UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Original

FIELD NOTES

OF THE

SURVEY

OF

THE WEST BOUNDARY,

A PORTION OF THE NORTH BOUNDARY

AND

A PORTION OF THE SUBDIVISIONAL LINES

OF

TOWNSHIP 12 NORTH, RANGE 31 EAST,
OF THE MOUNT DIABLO MERIDIAN,
IN THE STATE OF NEVADA

EXECUTED BY

David J. Clark, Cadastral Surveyor

Mark G. Petrosine, Surveying Technician

Under Special Instructions dated May 30, 2008,
and approved May 30, 2008,
which provided for the surveys included under Group No. 865,
and Assignment Instructions dated July 22, 2008.

Survey commenced August 6, 2008 Survey completed September 7, 2008

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TOWNSHIP 12 NORTH, RANGE 31 EAST, MOUNT DIABLO MERIDIAN, NEVADA

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#### TOWNSHIP 12 NORTH, RANGE 31 EAST, MOUNT DIABLO MERIDIAN, NEVADA

#### CHAINS

The following field notes are those of the survey of the west boundary, a portion of the north boundary and a portion of the subdivisional lines of Township 12 North, Range 31 East, Mount Diablo Meridian, Nevada.

The corner of Townships 12 and 13 North, Ranges 30 and 31 East, was established and monumented by U.S. Surveyor and U.S. Cadastral Engineer E. Voigt in 1920-22 under Group No. 66. The south and east boundaries, the east three miles of the north boundary and a portion of the subdivisional lines were surveyed by U.S. Cadastral Engineer C.S. Swanholm and U.S. Transitmen R. F. Guinn, C. Pettengill, S. M. Ackerman, C.P. Devine and H. Westfall in 1936 under Group No. 181.

The diagram representing the official protraction of the rectangular system of survey for T. 12 N., R. 31 E. is shown on Nevada Protraction Diagram No. 35, Unit No. 56A, approved May 16, 1962.

In order to simplify the record, the true line notes only are supplied herewith, which refer to the completed survey.

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. 865, dated May 30, 2008.

Measurements were made with Trimble 4700, 5700 and 5800 Global Positioning System (GPS) receivers using the real-time kinematic (RTK) and static 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.

The NAD 1983 (CORS 96) geographic position of the corner of secs. 32 and 33, on the south boundary of the township, determined from GPS static observations processed by National Geodetic Survey, Online Positioning User Service (OPUS), utilizing Continuously Operating Reference Stations (CORS) UPSAL HOGBACK CORS ARP, GABBS CORS ARP, and TUNGSTEN CORS ARP, in 2008, is as follows:

Latitude: 38°51'07.441" N. Longitude: 118°31'58.141" W.

The 1987 mean magnetic declination is  $15^{\circ}30'$  E., as shown on the U.S.G.S. 7 1/2 minute quadrangle map "GHOST DANCE RIDGE, NEVADA", provisional edition dated 1987.

#### SURVEY OF THE WEST BOUNDARY, T. 12 N., R. 31 E., MOUNT DIABLO MERIDIAN, NEVADA

Beginning at the cor. of Tps. 12 N., Rs. 30 and 31 E., monumented with an iron post, 3 ins. diam., firmly set, projecting 6 ins. above the ground, with brass cap mkd. as described in the field notes of the survey of T. 12 N., R. 30 E., executed under Group No. 181, with a mound of stone, 5 ft. base, 3 ft. high, N. of cor.

N.  $0^{\circ}02'10''$  W., bet. secs. 31 and 36.

Over gradual NE. slope, through medium undergrowth.

#### SURVEY OF THE WEST BOUNDARY, T. 12 N., R. 31 E., MOUNT DIABLO MERIDIAN, NEVADA

	T. 12 N., R. 31 E., MOUNT DIABLO MERIDIAN, NEVADA
CHAINS	
40.000	Point for the 1/4 sec. cor. of secs. 31 and 36.
	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.
	T12N
	1/4 R30E R31E S36 S31
	2008
41.30	Ravine, drains E.
75.10	Ravine, drains NE.
80.000	Point for the cor. of secs. 25, 30, 31 and 36.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 4 ins. in the ground, to bedrock, over a plastic-encased magnet and in a mound of stone, 4 ft. base, to top, with brass cap mkd.
	T12N R30E R31E S25 S30
	S36 S31
	2008
	Land, gradually sloping. Soil, sandy loam. Vegetation, sagebrush, shadscale and low brush.
	N. 0°02'10" W., bet. secs. 25 and 30.
	Over rolling land, through medium undergrowth.
40.000	Point for the 1/4 sec. cor. of secs. 25 and 30.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 18 ins. in the ground, over a plastic-encased magnet and in a mound of stone, 3 ft. base, to top, with brass cap mkd.
	T12N 1/4 R30E R31E S25 S30
	2008
49.50	Ravine, drains SE., continue across broken land.
60.20	
	Spur, slopes SE.
80.000	Point for the cor. of secs. 19, 24, 25 and 30.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 4 ins. in the ground, to bedrock, over a plastic-encased magnet and in a mound of stone, 5 ft. base, to top, with brass cap mkd.

#### SURVEY OF THE WEST BOUNDARY, T. 12 N., R. 31 E., MOUNT DIABLO MERIDIAN, NEVADA

	T. 12 N., R. 31 E., MOUNT DIABLO MERIDIAN, NEVADA	
CHAINS	T12N R30E R31E S24 S19 S25 S30	
	2008	
	Land, southern portion, rolling; northern portion, broken. Soil, rocky, loam. Vegetation, shadscale and low brush.	
	N. 0°02'10" W., bet. secs. 19 and 24.	
	Over broken land, through medium undergrowth.	
40.000	Point for the 1/4 sec. cor. of secs. 19 and 24.	
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 5 ins. in the ground, to bedrock, over a plastic-encased magnet and in a mound of stone, 4 1/2 ft. base, to top, with brass cap mkd.	
	T12N 1/4 R30E R31E S24 S19	
	2008	
74.50	Base of hills; enter valley, continue across gentle NW. slope.	
80.000	Point for the cor. of secs. 13, 18, 19 and 24.	
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, over a plastic-encased magnet and in a mound of stone, 3 ft. base, to top, with brass cap mkd.	
	T12N R30E R31E <u>S13 S18</u> S24 S19	
	2008	
	Land, broken. Soil, rocky loam. Vegetation, shadscale and low brush.	
	N. 0°02'10" W., bet. secs. 13 and 18.	
	Over gentle NW. slope, through medium undergrowth.	
34.00	Base of hills; leave valley, continue across broken land.	
38.00	Spur, slopes WSW.	
40.000	Point for the 1/4 sec. cor. of secs. 13 and 18.	

#### SURVEY OF THE WEST BOUNDARY, T. 12 N., R. 31 E., MOUNT DIABLO MERIDIAN, NEVADA

	T. 12 N., R. 31 E., MOUNT DIABLO MERIDIAN, NEVADA		
CHAINS	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, over a plastic-encased magnet and in a mound of stone, 3 ft. base, to top, with brass cap mkd.		
	T12N 1/4 R30E R31E S13 S18		
	2008		
	From this cor., an adit, 5x4 ft., runs S. 50° E., bears N. 68°45' E., 15.90 chs. dist.		
47.20	Dirt road, 15 lks. wide, bears WNW. and ESE.		
80.000	Point for the cor. of secs. 7, 12, 13 and 18.		
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, over a plastic-encased magnet and in a mound of stone, 3 ft. base, to top, with brass cap mkd.		
	T12N R30E R31E S12 S 7 S13 S18		
	2008		
	Land, southern portion gradually sloping, balance broken. Soil, sandy, rocky loam. Vegetation, shadscale and low brush.		
	N. 0°02'10" W., bet. secs. 7 and 12.		
	Over broken land, through medium undergrowth.		
4.40	From this point, the summit of a basalt capped hill bears E., 1.25 chs. dist.		
40.000	Point for the 1/4 sec. cor. of secs. 7 and 12.		
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, over a plastic-encased magnet and in a mound of stone, 3 ft. base, to top, with brass cap mkd.		
	T12N 1/4 R30E R31E S12 S 7		
	2008		
80.000	Point for the cor. of secs. 1, 6, 7 and 12.		
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, over a plastic-encased magnet and in a mound of stone, 3 ft. base, to top, with brass cap mkd.		

### SURVEY OF THE WEST BOUNDARY, T. 12 N., R. 31 E., MOUNT DIABLO MERIDIAN, NEVADA

	T. 12 N., R. 31 E., MOUNT DIABLO MERIDIAN, NEVADA
CHAINS	T12N R30E R31E S 1 S 6 S12 S 7
	2008
	Land, broken. Soil, sandy loam and rocky. Vegetation, shadscale and low brush.
	N. 0°02'10" W., bet. secs. 1 and 6.
	Over broken land, through medium undergrowth.
18.00	Base of hills; continue across gradual NE. slope.
40.000	Point for the 1/4 sec. cor. of secs. 1 and 6.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, over a plastic-encased magnet and in a collar of stone, 2 ft. base, with brass cap mkd.
	T12N 1/4
	R30E R31E S 1 S 6
	2008
78.238	The cor. of Tps. 12 and 13 N., Rs. 30 and 31 E., monumented with an iron post, 3 ins. diam., firmly set in a mound of stone, 3 ft. base, 1 ft. high, with brass cap mkd. as described in the field notes of the survey of T. 13 N., R. 30 E., executed under Group No. 66.
	Land, gradually sloping and broken. Soil, sandy loam and rocky. Vegetation, shadscale and low brush.
	SURVEY OF A PORTION OF THE NORTH BOUNDARY, T. 12 N., R. 31 E., MOUNT DIABLO MERIDIAN, NEVADA
	From the cor. of secs. 3, 4, 33 and 34, monumented with an iron post, 2 ins. diam., firmly set, projecting 7 ins. above the ground, with brass cap mkd. as described in the field notes of the survey of T. 12 N., R. 31 E., executed under Group No. 181.
	N. 89°58'50" W., bet. secs. 4 and 33.
	Over nearly level land, through medium undergrowth.
40.000	Point for the 1/4 sec. cor. of secs. 4 and 33.
	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.

### SURVEY OF A PORTION OF THE NORTH BOUNDARY, T. 12 N., R. 31 E., MOUNT DIABLO MERIDIAN, NEVADA

	T. 12 N., R. 31 E., MOUNT DIABLO MERIDIAN, NEVADA
CHAINS	T13N R31E S33
	$1/4 \frac{333}{84}$
	T12N
	2008
80.000	Point for the cor. of secs. 4, 5, 32 and 33.
	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.
	T13N R31E S32 S33 S 5 S 4 T12N
	2008
	Land, level. Soil, sandy loam. Vegetation, shadscale and low brush.
	N. 89°58'50" W., bet. secs. 5 and 32.
	Over gentle NE. slope, through medium undergrowth.
40.000	Point for the 1/4 sec. cor. of secs. 5 and 32.
	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.
	T13N R31E
	1/4 <u>S32</u>
	S 5 T12N
	2008
80.000	Point for the cor. of secs. 5, 6, 31 and 32.
	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.
	T13N_R31E
	S31 S32
	S 6   S 5 T12N
	2008
	Land, gently sloping. Soil, sandy loam. Vegetation, shadscale and low brush.

## SURVEY OF A PORTION OF THE NORTH BOUNDARY, T. 12 N., R. 31 E., MOUNT DIABLO MERIDIAN, NEVADA

CUATNIC	1. 12 N., R. 31 E., MOUNT DIABLO MERIDIAN, NEVADA
CHAINS	N. 89°58'50" W., bet. secs. 6 and 31.
	Over gentle NE. slope, through medium undergrowth.
40.000	Point for the $1/4$ sec. cor. of secs. 6 and 31.
	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.
	T13N R31E 1/4
	2008
45.60	Graded dirt road, 50 lks. wide, bears N. $60^{\circ}$ W. and S. $60^{\circ}$ E.
79.572	The cor. of Tps. 12 and 13 N., Rs. 30 and 31 E., hereinbefore described.
	Land, gently sloping. Soil, sandy loam. Vegetation, shadscale and low brush.
	SURVEY OF A PORTION OF THE SUBDIVISIONAL LINES, T. 12 N., R. 31 E., MOUNT DIABLO MERIDIAN, NEVADA
	From the cor. of secs. 32 and 33, on the S. bdy. of the Tp., monumented with an iron post, 2 ins. diam., firmly set, projecting 6 ins. above the ground, with brass cap mkd. as described in the field notes of the survey of T. 12 N., R. 31 E., executed under Group No. 181.
	N. 0°02'50" W., bet. secs. 32 and 33.
	Over gradual NE. slope, through medium undergrowth.
10.65	Dirt road, 15 lks. wide, bears NNE. and SSW.
40.000	Point for the 1/4 sec. cor. of secs. 32 and 33.
	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.
	T12N R31E 1/4 S32 S33
	2008
80.000	Point for the cor. of secs. 28, 29, 32 and 33.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 21 ins. in the ground, over a plastic-encased magnet and in a mound of stone, 3 ft. base, to top, with brass cap mkd.

	T. 12 N., R. 31 E., MOUNT DIABLO MERIDIAN, NEVADA		
CHAINS	T12N R31E S29 S28 S32 S33		
	2008		
	Land, gently sloping. Soil, sandy loam. Vegetation, shadscale and low brush.		
	From the cor. of secs. 27, 28, 33 and 34, monumented with an iron post, 2 ins. diam., firmly set, projecting 3 ins. above a mound of stone, 3 ft. base, 1 1/2 ft. high, with brass cap mkd. as described in the field notes of the survey of T. 12 N., R. 31 E., executed under Group No. 181.		
	N. 89°58'50" W., bet. secs. 28 and 33.		
	Over broken land, through medium undergrowth.		
16.40	Spur, slopes SE.		
39.00	Wash, 50 lks. wide, drains NW., continue across gradual N. slope.		
40.024	Point for the $1/4$ sec. cor. of secs. 28 and 33.		
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, over a plastic-encased magnet and in a collar of stone, 2 ft. base, with brass cap mkd.		
	$\frac{\text{T12N R31E}}{\text{S28}}$		
	2008		
56.40	Hidden Wash, 75 lks. wide, drains N.		
62.75	Dirt road, 15 lks. wide, bears NNE. and SSW.		
67.20	Wash, 75 lks. wide, drains NE.		
80.048	The cor. of secs. 28, 29, 32 and 33.		
	Land, eastern portion broken, balance gently sloping. Soil, sandy loam. Vegetation, shadscale and low brush.		
	N. 0°02'50" W., bet. secs. 28 and 29.		
	Over gradual NE. slope, through medium undergrowth.		
35.60	Wash, 50 lks. wide, drains SE.		
40.000	Point for the 1/4 sec. cor. of secs. 28 and 29.		
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, over a plastic-encased magnet and in a mound of stone, 3 ft. base, to top, with brass cap mkd.		

	T. 12 N., R. 31 E., MOUNT DIABLO MERIDIAN, NEVADA		
CHAINS	T12N R31E 1/4		
	\$29   \$28		
	2008		
48.50	Base of hills; continue across broken land.		
67.60	Saddle in spur, bears NW. and SE.		
72.30	Ravine, drains SE.		
80.000	Point for the cor. of secs. 20, 21, 28 and 29.		
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 2 ins. in the ground, to bedrock, over a plastic-encased magnet and in a mound of stone, 4 ft. base, to top, with brass cap mkd.		
	T12N R31E <u>S20 S21</u> S29 S28		
	2008		
	Land, southern portion gently sloping, balance broken. Soil, sandy loam and rocky. Vegetation, shadscale and low brush.		
	From the cor. of secs. 21, 22, 27 and 28, monumented with an iron post, 2 ins. diam., firmly set, projecting 8 ins. above the ground, with brass cap mkd. as described in the field notes of the survey of T. 12 N., R. 31 E., executed under Group No. 181.		
	S. 89°59'40" W., bet. secs. 21 and 28.		
	Over rolling land, through medium undergrowth.		
6.00	Dirt road, 15 lks. wide, bears NE. and SW.		
12.60	Hidden Wash, 100 lks. wide, drains NE., continue across broken land.		
40.036	Point for the 1/4 sec. cor. of secs. 21 and 28.		
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, over a plastic-encased magnet and in a mound of stone, 3 ft. base, to top, with brass cap mkd.		
	T12N R31E $1/4 \frac{S21}{S28}$		
	2008		
80.072	The cor. of secs. 20, 21, 28 and 29.		
	Land, eastern portion rolling, balance broken. Soil, sandy loam and rocky. Vegetation, shadscale and low brush.		

CHAINS	N. 0°02'50" W., bet. secs. 20 and 21.		
	Over rolling land, through medium undergrowth.		
12.60	Ravine, drains E.		
30.00	Base of hills; continue across gradual NE. slope.		
40.000	Point for the 1/4 sec. cor. of secs. 20 and 21.		
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam.,		
	24 ins. in the ground, over a plastic-encased magnet and in a collar of stone, 1 1/2 ft. base, with brass cap mkd.		
	T12N R31E 1/4		
	S20   S21		
	2008		
72.50	Base of basalt covered hill; continue across broken E. slope.		
80.000	Point for the cor. of secs. 16, 17, 20 and 21.		
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 5 ins. in the ground, to bedrock, over a plastic-encased magnet and in a mound of stone, 4 1/2 ft. base, to top, with brass cap mkd.		
	T12N R31E S17 S16 S20 S21		
	2008		
	Land, rolling. Soil, sandy loam. Vegetation, shadscale and low brush.		
	From the cor. of secs. 15, 16, 21 and 22, monumented with an iron post, 2 ins. diam., firmly set, projecting 8 ins. above the ground, with brass cap mkd. as described in the field notes of the survey of T. 12 N., R. 31 E., executed under Group No. 181, with a mound of stone, 3 ft. base, 1 ft. high, SW. of cor.		
	S. 89°59'50" W., bet. secs. 16 and 21.		
	Over gradual NE. slope, through medium undergrowth.		
40.048	Point for the 1/4 sec. cor. of secs. 16 and 21.		
	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.		
	T12N_R31E		
	$\frac{1/4}{821}$		
	2008		
	2000		

CHAINS	
71.30	Wash, 15 lks. wide, drains NNE.; continue across broken E. slope of basalt covered hill.
80.096	The cor. of secs. 16, 17, 20 and 21.
	Land, gently sloping. Soil, sandy loam. Vegetation, shadscale and low brush.
	N. 0°02'50" W., bet. secs. 16 and 17.
	Over broken E. slope of basalt covered hill.
17.00	Base of basalt covered hill; continue over gradual NE. slope.
40.000	Point for the 1/4 sec. cor. of secs. 16 and 17.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 6 ins. in the ground, to bedrock, over a plastic-encased magnet and in a mound of stone, 4 ft. base, to top, with brass cap mkd.
	T12N R31E 1/4 S17 S16
	2008
80.000	Point for the cor. of secs. 8, 9, 16 and 17.
	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.
	T12N R31E S 8 S 9 S17 S16
	2008
	Land, gently sloping and broken. Soil, sandy loam and rocky. Vegetation, shadscale and low brush.
	From the cor. of secs. 9, 10, 15 and 16, monumented with an iron post, 2 ins. diam., firmly set, projecting 8 ins. above the ground, with brass cap mkd. as described in the field notes of the survey of T. 12 N., R. 31 E., executed under Group No. 181, with a mound of stone, 3 ft. base, 1 1/2 ft. high, W. of cor.
	S. 89°59'40" W., bet. secs. 9 and 16.
	Over gradual NE. slope, through medium undergrowth.
40.061	Point for the 1/4 sec. cor. of secs. 9 and 16.
	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.

CHAINS	T. 12 N., R. 31 E., MOUNT DIABLO MERIDIAN, NEVADA		
CHAINS	T12N R31E S 9		
	1/4		
	S16		
	2008		
80.122	The cor. of secs. 8, 9, 16 and 17.		
	Land, gently sloping. Soil, sandy loam. Vegetation, shadscale and low brush.		
	N. 0°02'50" W., bet. secs. 8 and 9.		
	Over gradual NE. slope, through medium undergrowth.		
40.000	Point for the 1/4 sec. cor. of secs. 8 and 9.		
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, over a plastic-encased magnet and in a collar of stone, 1 1/2 ft. base, with brass cap mkd.		
	T12N R31E		
	1/4 S 8   S 9		
	2008		
80.000	Point for the cor. of secs. 4, 5, 8 and 9.		
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, over a plastic-encased magnet and in a mound of stone, 3 ft. base, to top, with brass cap mkd.		
	T12N R31E		
	S 5   S 4		
	S 8 S 9		
	2008		
	Land, gently sloping. Soil, sandy loam. Vegetation, shadscale and low brush.		
	From the cor. of secs. 3, 4, 9 and 10, monumented with an iron post, 2 ins. diam., firmly set, recovered 2 ins. below the surface of drifted sand, with brass cap mkd. as described in the field notes of the survey of T. 12 N., R. 31 E., executed under Group No. 181, with a mound of stone, 3 ft. base, flush with the surface of the ground, W. of cor.		
	Excavate the iron post to 4 ins. above the ground, and the mound of stone to 1 ft. high.		
	S. 89°58'40" W., bet. secs. 4 and 9.		
	Over gradual NE. slope, through medium undergrowth.		
40.076	Point for the 1/4 sec. cor. of secs. 4 and 9.		

CHAINS	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.
	T12N R31E 1/4
	2008
78.05	Graded dirt road, 50 lks. wide, bears N. 55° W. and S. 55° E.
80.152	The cor. of secs. 4, 5, 8 and 9.
	Land, gently sloping. Soil, sandy loam. Vegetation, shadscale and low brush.
	N. 0°05'10" W., bet. secs. 4 and 5.
	Over gradual NE. slope, through medium undergrowth.
1.50	Graded dirt road, 50 lks. wide, bears N. 55° W. and S. 55° E.
40.000	Point for the 1/4 sec. cor. of secs. 4 and 5.
	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.
	T12N R31E 1/4 S 5 S 4
	2008
78.202	The cor. of secs. 4, 5, 32 and 33, on the N. bdy. of the Tp., hereinbefore described.
	Land, gently sloping. Soil, sandy loam. Vegetation, shadscale and low brush.
	From the cor. of secs. 31 and 32, on the S. bdy. of the Tp., monumented with an iron post, 2 ins. diam., firmly set flush with the top of a mound of stone, 4 ft. base, 2 ft. high, with brass cap mkd. as described in the field notes of the survey of T. 12 N., R. 31 E., executed under Group No. 181.
	N. 0°03'30" W., bet. secs. 31 and 32.
	Over broken land, through medium undergrowth.
3.40	Ravine, drains SE.
9.10	Spur, slopes SE.
40.000	Point for the 1/4 sec. cor. of secs. 31 and 32.

	1. 12 N., R. 31 E., MOUNI DIABLO MERIDIAN, NEVADA
CHAINS	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 8 ins. in the ground, to bedrock, over a plastic-encased magnet and in a mound of stone, 4 ft. base, to top, with brass cap mkd.
	T12N_R31E
	1/4 S31 S32
	2008
	Cor. is located at base of mountain, continue across rolling land.
80.000	Point for the cor. of secs. 29, 30, 31 and 32.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 4 ins. in the ground, to bedrock, over a plastic-encased magnet and in a mound of stone, 4 ft. base, to top, with brass cap mkd.
	T12N R31E S30 S29 S31 S32
	2008
	Land, southern portion broken, balance gently sloping.
	Soil, sandy loam and rocky.  Vegetation, shadscale and low brush.
	From the cor. of secs. 28, 29, 32 and 33.
	N. 89°59'30" W., bet. secs. 29 and 32.
	Over rolling land, through medium undergrowth.
39.973	Point for the $1/4$ sec. cor. of secs. 29 and 32.
	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.
	T12N R31E
	$\frac{1/4}{3} = \frac{1}{3}$
	2008
79.946	The cor. of secs. 29, 30, 31 and 32.
	Land, rolling. Soil, sandy loam. Vegetation, shadscale and low brush.
	N. 89°59'50" W., bet. secs. 30 and 31.
	Over broken land, through medium undergrowth.
11.90	Wash, 20 lks. wide, drains SE.
35.50	Ravine, drains NNE.

	1. 12 N., R. 31 E., MOUNT DIABLO MERIDIAN, NEVADA
CHAINS 40.000	Point for the $1/4$ sec. cor. of secs. 30 and 31.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 16 ins. in the ground, to bedrock, over a plastic-encased magnet and in a mound of stone, 4 ft. base, to top, with brass cap mkd.
	T12N R31E $1/4 \frac{S30}{S31}$
	2008
79.919	The cor. of secs. 25, 30, 31 and 36, on the W. bdy. of the Tp., hereinbefore described.
	Land, broken. Soil, sandy loam and rocky. Vegetation, shadscale, sagebrush and low brush.
	From the cor. of secs. 29, 30, 31 and 32.
	N. 0°03'30" W., bet. secs. 29 and 30.
	Over broken land, through medium undergrowth.
24.70	From this point, the summit of a mountain bears $W.$ , 1.10 chs. dist.
40.000	Point for the 1/4 sec. cor. of secs. 29 and 30.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 12 ins. in the ground, to bedrock, over a plastic-encased magnet and in a mound of stone, 4 ft. base, to top, with brass cap mkd.
	T12N R31E 1/4 S30 S29
	2008
47.80	Ravine, drains E.
76.00	Right bank of a wash, bears E. and W., thence across wash, drains E.
78.80	Left bank of a wash, bears E. and W.
80.000	Point for the cor. of secs. 19, 20, 29 and 30.
	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, 3 ft. base, to top, with brass cap mkd.
	T12N R31E S19 S20 S30 S29
	2008

CUATNO	T. 12 N., R. 31 E., MOUNT DIABLO MERIDIAN, NEVADA
CHAINS	from which
	A chiseled X followed by the letters BO, bears S. $49^{\circ}07'$ E., $74.2$ lks. dist., mkd. on the top of an igneous outcrop, $4\times2\times1$ 1/2 ft. high.
	A chiseled X followed by the letters BO, bears S. 49°20' W., 101.0 lks. dist., mkd. on the top of an igneous outcrop, 8x16x2 ft. high.
	Land, broken. Soil, sandy loam and rocky. Vegetation, shadscale and low brush.
	From the cor. of secs. 20, 21, 28 and 29.
	N. 89°59'30" W., bet. secs. 20 and 29.
	Over broken land, through medium undergrowth.
31.20	Spur, slopes SSW.
34.40	Ravine, drains SSW.
39.973	Point for the $1/4$ sec. cor. of secs. 20 and 29.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 21 ins. in the ground, over a plastic-encased magnet and in a mound of stone, 3 ft. base, to top, with brass cap mkd.
	T12N R31E $1/4 \frac{S20}{S29}$
	2008
79.946	The cor. of secs. 19, 20, 29 and 30.
	Land, broken. Soil, sandy loam and rocky. Vegetation, shadscale and low brush.
	N. 89°59'50" W., bet. secs. 19 and 30.
	Over broken land, through medium undergrowth.
12.60	Wash, 100 lks. wide, drains SE.
40.000	Point for the 1/4 sec. cor. of secs. 19 and 30.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 6 ins. in the ground, to bedrock, over a plastic-encased magnet and in a mound of stone, 3 ft. base, 1 ft. high, with brass cap mkd.
	T12N R31E
	$1/4 \frac{S19}{S30}$
	2008

CHAINS	
49.20	Ridge, bears NW. and SE.
58.90	Ravine, drains SE.
79.871	The cor. of secs. 19, 24, 25 and 30, on the W. bdy. of the Tp., hereinbefore described.
	Land, broken. Soil, sandy loam and rocky. Vegetation, shadscale and low brush.
	From the cor. of secs. 19, 20, 29 and 30.
	N. 0°03'30" W., bet. secs. 19 and 20.
	Over broken land, through medium undergrowth.
5.60	Wash, 75 lks. wide, drains ESE.
11.00	Wash, 25 lks. wide, drains SE.
40.000	Point for the 1/4 sec. cor. of secs. 19 and 20.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 3 ins. in the ground, to bedrock, over a plastic-encased magnet and in a mound of stone, 4 ft. base, to top, with brass cap mkd.
	T12N_R31E
	1/4 S19 S20
	2008
43.70	Spur, slopes NW.
80.000	Point for the cor. of secs. 17, 18, 19 and 20.
i	Set a PK nail, 1/8x1 1/2 ins. long, in bedrock.
	from which
	A brass tablet, 3 1/4 ins. diam., 2-in. stem, set in a drill hole, for a reference monument, bears N. 0°27' E., 21.7 lks. dist., mkd. T12N R31E RM S17 14.3 FT TO COR and an arrow pointing to the cor.
	A chiseled X followed by the letters BO, bears S. 70°00' E., 25.3 lks. dist., mkd. on a rock face at the bottom of an exposed rock spine of spur.
	Land, broken. Soil, sandy loam and rocky. Vegetation, shadscale and low brush.
	From the cor. of secs. 16, 17, 20 and 21.
	N. 89°59'30" W., bet. secs. 17 and 20.
	Over broken land, through medium undergrowth.

	T. 12 N., R. 31 E., MOUNT DIABLO MERIDIAN, NEVADA
CHAINS	
3.00	Spur, slopes SE.
11.00	Base of basalt covered hill.
39.973	Point for the 1/4 sec. cor. of secs. 17 and 20.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, over a plastic-encased magnet and in a collar of stone, 2 ft. base, with brass cap mkd.
	T12N R31E S17 1/4
	2008
79.50	Sharp spur, slopes NW.
79.946	The cor. of secs. 17, 18, 19 and 20.
	Land, broken. Soil, sandy loam and rocky. Vegetation, shadscale and low brush.
	N. 89°59'50" W., bet. secs. 18 and 19.
	Over broken land, through medium undergrowth.
40.000	Point for the 1/4 sec. cor. of secs. 18 and 19.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, over a plastic-encased magnet and in a mound of stone, 3 ft. base, to top, with brass cap mkd.
	T12N R31E $1/4 \frac{S18}{S19}$
	2008
41.60	Ravine, drains SE.
79.824	The cor. of secs. 13, 18, 19 and 24, on the W. bdy. of the Tp., hereinbefore described.
	Land, broken. Soil, sandy loam and rocky. Vegetation, shadscale and low brush.
	From the cor. of secs. 17, 18, 19 and 20.
	N. 0°03'30" W., bet. secs. 17 and 18.
	Over broken land, through medium undergrowth.
0.70	Sharp spur, slopes NW.
4.50	Base of spur, continue across broken, gradual NE. slope.

<u> </u>	1. 12 N., R. 31 E., MOUNI DIABLO MERIDIAN, NEVADA
CHAINS 40.000	Point for the 1/4 sec. cor. of secs. 17 and 18.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 21 ins. in the ground, over a plastic-encased magnet and in a mound of stone, 3 ft. base, to top, with brass cap mkd.
	T12N R31E 1/4 S18 S17
	2008
42.90	Wash, 20 lks. wide, drains NE.
56.00	Wash, 20 lks. wide, drains NE.
58.70	Wash, 20 lks. wide, drains NE.
61.80	Wash, 20 lks. wide, drains NE.
80.000	Point for the cor. of secs. 7, 8, 17 and 18.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, over a plastic-encased magnet and in a mound of stone, 3 ft. base, to top, with brass cap mkd.
	T12N R31E S 7 S 8 S18 S17
	2008
	Cor. is located on the S. embankment of the head of a ravine, drains ${\sf E.}$
	Land, broken. Soil, sandy loam and rocky. Vegetation, shadscale and low brush.
	From the cor. of secs. 8, 9, 16 and 17.
	N. 89°59'30" W., bet. secs. 8 and 17.
	Over rolling land, through medium undergrowth.
39.973	Point for the 1/4 sec. cor. of secs. 8 and 17.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 21 ins. in the ground, over a plastic-encased magnet and in a mound of stone, 3 ft. base, to top, with brass cap mkd.
	$   \begin{array}{c}                                     $
	2008
47.00	Wash, 100 lks. wide, drains NE.

	T. 12 N., R. 31 E., MOUNT DIABLO MERIDIAN, NEVADA
CHAINS 79.946	The cor. of secs. 7, 8, 17 and 18.
	Land, rolling. Soil, sandy loam and rocky. Vegetation, shadscale and low brush.
	N. 89°59'50" W., bet. secs. 7 and 18.
	Over broken land, through medium undergrowth.
40.000	Point for the $1/4$ sec. cor. of secs. 7 and 18.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 20 ins. in the ground, to bedrock, over a plastic-encased magnet and in a mound of stone, 3 ft. base, to top, with brass cap mkd.
	T12N R31E
	$1/4 \frac{S}{S18}$
	2008
44.50	Wash, 20 lks. wide, drains NNW.
45.80	Wash, 10 lks. wide, drains NE.
46.45	Dirt road, 15 lks. wide, bears NE. and SW.
65.70	Wash, 20 lks. wide, drains NNE.
79.776	The cor. of secs. 7, 12, 13 and 18, on the W. bdy. of the Tp., hereinbefore described.
	Land, broken. Soil, sandy loam and rocky. Vegetation, shadscale and low brush.
	From the cor. of secs. 7, 8, 17 and 18.
	N. 0°03'30" W., bet. secs. 7 and 8.
	Over broken land, through medium undergrowth.
40.000	Point for the $1/4$ sec. cor. of secs. 7 and 8.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, over a plastic-encased magnet and in a mound of stone, 3 ft. base, to top, with brass cap mkd.
	T12N R31E 1/4 S 7 S 8
	2008
42.25	Dirt road, 15 lks. wide, bears ENE. and WSW.
46.20	Wash, 75 lks. wide, drains NE.

CHAINS 80.000	Point for the cor. of secs. 5, 6, 7 and 8.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, over a plastic-encased magnet and in a mound of stone, 3 ft. base, to top, with brass cap mkd.
	T12N R31E S 6 S 5 S 7 S 8
	2008
	Land, broken. Soil, sandy loam and rocky. Vegetation, shadscale and low brush.
	From the cor. of secs. 4, 5, 8 and 9.
	N. 89°59'30" W., bet. secs. 5 and 8.
	Over rolling land, through medium undergrowth.
39.973	Point for the $1/4$ sec. cor. of secs. 5 and 8.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, over a plastic-encased magnet and in a mound of stone, 3 ft. base, to top, with brass cap mkd.
	T12N R31E $1/4 \frac{S}{S} \frac{5}{8}$
	2008
79.946	The cor. of secs. 5, 6, 7 and 8.
	Land, rolling. Soil, sandy loam and rocky. Vegetation, shadscale and low brush.
	N. 89°59'50" W., bet. secs. 6 and 7.
	Over rolling land, through medium undergrowth.
40.000	Point for the 1/4 sec. cor. of secs. 6 and 7.
	Set a brass tablet, 3 1/4 ins. diam., 2-in. stem, in a drill hole in a basalt shelf, with top mkd.
	T12N R31E $ \begin{array}{c} S & 6 \\ 1/4 & \hline S & 7 \end{array} $
	2008
	2000

	T. 12 N., R. 31 E., MOUNT DIABLO MERIDIAN, NEVADA
CHAINS	from which
	A chiseled X followed by the letters BO, bears N. $45^{\circ}42'$ E., $22.5$ lks. dist., mkd. on basalt rock surface.
	A chiseled X followed by the letters BO, bears S. $7^{\circ}05'$ W., $29.0$ lks. dist., mkd. on basalt rock surface.
79.729	The cor. of secs. 1, 6, 7 and 12, on the W. bdy. of the Tp., hereinbefore described.
	Land, rolling. Soil, sandy loam and rocky. Vegetation, shadscale and low brush.
	From the cor. of secs. 5, 6, 7 and 8.
	N. 0°08'20" W., bet. secs. 5 and 6.
	Over gradual NE. slope, through medium undergrowth.
40.000	Point for the $1/4$ sec. cor. of secs. 5 and 6.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, over a plastic-encased magnet and in a collar of stone, 2 ft. base, with brass cap mkd.
	T12N R31E 1/4
	S 6   S 5
	2008
50.45	Graded dirt road, 50 lks. wide, bears N. 60° W. and S. 60° E.
78.217	The cor. of secs. 5, 6, 31 and 32, on the N. bdy. of the Tp., hereinbefore described.
	Land, gently sloping. Soil, sandy loam.
	Vegetation, shadscale and low brush.

#### T. 12 N., R. 31 E., MOUNT DIABLO MERIDIAN, NEVADA

#### CHAINS GENERAL DESCRIPTION

The land encompassed in this survey is located on the NE. side of the Gillis Range, approximately 15 miles east of Schurz, Nevada, accessed by way of Double Springs Road and within the Walker River Indian Reservation.

The land is volcanic mountains in the southwest portion changing to level lands in the northeast portion. The general course of drainages is northeast, terminating at an intermittent dry lake bed lying north of the project area. The elevations range from approximately 5800 ft. above sea level along the south boundary

of the township to approximately 4300 ft. above sea level at the corner of secs. 3 and 4, on the north boundary of the township. The soil is sandy loam in the low lying areas to rocky in the upper mountainous portions with the vegetation consisting mostly of shadscale and low brush with some sagebrush and small amounts of bunchgrass in the upper elevations. Double Springs Road is a well maintained graded dirt road which leads to Rawhide, Nevada, with four wheel drive roads accessing Centipede Mine, located in the eastern portion of section 18 and running along Hidden Wash in the eastern portion of the project, accessing remote areas of the Gillis Range. Centipede Mine, which consists of a few abandoned tunnels, is located on a basalt dome in section 18.

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

#### FIELD ASSISTANTS

Steven E. Dagitz

Student Trainee (Land Surveying)

Edward J. Graham

Surveying Technician

Sean M. Neuffer

Surveying Technician

Phillip D. Van Buren

Surveying Technician

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#### CERTIFICATE OF SURVEY

We, David J. Clark, Cadastral Surveyor, and Mark G. Petrosine, Surveying Technician, HEREBY CERTIFY upon honor that, in pursuance of Special Instructions bearing date of the 30th day of May, 2008, we have surveyed the west boundary, a portion of the north boundary and a portion of the subdivisional lines of Township 12 North, Range 31 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.

September 30, 2009

(Date)

Cadastral Surveyor)

September 30, 2009

(Date)

#### CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT Reno, Nevada

The foregoing field notes of the survey of the west boundary, a portion of the north boundary and a portion of the subdivisional lines of Township 12 North, Range 31 East, Mount Diablo Meridian, Nevada, executed by David J. Clark, Cadastral Surveyor, and Mark G. Petrosine, Surveying Technician, having been critically examined and found correct, are hereby approved.

October 1, 2009

(Date)

(Acting Chief Cadastral Surveyor, Nevada)

#### CERTIFICATE OF TRANSCRIPT

I CERTIFY that the foregoing transcript of the field notes of the above described surveys in T. 12 N., R. 31 E., Mount Diablo Meridian, Nevada, is a true copy of the original field notes.

Date) (Acting Chief Cadastral Surveyor, Nevada)