

ORIGINAL

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

FIELD NOTES
OF THE
DEPENDENT RESURVEY OF A PORTION
OF THE EAST BOUNDARY,
A PORTION OF THE SUBDIVISIONAL LINES
AND
MINERAL SURVEY NUMBER 1429, SUN RISE LODE,

TOWNSHIP 14 NORTH, RANGE 19 WEST,
OF THE GILA AND SALT RIVER MERIDIAN,
IN THE STATE OF ARIZONA.

EXECUTED BY

Adrien J. Rodriguez, Cadastral Surveyor

Under Special Instructions dated April 30, 2003, approved April 30, 2003, which provided for the surveys included under Group No. 903, and assignment instructions dated April 30, 2003.

Survey commenced May 7, 2003

Survey completed May 15, 2003

INDEX DIAGRAM

TOWNSHIP 14 NORTH RANGE 19 WEST

6	5	4	3	2	1
7	8	9	10	11	12
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T. 14 N., R. 19 W., Gila and Salt River Meridian, Arizona

CHAINS

The following field notes describe the dependent resurvey of a portion of the east boundary, a portion of the subdivisional lines and Mineral Survey No. 1429, Sun Rise Lode, Township 14 North, Range 19 West, Gila and Salt River Meridian, Arizona.

The history of surveys pertaining to this survey is as follows:

O.F. Kuencer surveyed Mineral Survey Number 1429, Sun Rise Lode in 1899. Albert Smith, Jr. and J.M. McKinney, Jr. surveyed the west boundary in 1915. Albert Smith, Jr. and Deane J. Wolff surveyed the subdivisional lines in 1916.

The survey was executed in accordance with the specifications as set forth in the Manual of Instructions for the Survey of the Public Lands of the United States, 1973, and the Special Instructions dated April 30, 2003, for Group No. 903, Arizona.

The true meridian direction and length of all lines were determined by real time kinematic global positioning system observations using Trimble Navigation 4400 model receivers.

Preliminary to the resurvey, the lines of the prior surveys were retraced and search was made for all corners and other calls of record. Identified corners were remonumented in their original positions. Lost corners were reestablished and remonumented at proportionate positions based on the official record. The retracement data were thoroughly verified and only the true line field notes are given herein.

Geodetic control was derived from Global Positioning System (GPS) static post observations processed by National Geodetic Survey, Online Positioning User Service (OPUS), utilizing Continuously Operating Reference Stations (CORS) BLYTHE PPGA STA CORS ARP, KINGMAN CORS ARP and FERNO MESA CORS ARP. The NAD 83 (CORS96)(EPOCH: 2002), geographic position of the corner of sections 13, 18, 19 and 24, on the east boundary of the township, is as follows:

Latitude: 34°32'46.86" N. Longitude: 114°11'38.08" W.

The mean magnetic declination is 13° E.

**Dependent Resurvey of a Portion of the East Boundary,
T. 14 N., R. 19 W., Gila and Salt River Meridian, Arizona**

Restoring the survey executed by
Albert Smith, Jr. and J.M. McKinney, Jr., in 1915

Dependent Resurvey of a Portion of the East Boundary,
T. 14 N., R. 19 W., Gila and Salt River Meridian, Arizona

CHAINS

Beginning at the cor. of secs. 13, 18, 19, and 24, on the E. bdy. of the Tp., monumented with a granite stone, 14 x 11 x 6 ins., firmly set, projecting 7 ins. above ground, with an accessory mound of stone, 3 ft. base, 2 ft. high, to the W., mkd. with 3 notches on the N. and S. faces.

At the corner point

Set a stainless steel post, 28 ins. long, 2½ ins. diam., 13 ins. in the ground, in a mound of stone, 3 ft. base, to top, with brass cap mkd.

T 14 N	
R 19 W	R 18 W
S 13	S 18
S 24	S 19

2003

Deposit nails, 6 ins. long x 1/4 in. diam., at the base of the stainless steel post and bury the original stone alongside the stainless steel post.

N. 0°04' E., bet. secs. 13 and 18.

Over broken and rocky terrain covered with scattered cacti.

- 16.71 Intersect line 3-4, M.S. No. 1429, Sun Rise Lode, at a point from which Cor. No. 3 bears S. 9°43' W., 9.78 chs. dist, hereinafter described.
- 28.31 Intersect line 4-1, M.S. No. 1429, Sun Rise Lode, at a point from which Cor. No. 4 bears S. 80°04' E., 1.95 chs. dist, hereinafter described.
- 39.92 The 1/4 sec. cor. of secs. 13 and 18, monumented with a granite stone, 24 x 14 x 9 ins., firmly set, projecting 6 ins. above ground, with an accessory mound of stone, 3 ft. base, 2 ft. high, to the W., mkd. 1/4 on the W. face.
- At the corner point
- Set a stainless steel post, 28 ins. long, 2½ ins. diam., 10 ins. in the ground, in a supporting mound of stone, 4 ft. base, to top, with brass cap mkd.

**Dependent Resurvey of a Portion of the East Boundary,
T. 14 N., R. 19 W., Gila and Salt River Meridian, Arizona**

CHAINS

T 14 N
1/4
R 19 W | R 18 W
S 13 | S 18

2003

Deposit nails, 6 ins. long x 1/4 in. diam., at the base of the stainless steel post and bury the original stone alongside the stainless steel post.

**Dependent Resurvey of a Portion of the Subdivisional Lines,
T. 14 N., R. 19 W., Gila and Salt River Meridian, Arizona**

Restoring the survey executed by
Albert Smith, Jr. and Deane J. Wolff, in 1916

From the cor. of secs. 13, 18, 19 and 24, on the E. bdy. of the Tp., hereinbefore described.

N. 89°50' W., bet. secs. 13 and 24.

Over broken and rocky terrain covered with scattered cacti.

39.86

The 1/4 sec. cor. of secs. 13 and 24, monumented with a granite stone, 15 x 7 x 6 ins., firmly set, projecting 9 ins. above ground, mkd. 1/4 on the N. face.

At the corner point

Set a stainless steel post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.

T 14 N R 19 W
S 13
1/4 ———
S 24

2003

Raise a mound of stone, 5 ft. base, 2½ ft. high, to the N.

Dependent Resurvey of M.S. No. 1429, Sun Rise Lode,
T. 14 N., R. 19 W., Gila and Salt River Meridian, Arizona

CHAINS

Restoring the survey executed by
O.F. Kuencer, in 1899

From Cor. No. 1, M.S. No. 1429, Sun Rise Lode, monumented with a granite rock outcrop, 8 x 6 x 6 ft., mkd. BR + 1 142, from which the original bearing object

A granite rock outcrop, 3 x 2 x 1 ft., bears S. 80° E., 107 lks. dist., mkd. X on top. (Record: S. 81°25' E., 73.0 ft. dist.)

and a bearing object of unknown origin

A granite rock outcrop, 5 x 3 x 2 ft., bears N. 45½° E., 30 lks. dist., mkd. BR+1 1249 on S. face.

At the corner point

Set a brass tablet, 3½ ins. diam., 3½ ins. stem, cemented in a drill hole in solid rock, with top mkd.

T 14 N R 19 W

S13

1

MS 1429

2003

Deposit a magnet at the base of the brass tablet.

From this cor. point, the center of an antenna tower, 4½ x 4½ x 4½ ft., bears S. 83°58' E., 3.37 chs. dist.

From this same cor. point, the center of an antenna tower, 1 x 1 x 1 ft., bears S. 81°15' E., 3.81 chs. dist.

From this same cor. point, a rebar, . in. diam, firmly set, projecting 4 ins. above ground, in a collar of stone, with affixed orange plastic cap mkd. with illegible markings, bears S. 9°16' W., 3.79 chs. dist.

From this same cor. point, U.S. Location Monument No. 1429, perpetuated by Derle D. Walker, Registered Land Surveyor No. 13023, in 1978-82, monumented with a rebar, . in. diam., firmly set, projecting 3 ins. above ground, with affixed aluminum cap, 2 ins. diam., mkd. USLM 1429, with an accessory mound of stone, 5 ft. base, 2½ high, to the N., bears N. 53°00' W., 6.64 chs. dist.

Dependent Resurvey of M.S. No. 1429, Sun Rise Lode,
T. 14 N., R. 19 W., Gila and Salt River Meridian, Arizona

CHAINS	
21.24	<p>S. 9°14' W., on line 1-2, M.S. No. 1429, Sun Rise Lode.</p> <p>Over broken and rocky terrain, covered with scattered cacti.</p> <p>Cor. No. 2, M.S. 1429, Sun Rise Lode, perpetuated by Derle D. Walker, Registered Land Surveyor No. 13023, in 1978-82, monumented with a rebar, $\frac{5}{8}$ in. diam., firmly set, projecting 4 ins. above ground, in a mound of stone, 3 ft. base, to top, with affixed aluminum cap, 2 ins. diam., mkd. MS1429 2 RLS 13023, from which the original bearing object</p> <p style="padding-left: 40px;">A granite boulder, 4 x 3 x 2 ft., bears N. 45°55' E., 55½ lks. (36.75 ft.) dist., mkd. BR+2 1429 on SW face.</p> <p>and a bearing object established by Derle D. Walker, Arizona Registered Land Surveyor No. 13023, in 1978-82</p> <p style="padding-left: 40px;">A nail and washer, bears S. 60¼° W., 21 lks. dist., mkd. RLS 13023.</p> <p>At the corner point</p> <p>Set a stainless steel post, 28 ins. long, 2½ ins. diam., 10 ins. in the ground, in a mound of stone, 4 ft. base, to top, with brass cap mkd.</p> <div style="text-align: center; margin: 20px 0;"> <p>T 14 N R 19 W</p> <p style="margin-left: 100px;">MS 1429</p> <p style="margin-left: 80px;">S13 2</p> <p style="margin-left: 100px;">2003</p> </div> <p>Deposit a magnet in a white plastic case at the base of the stainless steel post and place rebar, 16 ins. long, inside the stainless steel post.</p> <p>A wood post, 36 x 6 x 6 ins., was found lying loose on its side NW of the cor. point.</p>
4.46	<hr/> <p>S. 80°14' E., on line 2-3, M.S. No. 1492, Sun Rise Lode.</p> <p>Over broken and rocky terrain, covered with scattered cacti.</p> <p>The south end center, M.S. No. 1429, Sun Rise Lode, monumented with a wood post, 36 x 6 x 6 ins., loosely set in a mound of stone, 3 ft. base, 2 ft. high.</p> <p>At the corner point</p>

Dependent Resurvey of M.S. No. 1429, Sun Rise Lode,
T. 14 N., R. 19 W., Gila and Salt River Meridian, Arizona

CHAINS	<p>Set a stainless steel post, 28 ins. long, 2½ ins. diam., 15 ins. in the ground, in a supporting mound of stone, 4 ft. base, to top, with brass cap mkd.</p> <p style="text-align: center;">T 14 N R 19 W MS 1492 SEC ----- S 13 2003</p> <p>Deposit a magnet in a white plastic case at the base of the stainless steel post and incorporate original wooden post into mound of stone.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>S. 80°14' E., beginning new measurement.</p> <p>Over broken and rocky terrain, covered with scattered cacti.</p> <p>4.55 Cor. No. 3, M.S. No. 1429, Sun Rise Lode, determined at record bearing and distance from the original bearing object</p> <p style="padding-left: 40px;">A granite rock outcrop, 30 x 20 x 20 ft., bears N. 50°55' E., 174 lks. (115.0 ft.) dist., mkd. BR+3 1429 on SW face.</p> <p>At the corner point</p> <p>Set a stainless steel post, 28 ins. long, 2½ ins. diam., 10 ins. in the ground, in a mound of stone, 4 ft. base, to top, with brass cap mkd.</p> <p style="text-align: center;">T 14 N R 19 W MS 1429 3 S13 ----- 2003</p> <p>Deposit a magnet in a white plastic case at the base of the stainless steel post.</p> <p>A wood post, 36 x 6 x 6 ins., was found lying loose on its side SE of the cor. point.</p> <p>From this cor. point, a rebar, ⅝ in. diam., firmly set, flush with the ground, with affixed aluminum cap, 2 ins. diam., mkd. MS 1429 3 RLS 13023, in a collar of stone, bears N. 37°43' W., 0.03 ch. dist.</p> <hr style="width: 20%; margin: 10px auto;"/>
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Dependent Resurvey of M.S. No. 1429, Sun Rise Lode,
T. 14 N., R. 19 W., Gila and Salt River Meridian, Arizona

CHAINS

N. 9°43' E., on line 3-4, M.S. No. 1429, Sun Rise Lode.

Over broken and rocky terrain, covered with scattered cacti.

9.78 Intersect the line bet. secs. 13 and 18, at a point from which the cor. of secs. 13, 18, 19, and 24 bears S. 0°04' W., 16.71 chs. dist., hereinbefore described.

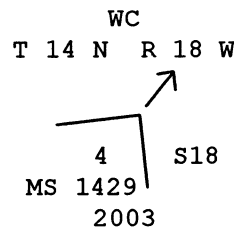
21.22 Cor. No. 4, M.S. No. 1429, Sun Rise Lode, determined at record bearing and distance from the original bearing object

A granite rock outcrop, 36 x 24 x 14 ins., bears N. 88°45' W., 79 lks. (52.4 ft.) dist., mkd. BR+4 1429 on E face.

Point falls on precipitous and eroding slope, where it is impracticable to establish a permanent monument.

From this point, the point selected for the witness cor. to cor. 4, bears S. 51°40' W., 0.36 ch. dist.

Set a brass tablet, 3¼ ins. diam., 3½ ins. stem, cemented in a drill hole in a granite boulder, 7 x 4½ x 3 ft., on top face, with top mkd.



Deposit a magnet at the base of the brass tablet.

From this cor. point, a rebar, ⅝ in. diam., firmly set, projecting 1 in. above ground, with affixed orange plastic cap, 1¼ in. diam., mkd. RW HOLMQUIST AZ RLS 25074, with an accessory mound of stone, 1½ ft. base, 1 ft. high, to the W., bears S. 10°41' W., 3.80 chs. dist.

From this same cor. point, a rebar, ⅝ in. diam., firmly set, projecting 3 ins. above ground, in a collar of stone, with affixed aluminum cap, 2 ins. diam., mkd. MS 1429 4 RLS 13023, bears N. 82°22' W., 0.09 ch. dist.

From this same cor. point, the SE cor. of a building, 30 x 20 ft., bears N. 79°13' W., 4.16 chs. dist., long side bears N. 53° W.

Dependent Resurvey of M.S. No. 1429, Sun Rise Lode,
T. 14 N., R. 19 W., Gila and Salt River Meridian, Arizona

<p>CHAINS</p>	<p>N. 80°04' W., on line 4-1, M.S. No. 1429, Sun Rise Lode.</p> <p>Over broken and rocky terrain, covered with scattered cacti.</p> <p>1.95 Intersect the line bet. secs. 13 and 18, at a point from which the 1/4 sec. cor. of secs. 13 and 18 bears N. 0°04' E., 11.61 chs. dist., hereinbefore described.</p> <p>9.19 Cor. No. 1, M.S. No. 1429, Sunrise Lode.</p> <hr/> <p style="text-align: center;">GENERAL DESCRIPTION</p> <hr/> <p>This survey is located near Lake Havasu City, Arizona. Elevations range from about 4000 to 5000 feet above sea level.</p> <p>The land is mountainous, with scattered shrub like palo verde, greasewood, ocotillo and many varieties of cacti.</p> <p>Access is by way of various unmarked graded roads to Crossman Peak.</p> <p>The mean magnetic declination of 13° E. was derived from the computer program GEOMAGIX, utilizing the World Magnetic Model for Epoch 2000 for the dates of survey.</p> <hr/>
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CERTIFICATE OF SURVEY

I, Adrien J. Rodriguez, Cadastral Surveyor, HEREBY CERTIFY upon honor, that in pursuance of special instructions bearing date of the 30th day of April, 2003, I have dependently resurveyed a portion of the east boundary, a portion of the subdivisional lines and Mineral Survey Number 1429, Sun Rise Lode, T. 14 N., R. 19 W., of the Gila and Salt River Meridian, in the State of Arizona, which are represented in the foregoing field notes as having been executed by me and under my direction. 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.

July 31, 2003
(Date)

Adrien J. Rodriguez
(Cadastral Surveyor)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT
Phoenix, Arizona

The foregoing field notes of the dependent resurvey of a portion of the east boundary, a portion of the subdivisional lines and Mineral Survey Number 1429, Sun Rise Lode, T. 14 N., R. 19 W., Gila and Salt River Meridian, in the State of Arizona, executed by Adrien J. Rodriguez, Cadastral Surveyor, having been critically examined and found correct, are hereby approved.

August 28, 2003
(Date)

Kenny D. Rawnikar
(Chief Cadastral Surveyor of Arizona)

CERTIFICATE OF TRANSCRIPT

I CERTIFY That the foregoing transcript of the field notes of the above described surveys in T. 14 N., R. 19 W., Gila and Salt River Meridian, Arizona, is a true copy of the original field notes.

(Date)

(Chief Cadastral Surveyor of Arizona)