

ORIGINAL

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

FIELD NOTES
OF THE
DEPENDENT RESURVEY OF THE BRIGHTER DAYS LODE,
A PORTION
OF MINERAL SURVEY NO. 1510
TOWNSHIPS 23 NORTH, RANGES 17 AND 18 WEST,
OF THE GILA AND SALT RIVER MERIDIAN,
IN THE STATE OF ARIZONA.

EXECUTED BY

Geoffrey A. Graham, Cadastral Surveyor

Under Special Instructions dated July 21, 2011, approved July 21, which provided for the surveys included under Group No. 1099, and assignment instructions dated July 21, 2011.

Survey commenced July 25, 2011

Survey completed July 27, 2011

INDEX DIAGRAM

TOWNSHIPS 23 NORTH RANGES 17 AND 18 EAST
GILA AND SALT RIVER MERIDIAN, ARIZONA

Dependent Resurvey of the Brighter Days Lode,
a portion of Mineral Survey No. 1510Pages 4-6

Tps. 23 N., Rs. 17 and 18 W., Gila and Salt River Meridian, Arizona

FEET

The following field notes describe the dependent resurvey of the Brighter Days Lode, a portion of Mineral Survey Number 1510, Townships 23 North, Ranges 17 and 18 West, Gila and Salt River Meridian, Arizona.

The history of surveys and actions pertaining to this resurvey is as follows:

In 1872, O.H. Case surveyed the boundaries and subdivisional lines of Township 23 North, Range 18 West. In 1900, O.F. Kuencer surveyed three lodes for Mineral Survey Number 1510. Patent number 35838 was issued for the lodes in mineral survey number 1510 in 1902. In 1916, G.H. Richardson and Hugo Price resurveyed the East boundary of Township 23 North, Range 18 West. In 2011 this resurvey was requested and executed to locate the mining shaft involved in a 2007 accident and fatality in relation to mineral survey number 1510.

The survey was executed in accordance with the specifications as set forth in the Manual of Surveying Instructions for the Survey of the Public Lands of the United States, 2009, and the Special Instructions dated July 21, 2011, for Group Number 1099, Arizona.

The true meridian direction and length of all lines were determined by static and real time kinematic global positioning system observations using Trimble Navigation 5700 and 5800 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. The retracement data were thoroughly verified and only the true line field notes are given herein.

Geodetic control was derived from Global Navigation Satellite System (GNSS) static observations, post processed by National Geodetic Survey, Online Positioning User Service (OPUS), utilizing Continuously Operating Reference Stations (CORS) AM7015 KING KINGMAN, DL6902 NVLA LAUGHLIN and DM7868 GOLDEN VALLEY. The NAD 83 (CORS96) (EPOCH: 2002), geographic position of the E. 1/4 section corner of section 1 only, Township 23 North, Range 18 West, is as follows:

Latitude: 35°24'40.469" N. Longitude: 114°08'51.811" W.

The mean magnetic declination is 12° E.

**Dependent Resurvey of the Brighter Days Lode,
a portion of Mineral Survey No. 1510,
Tps. 23 N., Rs. 17 and 18 W., Gila and Salt River Meridian, Arizona**

FEET	
	<p>Restoring the survey executed by O. F. Kuencer, in 1900</p> <hr/>
	<p>Beginning at cor. No. 1, Brighter Days Lode, monumented with a granite boulder, in place, 2 X 4 ft., 1 ft. high, mkd. + on NW face. No other marks found. The location monument, a mound of stone, 3 ft. base 1 1/2 ft. high with a 4 x 4 in. wood post, bears NW., 2 ft. dist. The record accessory bearing object was not recovered; the original position of the bearing object is determined to fall in an unmaintained mine access road, 12 ft. wide, bears S. 60° E., and N. 60° W.</p>
	<p>From this cor., the E. 1/4 section cor. of sec. 1, T. 23 N., R. 18 W. only, bears N. 8°49' W., 1023.2 ft. dist., monumented with an iron post, 1 in. diam., loosely set, projecting 18 ins. above a supporting mound of stone, with brass cap mkd. S 1 1/4 1916. An accessory mound of stone, 3 ft. base, 2 ft. high is W. of the cor.</p>
	<p>Rebuild supporting mound of stone, 4 ft. base, 3 ft. high, utilizing the accessory mound of stone. The iron post now projects 12 ins. above the supporting mound of stone. Add the marks T23W R18W 2011 to the brass cap.</p>
	<p>N. 67°29' E., on line 1 - 2, Brighter Days Lode.</p>
297.4	<p>The SE end center, Brighter Days Lode, monumented with a granite stone, 15 x 17 ins., firmly set, projecting 18 ins. above the ground, mkd. + on top and - 1510 SE on the northern face. An accessory mound of stone 2 ft. base 2 ft. high is easterly of the cor.</p> <hr/>
	<p>N. 68°14' E., beginning new measurement on line 1 - 2, Brighter Days Lode.</p>
299.6	<p>Cor. No. 2, Brighter Days Lode, monumented with a granite stone, 5 x 22 ins., firmly set, projecting 19 ins. above the ground, in a collar of stone, mkd. + 2 - 1510 on northerly face. The record accessory bearing object, a 4 ft. boulder in place, bears S. 88°50' E., 19 ft. dist., with no marks visible.</p> <hr/>
	<p>N. 21°42' W., on line 2 - 3, Brighter Days Lode.</p>
698.3	<p>The E. side center, Brighter Days Lode, monumented with a granite stone, 10 x 16 ins., firmly set, projecting 17 ins. above the ground, mkd. + on top and ECS-1510 on westerly face. An accessory mound of stone, 2 ft. base, 2 ft. high is southerly of the cor.</p> <hr/>

**Dependent Resurvey of the Brighter Days Lode,
a portion of Mineral Survey No. 1510,
Tps. 23 N., Rs. 17 and 18 W., Gila and Salt River Meridian, Arizona**

FEET	
	N. 21°52' W., beginning new measurement on line 2 - 3, Brighter Days Lode.
703.8	Cor. No. 3, Brighter Days Lode, identical with cor. No. 4, Lucky Boy Lode, monumented with a granite stone, 5 x 19 ins., firmly set, projecting 18 ins. above the ground, in a collar of stone, mkd. + 1510 on top, 3 BD on southern face, 4 LB on northern face. An accessory mound of stone 2 ft. base, 2 ft. high is southerly of the cor. The record accessory bearing object, a 17 in. granite reef, is recovered N. 40°40' W., 3 ft. dist., with no marks visible.
	<hr/>
	S. 67°56' W., on line 3 - 4, Brighter Days Lode.
300.6	The NW end center, Brighter Days Lode, identical with the SE. end center Lucky Boy Lode, monumented with a granite stone, 9 X 15 ins., firmly set, projecting 12 ins. above the ground, mkd. + 1510 on top, NEC BD on southern face, SEC LB on northern face. An accessory mound of stone, 2 ft. base, 3 ft. high is easterly of the cor.
	From this cor., the abandoned mine shaft, the site of the 2007 accident, bears S. 29°24' E., 168 ft. dist.
	<hr/>
	S. 68°07' W., beginning new measurement on line 3 - 4, Brighter days Lode.
51.0	Mine access road, unmaintained two track, 10 ft. wide, bears S. 45° E., and N. 45° W.
299.7	Cor. No. 4, Brighter Days Lode, identical with cor. No. 1, Lucky Boy Lode, monumented with a granite stone, 9 x 12 ins., firmly set, projecting 19 ins. above a supporting mound of stone, 3 ft. base, 1 1/2 ft. high, mkd. + 1510 on top, 4 BD on southern face, 1 LB on northern face. The record bearing object, a + on a granite outcrop 4 x 6 ft., with a face 19 x 25 ins., mkd. + BR - 1510, bears S. 78°43' W., 37.6 ft. dist. (Record: S. 77°35' W.)
	<hr/>
	S. 22°02' E., on line 4 - 1, Brighter Days Lode.
167.4	From this point, the abandoned mine shaft, the site of the 2007 accident, bears N. 67°58' E., 321 ft. dist.
701.4	The W. side center, Brighter Days Lode, monumented with a granite stone, 6 x 18 ins., firmly set, projecting 19 ins. above the ground, mkd. + on top, WCS - 1510 on eastern face. An accessory mound of stone 3 ft. base, 2 ft. high, is westerly of the cor.
	<hr/>

**Dependent Resurvey of the Brighter Days Lode,
a portion of Mineral Survey No. 1510,
Tps. 23 N., Rs. 17 and 18 W., Gila and Salt River Meridian, Arizona**

FEET	
	S. 21°49' E., beginning new measurement on line 4 - 1, Brighter Days Lode.
386.0	Mine access road, unmaintained two track, 10 ft. wide, bears N. 42° E., and S. 42° W.
456.0	Mine access road, unmaintained two track, 10 ft. wide, bears N. 6° E., and S. 6° W.
702.4	Cor. No. 1, Brighter Days Lode.
<hr/> GENERAL DESCRIPTION <hr/>	
<p>Located approximately 3 miles easterly of the community of Chloride, Arizona. Access is north from Kingman Arizona on U. S. Highway 93, then easterly into the Cerbat Mountains on Big Wash Road. Thence on an unmaintained two track road accessing mineral survey No. 1510. The shaft in question is determined to be within the Brighter Days Lode of Mineral Survey No. 1510.</p> <p>The elevation of the project ranged from 6310 to 5950 ft. above sea level. The area is rugged rocky terrain with very sparse timber of pinõn pine. The under growth consists of Manzanita, mountain mahogany, scrub oak, various cacti and other vegetation typical of the Semidesert Grassland biotic community.</p> <p>The mean magnetic declination of 12° E. was derived from the National Geophysical Data Center's magnetic declination calculator, GEOMAG v6.0, utilizing the International Geomagnetic Reference Field model for years 2005 through 2010, for the dates of survey.</p> <hr/>	

CERTIFICATE OF SURVEY

I, Geoffrey A. Graham, Cadastral Surveyor, HEREBY CERTIFY upon honor, that in pursuance of special instructions bearing date of the 21st day of July, 2011, I have dependently resurveyed the Brighter Days Lode, a portion of Mineral Survey No. 1510, Tps. 23 N., Rs. 17 and 18 W., of the Gila and Salt River Meridian, in the State of Arizona, which is 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 Surveying Instructions for the Survey of the Public Lands of the United States, 2009, and in the specific manner described in the foregoing field notes.

8/9/2011
(Date)

Geoffrey A. Graham
(Cadastral Surveyor)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT
Phoenix, Arizona

The foregoing field notes of the dependent resurvey of Brighter Days Lode, a portion of Mineral Survey No. 1510, Tps. 23 N., Rs. 17 and 18 W., Gila and Salt River Meridian, in the State of Arizona, executed by Geoffrey A. Graham, Cadastral Surveyor, having been critically examined and found correct, are hereby approved.

8/15/2011
(Date)

Danny J. West
(Chief Cadastral Surveyor of Arizona)

~~CERTIFICATE OF TRANSCRIPT~~

~~I CERTIFY That the foregoing transcript of the field notes of the above described survey in Tps. 23 N., Rs. 17 and 18 W., Gila and Salt River Meridian, Arizona, is a true copy of the original field notes.~~

~~(Date)~~

~~(Chief Cadastral Surveyor of Arizona)~~