

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Original

FIELD NOTES

OF THE

DEPENDENT RESURVEY

OF

A PORTION OF THE SOUTH BOUNDARY
AND A PORTION OF THE SUBDIVISIONAL LINES,

AND

THE SUBDIVISION OF SECTIONS 31 and 32,
TOWNSHIP 17 SOUTH, RANGE 51 EAST,
OF THE MOUNT DIABLO MERIDIAN,
IN THE STATE OF NEVADA

EXECUTED BY

Douglas A. Potts, Cadastral Surveyor
Clay W. Morrow, Surveying Technician

Under Special Instructions dated February 2, 2006,
approved February 2, 2006.
which provided for the surveys included under Group No. 832,
and Assignment Instructions dated February 2, 2006.

Survey commenced February 9, 2006

Survey completed July 26, 2007

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TOWNSHIP 17 SOUTH, RANGE 51 EAST, MOUNT DIABLO MERIDIAN, NEVADA

CHAINS	<p>The following field notes are those of the dependent resurvey of a portion of the south boundary and a portion of the subdivisional lines, and the subdivision of sections 31 and 32, Township 17 South, Range 51 East, Mount Diablo Meridian, Nevada.</p> <p>The Fourth Standard Parallel South, the west, east and south boundaries and subdivisional lines were surveyed by U.S. Deputy Surveyor E.A. Carter in 1881 under Contract No. 128. The west boundary was dependently resurveyed by Cadastral Surveyor H.G. Parker in 1963, under Group No. 408. The Fourth Standard Parallel South, the east and south boundaries and subdivisional lines were dependently resurveyed by Cadastral Surveyor E.W. Sibley in 1966 under Group No. 433. Portions of the west boundary were dependently resurveyed concurrently under this same Group.</p> <p>Before restoring the corners, the lines of the original surveys were retraced and 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, 1973, and the Special Instructions for Group No. 832 dated February 2, 2006.</p> <p>Measurements were made with Trimble 5700 Global Positioning System (GPS) receivers using real-time kinematic (RTK) methods and refer to the true meridian based on geodetic methods. The mean bearings of the lines and horizontal equivalents of ground distances only are entered in the field notes.</p> <p>The NAD 83 geographic position of the 1/4 sec. cor. of secs. 5 and 32, Tps. 17 and 18 S., R. 51 E., determined from Global Positioning System (GPS) static observations processed by National Geodetic Survey, Online Positioning Systems User Service (OPUS), utilizing Continuously Operating Reference Stations (CORS) TROPICANA CORS ARP, LAS VEGAS VALLEY CORS ARP and CARLTON SQUARE CORS ARP, in 2006, and carried forward by RTK observations is as follows:</p> <p>Latitude: 36°25'27.683" N. Longitude: 116°15'25.113" W.</p> <p>The January 1, 2007, mean magnetic declination was determined to be 13°08' E., from the National Oceanic and Atmospheric Administration's National Geophysical Data Center declination calculator.</p> <hr/>
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DEPENDENT RESURVEY OF A PORTION OF THE SOUTH BOUNDARY,
T. 17 S., R. 51 E., MOUNT DIABLO MERIDIAN, NEVADA

CHAINS	<p>Reestablishment of a Portion of the Survey Executed by E.A. Carter, U.S. Deputy Surveyor, in 1881, and a Portion of the Dependent Resurvey Executed by E.W. Sibley, Cadastral Surveyor, in 1966.</p> <hr/> <p>Beginning at the cor. of secs. 5, 6, 31 and 32, on the S. bdy. of the Tp., monumented with an iron post, 2 1/2 ins. diam., firmly set, projecting 6 ins. above the ground, and in a collar of stone, with brass cap mkd. as described in the field notes of the dependent resurvey of the south boundary of T. 17 S., R. 51 E., executed under Group No. 433.</p> <p>N. 89°55'50" W., bet. secs. 6 and 31.</p> <p>Over gently rolling land.</p> <p>20.037 Point for the E 1/16 sec. cor. of secs. 6 and 31.</p> <p>POINT NOT MONUMENTED.</p> <p>30.00 Ascend low rocky hill.</p> <p>40.074 The 1/4 sec. cor. of secs. 6 and 31, monumented with an iron post, 2 1/2 ins. diam., firmly set in a mound of stone, 5 ft. diam., 1 1/2 ft. high, on a rocky ledge, with brass cap mkd. as described in the field notes of the dependent resurvey of the south boundary of T. 17 S., R. 51 E., executed under Group No. 433.</p> <hr/> <p>DEPENDENT RESURVEY OF A PORTION OF THE SUBDIVISIONAL LINES, T. 17 S., R. 51 E., MOUNT DIABLO MERIDIAN, NEVADA</p> <hr/> <p>Reestablishment of a Portion of the Survey Executed by E.A. Carter, U.S. Deputy Surveyor, in 1881, and a Portion of the Dependent Resurvey Executed by E.W. Sibley, Cadastral Surveyor, in 1966.</p> <hr/> <p>From the cor. of secs. 5, 6, 31 and 32, on the S. bdy. of the Tp., hereinbefore described.</p> <p>N. 2°56'00" W., bet. secs. 31 and 32.</p> <p>Over gently rolling land.</p> <p>19.478 Point for the S 1/16 sec. cor. of secs. 31 and 32.</p> <p>POINT NOT MONUMENTED.</p> <p>38.956 The 1/4 sec. cor. of secs. 31 and 32, monumented with an iron post, 2 1/2 ins. diam., firmly set, projecting 8 ins. above the ground, with brass cap mkd. as described in the field notes of the dependent resurvey of the subdivisional lines of T. 17 S., R. 51 E., executed under Group No. 433, with a mound of stone, 4 ft. diam., 2 ft. high, W. of cor.</p> <hr/>
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DEPENDENT RESURVEY OF A PORTION OF THE SUBDIVISIONAL LINES,
T. 17 S., R. 51 E., MOUNT DIABLO MERIDIAN, NEVADA

CHAINS	<p>N. 2°59'50" W., beginning new measurement.</p> <p>Over rolling land.</p>
12.50	Ascend low rocky hill.
19.496	<p>The N 1/16 sec. cor. of secs. 31 and 32, determined by Richard L. Hafen, Nevada Professional Land Surveyor No. 4428, monumented with a rebar, 5/8 in. diam., 15 ins. long, firmly set in a mound of stone, with plastic cap mkd. RLS 4428. This monument is locally recognized as the position of the corner point, and is accepted as a careful and faithful determination of the position of the corner.</p> <p>At the corner point</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 15 ins. in the ground to solid rock, over a plastic-encased magnet and in a mound of stone, 3 ft. base, to top, with brass cap mkd.</p> <p style="text-align: center;">N 1/16 S31 S32 2007</p> <p>Insert the rebar inside the stainless steel post.</p> <hr/> <p>N. 2°59'50" W., beginning new measurement.</p>
19.496	<p>The cor. of secs. 29, 30, 31 and 32, monumented with an iron post, 2 1/2 ins. diam., firmly set in a mound of stone, 5 ft. diam., 2 ft. high, on a rocky ledge, with brass cap mkd. as described in the field notes of the dependent resurvey of the subdivisional lines of T. 17 S., R. 51 E., executed under Group No. 433.</p> <hr/> <p>N. 89°39'20" W., bet. secs. 30 and 31.</p> <p>Over rolling land.</p>
19.804	<p>Point for the E 1/16 sec. cor. of secs. 30 and 31.</p> <p>POINT NOT MONUMENTED.</p>
39.608	<p>The 1/4 sec. cor. of secs. 30 and 31, monumented with an iron post, 2 1/2 ins. diam., firmly set, projecting 6 ins. above the ground, with brass cap mkd. as described in the field notes of the dependent resurvey of the subdivisional lines of T. 17 S., R. 51 E., executed under Group No. 433, with a mound of stone, 3 ft. diam., 1 ft. high, N. of the cor.</p> <hr/>

SUBDIVISION OF SECTION 31,
T. 17 S., R. 51 E., MOUNT DIABLO MERIDIAN, NEVADA

CHAINS	<p>From the 1/4 sec. cor. of secs. 6 and 31, on the S. bdy. of the Tp.</p> <p>N. 2°37'20" W., on the N-S center line of sec. 31.</p> <p>Over gently rolling land.</p>
19.598	<p>Point for the center S 1/16 sec. cor. of sec. 31.</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;"> $\begin{array}{c} C \\ S\ 1/16 \left S31 \\ C \end{array}$ </p> <p style="text-align: center;">2007</p> <p>Set a steel boundary post, 8 ft. long, alongside the stainless steel post.</p>
39.196	<p>Point for the center 1/4 sec. cor. of sec. 31, 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;">T17S R51E</p> <p style="text-align: center;">C 1/4 S31</p> <p style="text-align: center;">2007</p> <p>Set a steel boundary post, 8 ft. long, alongside the stainless steel post.</p>
58.655	<p>Point for the center N 1/16 sec. cor. of sec. 31.</p> <p>POINT NOT MONUMENTED.</p>
78.114	<p>The 1/4 sec. cor. of secs. 30 and 31.</p> <hr/> <p>From the 1/4 sec. cor. of secs. 31 and 32.</p> <p>N. 89°34'10" W., on the E-W center line of sec. 31.</p> <p>Over rolling land.</p>
19.935	<p>The center E 1/16 sec. cor. of sec. 31, determined by person(s) unknown, monumented with a rebar, 5/8 in. diam., 20 ins. long, firmly set flush with the ground. This monument is locally recognized as the position of the corner point, and is accepted as a careful and faithful determination of the position of the corner.</p>

SUBDIVISION OF SECTION 31,
T. 17 S., R. 51 E., MOUNT DIABLO MERIDIAN, NEVADA

CHAINS	<p>At the corner point</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> <div style="text-align: center;"> $\begin{array}{r} E \ 1/16 \\ C \ \hline S31 \end{array}$ <p>2007</p> </div> <p>Insert the rebar inside the stainless steel post, and set a steel fence post, 4 ft. long, alongside the stainless steel post.</p> <hr/> <p>N. 89°34'10" W., beginning new measurement.</p> <p>Over rolling land.</p> <p>19.935 The center 1/4 sec. cor. of sec. 31.</p> <p>58.182 The 1/4 sec. cor. of secs. 31 and 36, on the W. bdy. of the Tp., monumented with an iron post, 2 1/2 ins. diam., firmly set in a collar of stone, 2 1/2 ft. diam., with brass cap mkd. as described in the field notes of the dependent resurvey of the east boundary of T. 17 S., R. 50 E., executed concurrently under this same group, with a mound of stone, 3 ft. diam., 1 ft. high, W. of cor.</p> <hr/> <p>From the center E 1/16 sec. cor. of sec. 31.</p> <p>N. 2°48'40" W., on the N-S center line of the NE1/4 of sec. 31.</p> <p>Over rolling land.</p> <p>19.477 The NE 1/16 sec. cor. of sec. 31, determined by person(s) unknown, monumented with a rebar, 5/8 in. diam., 15 ins. long, firmly set, projecting 3 ins. above the ground. This monument is locally recognized as the position of the corner point, and is accepted as a careful and faithful determination of the position of the corner.</p> <p>At the corner point</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> <div style="text-align: center;"> $\begin{array}{r} NE \ 1/16 \ S31 \\ \\ 2007 \end{array}$ </div> <p>Set a steel boundary post, 8 ft. long, alongside the stainless steel post.</p> <hr/>
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SUBDIVISION OF SECTION 31,
T. 17 S., R. 51 E., MOUNT DIABLO MERIDIAN, NEVADA

CHAINS	N. 2°48'40" W, beginning new measurement.
19.477	The point for the E 1/16 sec. cor. of secs. 30 and 31. <hr/>
	From the N 1/16 sec. cor. of secs. 31 and 32. N. 89°36'40" W., on the E-W center line of the NE1/4 of sec. 31. Over rolling land.
19.870	The NE 1/16 sec. cor. of sec. 31. <hr/>
	N. 89°36'40" W., beginning new measurement.
19.870	The point for the center N 1/16 sec. cor. of sec. 31. <hr/>
	From the point for the E 1/16 sec. cor. of secs. 6 and 31, on the S. bdy. of the Tp. N. 2°46'40" W., on the N-S center line of the SE1/4 of sec. 31. Over rolling land.
19.538	Point for the SE 1/16 sec. cor. of sec. 31, at 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 S31 2007 Set a steel boundary post, 8 ft. long, alongside the stainless steel post.
39.076	The center E 1/16 sec. cor. of sec. 31. <hr/>
	From the point for the S 1/16 sec. cor. of secs. 31 and 32. N. 89°45'00" W., on the E-W center line of the SE1/4 of sec. 31. Over rolling land.
19.986	The SE 1/16 sec. cor. of sec. 31.
39.972	The center S 1/16 sec. cor. of sec. 31. <hr/>
	N. 89°20'20" W., on the E-W center line of the SW1/4 of sec. 31.
38.304	The true point for the S 1/16 sec. cor. of secs. 31 and 36, on the W. bdy. of the Tp. <hr/>

SUBDIVISION OF SECTION 32,
T. 17 S., R. 51 E., MOUNT DIABLO MERIDIAN, NEVADA

CHAINS	<p>From the 1/4 sec. cor. of secs. 5 and 32, on the S. bdy. of the Tp., monumented with an iron post, 2 1/2 ins. diam., firmly set, projecting 8 ins. above the ground, and in a collar of stone, 2 1/2 ft. diam., with brass cap mkd. as described in the field notes of the dependent resurvey of the south boundary of T. 17 S., R. 51 E., executed under Group No. 433, with a mound of stone, 3 ft. diam., 2 ft. high, W. of cor.</p> <p>N. 3°11'50" W., on the N-S center line of sec. 32.</p> <p>Over rolling land.</p> <p>39.572 Point for the center 1/4 sec. cor. of sec. 32, at intersection with the E-W center line, point falls on rock face where it is impractical to establish a permanent monument.</p> <p>39.752 Point selected for the witness cor. to the center 1/4 sec. cor. of sec. 32.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 4 ins. in the ground, over a plastic-encased magnet and in a mound of stone, 4 ft. base, to top, with brass cap mkd.</p> <p style="text-align: center;">WC T17S R51E C 1/4 S32 ↓ 2007</p> <p>Set a steel boundary post, 8 ft. long, alongside the stainless steel post.</p> <p>59.090 Point for the center N 1/16 sec. cor. of sec. 32.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 22 ins. in the ground, over a plastic-encased magnet, encircled in a collar of stone, with brass cap mkd.</p> <p style="text-align: center;">C N 1/16 S32 C</p> <p style="text-align: center;">2007</p> <p>Set a steel boundary post, 8 ft. long, alongside the stainless steel post.</p> <p>Cor. falls in wash, drains N.</p> <p>78.608 The 1/4 sec. cor. of secs. 29 and 32, monumented with an iron post, 2 1/2 ins. diam., firmly set in a mound of stone, 6 ft. diam., 2 ft. high, on a rocky ledge, with brass cap mkd. as described in the field notes of the dependent resurvey of the subdivisional lines of T. 17 S., R. 51 E., executed under Group No. 433.</p>
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SUBDIVISION OF SECTION 32,
T. 17 S., R. 51 E., MOUNT DIABLO MERIDIAN, NEVADA

CHAINS	<p>From the 1/4 sec. cor. of secs. 32 and 33, monumented with an iron post, 2 1/2 ins. diam., firmly set in a mound of stone, 6 ft. diam., 2 ft. high, with brass cap mkd. as described in the field notes of the dependent resurvey of the subdivisional lines of T. 17 S., R. 51 E., executed under Group No. 433.</p> <p>S. 89°12'50" W., on the E-W center line of sec. 32.</p> <p>Over rolling land.</p>
39.147	True point for the center 1/4 sec. cor. of sec. 32.
79.036	The 1/4 sec. cor. of secs. 31 and 32.
	<hr/> <p>From the center N 1/16 sec. cor. of sec. 32.</p> <p>S. 89°11'10" W., on the E-W center line of sec. 32.</p>
39.818	The N 1/16 sec. cor. of secs. 31 and 32.
	<hr/> <p style="text-align: center;">GENERAL DESCRIPTION</p> <p>The lands dependently resurveyed and subdivided within Township 17 South, Range 51 East, are part of the Ash Meadows National Wildlife Refuge located in the Amargosa Desert, and ranges from about 2,100 to 3,100 ft. above sea level. The terrain is nearly level to low mountainous. The soil is sandy clay loam in the lower elevations to rocky in the higher elevations, and vegetation consists of scattered mesquite and native grass.</p> <p>Access to the area is provided by numerous improved roads, unimproved roads, and trail roads. Principle users of the area are recreationist and hunters. No mineral formations of consequence were noted during the survey.</p> <hr/>

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

Lance A. Barney	Cadastral Surveyor
Michelle E. Martin	Supervisory Range Technician
Derrick J. Rader	Supervisory Range Technician
David R. Rodriguez	Survey Aid

CERTIFICATE OF SURVEY

WE, Douglas A. Potts, Cadastral Surveyor and Clay W. Morrow, Surveying Technician, HEREBY CERTIFY upon honor, that in pursuance of Special Instructions bearing the date of the 2nd day of February, 2006, We have dependently resurveyed a portion of the south boundary and a portion of the subdivisional lines, and subdivided sections 31 and 32, Township 17 South, Range 51 East, of the Mount Diablo Meridian, in the State of Nevada, which are represented in the foregoing field notes as having been executed by us and under our direction; and that said survey has been made in strict conformity with said 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.

August 2, 2007

(Date)

David D. Morla

/ For Douglas A. Potts
(Cadastral Surveyor)

August 1, 2007

(Date)

Clay W. Morrow

(Surveying Technician)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT
Reno, Nevada

The foregoing field notes of the dependent resurvey of a portion of the south boundary and a portion of the subdivisional lines, and the subdivision of sections 31 and 32, Township 17 South, Range 51 East, Mount Diablo Meridian, Nevada, executed by Douglas A. Potts, Cadastral Surveyor, and Clay W. Morrow, Surveying Technician, having been critically examined and found correct, are hereby approved.

August 2, 2007

(Date)

David D. Morla

(Chief Cadastral Surveyor, Nevada)

~~CERTIFICATE OF TRANSCRIPT~~

~~I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in T. 17 S., R. 51 E., M.D.M., Nevada, is a true copy of the original field notes.~~

~~(Date)~~

~~(Chief Cadastral Surveyor, Nevada)~~