



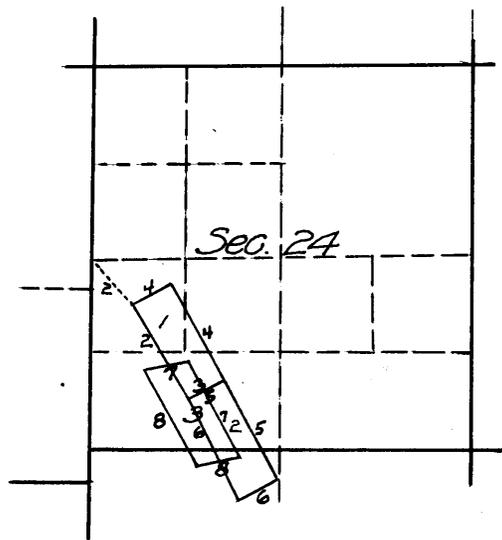
# INDEX DIAGRAM.

*Township* -----, *Range* -----

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# Index Diagram

T.11N., R.4W., G. and S.R.M.



- 1 Bull Dog Mining Claim.
- 2 Bull Dog No. 2 Mining Claim.
- 3 Remembrance Mining Claim.

T. 11 N., R. 4 W.

BOOK 4045

## Chains.

The survey of certain tracts and the retracements of the boundaries of sec. 24, T. 11 N., R. 4 W., G. & S.R. M. were executed with a light mountain transit made by Buff & Buff, Serial No. 16723, constructed in accordance with the standard specifications of the General Land Office. The horizontal circle has a diameter of  $4\frac{1}{2}$  inches, with two double opposite verniers reading to single minutes of arc; the vertical circle has a diameter of 4 ins., with one double vernier reading to single minutes. The instrument is equipped with the improved Smith solar attachment; radius of latitude arc  $2\frac{1}{2}$  inches, and of declination arc  $3\frac{1}{2}$  inches, each with verniers reading to single minutes. The instrument was in good condition, and having been placed in satisfactory adjustment prior to beginning the survey, and tested and found free from appreciable error, was approved by the district cadastral engineer on November 29, 1932. I examine all the instrumental adjustments before making the field tests hereinafter recorded.

The directions of all lines were determined by the solar transit method. The measurements were made with a Lallie steel tape, 5 chains in length, graduated every link for the first 100 links, and the remainder at intervals of 10 links. The tape was tested by comparison with a Keuffel & Esser standard and found correct. The measurements were made on the slope, and the vertical angle of each interval was ascertained by a clinometer in good adjustment; the horizontal equivalents are entered in the field note record.

The data furnished with the special instructions gives the geographic position of the SE. cor. of the Tp., as follows: latitude  $34^{\circ} 31' 32''$  N., and longitude  $112^{\circ} 38' 03''$  W.

April 17, 1933, in camp near the SE. cor. of secs. 24, T. 11 N., R. 4 W., at 6h 38m 20s p.m., l.m.t. or 7h 08m 56s p.m. by my watch, which reads correct 105th meridian time as determined from a Western Union clock, I make an hour angle observation on Polaris, west of the meridian, for latitude and azimuth, three each with the telescope in direct and reversed positions, reading the vertical angle and reading the horizontal deflection angle from a V shaped rock, about one mile distant, in the direction S-W-N to Polaris.

Mean horizontal angle rock to star	$152^{\circ} 20' 20''$ E-W-S
Azimuth of Polaris	$1^{\circ} 14' 54''$ W.
True bearing to rock	N. $153^{\circ} 35' 14''$ W.,
or	S. $26^{\circ} 24' 46''$ W.
Mean observed vertical angle	$34^{\circ} 05' 10''$
Reduced latitude	$34^{\circ} 15' 44''$ N.

The instrument having been in continuous use, therefore April 23, 1933, every hour from 8 to 11 a.m. and from 1 to 4 p.m., I make proper settings on the arcs of the solar attachment and ascertain that the resulting orientation of the instrument, when compared with the meridian established by Polaris observation, has a maximum error of less than  $1' 30''$ .

## SEGREGATION SURVEYS, T. 11 N., R. 4 W.

## Chains.

The boundaries of sec. 24, T. 11 N., R. 4 W., were surveyed by G. F. Sawyer, U. S. Surveyor and Wesson Cook, U. S. Transitman, in 1925.

In this assignment the boundaries of sec. 24 were retraced and all corners and topographic features found to be in substantial agreement with the official record.

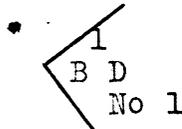
Metes-and-bounds surveys of bodies of land classified as mineral bearing, but not covered by a mineral patent survey in secs. 24 and 25, T. 11 N., R. 4 W.

The position of each mining claim was identified on the ground by a representative of the claimant, G. P. Henderson.

## BULL DOG MINING CLAIM.

Beginning at cor. No. 1 of the Bull Dog

Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for cor. No. 1, with brass cap mkd.



1933

raise a mound of stone, 3 ft. base, 2 ft. high, E. of cor.

The  $\frac{1}{4}$  sec. cor. on W. bdy. of sec. 24, T. 11 N., R. 4 W., bears N. 43° 08' W., 12.09 chs. dist.; an iron post, 1 in. diam., 10 ins. above ground, firmly set, marked and witnessed as described in the official record.

A corner of the location, bears N. 65° 00' W., 13 lks. dist.; an ash post, 4 ins. diam., 6 ins. above top of a stone mound, 3 ft. base, 3 ft. high.

Corner No. 1 is in the edge of a sandy wash, 10 lks. wide, course SE.

Thence

S. 31° 13' E., along bdy. of the Bull Dog mining claim.

Along wash.

.20 Leave wash, course SE.

.80 Thence along W. edge of wash.

2.70 Wash, turns more SE., enter dense undergrowth and scattering timber. Ascend 48 ft. over NE. slope.

8.50 Spur, slopes E., descend 50 ft. over SE. slope.

10.85 Wash, 10 lks. wide, course E., ascend 39 ft. over NE. slope.

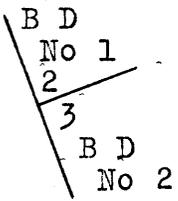
13.90 Intersect line 2-3 Remembrance mining claim of this survey.

14.50 Spur, slopes E., descend 63 ft. over SE. slope.

## SEGREGATION SURVEYS, T. 11 N., R. 4 W.

Chains.

## BULL DOG MINING CLAIM.

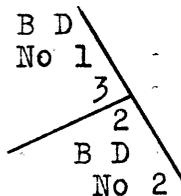
- 16.75 Road, bears E. and W.
- 18.50 E. edge of entrance to tunnel.
- 19.70 Arastra Creek, 50 lks. wide, water 5 lks. wide, 6 ins. deep, course N. 60° E.
- 20.45 Fence, bears N. 60° E. and S. 60° W.
- 21.70 A shaft, covered, bears S. 58° 47' W., 30 lks. dist.
- 22.00 Boiler house and machine shop, bears S. 57° 47' W., 50 lks. dist.
- 22.30 Road, bears N. 60° E. and S. 60° W.
- 22.73 Location cor. of the Bull Dog and Bull Dog No. 2 mining claims, which is an ash post, 4 ins. diam., 3½ ft. long, set in a mound of stone, 4 ft. base, 3 ft. high. At point for cor. with ash post alongside
- Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for cor. No. 2 of the Bull Dog and cor. No. 3 of the Bull Dog No. 2, with brass cap mkd.
- 
- 1933
- of stone, 3 ft. base, 2 ft. high, NE. of cor. on line. raise a mound
- Thence
- N. 59° 56' E., bet. the Bull Dog and Bull Dog No. 2 mining claims.
- Over nearly level land through timber and undergrowth.
- 1.02 Fence, bears NE. and SW.
- 2.04 Wash, 10 lks. wide, course NE. Ascend 23 ft. over NW. slope.
- 3.41 Intersect line 1-2 Remembrance mining claim of this survey.
- 4.20 An ash post, 4 ins. diam., set in a mound of stone, 4 ft. base, 3 ft. high, from which
- A mound of stone, 3 ft. base, 3 ft. high, bears N. 30° W., 30 lks. dist.
- Entrance to a tunnel, bears N. 30° W., 80 lks. dist.
- A mound of stone, 3 ft. base, 2 ft. high, alongside of a shaft, 10 x 10 ft., 10 ft. deep, bears S. 30° E., 25 lks. dist.
- 8.64 Location cor. of the Bull Dog and the Bull Dog No. 2 mining claims, which is an ash post, 4 ins. diam., 3½ ft. long, set in a mound of stone, 3 ft. base, 3 ft. high. At point for cor. with ash post alongside
- Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the

## SEGREGATION SURVEYS, T. 11 N., R. 4 W.

Chains.

## BULL DOG MINING CLAIM.

ground, for cor. No. 3 of the Bull Dog and cor. No. 2 of the Bull Dog No. 2, with brass cap mkd.



1933

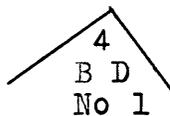
of stone, 3 ft. base, 2 ft. high, SW. of cor. on line. Raise a mound

Thence

N. 30° 04' W., along bdy. of the Bull Dog mining claim.

Descend 16 ft. through dense undergrowth and scattering timber.

- .10 Road, bears NE. and SW. to tunnel about 4.50 chs. dist.
- .65 Descend vertical bank, 8 ft. high, bears NE. and SW.
- 1.00 Arastra Creek, 40 lks. wide, course N. 60° E. Ascend 124 ft. over broken NW. slope.
- 2.70 Fence, bears NE. and SW. 1.00 ch. to SW. cor.
- 4.50 Fence, bears NE. and SW. 70 lks. from NW. cor.
- 4.70 Road, bears NE. and SW. A house, bears NE. 2.50 chs. dist.
- 5.46 Road, bears E. and W.
- 8.00 Wash, 20 lks. wide, course W.
- 22.72 Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, for cor. No. 4, with brass cap mkd.



1933

of stone, 3 ft. base, 2 ft. high, S. of cor. raise a mound

A corner of the location, bears N. 30° 04' W., 9 lks. dist.; an ash post, 4 ins. diam., 6 ins. above top of a mound of stone, 3 ft. base, 3 ft. high.

Thence

S. 59° 56' W., along bdy. of the Bull Dog mining claim.

Over broken SE. slope through dense undergrowth and scattering timber.

- 9.09 Cor. No. 1 and place of beginning.

Area of the Bull Dog mining claim 20.134 Acres.

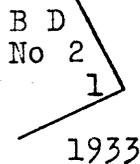
## SEGREGATION SURVEYS, T. 11 N., R. 4 W.

Chains.

## BULL DOG No. 2 MINING CLAIM.

Beginning at cor. No. 1 of the Bull Dog No. 2

Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for cor. No. 1, with brass cap mkd.



raise a mound

 of stone, 3 ft. base, 2 ft. high, NW. of cor.

A cor. of the location, bears S. 30° 17' E., 49 lks. dist.; an ash post, 3 ins. diam., 3 ft. long, set in a mound of stone, 2 ft. base, 1 ft. high.

Thence

N. 30° 17' W., along bdy. of the Bull Dog No. 2 mining claim.

Descend 88 ft. over NW, slope through dense undergrowth and scattering timber.

5.98 Intersect the line bet. secs. 24 and 25, T. 11 N., R. 4 W., at a point from which the  $\frac{1}{4}$  sec. cor., bears East, 3.85 chs. dist.; an iron post, 1 in. diam., 10 ins. above ground, firmly set, marked and witnessed as described in the official record.

9.50 Draw, 10 lks. wide, course NE. Ascend 47 ft. over SE. slope.

16.00 Spur, slopes NE. Descend 33 ft. over NW. slope.

18.10 Draw, 10 lks. wide, course NE. Ascend 33 ft. over SE. slope.

19.70 Spur, slopes NE. Descend 73 ft. over NW. slope.

22.72 To cor. No. 2 of the Bull Dog No. 2 and cor. No. 3 of the Bull Dog, hereinbefore described.

Thence

S. 59° 56' W., bet. the Bull Dog No. 2 and the Bull Dog mining claims.

Over broken land through timber and undergrowth. Descend 23 ft. over NW. slope.

4.44 An ash post, 4 ins. diam., set in a mound of stone, 4 ft. base, 3 ft. high, from which

A mound of stone, 3 ft. base, 3 ft. high, bears N. 30° W., 30 lks. dist.

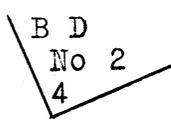
Entrance to a tunnel, bears N. 30° W., 80 lks. dist.

A mound of stone, 3 ft. base, 2 ft. high, alongside of a shaft, 10 x 10 ft., 10 ft. deep, bears S. 30° E., 25 lks. dist.

5.23 Intersect line 1-2 Remembrance mining claim of this survey.

6.60 Wash, 10 lks. wide, course NE. Thence over nearly level land.

## SEGREGATION SURVEYS, T. 11 N., R. 4 W.

Chains.	
	BULL DOG No. 2 MINING CLAIM.
7.62	Fence, bears NE. and SW.
8.64	Cor. No. 3 of the Bull Dog No. 2 and cor. No. 2 of the Bull Dog, hereinbefore described.
	Thence
	S. 29° 36' E., along bdy. of the Bull Dog No. 2 mining claim.
	Over rolling land through dense undergrowth and scattering timber.
10.40	Fence, bears NE. and SW.
10.90	Wash, 20 lks. wide, course NE. Ascend 75 ft. over NW. slope.
10.70	Spur, slopes W. Descend 29 ft. over SW. slope.
11.66	Intersect the line bet. secs. 24 and 25 at a point, from which, the $\frac{1}{4}$ sec. cor., bears East, 14.02 chs. dist., hereinbefore described.
	Foot of descent, ascend slightly over N. slope.
14.05	Intersect line 4-1 Remembrance mining claim of this survey.
22.72	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for cor. No. 4, with brass cap mkd.
	
	1933
	raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.
	A corner of the location, bears S. 29° 36' E., 59 lks. dist.; an ash post, 4 ins. diam., set in a mound of stone, 3 ft. base, 2 ft. high.
	Thence
	N. 59° 56' E., along bdy. of the Bull Dog No. 2 mining claim.
	Ascend 28 ft. along NW. slope through dense undergrowth and scattering timber.
8.91	Cor. No. 1 and place of beginning.
	Area of Bull Dog No. 2                      19.94                      Acres. ✓
	REMEMBRANCE MINING CLAIM.
	Beginning at cor. No. 1 of the Remembrance mining claim
	Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for cor. No. 1, with brass cap mkd.
	
	1933
	raise a mound

## SEGREGATION SURVEYS, T. 11 N., R. 4 W.

Chains.

## REMEMBRANCE MINING CLAIM.

of stone, 3 ft. base, 2 ft. high, W. of cor.

A corner of the location, bears S. 36° E., 4.18 chs. dist., a scattered mound of stone.

Thence

N. 29° 31' W., along bdy. of the Remembrance mining claim.

Ascend 69 ft. over SE. slope through dense undergrowth and scattering timber.

- 1.50 Intersect the line bet. secs. 24 and 25, T. 11 N., R. 4 W., at a point from which the  $\frac{1}{4}$  sec. cor., bears East, 10.08 chs. dist.; hereinbefore described.
- 2.10 Draw, 5 lks. wide, 2 ft. deep, course SE. along side-hill.
- 9.90 Spur, slopes NE. Descend 106 ft. over NW. slope.
- 15.22 Intersect line 2-3 of the Bull Dog No. 2 identical with line 2-3 of the Bull Dog of this survey.
- 15.50 Entrance to old tunnel, bears S. 60° 30' W., 10 lks. dist.
- 16.50 Road, bears NE. and SW.
- 17.00 Arastra Creek, 50 lks. wide, water 5 lks. wide, 6 ins. deep, course E. Ascend 32 ft. over SE. slope.
- 20.90 Road, bears E. and W.
- 22.80 A cor. of the location, which is a scattered mound of stone. At point for cor.

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, for cor. No. 2, with brass cap mkd.



1933

raise a mound of stone, 3 ft. base, 2 ft. high, S. of cor.

Thence

S. 77° 36' W., along bdy. of the Remembrance mining claim.

Ascend 81 ft. over E. slope, through dense undergrowth and scattering timber.

- 3.88 Intersect line 1-2 Bull Dog of this survey.
- 4.75 An old shaft, 6 x 6 ft., 5 ft. deep, bears S. 12° 24' E., 30 lks. dist.
- 8.84 A cor. of the location, which is a small mound of stone, 2 ft. base, 1 ft. high. At point for cor.

Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, for cor. No. 3, with brass cap mkd.



1933

raise a mound of stone, 3 ft. base, 2 ft. high, SE. of cor.

## SEGREGATION SURVEYS, T. 11 N., R. 4 W.

Chains.	REMEMBRANCE MINING CLAIM.
	Thence
	S. 28° 00' E., along bdy. of the Remembrance mining claim.
	Descend 100 ft. over S. slope, through dense undergrowth and scattering timber.
3.45	Road, bears E. and W.
4.30	Road, bears E. and W.
6.40	Arastra Creek, 50 lks. wide, course E.
6.90	Fence, bears E. and W.
8.00	NE. cor. of small house, bears SW. 2 lks. dist.
9.10	Road, bears E. and W.
9.80	NW. cor. of residence, G. P. Henderson, bears N. 62° 00' E., 1.00 ch. dist.
11.47	E. side of water tank, 7 ft. high, 8 ft. diam., and on small spur sloping E.
18.35	Intersect the line bet. secs. 24 and 25, at a point, from which the cor. of secs. 24 and 25, bears West, 19.37 chs. dist.; an iron post, 2 ins. diam., firmly set in a mound of stone, marked and witnessed as described in the official record.
18.50	Wash, 20 lks. wide, course NE., ascend 14 ft. over N. slope.
19.90	Road, bears NE. and SW.
22.63	Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, for cor. No. 4, with brasscap mkd.
	
	1933
	Raise a mound
	of stone, 3 ft. base, 2 ft. high, NE. of cor.
	A corner of the location, bears S. 28° 00' E., 5.00 chs. dist., a scattered mound of stone, 2 ft. base, 1½ ft. high.
	Thence
	N. 77° 36' E., along bdy. of the Remembrance mining claim.
	Ascend 30 ft. over NW. slope, through scattering timber and undergrowth.
4.30	Low spur, slopes N. Descend 19 ft. over NE. slope.
5.87	Intersect line 3-4 Bull Dog No. 2 of this survey.
9.46	Cor. No. 1 and place of beginning.
	Area of the Remembrance mining claim 19.83 Acres.

## SEGREGATION SURVEYS, T. 11 N., R. 4 W.

## FINAL TEST OF SOLAR ATTACHMENT.

April 25: On the meridian, hereinbefore described, at 8h 00m a.m., app.t. I set off  $34^{\circ} 16'$  N., on the lat. arc;  $13^{\circ} 12'$  N. on the decl. arc; and orient the instrument with the solar; the line of sight agrees with the meridian established by Polaris observation.

At 4h 30m p.m., app.t., I set off  $34^{\circ} 16'$  N., on the lat. arc;  $13^{\circ} 19'$  N., on the decl. arc; and repeat the test of the solar; the line of sight agrees with the meridian established by Polaris observation.

April 25, 1934.

## GENERAL DESCRIPTION.

The land covered by the foregoing described surveys of mining claims is rough and hilly. The soil is gravelly and stony, 3rd and 4th rates.

The ground cover consists of scrub oak, juniper and some pinion, with ash found along Arastra Creek. The undergrowth consists of oak brush and mazanita.

The improvements are rather extensive, a large building used for a boiler house and machine shop, also a rather pretentious dwelling with necessary outbuildings.



11 70  
BOOK 4045  
CERTIFICATE OF UNITED STATES SURVEYOR

I, Francis E. Joy, U.S. Cadastral Engineer, hereby certify upon honor that, in pursuance of special instructions received from the District Cadastral Engineer for Arizona bearing date of the 5th day of April, 1932, I have well, faithfully, and truly in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, made a metes-and-bounds survey of bodies of land classified as mineral bearing, included within the Bull Dog, Bull Dog No. 2, and Remembrance Mining Claims, in sections 24 and 25, Township 11 North, Range 4 West,

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; and that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the District Cadastral Engineer for Arizona and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Glendale, California,  
August 9, 1934.

*Francis E. Joy*  
U.S. Cadastral Engineer ~~U.S. Surveyor~~

APPROVAL

OFFICE OF U. S. SUPERVISOR OF SURVEYS,

Denver, Colorado, October 13, 1934.

The foregoing field notes of the metes-and-bounds survey of bodies of land classified as mineral bearing, included within the Bull Dog, Bull Dog No. 2, and Remembrance Mining Claims, in sections 24 and 25, Township 11 North, Range 4 West, of the Gila and Salt River Meridian, in the State of Arizona,

executed by Francis E. Joy, U.S. Cadastral Engineer, under his special instructions dated April 5, 1932, ~~1932~~, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

*Wm. H. Johnson*  
U.S. Supervisor of Surveys.

I certify that the foregoing transcript of the field notes of the above-described surveys in \_\_\_\_\_, has been correctly copied from the original notes on file in this office.

U. S. Supervisor of Surveys.