

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
~~GENERAL LAND OFFICE~~  
Bureau of Land Management

FIELD NOTES

BOOK 4343

Mineral Segregation Survey

In Sections 20 and 29

Township 2 South, Range 15 East

Of the Gila and Salt River Meridian,

In the State of Arizona

EXECUTED BY

Dupree R. Averill, Cadastral Engineer

G. Marvin Litz, Cadastral Engineer

Supplemental  
Under special instructions dated August 21, 1943, which provided  
for the surveys included under Group No. 233, bearing the approval of the  
Commissioner of the General Land Office under date of August 30, 1943  
and assignment instructions dated October 16, 1946

Survey commenced October 17, 1946

Survey completed October 22, 1946

4343

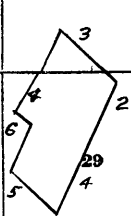
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BOOK 4343

# INDEX DIAGRAM.

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## Mineral Segregation Survey in Sec. 29, T. 2 S., R. 15 E.

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## Chains

The survey was executed with Gurley No. 92 Light Mountain Precise transit, No. 371537, and Buff light mountain transits Nos. 24849 and 26591. All three instruments are equipped with the improved Smith solar attachment. The instruments were in good condition and were tested prior to beginning the survey and found free from appreciable error.

The directions of all lines were determined by solar transit method. The measurements were made with Lufkin and Lallie steel tapes, 5 chs. in length, graduated every link for the first 100 lks., and the balance at intervals of 10 lks. The tapes were tested by comparison with a Lufkin 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 S.E. cor. of the Tp. as follows: latitude  $33^{\circ} 12' 20''$  N. and longitude  $110^{\circ} 45' 04''$  W.

Sept. 14, 1946, in camp about  $\frac{1}{2}$  mile SW. of Winkelman, Arizona, near the center of Sec. 23, T. 5 S., R. 15 E., at  $6^{\text{h}} 17^{\text{m}} 40^{\text{s}}$ , P.M., l.m.t., I make an hour angle observation on Polaris east of the meridian for determination of azimuth and latitude, making two sights each with the telescope in direct and reversed positions and turning the deflection angles from a reference mark on top of mountain about six miles dist., in the direction east to Polaris.

Mean observed vertical angle - - - - -	32° 30' 52"
Mean horizontal angle - - - - -	17° 40' 40"
Reduced latitude	32° 58' 36"
Bearing of reference mark	N.16° 39' 14" W.

Oct. 13: every 30 min. from 8 to 10:30 a.m., and from 1:30 to 5 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  $1' 30''$ .

I repeat the tests of the arcs daily by noon observation, and verify the meridional indications at frequent intervals throughout the survey.

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Metes-and-bounds survey of a body of land classified as mineral bearing, but not covered by mineral-patent survey.

This land is included within the Junior Republic, North Republic, California, Lucky Boy, Delinquent, Challenge, East Pioneer, Fair View, Quartett, Jewel and West Republic mining claims.

The segregation is being made to accommodate State Exchange Selection List Phoenix 079031 for Lots 1,2,3 and 4, Sec. 29, T. 2 S., R. 15 E.

The position of the claims was determined by the location corners found on the ground. The claimants were not notified as their address was unknown.

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## Mineral Segregation Survey in Sec. 29, T. 2 S., R. 15 E.

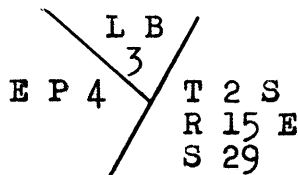
2.

## Chains

Since these claims are contiguous so as to form one body of land, only the outer boundary of the claims was surveyed.

Cor. No. 3 of the Lucky Boy, identical with Cor. No. 4 of the East Pioneer is identical with the common corner of the locations as marked by a granite stone 20x20x17 ins. above ground mkd. + on top 3 E P on SW. face and 4 L B on NW. face, with a mound of stone 2½ ft. base, 1½ ft. high on north side.

Set an iron post, 3 ft. long, 1 in. diam., 3 ins. in the ground to bed rock with the old cor. stone deposited alongside and supported in a mound of stone 6 ft. base to top of post, with brass cap mkd.

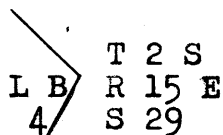


1946

Thence N. 30° 04' E., on SE. side line of the Lucky Boy.

- .45 Spur, slopes west; desc. 60 ft. over N. slope.
- 3.00 Wash, 5 lks. wide, course west; asc. 230 ft.
- 13.25 Spur slopes SW.; desc. slightly.
- 22.46 Cor. No. 4 of the Lucky Boy, identical with the location corner as marked by a granite stone 10x8x8 ins. above ground, mkd. + on top, and 3 L B on SW. face, with a mound of stone 3 ft. base, 2½ ft. high, east of cor. 3 ft. dist.

Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, with old corner stone alongside, and brass cap mkd.



1946

Rebuilt the mound of stone, 3 ft. base, 2 ft. high, west of corner.

N. 47° 21' W. on NE. end line of the Lucky Boy.

Desc. 285 ft. over west slope.

- 8.36 Intersect N. bdy. of sec. 29.
- 9.10 Cor. No. 1 of the Lucky Boy identical with Cor. No. 1 of the California and with the common corner of the locations as mkd. by a wood post 4 ins. sq., 16 ins. above a mound of stone 4 ft. base, 3 ft. high. Post mkd. 2 L B on SE. and 4 C on SW. face.

From this point the ¼ sec. cor. secs. 20 and 29, bears S. 85° 37' W., 6.56 chs. dist., mkd. by an iron post, 1 in. diam., 16 ins. above ground, mkd. and witnessed as described in the official record, except that the SE. B.T. bears S. 57° E., instead of S. 47° E.

## Mineral Segregation Survey in Sec. 20, T. 2 S., R. 15 E.

3.

## Chains

N. 47° 21' W., on NE. end line of the California.

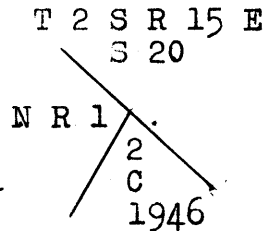
Desc. 385 ft. over W. slope.

3.40 Road, Dripping Springs Wash to Globe, bears N. 20° E. and S. 20° W.

4.20 Wash, 20 lks. wide, course S. 20° W.; asc. 125 ft. over SE. slope.

8.49 Cor. No. 2 of the California, identical with Cor. No. 1 of the North Republic and with the common corner of the locations which is marked by a wood post, 4 ins. sq., 16 ins. above a md. of stone, 3 ft. base and 3 ft. high. Post is mkd. 3 C on SE. and 4 N R on SW. face.

Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground, with old post set alongside, and in a md. of stone, 3 ft. base to top of post, with brass cap mkd.



N. 47° 54' W. on NE. end line of the North Republic.

Asc. 215 ft. along broken E. slope.

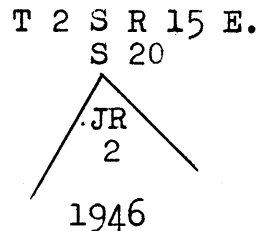
7.865 Cor. No. 2 of the North Republic, identical with Cor. No. 1 of the Junior Republic and with the common corner of the locations, as marked by a wood post 4 ins. sq., 15 ins. above a md. of stone, 2½ ft. base and 2½ ft. high. Post is mkd. 3 N R on SE. face.

N. 47° 54' W. on NE. end line of the Junior Republic.

Asc. 240 ft. over E. slope.

9.09 Cor. No. 2 of the Junior Republic, which is identical with the location cor. as mkd. by a md. of stone, 2½ ft. base and 1½ ft. high.

Set an iron post, 3 ft. long, 1 in. diam., 16 ins. in the ground and in a md. of stone 3 ft. base to top of post with brass cap mkd.



S. 29° 39' W., on NW. side line of the Junior Republic.

Asc. 90 ft. over E. slope.

4.90 Spur slopes SE.; desc. 460 ft. over SW. slope.

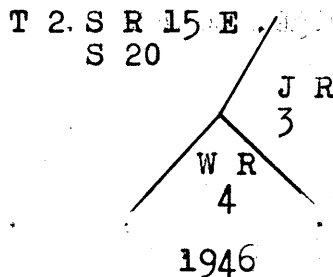
19.905 Cor. No. 3 of the Junior Republic, identical with Cor. No. 4 of the West Republic and with the common corner of the locations, as marked by a granite stone 12x14 ins., 8 ins. above ground, mkd. + on top, 3 W R on SE. face, with md.

Mineral Segregation Survey in Sec. 29, T. 2 S., R. 15 E.

4.

Chains

of stone 3 ft. base, 4 ft. high, N. of cor., 3 ft. dist.  
Set an iron post, 3 ft. long, 1 in. diam., 8 ins. in the ground to bedrock, with the old cor. stone buried alongside and in a md. of stone, 6 ft. base to top of post, with brass cap mkd.



From Cor. No. 4 of the East Pioneer, identical with Cor. No. 3 of the Lucky Boy,

S. 29° 38' W., on SE. side line of the East Pioneer.

Desc. 320 ft. over SW. slope.

19.24 Wash, 15 lks. wide, course SE.; asc. 90 ft. over NE. slope.

22.70 Corner No. 3 of the East Pioneer, identical with corner No. 3 of the Jewel, as marked by the burned stub of a 4x3 in. wood post set in mound of stone.

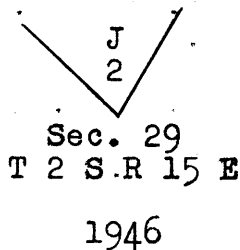
Thence S. 29° 38' W., on SE. side line of the Jewel.

Asc. over E. slope of spur.

12.50 Desc. over SW. slope of spur.

20.41 Cor. No. 2 of the Jewel, which is identical with a corner of the location as marked by a mound of stone 3 ft. base and 2 ft. high.

Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, with brass cap marked

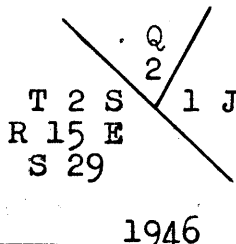


Raise a mound of stone, 3 ft. base, 2 ft. high, SW. of corner.

N. 47° 21' W. on SW. end line of the Jewel.

Over rolling land.

9.095 Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, with brass cap marked



## Mineral Segregation Survey in Sec. 29, T. 2 S., R. 15 E.

5.

## Chains

From this point the common corner of the Jewel and Quartett locations bears S. 29° 38' W., 2.5 lks. dist., as marked by a wood post, 4 ins. sq., projecting 2 ft. above a substantial mound of stone. Post is marked 1 J on W. and 2 Q on S. face.

From the location corner, U.S.M.M. No. 1, bears N. 20° 55' E., an iron pipe 1½ ins. diam., set in mound of stone.

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N. 47° 54' W. on SW. end line of the Quartett.

4.50 Gully, 20 lks. wide, course SW.

9.10 From this point, the common corner of the Quartett and Fair View locations, bears S. 29° 38' W., 3 lks. dist., as marked by a wood post, 4 ins. sq. mkd. 3 Q on S. and 2 F on W. face, and projecting 24 ins. above a mound of stone.

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N. 47° 54' W. on SW. end line of the Fair View.

4.00 Gully, 10 lks. wide, course SW.; asc. S. slope of spur.

4.548 A wood post, 4 ins. sq. projecting 18 ins. above a mound of stone and mkd. S W E C F on E. face, bears S. 29° 38' W. 3.5 lks. dist.

9.10 Point for cor. No. 1 of the Fair View.

Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in the ground, with brass cap marked

T 2 S  
R 15 E     1 F  
S 29

1946

A corner of the location bears S. 29° 38' W., 4 lks. dist., mkd. by a wood post, 4x3 ins., projecting 2½ ft. above a mound of stone. Post marked 3 F on E. face.

From the location cor., the ¼ sec. cor. of secs. 29 and 30, bears N. 6° 10' W., 4.11 chs. dist.; an iron post, 1 in. diam., 16 ins. above ground, mkd. as described in the official record and witnessed by a mound of stone, W. of cor., and a mesquite bearing tree of record.

From the same point, U.S.M.M. No. 1 bears N. 70° 55' E.

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N. 29° 38' E. on line 1-4 of the Fair View.

4.10 Gully, 8 lks. wide, course SE.; asc. 50 ft. over SE. slope.

8.10 Spur, slopes SE.

15.30 Gully, 10 lks. wide, course S., asc. 220' ft. over W. slope.

22.73 Cor. No. 4 of the Fair View, which is identical with the location cor. as marked by a sandstone 12x10x4 ins. above ground, mkd. + on top and 4 F on S. face.

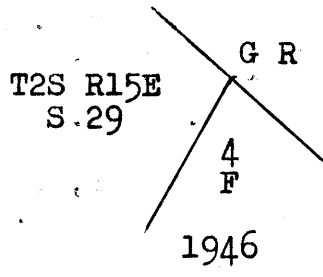
Set an iron post, 3 ft. long, 1 in. diam., 9 ins. in the ground to bedrock, with the old corner stone deposited at base and in a mound of stone 4 ft. base to top of post,

Mineral Segregation Survey in Sec. 29, T. 2 S., R. 15 E.

6.

Chains

with brass cap mkd.



From this point the SW, end center monument, Sur. No. 370 Great Republic, bears S. 47° 54' E., 1.60 chs. dist.; a wood post 4 ins. sq., projecting 16 ins. above a mound of stone.

From the same point, Cor. No. 3, Sur. No. 370, Great Republic, identical with Cor. No. 2 of the West Republic, bears N. 47° 54' W., 2.91 chs. dist.; a wood post, 4 ins. sq., projecting 14 ins. above a mound of stone, post is marked 1 W R on N. and G:R. on E. face.

From Cor. No. 2 of West Republic, identical with Cor. No. 3, Sur. No. 370, Great Republic,

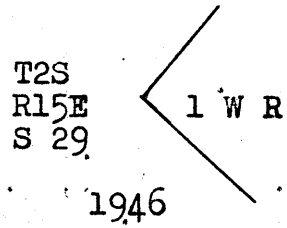
N. 47° 54' W., on SW. end line of the West Republic.

3.80 Gully, course S. 30° E.; asc. gradually.

4.54 A mound of stone, 3 ft. base, 3 ft. high, Continue ascent, 90 ft. along E. side of spur.

9.09 Cor. No. 1 of the West Republic, identical with the location cor. which is marked by a sandstone 9x8x3 ins. above ground, mkd. + on top, 2 W R on E. face and witnessed by a mound of stone W. of cor.

Set an iron post, 3 ft. long, 1 in. diam., 28 ins. in the ground, with the old corner stone deposited alongside, brass cap is marked



From this point, the cor. of secs. 19, 20, 29 and 30, bears N. 9° 58' W., 16.63 chs. dist.; an iron post, 2 ins. diam., 14 ins. above ground, mkd. as described in the official record, with mound of stone 3 ft. base, 2 ft. high, W. of cor.

N. 41° 54' E., on line 1-4, West Republic.

Desc. 20 ft.

4.30 Gully, 10 lks. wide, course SE.; asc. 195 ft. on S. side of spur.

11.36 Spur, slopes S. 20° E., desc. 400 ft. on N. side of spur.

22.015 Intersect N. bdy. Sec. 29. From this point the cor. of secs. 19, 20, 29 and 30, bears N. 89° 59' W., 17.58 chs. dist.

22.445 Cor. No. 4, West Republic, identical with Cor. No. 3, Junior Republic.



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
~~GENERAL LAND OFFICE~~  
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Bert E. Wakeman	Engineering Aide
John G. Coverdale	Principal Assistant
Donald E. Chapman	
Eugene C. Ramstedt	
Anastacio P. Chavez	
Bonie B. Perea	
Kenneth C. Glenn	
Wilbur M. Ross	
Ross C. Holden	

## CERTIFICATE OF SURVEYOR

We, Dupree R. Averill and G. Marvin Litz, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 21st day of August, 1943, received from the district cadastral engineer for Arizona, with assignment instructions dated October 16, 1946, we have surveyed by metes-and-bounds, a body of land classified as mineral bearing, but not covered by mineral-patent survey, in Secs. 20&29, Township 2 South, Range 15 East

of the G. & S.R. 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 said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

Yuma, Arizona

December 2, 1946

*Dupree R. Averill*  
Associate Cadastral Engineer  
*G. Marvin Litz*  
Junior Cadastral Engineer

## CERTIFICATE OF APPROVAL

OFFICE OF Chief Cadastral Engineer

Denver, Colorado, March 10, 1947.

The foregoing field notes of the survey of a body of land classified as mineral bearing, but not covered by mineral-patent survey, in Sections 20&29 Township 2 South, Range 15 East

executed by Dupree R. Averill and G. Marvin Litz, Cadastral Engineers, under special instructions dated August 21, 1943, and assignment instructions dated October 16, 1946, having been critically examined, and the necessary corrections made prior to their certification by the engineer, the said field notes, and the survey therein described, are hereby approved.

*C. H. Hinton*  
Acting Chief Cadastral Engineer

## CERTIFICATE OF TRANSCRIPT

~~I CERTIFY that the foregoing transcript of the field notes of the above described surveys in~~

~~is a true copy of the original field notes on file in the public survey office.~~

*Supervisor of Surveys*