. 63 1/2 E., MOUNT DIABLO MERIDIAN, NEVADA

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| CHAINS | <p>The following field notes are those of the dependent resurvey of a portion of the Boulder Canyon Project Federal Reservation Boundary, a portion of the east boundary, and a portion of the subdivisional lines, and the subdivision of section 25, Township 23 South, Range 63 1/2 East, Mount Diablo Meridian, Nevada.</p> <p>The south, east and west boundaries of T. 23 S., R. 63 1/2 E., were independently resurveyed by U.S. Surveyor R. C. Yundt in 1931 under Group No. 169, superseding the survey executed by T. A. Magee, U.S. Deputy Surveyor, in 1882.</p> <p>The subdivisional lines of T. 23 S., R. 63 1/2 E., were independently resurveyed by U.S. Cadastral Engineer C. S. Swanholm in 1931 under Group No. 169.</p> <p>The Boulder Canyon Project Federal Reservation Boundary was surveyed by U.S. Cadastral Engineer C. S. Swanholm in 1931 under Group No. 169.</p> <p>The history of other surveys remote to the area are not included.</p> <p>Before restoring the corners, the lines of the original surveys were retraced and a diligent search made for any evidence of the original corners and other calls of the original field note record.</p> <p>The rules of proportionate measurement were applied in order to ascertain the position of lost corners, after completing the necessary retracements to connect with identified corner locations. In order to simplify the record, the true line notes only are supplied herewith, which refer to the completed survey.</p> <p>The survey was executed in accordance with the specifications set forth in the Manual of Surveying Instructions, 2009, and the Special Instructions for Group No. 921, dated January 29, 2013.</p> <p>Measurements were made with Trimble R8-3 Global Positioning System (GPS) receivers using the real-time kinematic (RTK) method. The direction of each line is with reference to the true meridian and are reported as mean bearings. The distances are reported as horizontal measurement at a mean ground elevation of 1,800 feet above sea level.</p> <p>The geographic positions, in NAD83 (2011), (EPOCH: 2010.0000) for the corners below were determined by GPS static observations processed by the National Geodetic Survey, Online Positioning User Service (OPUS), utilizing Continuous Operating Reference Stations (CORS) NVLM AMS WT FACILITY CORS ARP, NVTP TROPICANA CORS ARP, NVPO MT. POTOSI CORS ARP and carried forward by RTK observations.</p> <p>The 10th Mile Cor., of the Boulder Canyon Project Federal Reservation Boundary is as follows:</p> <p style="padding-left: 40px;">Latitude: 35°56'06.110" N. Longitude: 114°53'39.502" W.</p> <p>The cor. of secs. 25, 30, 31 and 36, on the E. bdy., is as follows:</p> <p style="padding-left: 40px;">Latitude: 35°55'13.905" N. Longitude: 114°52'36.790" W.</p> |
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T. 23 S., R. 63 1/2 E., MOUNT DIABLO MERIDIAN, NEVADA

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| CHAINS | <p>The January 29, 2013 mean magnetic declination was determined to be 12°03' E., as obtained from the National Oceanic and Atmospheric Administration's National Geophysical Data Center declination calculator.</p> <hr/> <p style="text-align: center;">Dependent Resurvey of a Portion of the Boulder Canyon Project Federal Reservation Boundary, T. 23 S., R. 63 1/2 E., Mount Diablo Meridian, Nevada</p> <hr/> <p style="text-align: center;">Reestablishment of a Portion of the Resurvey Executed by R.C. Yundt and C.S. Swanholm in 1931</p> <hr/> <p>Beginning at the 9th Mile Cor., monumented with an iron post, 3 ins. diam., firmly set, projecting 5 ins. above the ground, with brass cap mkd. as described in the field notes of the survey of the Boulder Canyon Project Federal Reservation, executed under Group No. 169.</p> <p>S. 89°59'00" W., on the 10th mile.</p> <p>Over gently rolling sandy land with scattered creosote brush.</p> <p>1.873 The closing cor. of secs. 19, 24, 25 and 30, established during the Independent Resurvey of the West Boundary of T. 23 S., R. 64 E., executed under Group No. 169, monumented with an iron post, 2 ins. diam., firmly set, projecting 4 ins. above the ground, with brass cap mkd. T23S R63½E R64E S19 S24 S25 S30 1931.</p> <p>Add marks to read.</p> <div style="text-align: center;"> <table border="0"> <tr><td>BCPFR</td></tr> <tr><td>T23S</td></tr> <tr><td>R63½E R64E</td></tr> <tr><td>S24 S19</td></tr> <tr><td>----- -----</td></tr> <tr><td>S25 S30</td></tr> <tr><td>CC</td></tr> <tr><td>1931</td></tr> <tr><td>2013</td></tr> </table> </div> <p>40.025 Point for the 9 1/2 Mile Cor., at proportionate distance; there is no remaining evidence of the position of the original corner.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 27 ins. in the ground, over a plastic-encased magnet, with brass cap mkd.</p> <div style="text-align: center;"> <table border="0"> <tr><td>9 ½ M</td></tr> <tr><td>BCPFR</td></tr> <tr><td>-----</td></tr> <tr><td>2013</td></tr> </table> </div> <p>41.70 Draw, drains south.</p> <p>41.896 The 1/4 sec. cor. of secs. 24 and 25, determined from the</p> | BCPFR | T23S | R63½E R64E | S24 S19 | ----- ----- | S25 S30 | CC | 1931 | 2013 | 9 ½ M | BCPFR | ----- | 2013 |
| BCPFR | | | | | | | | | | | | | | |
| T23S | | | | | | | | | | | | | | |
| R63½E R64E | | | | | | | | | | | | | | |
| S24 S19 | | | | | | | | | | | | | | |
| ----- ----- | | | | | | | | | | | | | | |
| S25 S30 | | | | | | | | | | | | | | |
| CC | | | | | | | | | | | | | | |
| 1931 | | | | | | | | | | | | | | |
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| 9 ½ M | | | | | | | | | | | | | | |
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| 2013 | | | | | | | | | | | | | | |

DEPENDENT RESURVEY OF A PORTION OF THE
BOULDER CANYON PROJECT FEDERAL RESERVATION BOUNDARY,
T. 23 S., R. 63 1/2 E., MOUNT DIABLO MERIDIAN, NEVADA

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| <p>CHAINS</p> | <p>recovery of a memorial, volcanic rock, 8x5x5 ins. (record, volcanic, 8x6x4 ins.), plainly mkd. with a cross "+" on one face, firmly set approximately 2 1/2 feet below the surface of the ground. This memorial was erroneously described as an accessory to the 9 1/2 Mile Cor. under Group No. 169, survey of the Boulder Canyon Project Federal Reservation Boundary. This position is harmoniously related to existing original corners and is accepted as the best available evidence of the position of the original corner.</p> <p>At the corner point</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 25 ins. in the ground, over a plastic-encased magnet, and in a collar of stone, with brass cap mkd.</p> <p style="text-align: center;">T23S R63 1/2E S24 1/4 — S25</p> <p style="text-align: center;">2013</p> <p>Buried the mkd. stone alongside the stainless steel post.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>WEST, continuing on the 10th mile.</p> <p>4.20 Center of dirt road, 15 lks. wide, bears NE and SW.</p> <p>8.377 Intersect the E. bdy. of sec. 24, T. 23 S., R. 63 E.</p> <p>The closing cor. of secs. 24 and 25, established during the Independent Resurvey of the East Boundary of T. 23 S., R. 63 E., executed under Group No. 169, monumented with an iron post, 2 ins. diam., firmly set, flush in a collar of stone, with brass cap mkd.</p> <p style="text-align: center;">T23S R63E R63½E S24 S24 S24 S25 CC 1931</p> <p>20.30 Draw, drains southwesterly.</p> <p>25.60 Draw, drains S. 20° W.</p> <p>36.40 Draw, drains S. 15° W.</p> <p>38.138 The 10th Mile Cor., monumented with an iron post, 3 ins. diam., firmly set, projecting 5 1/2 ins. above the ground, with brass cap mkd. as described in the field notes of the survey of the Boulder Canyon Project Federal Reservation, executed under Group No. 169.</p> <hr style="width: 20%; margin: 10px auto;"/> |
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DEPENDENT RESURVEY OF A PORTION OF THE EAST BOUNDARY,
T. 23 S., R. 63 1/2 E., MOUNT DIABLO MERIDIAN, NEVADA

| CHAINS | |
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| | <p>Reestablishment of a Portion of the Resurvey Executed by R.C. Yundt and C.S. Swanholm in 1931</p> <hr/> |
| | <p>From the cor. of secs. 25, 30, 31 and 36, monumented with an iron post, 2 ins. diam., firmly set flush with ground, with brass cap mkd. as described in the field notes of the independent resurvey of the west boundary of T. 23 S., R. 64 E., executed under Group No. 169, with a scattered mound of stone W. of cor.</p> |
| | <p>N. 0°00'30" E., bet. secs. 25 and 30.</p> |
| | <p>Over gently rolling sandy land with scattered creosote brush.</p> |
| 20.001 | <p>Point for the S 1/16 sec. cor. of secs. 25 and 30.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 25 ins. in the ground, over a plastic-encased magnet, with brass cap mkd.</p> |
| | <p>S 1/16</p> <p>S25 S30</p> <p>2013</p> |
| 40.002 | <p>The 1/4 sec. cor. of secs. 25 and 30, monumented with an iron post, 1 in. diam., firmly set, projecting 2 ins. above the ground, with brass cap mkd. as described in the field notes of the independent resurvey of the west boundary of T. 23 S., R. 64 E., executed under Group No. 169, with a scattered mound of stone, 2 ft. base, 1 ft. high, NW. of cor.</p> |
| | <hr/> <p>Dependent Resurvey of a Portion of the Subdivisional Lines, T. 23 S., R. 63 1/2 E., Mount Diablo Meridian, Nevada</p> <hr/> |
| | <p>Reestablishment of a Portion of the Resurvey Executed by R.C. Yundt and C.S. Swanholm in 1931</p> <hr/> |
| | <p>From the cor. of secs. 25, 30, 31 and 36, on the E. bdy. of the Tp., hereinbefore described.</p> |
| | <p>N. 89°59'20" W., bet. secs. 25 and 36.</p> |
| 20.003 | <p>Point for the E 1/16 sec. cor. of secs. 25 and 36.</p> <p>POINT NOT MONUMENTED</p> |
| 40.006 | <p>The 1/4 sec. cor. of secs. 25 and 36, monumented with an iron post, 1 in. diam., firmly set, projecting 5 ins. above the ground, with brass cap mkd. as described in the field notes of the independent resurvey of the subdivisional lines of T. 23 S., R. 63 1/2 E., executed under Group No. 169.</p> <hr/> |

SUBDIVISION OF SECTION 25,
T. 23 S., R. 63 1/2 E., MOUNT DIABLO MERIDIAN, NEVADA

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| CHAINS | <p>From the 1/4 sec. cor. of secs. 25 and 36.</p> <p>N. 0°00'30" W., on the N-S center line of sec. 25.</p> <p>Over gently rolling sandy land with scattered creosote brush.</p> |
| 19.986 | <p>Point for the C-S 1/16 sec. cor. of sec. 25.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 23 ins. in the ground, over a plastic-encased magnet, and in a collar of stone, with brass cap mkd.</p> <p style="text-align: center;"> $\begin{array}{c} C \\ S\ 1/16 \quad \quad S25 \\ C \end{array}$ </p> <p style="text-align: center;">2013</p> |
| 39.972 | <p>Point for the center 1/4 sec. cor. of sec. 25, at intersection with the E-W center line.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, over a plastic-encased magnet, with brass cap mkd.</p> <p style="text-align: center;"> T23S R63 1/2E C 1/4 S25 </p> <p style="text-align: center;">2013</p> |
| 49.30 | Power transmission line, bears N. 89° E. and S. 89° W. |
| 51.20 | Power transmission line, bears N. 89° E. and S. 89° W. |
| 52.50 | Bladed road, 24 lks. wide, bears N. 89° E. and S. 89° W. |
| 53.10 | Power transmission line, bears N. 89° E. and S. 89° W. |
| 55.00 | Power transmission line, bears N. 89° E. and S. 89° W. |
| 56.90 | Power transmission line, bears S. 89° E. and N. 89° W. |
| 58.80 | Power transmission line, bears S. 89° E. and N. 89° W. |
| 63.30 | Power transmission line, bears S. 89° E. and N. 89° W. |
| 79.80 | Bladed road, 15 lks. wide, bears S. 89° E. and N. 89° W. |
| 79.982 | The 1/4 sec. cor. of secs. 24 and 25. |
| | <hr/> <p>From the 1/4 sec. cor. of secs. 25 and 30, on the E. bdy. of the Tp.</p> <p>S. 89°58'10" W., on the E-W center line of sec. 25.</p> <p>Over gently rolling sandy land with scattered creosote brush.</p> |
| 20.007 | <p>Point for the C-E 1/16 sec. cor. of sec. 25.</p> <p>POINT NOT MONUMENTED</p> |

SUBDIVISION OF SECTION 25,
T. 23 S., R. 63 1/2 E., MOUNT DIABLO MERIDIAN, NEVADA

| CHAINS | |
|--------|---|
| 40.014 | The center 1/4 sec. cor. of sec. 25. |
| 48.506 | The 1/4 sec. cor. of sec. 25, on the W. bdy. of the Tp., monumented with an iron post, 1 in. diam., firmly set, projecting 7 ins. above the ground, with brass cap mkd. as described in the field notes of the independent resurvey of the subdivisional lines and establishment of quarter section corners between closing corners on the west boundary of T. 23 S., R. 63 1/2 E., executed under Group No. 169. |
| | <hr/> <p>From the point for the E 1/16 sec. cor. of secs. 25 and 36. NORTH, on the N-S center line of the SE1/4 of sec. 25. Over gently rolling sandy land with scattered creosote brush.</p> |
| 19.994 | Point for the SE 1/16 sec. cor. of sec. 25, at the intersection with the E-W center line of the SE1/4. Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, over a plastic-encased magnet, with brass cap mkd. |
| | SE 1/16 S25 2013 |
| 39.988 | The point for the C-E 1/16 sec. cor. of sec. 25. |
| | <hr/> <p>From the S 1/16 sec. cor. of secs. 25 and 30. S. 89°59'20" W., on the E-W center line of the SE1/4 of sec. 25. Over gently rolling sandy land with scattered creosote brush.</p> |
| 20.005 | The SE 1/16 sec. cor. of sec. 25. |
| 40.010 | The C-S 1/16 sec. cor. of sec. 25. |
| | GENERAL DESCRIPTION |
| | The lands included in this survey are located about 5 miles southwest of Boulder City, Nevada. The average elevation of the area surveyed is approximately 1800 feet above sea level and generally drains to the west. Vegetation consists mostly of creosote brush. |

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

Christopher S. Bourgoine

Range Technician

CERTIFICATE OF SURVEY

I, Jose A. Serna, Cadastral Surveyor, HEREBY CERTIFY upon honor that, in pursuance of Special Instructions bearing date of the 29th day of January, 2013, I have dependently resurveyed a portion of the Boulder Canyon Project Federal Reservation Boundary, a portion of the east boundary and a portion of the subdivisional lines, and subdivided section 25, Township 23 South, Range 63 1/2 East, of the Mount Diablo Meridian, in the State of Nevada, which are represented in the foregoing field notes as having been executed by me and under my direction; and that said survey has been made in strict conformity with said 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.

AUG 09 2013

(Date)

Jose A. Serna
(Cadastral Surveyor)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT
Reno, Nevada

The foregoing field notes of the dependent resurvey of a portion of the Boulder Canyon Project Federal Reservation Boundary, a portion of the east boundary and a portion of the subdivisional lines, and the subdivision of section 25, Township 23 South, Range 63 1/2 East, of the Mount Diablo Meridian, Nevada, executed by Jose A. Serna, Cadastral Surveyor, having been critically examined and found correct, are hereby approved.

AUG 28 2013

(Date)

David P. Mohr
(Chief Cadastral Surveyor for Nevada)

~~CERTIFICATE OF TRANSCRIPT~~

~~I CERTIFY That the foregoing transcript of the field notes of the above described surveys in Township 23 South, Range 63 1/2 East, Mount Diablo Meridian, Nevada, is a true copy of the original field notes.~~

~~(Date)~~

~~(Chief Cadastral Surveyor for Nevada)~~