

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

MINERAL SURVEY NO. 4425

Arizona Land District.

FIELD NOTES

Of The Survey Of The Mining Claim Of

PHELPS DODGE CORPORATION

Known As The

XIV #3, #4, #5, No. 6, #7, #8, #9, #10, #12 lodes

Copper Mountain Mining District,

Greenlee County, Arizona

Sections 32 & 33, 4 & 5, Townships 3 and 4 S., Range 29 E., G. & S. R. M., Arizona

Surveyed under order dated January 8, 1957.

by Robert Lenon  
Mineral Surveyor.

Claim located (see back of this sheet), 19

Survey commenced May 29, 1957

Survey completed June 29, 1957

Address of claimant's agent, Evans, Kitchel & Jenckes  
807 Title & Trust Building  
Phoenix, Arizona

DATES OF AMENDED LOCATIONS

(see back of this sheet)

<u>Name of Lode Claim</u>	<u>Location</u>	<u>Date of Amended Location</u>
XIV #3	July 1, 1928	October 1, 1955
" #4	"	"
" #5	"	"
" No. 6	"	
" #7	"	October 1, 1955
" #8	"	"
" #9	"	"
" #10	"	"
" #12	July 31, 1928	"

## Survey No. 4425

Observations  
Feet

This survey was made with a Bausch & Lomb Precise transit, No. 9259, with horizontal limb  $5\frac{1}{2}$  ins. in diam., having two single opposite verniers and full vertical circle  $4\frac{1}{2}$  ins. in diam., having two double opposite verniers, all verniers reading to one minute of arc. The instrument was in good condition at the time of the survey and all adjustments were in good order.

All azimuths in this record were determined by the method of double horizontal angles referred to the meridian determined by the following observations:

May 29th, 1957, at the northeasterly cor. of sec. 5, T. 4 S., R. 29 E., G. & S.R.B. & M., Greenlee County, Arizona, in latitude  $33^{\circ} 07' N.$  and longitude  $109^{\circ} 22\frac{1}{2}' W.$ , I make a series of four altitude observations upon the sun for azimuth at approximately equal time-intervals, two each with the telescope in direct and inverted positions, observing opposite limbs of the sun, and reading the horizontal angles from a point on the line common to secs. 32 and 33, T. 3 S., R. 29 E., 1500 ft. northerly to the sun.

Mean time of observation,	(1)	(2)
105th meridian standard time:	$8^h 44^m 00^s AM$	$8^h 46^m 15^s AM$

Declination of sun at mean time of observation:	$21^{\circ} 38\frac{1}{2}' N.$
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Mean observed vertical angles to the sun's center:	$42^{\circ} 53\frac{1}{2}'$	$43^{\circ} 19'$
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Mean horizontal angles, clockwise from reference point to sun's center:	$90^{\circ} 25\frac{1}{2}'$	$90^{\circ} 42\frac{1}{2}'$
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True bearing to reference point:	$N. 0^{\circ} 08' W.$
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The lines were measured with a Lufkin steel tape, 300 ft. in length, graduated every foot, with the end feet graduated to tenths; and Lufkin steel tape, 100 ft. in length, graduated to feet, tenths, and hundredths. Both tapes were compared with a Lufkin standard steel tape at the beginning of the survey and found to be correct.

All lines and connections of this survey were run by direct methods except for the ties to the older surveys, which were calculated.

The magnetic declination observed at each corner of the survey gave a uniform value of  $12^{\circ} 45' E.$

## XIV #9 LODE

Beginning at cor. No. 1 of XIV #9 lode on the line bet. secs. 5 and 32, Ts. 3 and 4 S., R. 29 E., at a point from which the cor. of secs. 4, 5, 32 and 33 bears  $N. 89^{\circ} 56' E., 276.02$  ft. dist.; also on line 3-4 of Sur. No. 3112, S.L.C.L. lode, at a point from which cor. No. 4 bears  $S. 83^{\circ} 15' E., 335.84$  ft. dist.

Set a copper-coated steel rod, with mound of stone alongside, 3 ft. long,  $\frac{5}{8}$  in. diam., 27 ins. in the ground, with bronze cap mkd. XIV9-1-4425; from which

A porphyry ledge,  $72 \times 36$  ins., 24 ins. high, bears  $S. 45^{\circ} E., 33.7$  ft. dist., mkd. X-BR-1-4425.

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Stations Feet	The cor. of secs. 4, 5, 32 and 33, Ts. 3 and 4 S., R. 29 E., bears N. 89° 56' E., 276.02 ft. dist.
135	Thence N. 0° 06' W., Gulch, 4 ft. wide, course S. 80° E.
299.42	Lode line, discovery point bears S. 83° 15' E., 865.24 ft. dist. Set a steel pin, ½ in. diam., with mound of stone alongside.
490	Gulch, 2 ft. wide, course S. 55° E.
598.85	Cor. No. 2. Set a copper-coated steel rod, with mound of stone alongside, 3 ft. long, 5/8 in. diam., 27 ins. in the ground, with bronze cap mkd. XIV9-2-4425; from which  A porphyry outcrop, 12x12 ins., 12 ins. high, bears N. 63° 30' W., 5.4 ft. dist., mkd. X-BR-2-4425.  Thence S. 83° 15' E.
277.67	Intersect the line bet. secs. 32 and 33, at a point from which the cor. of secs. 4, 5, 32 and 33 bears S. 0° 08' E., 565.90 ft. dist.
277.67	Intersect line 1-2 of the XIV #3 lode of this survey.
340	Gulch, 4 ft. wide, course S. 45° E.
435	Gulch, 4 ft. wide, course S.
588.31	Intersect the common line 4-1 of XIV #3 lode, and 1-2 of XIV #4 lode, both of this survey.
940.24	Cor. No. 3, identical with Cor. No. 2 of the XIV #8 lode of this survey. Set a copper-coated steel rod, with mound of stone alongside, 3 ft. long, 5/8 in. diam., 27 ins. in the ground, with bronze cap mkd. XIV9-3-XIV8-2-4425; from which  A porphyry overhang, 120x48 ins., 72 ins. high, bears N. 19° 04' W., 21.39 ft. dist., mkd. X-BR-3-4425  Thence S. 0° 06' E.
19.68	Intersect line 4-1 of the XIV #4 lode of this survey.
299.43	Lode line, discovery point bears N. 83° 15' W., 75 ft. dist.  Chiseled a point on face of cliff, mkd. X-END CTR.
598.85	Cor. No. 4 on line 1-2, XIV #8 lode of this survey and identical with Cor. No. 3 of Sur. No. 3112, Summit lode.  Scribed existing 4x6 in. post, 4 ft. long, set in a mound of stone, mkd. XIV9-4-4425.  Thence N. 83° 15' W.
100.3	Gulch, 8 ft. wide, course S. 45° E.
112	Toe of large waste dump, now being used.

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Feet	
120	Toe of large waste dump, now being used.
280	Top of fill of large dump.
604.4	Cor. No. 2 of the Summit lode and Cor. No. 4 of the S.L.C.L. lode, both of Sur. No. 3112.
662.22	Intersect the line bet. secs. 4 and 5, at a point from which the cor. of secs. 4, 5, 32 and 33 bears N. 0° 08' W., 33.0 ft. dist.
790.0	Leave top of waste dump.
940.24	Cor. No. 1 and place of beginning.
XIV #3 LODE	
	Beginning at Cor. No. 1, XIV #3 lode, identical with Cor. No. 1 of XIV #4 lode of this survey.
	Set a copper-coated steel rod, with mound of stone alongside, 3 ft. long, 5/8 in. diam., 27 ins. in the ground, with bronze cap mkd. XIV3-1-XIV4-1-4425; from which
	The cor. of secs. 4, 5, 32 and 33 bears S. 30° 26' W., 603.58 ft. dist.
	A porphyry outcrop, 24x12 ins., 12 ins. high, bears N. 63° 13' E., 9.5 ft. dist., mkd. X-BR-1-4425.
	Thence N. 81° 34' W.
150.0	Gulch, 4 ft. wide, course S.
240.0	Gulch, 4 ft. wide, course S. 45° E.
300.0	Lode line, discovery point bears N. 8° 26' E., 1250 ft. dist. Set an iron pin, 5/8 in. diam., with a mound of stone alongside.
310.51	Intersect the line bet. secs. 32 and 33 and line 2-3, XIV #9 lode of this survey at a point from which the cor. of secs. 4, 5, 32 and 33 bears S. 0° 08' E., 565.90 ft. dist.
600.0	Cor. No. 2 Set a copper-coated steel rod, with mound of stone alongside, 3 ft. long, 5/8 in. diam., 27 ins. in the ground, with bronze cap mkd. XIV3-2-4425; from which
	A porphyry outcrop 12x24 ins., 12 ins. high, bears N. 79½° W., 7.6 ft. dist., mkd. X-BR-2-4425.
	Thence N. 8° 26' E.
220.0	Gulch, 4 ft. wide, course S. 67° E.
960.0	Center of lime quarry road, 30 ft. wide, bears N. 65° E. and S. 65° W.
1227.4	Cor. No. 1 of Sur. No. 3101, Johanner No. 2 lode, reestablished at record course and distance from Cor. No. 2, Susannah lode of the same survey.

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<del>Center</del> Feet	
1470.0	Center of lime quarry road, 30 ft. wide, bears N. 32° W. and S. 32° E.
1500.0	Cor. No. 3, identical with Cor. No. 2 of Sur. No. 3101, Susannah lode, reestablished at record course and distance from Cor. No. 1 of the same lode.  This cor. falls in the fill of the lime quarry road, at a point where a permanent monument cannot be maintained; thence N. 81° 34' W., 11.80 ft. dist., set a copper-coated steel rod, in a mound of stone on the edge of the road fill, 3 ft. long, 5/8 in. diam., 27 ins. in the ground, with bronze cap for witness Cor. No. 3, mkd. WC-XIV3-3-4425; from which  A point on the porphyry face of the cut-bank, 10 ft. above the road, mkd. X-BR-WC-3-4425, bears S. 36° 00' W., 60 ft. dist.  Return to Cor. No. 3.  Thence S. 81° 34' E.
63.53	Intersect the line bet. secs. 32 and 33, at a point from which the cor. of secs. 4, 5, 32 and 33 bears S. 0° 08' E., 2082.82 ft. dist.
300.0	Lode line, discovery point bears S. 8° 26' W., 250 ft. dist.  Set an iron pin, 5/8 in. diam., with mound of stone alongside.
600.0	Cor. No. 4, identical with Cor. No. 2 of XIV #4 lode of this survey, and Cor. Nos. 1 & 1 of Susannah and Copper Bottom lodes, both of Sur. No. 3101, reestablished at record course and distance from Cor. No. 4 of the Copper Bottom lode.  Set a copper-coated steel rod, with mound of stone alongside, 3 ft. long, 5/8 in. diam., 27 ins. in the ground, with cap mkd. S-1-CB-1-3101-XIV3-4-XIV4-2-4425; from which  A quartzite outcrop, 96x48 ins., 60 ins. high, bears N. 80° 34' W., 9.3 ft. dist., mkd. X-BR-1-3101-4-4425.  Thence S. 8° 26' W.
80.0	Open cut, 7 ft. wide, bears N. 10° E. and S. 10° W.
1490.87	Intersect line 2-3, XIV #9 lode of this survey.
1500.0	Cor. No. 1 and place of beginning.
	<b>XIV #4 LODE</b>
	Beginning at Cor. No. 1 of XIV #4 lode, identical with Cor. No. 1 of XIV #3 lode of this survey.  Thence N. 8° 26' E.
9.13	Intersect line 2-3 of XIV #9 lode of this survey.
1420.0	Open cut, 7 ft. wide, bears N. 10° E. and S. 10° W.
1500.0	Cor. No. 2, identical with Cor. No. 4 of XIV #3 lode of this survey, and Cor. Nos. 1 & 1 of the Susannah and Copper Bottom lodes, both of Sur. No. 3101.

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Chain Feet	
	Thence S. 81° 34' E.
200.0	Gulch, 4 ft. wide, course S. 70° E.
300.0	Lode line, discovery point bears S. 8° 26' W., 200 ft. dist. Set an iron pin, 5/8 in. diam., with mound of stone alongside.
600.0	Cor. No. 3, identical with Cor. No. 4 of Sur. No. 3101, Copper Bottom lode, as identified by the original bearing object, and on line 1-2 of XIV #5 lode of this survey. Set a copper-coated steel rod, with mound of stone alongside, 3 ft. long, 5/8 in. diam., 27 ins. in the ground, with bronze cap mkd. XIV4-3-4425-CB-4-3101; from which  A quartz porphyry vertical face, 60x72 ins., bears N. 8° 31' W., 2.7 ft. dist., mkd. X-BR-4-3101-3-4425.  Thence S. 8° 26' W.
5.0	Gulch, 6 ft. wide, course S. 75° E.
900.0	Cor. No. 1 of XIV #5 lode, identical with Cor. No. 2 of XIV #7 lode, both of this survey.
1415.0	Cross, 4x6 ft. shaft.
1473.24	Intersect line 2+3 of XIV #8 lode of this survey.
1500.0	Cor. No. 4, identical with Cor. No. 1 of XIV #7 lode of this survey. Set a copper-coated steel rod, with mound of stone alongside, 3 ft. long, 5/8 in. diam., 27 ins. in the ground, with bronze cap mkd. XIV7-1-XIV4-4-4425; from which  Thence N. 81° 34' W.
245.30	Intersect line 1-2 of XIV #8 lode and line 3-4 of XIV #9 lode, both of this survey.
300.0	Lode line, discovery point bears N. 8° 26' E., 1300 ft. dist. Set an iron pin, 5/8 in. diam., with mound of stone alongside.
600.0	Cor. No. 1 and place of beginning.
	<b>XIV #5 LODE</b>
	Beginning at Cor. No. 1 of XIV #5 lode, identical with Cor. No. 2, XIV #7 lode, on line 3-4 of XIV #4 lode, both of this survey. Set a copper-coated steel rod, with mound of stone alongside, 3 ft. long, 5/8 in. diam., 27 ins. in the ground, with bronze cap mkd. XIV5-1-XIV7-2-4425; from which  The cor. of secs. 4, 5, 32 and 33 bears S. 43° 54' W., 1423.81 ft. dist.  A point on the southeasterly face of a porphyry outcrop, 24x48 ins., 96 ins. high, bears N. 12° 34' W., 6.3 ft. dist., mkd. X-BR-1-4425.  Thence N. 8° 26' E.
355.0	

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Chains Feet	
	Thence N. 8° 26' E.
895.0	Gulch, 6 ft. wide, course S. 75° E.
900.0	Cor. No. 3 of XIV #4 lode of this survey, identical with Cor. No. 4 of Sur. No. 3101, Copper Bottom lode.
1372.92	Cor. No. 2, identical with Cor. No. 3 of Cata Mount lode and on line 3-4 of Copper Bottom lode, both of Sur. No. 3101, I scribe existing post, XIV5-2-4425; from which  A quartz porphyry face, 24x36 ins., bears N. 58° 29' W., 21.8 ft. dist., mkd. X-BR-3-3101-2-4425.  Thence S. 81° 34' E.
230.0	Gulch, 4 ft. wide, course S. 10° W.
299.86	Lode line, discovery point bears S. 8° 26' W., 120 ft. dist.  Set an iron pin, 5/8 in. diam., with mound of stone alongside.
599.72	Cor. No. 3, identical with Cor. No. 2 of Sur. No. 3101, Cata Mount lode on line 1-2 of XIV No. 6 lode of this survey. I scribe the existing 4x4 in. post, XIV-5-3-4425; from which  A porphyry pinnacle, 48x48 ins., 96 ins. high, bears N. 55° 40' E., 19.1 ft. dist., mkd. X-BR-2-3101-3-4425.  Thence S. 8° 26' W.
1138.0	Gulch, 6 ft. wide, course S. 32° E.
1325.0	Gulch, 5 ft. wide, course N. 80° E.
1372.92	Cor. No. 4, identical with Cor. No. 1 of XIV No. 6 lode, on line 2-3 of XIV #7 lode, both of this survey.  Set a copper-coated steel rod, with mound of stone alongside, 3 ft. long, 5/8 in. diam., 27 ins. in the ground, with bronze cap mkd. XIV5-4-XIV6-1-4425.  Thence N. 81° 34' W.
150.0	Gulch, 5 ft. wide, course N. 75° E.
299.86	Lode line, discovery point bears N. 8° 26' E., 1252.92 ft. dist.  Set a hardened steel nail and brass washer in a rock.
599.72	Cor. No. 1 and place of beginning.
	<b>XIV NO. 6 LODE</b>
	Beginning at Cor. No. 1 of XIV No. 6 lode, identical with Cor. No. 4 of XIV #5 lode, on line 2-3 of XIV #7 lode, both of this survey; from which  The cor. of secs. 4, 5, 32 and 33, bears S. 59° 19' W., 1837.90 ft. dist.  Thence N. 8° 26' E.



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Feet	
47.92	Gulch, 5 ft. wide, course N. 80° E.
234.92	Gulch, 6 ft. wide, course S. 32° E.
1372.92	Cor. No. 3 of XIV #5 lode of this survey, identical with Cor. No. 2 of Sur. No. 3101, Cata Mount lode.
1425.75	<p>Cor. No. 2, identical with Cor. No. 3 of Sur. No. 3101, Blue and Gray lode. I scribe the existing cor. post, XIV6-2-4425; from which</p> <p>A point 24 ins. high on a porphyry face, 120x42 ins. high, bears N. 68° 55' E., 22 ft. dist., mkd. X-BR-2-4425.</p>
300.0	<p>Cor. No. 2 of Sur. No. 3101, Blue and Gray lode, identical with Cor. No. 3 of Sur. No. 3149, Camino No. 2 lode, bears S. 68° 16' E., 318.00 ft. dist.</p> <p>Thence S. 81° 34' E.</p>
311.0	<p>Lode line, discovery point bears S. 8° 26' W., 510 ft. dist.</p> <p>Set an iron pin, 5/8 in. diam., with mound of stone alongside.</p>
600.0	<p>Intersect the common line 1-2 of Sur. No. 3101, Blue and Gray lode, and 3-4 of Sur. No. 3149, Camino No. 2 lode, at a point from which Cor. Nos. 2 and 3 bears S. 9° 38' W., 73.17 ft. dist.</p>
115.45	<p>Cor. No. 3.</p> <p>Set a copper-coated steel rod, with mound of stone alongside, 3 ft. long, 5/8 in. diam., 27 ins. in the ground, with bronze cap mkd. XIV6-3-4425; from which</p> <p>A 24x24 in. porphyry face bears N. 56° 54' W., 4.3 ft. dist., mkd. X-BR-3-4425.</p> <p>Thence S. 8° 26' W.</p>
276.67	<p>Intersect line 2-3 of Sur. No. 3149, Camino No. 2 lode, at a point from which Cor. No. 2 bears S. 73° 17' E., 6.01 ft. dist., and Cor. No. 3, identical with Cor. No. 2 of Sur. No. 3101, Blue and Gray lode, bears N. 73° 17' W., 293.59 ft. dist.</p>
1420.0	<p>Intersect line 1-2 of Sur. No. 1229, El Cajon lode, at a point from which Cor. No. 2 bears N. 12° 41' E., 159.94 ft. dist. and Cor. No. 1 bears S. 12° 41' W., 1328.72 ft. dist.</p>
1425.75	<p>Center of a road, 12 ft. wide, bears N. 75° W. and S. 75° E.</p>
85.33	<p>Cor. No. 4, on line 2-3 of XIV #7 lode of this survey.</p> <p>Set a copper-coated steel rod, with mound of stone alongside, 3 ft. long, 5/8 in. diam., 27 ins. in the ground, on south edge of roadway, with bronze cap mkd. XIV6-4-4425; from which</p> <p>A point on the south face of the roadway cut-bank bears N. 8° 26' E., 20.45 ft. dist., mkd. X-BR-4-4425.</p> <p>Thence N. 81° 34' W.</p>
	<p>Intersect line 1-2 of Sur. No. 1229, El Cajon lode, at a point from which Cor. No. 1 bears S. 12° 41' W., 176.48 ft. dist.</p>

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Chains Feet	
170.0	Center of a road, 12 ft. wide, bears N. 75° E. and S. 75° W.
250.0	Gulch, 8 ft. wide, course S. 54° E.
290.0	Road, 12 ft. wide, bears N. 45° W. and S. 45° E.
300.0	Lode line, discovery point bears N. 8° 26' E., 915.75 ft. dist. Set a railroad spike in roadway.
600.0	Cor. No. 1 and place of beginning.
XIV #7 LODE	
	Beginning at Cor. No. 1 of XIV #7 lode, identical with Cor. No. 4 of XIV #4 lode of this survey; from which
	The cor. of secs. 4, 5, 32 and 33 bears S. 64° 19' W., 997.87 ft. dist.
	Thence N. 8° 26' E.
26.76	Intersect line 2-3 of XIV #8 lode of this survey.
85.0	Cross, 4x6 ft. shaft.
300.0	Lode line, discovery point bears S. 81° 34' E., 1090.52 ft. dist. Set an iron pin, 5/8 in. diam., with mound of stone alongside.
600.0	Cor. No. 2, identical with Cor. No. 1 of XIV #5 lode, on line 3-4 of XIV #4 lode, both of this survey.
	Thence S. 81° 34' E.
449.72	Gulch, 5 ft. wide, course N. 75° E.
599.72	Cor. No. 4 of XIV #5 lode, identical with Cor. No. 1 of XIV No. 6 lode, both of this survey.
909.72	Road, 12 ft. wide, bears N. 45° W. and S. 45° E.
949.72	Gulch, 8 ft. wide, course S. 54° E.
1029.72	Same road, bears N. 75° E. and S. 75° W.
1114.39	Intersect line 1-2 of Sur. No. 1229, El Cajon lode, at a point from which Cor. No. 1 bears S. 12° 41' W., 176.48 ft. dist.
1199.72	Cor. No. 4 of XIV No. 6 lode of this survey.
1286	Same road, bears S. 75° E. and N. 75° W.
1300.52	Cor. No. 3. This cor. falls in the south track of a road where a permanent monument cannot be maintained. I run N. 8° 26' E., 15.0 ft. dist. and set a copper-coated steel rod, 3 ft. long, 5/8 in. diam., 27 ins. in the cut-bank above roadway, mkd. W.COR-3-XIV7-4425; from which A 1/2 in. square steel nail and washer set in bedrock, mkd. X-BR-WC-3-4425, bears N. 8° 26' E., 2.5 ft. dist. From the true point for Cor. No. 3, Cor. No. 1, El Cajon lode, Sur. No. 1229, bears S. 56° 58' 30" W., 265.82 ft. dist.

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Chains Feet	
	Return to Cor. No. 3.
	Thence S. 8° 26' W.
75	Gulch, 8 ft. wide, course E.
208.20	Cor. No. 2 of Sur. No. 1229, La Candelaria lode; also intersect line 4-1 of Sur. No. 1229, El Cajon lode, at a point from which Cor. No. 1 bears N. 72° 23' W., 201.8 ft. dist.
300.00	Lode line, discovery point bears N. 81° 34' W., 210 ft. dist. Set a steel pin, ½ in. diam., with mound of stone alongside.
600.00	Cor. No. 4, identical with Cor. No. 3 of XIV #12 lode of this survey. Set a copper-coated steel rod, with mound of stone alongside, 3 ft. long, 5/8 in. diam., 27 ins. in the ground, with bronze cap mkd. XIV12-3-XIV7-4-4425; from which A point on the north face of a porphyry boulder, 15x15 ft., 6 ft. high, bears S. 7° 30' W., 17.7 ft. dist., mkd. X-BR-3-4425. Thence N. 81° 34' W.
61.18	Intersect line 1-2 of Sur. No. 1229, La Candelaria lode, at a point from which Cor. No. 2 bears N. 17° 18' E., 396.55 ft. dist., and Cor. No. 1 of Sur. No. 2400, Kay lode, bears S. 17° 18' W., 207.43 ft. dist.
600.0	Cor. No. 2 of XIV #12 lode, identical with Cor. No. 3 of XIV #10
939.22	Intersect line 3-4 of XIV #8 lode, and Cor. No. 2 of XIV #10 lode, both of this survey.
1300.52	Cor. No. 1 and place of beginning.
	<b>XIV #8 LODE</b>
	Beginning at Cor. No. 1 of XIV #8 lode, identical with Cor. No. 2 of Johannah lode, on line 3-4 of Summit lode, both of Sur. No. 3112. This cor. falls at a point on waste dump where a permanent monument cannot be maintained; from which The cor. of secs. 4, 5, 32 and 33 bears N. 49° 47' W., 862.36 ft. dist. Thence N. 0° 06' W.
100.0	Present upper edge of fill, bears NW. and SE.
335.0	Gulch, 12 ft. wide, course S. 45° E.
446.0	Cor. No. 4 of XIV #9 lode of this survey, identical with Cor. No. 3 of Sur. No. 3112, Summit lode.
1025.17	Intersect line 4-1 of XIV #4 lode of this survey.
1044.85	Cor. No. 2, identical with Cor. No. 3 of XIV #9 lode of this survey, previously described.

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Chains Feet	
	Thence S. 83° 15' E.
248.33	Intersect the common line 3-4, and 1-2 of XIV #4 and #7 lodes, both of this survey, at a point N. 8° 26' E., 26.76 ft. dist. from Cor. No. 1 of XIV #7 lode and Cor. No. 4 of XIV #4 lode.
302.1	Lode line, discovery point bears S. 0° 06' E., 844.85 ft. dist. Set an iron pin, 5/8 ins. diam., with mound of stone alongside.
604.2	Cor. No. 3. Set a copper-coated steel rod, with mound of stone alongside, 3 ft. long, 5/8 in. diam., 27 ins. in the ground, with bronze cap attached, mkd. XIV8-3-4425; from which  A point on the center of the northwest face of a porphyry outcrop, 96x36x42 ins. high, bears S. 55° 45' E., 39.8 ft. dist. mkd. X-BR-3-4425.
	Thence S. 0° 06' E.
37.63	Cor. No. 2 of XIV #10 lode, and intersect line 4-1 of XIV #7 lode, both of this survey.
990.0	Gulch, 12 ft. wide, course ESE.
1044.85	Cor. No. 4, identical with Cor. No. 3 of Sur. 3112, Johannah lode, and on the common line 3-4 and 1-2 of XIV #10 and #12 lodes, both of this survey.  The cor. was found to be a 16# mine rail about 4 ft. long, at the beginning of the survey and covered by the dump as the work progressed.
	Thence N. 83° 15' W.
302.1	Lode line, discovery point bears N. 0° 06' W., 200 ft. dist.
341.22	Intersect line 1-2 of XIV #10 lode of this survey.
604.2	True point for Cor. No. 1 and place of beginning.
	<b>XIV #10 LODE</b>
	Beginning at Cor. No. 1 of XIV #10 lode, on the slope of a large waste dump, now being used, where a permanent monument cannot be maintained; from which  The cor. of secs. 4, 5, 32 and 33, bears N. 51° 37' W., 1124.15 ft. dist.
	Thence N. 19° 13' E.
116.75	Intersect line 1-4 of XIV #8 lode of this survey.
125.0	Present upper edge of waste dump, bears WNW. and ESE.
250.0	Toe of the waste dump, bears WNW. and ESE.
300.0	Gulch, 12 ft. wide, course S. 65° E.
1140.92	Cor. No. 2, at intersection of line 3-4 of XIV #8 lode and line 4-1 of XIV #7 lode, both of this survey.  Set a copper-coated steel o

## Survey No. 4425.

Chains Feet	
	Set a copper-coated steel rod, with mound of stone alongside, 3 ft. long, 5/8 ins. diam., 27 ins. in the ground, mkd. XIV10-2-4425; from which
	A porphyry outcrop, 36x24 ins., 18 ins. high, bears S. 16° E., 8.25 ft. dist., mkd. X-BR-2-4425.
	Thence S. 81° 34' E.
169.61	Lode line, discovery point, bears S. 19° 13' W., 455.92 ft. dist.
339.22	Cor. No. 3, identical with Cor. No. 2 of XIV #12 lode, and on line 4-1 of XIV #7 lode, both of this survey.
	Set a copper-coated steel rod, with mound of stone alongside, 3 ft. long, 5/8 in. diam., 27 ins. in the ground, bronze cap mkd. XIV12-2-XIV10-3-4425; from which
	A point on a porphyry outcrop, 72x96 ins., 60 ins. high, bears S. 25° 44' W., 23.5 ft. dist., mkd. X-BR-3-4425.
	Cor. No. 2, Sur. No. 2400, Kay lode, bears S. 37° 11' W., 189.19 ft. dist.
	Thence S. 19° 13' W.
172.76	Intersect line 1-2 of Sur. No. 2400, Kay lode, at a point from which Cor. No. 2 bears N. 77° 49' W., 58.81 ft. dist.
743.16	Intersect line 2-3 of Sur. No. 2400, Kay lode, at a point from which Cor. No. 2 bears N. 13° 18' E., 566.22 ft. dist.
980.0	Gulch, 12 ft. wide, course ESE.
1014.0	Cor. No. 4 of XIV #8 lode of this survey, identical with Cor. No. 3 of Sur. No. 3112, Johannah lode, at present toe of waste dump which bears WNW. and SE.
1140.92	Cor. No. 4, identical with Cor. No. 1 of XIV #12 lode of this survey.
	This cor. falls on the slope of the waste dump at a point where a permanent monument cannot be maintained.
	Thence N. 81° 34' W.
160	Top of waste dump.
169.61	Lode line, discovery point bears N. 19° 13' E., 685 ft. dist.
339.22	Cor. No. 1 and place of beginning.
	<b>XIV #12 LODE</b>
	Beginning at Cor. No. 1 of XIV #12 lode, identical with Cor. No. 4 of XIV #10 lode of this survey; from which
	The cor. of secs. 4, 5, 32 and 33 bears N. 58° 26' W., 1428.09 ft. dist.
	Thence N. 19° 13' E.

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Survey No. 4425

Chain Feet		Acres
126.92	Cor. No. 4 of XIV #8 lode of this survey, identical with Cor. No. 3 of Sur. No. 3112, Johannah lode.	
160.92	Gulch, 12 ft. wide, course ESE.	
397.76	Intersect line 2-3 of Sur. No. 2400, Kay lode, at a point from which Cor. No. 3 bears S. 13° 18' W., 300.17 ft. dist.	
968.16	Intersect line 1-2 of Sur. No. 2400, Kay lode, at a point from which Cor. No. 1 bears S. 77° 49' E., 541.19 ft. dist.	
1140.92	Cor. No. 2, identical with Cor. No. 3 of XIV #10 lode, on line 4-1 of XIV #7 lode, both of this survey.	
300.00	Thence S. 81° 34' E. Lode line, discovery point bears S. 20° 20' W., 945.37 ft. dist.  Set an iron pin, 5/8 in. diam., with mound of stone alongside.	
538.82	Intersect line 1-2 of Sur. No. 1229, La Candelaria lode, at a point from which Cor. No. 2 bears N. 17° 18' E., 396.55 ft. dist.	
600.00	Cor. No. 3, identical with Cor. No. 4 of XIV #7 lode of this survey.  Thence S. 20° 20' W.	
1145.37	Cor. No. 4, identical with Cor. Nos. 1 & 2, La Candelaria and Chihuahua No. 2 lodes, both of Sur. No. 1229, and on line 3-4 of Sur. No. 1539, Lady Washington lode, at a point from which Cor. No. 3, identical with Cor. No. 4, Sur. No. 2400, Kay lode, bears N. 17° 18' E., 57.50 ft.  I scribe the existing 4x4 post, which is firmly set and properly mkd. XIV12-4-4425.  Thence N. 81° 34' W.	
300.00	Lode line, discovery point bears N. 20° 20' E., 200 ft. dist.  Set an iron pin, 5/8 in. diam., with mound of stone alongside.	
325	Gulch, 12 ft. wide, course S. 25° E.	
440.	Toe of waste dump, bears NW. and SSE.	
534.88	Intersect line 3-4 of Sur. No. 3112, Johannah lode, at a point from which Cor. No. 3 bears N. 0° 06' W., 126.08 ft. dist.	
537.53	Intersect line 1-2 of Sur. No. 1539, Lady Washington lode, at a point from which Cor. No. 2, identical with Cor. No. 3 of Sur. No. 2400, Kay lode, bears N. 14° 08' E., 92.08 ft. dist.	
577.33	Cor. No. 1 and place of beginning.	
	<b>AREAS</b>	
	Total area, XIV #3 lode	20.661
	Area in conflict with:	
	Sec. 32 (State land)	6.078
	XIV #9 lode	0.033

Survey No. 4425

Chains	Acres
Total area, XIV #4 lode	20.661
Area in conflict with:	
XIV #8 lode	0.131
XIV #9 lode	0.116
Total area, XIV #5 lode	18.902
Total area, XIV No. 6 lode	19.638
Area in conflict with:	
Sur. No. 1229, El Cajon lode	1.125
Sur. No. 3149, Camino No. 2 lode	0.628
Sur. No. 3101, Blue and Gray lode	0.261
Total area, XIV #7 lode	17.913
Area in conflict with:	
Sur. No. 1229, El Cajon lode	0.852
Sur. No. 1229, La Candelaria lode	0.274
XIV #8 lode	0.264
Total area, XIV #8 lode	14.389
Area in conflict with:	
XIV #10 lode	3.922
Total area, XIV #9 lode	12.834
Area in conflict with:	
Sec. 32 (State land)	3.688
Total area, XIV #10 lode	8.728
Area in conflict with:	
Sur. No. 3112, Johannah lode	0.932
Sur. No. 2400, Kay lode	0.382
Total area, XIV #12 lode	15.146
Area in conflict with:	
Sur. No. 1229, La Candelaria lode	0.787
Sur. No. 1539, Lady Washington lode	0.919
Sur. No. 1539, Lady Washington lode, exclusive of its conflict with:	
Sur. No. 3112, Johannah lode	0.918
Sur. No. 3112, Johannah lode	0.061
Sur. No. 2400, Kay lode	10.944
LOCATION	
<p>This survey is located in the SE<math>\frac{1}{4}</math> of sec. 32, SW<math>\frac{1}{4}</math> of sec. 33, T. 3 S., R. 29 E. and the NW<math>\frac{1}{4}</math> of sec. 4, NE<math>\frac{1}{4}</math> of sec. 5, T. 4 S., R. 29 E., G. &amp; S.R.B. &amp; M.</p>	
<p>The survey of these claims is identical with the respective location or amended location as marked on the ground.</p>	

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## Survey No. 4425

Chains

## EXPENDITURES

The improvements and the value of the labor and improvements made upon or for the benefit of each of the lode locations embraced in said mining claim by the claimant or its grantors are as follows:

- |       |   |
|-------|---|
| No. 1 | The discovery cut of XIV #3 lode, the face of which being the discovery point, is on the lode line 250 ft. from a point on line 3-4, 300 ft. from Cor. No. 3, 7 ft. wide, 12 ft. face, runs S. 33° W., 20 ft. to face.<br>Value \$400 |
| No. 2 | An adit, 4x5 ft. in size, the portal of which bears S. 13° 06' W., 75 ft. from Cor. No. 4 and runs S. 30° W., 75 ft. to breast.<br>Value \$1500   |
| No. 1 | The discovery cut of XIV #4 lode, the face of which being the discovery point, is on the lode line 200 ft. from a point on line 2-3, 300 ft. from Cor. No. 2, 6 ft. wide, 10 ft. face, runs N. 72° E., 12 ft. to face.<br>Value \$100 |
| No. 2 | A cut, 6 ft. wide, the face of which bears N. 17° 20' E., 145 ft. from Cor. No. 1, 7 ft. face, runs N. 33° E., 12 ft. to face; partially filled.<br>Value \$100   |
| No. 3 | A cut, 7 ft. wide, the face of which bears S. 6° 50' W., 75 ft. from Cor. No. 2, 12 ft. face, runs S. 40° W., 26 ft. to face and portal of adit, 4x6 ft. in size, running S. 52° E., 25 ft. to breast.<br>Value \$1000                |
| No. 4 | A cut, 5 ft. wide, the face of which bears S. 59° 25' W., 60 ft. from Cor. No. 3, 10 ft. face, runs S. 36° W., 15 ft. to face and portal of adit, 4x4 ft. in size, running S. 36° W., 3 ft. to breast.<br>Value \$150                 |
| No. 5 | A trench, 3 ft. wide, the face of which bears N. 13° 30' W., 205 ft. from Cor. No. 4, runs S. 45° W., 10 ft. to 3 ft. face.<br>Value \$25   |
| No. 6 | A trench, 4 ft. wide, the face of which bears N. 63° 40' W., 255 ft. from Cor. No. 4, runs N. 24° W., 88 ft. to 4 ft. face; partially filled.<br>Value \$500  |
| No. 7 | A cut, 4 ft. wide, the face of which bears N. 50° 45' W., 340 ft. from Cor. No. 4, runs N. 10° E., 10 ft. to 6 ft. face.<br>Value \$50  |
| No. 1 | The discovery point of XIV #5 lode, being on the lode line, 120 ft. from a point on line 2-3, 299.86 ft. from Cor. No. 2.<br>No Value   |
| No. 2 | A cut, 5 ft. wide, the face of which bears S. 61° 15' E., 240 ft. from Cor. No. 2, runs N. 62° E., 8 ft. to 10 ft. face and filled shaft.<br>Value \$100  |
| No. 1 | The discovery point of XIV No. 6 lode, being on the lode line, 915.75 ft. from a point on line 4-1, 300 ft. from Cor. No. 4.<br>No Value  |



## Survey No. 4425

<del>Claims</del>	
No. 2	A cut, 6 ft. wide, the face of which bears N. 13° 25' W., 978 ft. from Cor. No. 4, 12 ft. face, runs N. 17° W., 20 ft. to face and portal of adit, 4x5 ft. in size, running N. 17° W., 6 ft. to breast. Value \$200
No. 3	A cut, 5 ft. wide, the face of which bears N. 16° 50' W., 930 ft. from Cor. No. 4, runs N. 42° W., 20 ft. to 12 ft. face; badly caved. Value \$200
No. 4	A cut, 6 ft. wide, the face of which bears N. 89° 55' W., 134 ft. from Cor. No. 3, runs N. 43° W., 18 ft. to face. Value \$200
No. 5	A cut, 8 ft. side, the face of which bears N. 71° 00' W., 220 ft. from Cor. No. 4, 12 ft. face, runs N. 50° W., 12 ft. to face and portal of adit, 4x5 ft. in size, running N. 50° W., 14 ft. to breast. Value \$500
No. 6	A cut, 6 ft. wide, the face of which bears N. 43° 15' E., 206 ft. from Cor. No. 1, 12 ft. face; runs N., 18 ft. to face and portal of adit, 5x6 ft. in size, running N. 2° 30' E., 90 ft. to breast. Value \$2000
No. 7	A cut, 10 ft. wide, the face of which bears N. 25° 46' E., 204 ft. from Cor. No. 1, runs N. 10° W., 60 ft. to 18 ft. face. Value \$2000
No. 1	The discovery point of the XIV #7 lode; being on the lode line, 210 ft. from a point on line 3-4, 300 ft. from Cor. No. 3. No Value
No. 2	Cut, 6 ft. wide, the face of which bears S. 1½° W., 289 ft. from Cor. No. 4, XIV No. 6 lode, 16 ft. face, runs S. 78° W., 25 ft. to face and portal of adit, 4x5 ft. in size, running S. 78° W., 8 ft. to breast. Value \$500
No. 3	A cut, 6 ft. wide, the face of which bears N. 54° 30' W., 700 ft. from Cor. No. 4, 14 ft. face, runs S. 60° W., 20 ft. to face and portal of adit, 4x6 ft. in size, running S. 60° W., 60 ft. to breast. Value \$300
No. 4	A trench, 6 ft. wide, the face of which bears N. 87° 30' E., 300 ft. from Cor. No. 1, 6 ft. face, runs S. 37° W., 60 ft. to face. At 25 ft. in the trench is an inclined shaft, 6x6 ft. in size, dipping 50°, S. 65° E., 30 ft. deep, Value \$1000
No. 5	An inclined shaft, 6x8 ft. in size, the center of which bears N. 78° 40' E., 305 ft. from Cor. No. 1, dips 40°, S. 20° E., 18 ft. deep; partly filled. Value \$300
No. 6	A trench, 2 ft. wide, the face of which bears N. 80° E., 265 ft. from Cor. No. 1, runs S. 12° W., 10 ft. to 2 ft. face. Value \$25
No. 7	A trench, 2 ft. wide, the face of which bears S. 89° E., 180 ft. from Cor. No. 1, runs S. 3° E., 40 ft. to a 2 ft. face; partly filled. Value \$100
No. 8	Shaft, 4x6 ft. in size, 5 ft. deep, the center of which bears N. 53° E., 95 ft. from Cor. No. 1 Value \$50

## Survey No. 4425

Feet Cuts	
No. 9	Shaft, 4x10 ft. in size, 8 ft. deep, the center of which bears N. 8° 30' E., 85 ft. from Cor. No. 1; nearly filled. Value \$150
No. 10	A cut, 5 ft. wide, the face of which bears W., 620 ft. from Cor. No. 3, runs S. 67° W., 12 ft. to 8 ft. face; partly filled. Value \$100
No. 11	A cut, 6 ft. wide, the face of which bears N. 84° W., 575 ft. from Cor. No. 3, 8 ft. face, runs S. 31° W., 14 ft. to face and portal of adit, 5x6 ft. in size, running S. 31° W., 200 ft. to breast. Value \$4000
No. 12	A cut, 5 ft. wide, the face of which bears N. 89° W., 265 ft. from Cor. No. 3, 9 ft. face, runs S. 4° E., 10 ft. to face and portal of adit, 4x4 ft. in size, running S. 4° E., 30 ft. to breast. Value \$450
No. 13	A shaft, 4x6 ft. in size, 6 ft. deep, the center of which bears S. 81° E., 225 ft. from Cor. No. 1. Value \$50
No. 1	The discovery point of XIV #8 lode, being on the lode line, 200 ft. from a point on line 4-1, 302.1 ft. from Cor. No. 1. No Value
No. 2	Cut, 6 ft. wide, the face of which bears N. 45° 20' E., 240 ft. from Cor. No. 1, 12 ft. face, runs S. 20° W., 15 ft. to face and portal of adit, 5x6 ft. in size, running S. 25° W., with 40 ft. of crosscuts at 40 ft. from portal, 130 ft. to breast. Value \$3500
No. 3	Cut, 6 ft. wide, the face of which bears S. 34° 20' E., 295 ft. from Cor. No. 2, runs N. 30° W., 20 ft. to face. Value \$200
No. 4	A trench, 3 ft. wide, the face of which bears S. 61° 15' W., 230 ft. from Cor. No. 3, runs N. 20° W., 12 ft. to 2 ft. face; partly filled. Value \$25
No. 5	A cut, 6 ft. wide, the face of which bears S. 54° 40' W., 230 ft. from Cor. No. 3, runs N. 13° E., 20 ft. to 10 ft. face; partly filled. Value \$200
No. 6	A shaft, 4x6 ft. in size, 8 ft. deep, the center of which bears S. 81° W., 125 ft. from Cor. No. 3; partly filled. Value \$100
No. 7	A cut, 5 ft. wide, the face of which bears N. 20° W., 150 ft. from Cor. No. 4, 8 ft. face, runs N. 30° E., 12 ft. to face and portal of adit, 5x6 ft. in size, running N. 30° E., 6 ft. to breast. Value \$200
No. 1	The discovery cut of XIV #9 lode, the face of which being the discovery point, falls on the lode line, 75 ft. from a point on line 3-4, 299.43 ft. from Cor. No. 3, 6 ft. wide, runs N. 65° E., 12 ft. to 12 ft. face. Value \$400
No. 1	The discovery point of XIV #10 lode, being on the lode line, 685 ft. from a point on line 4-1, 169.61 ft. from Cor. No. 4. No Value
No. 2	A cut, 5 ft. wide, the face of which bears N. 6° 45' E., 675 ft. from Cor. No. 4, runs N. 15° E., 15 ft. to 11 ft. face. Value \$200

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Survey No. 4425

Character

No. 1 The discovery point of XIV #12 lode, being on the lode line, 200 ft. from a point on line 4-1, 300 ft. from Cor. No. 4.  
No Value

No. 2 An adit, 5x7 ft. in size, the portal of which bears N. 48° 15' E., 340 ft. from Cor. No. 1, runs N. 40° E., 16 ft. to breast.  
Value \$300

An interest in common improvement described as follows:

A cut, 6 ft. wide, the face of which bears N. 33° 10' W., 225 ft. from Cor. No. 4, XIV #8 lode, 10 ft. face, runs N. 22° E., 12 ft. to face and portal of adit, 5x6 ft. in size, running N. 23° E., 180 ft. to breast; a raise at 100 ft. and a drift at 85 ft.  
Value of workings \$4000

Value of one-third interest, \$1330

An undivided third interest is to be credited to each XIV #8, #10 and #12 lodes, all three being contiguous claims.

The road from the open pit mine to the lime quarry runs 530 ft. across XIV #3 lode.  
Value \$1000

Value of one-ninth interest, \$110

This improvement is credited with an equal and undivided interest to each of the nine claims of the group.

An access road, 12 ft. wide, runs 800 ft. from U. S. Highway No. 666 to the workings in the XIV #5, No. 6 and #7 area. An undivided one-third interest to each of these contiguous claims.

Value of the entire road, \$2000

Value of one-third interest, \$650

No portion of or interest in these improvements has been credited heretofore as patent expenditures to any lode claim.

OTHER IMPROVEMENTS

A cut, the face of which bears N. 20° 20' E., 750 ft. from Cor. No. 4, XIV #12 lode, runs NW. to portal of adit, 4x7 ft. in size, 150 ft. to breast, with workings.  
Claimant Unknown

A shaft, 5x6 ft. in size, 10 ft. deep, the center of which bears N. 53° 30' E., 310 ft. from Cor. No. 1, XIV #12 lode, (No. 3 on the map)  
Claimant Unknown

A cut, 5 ft. wide, the face of which bears N. 40° 35' E., 213 ft. from Cor. No. 1, 9 ft. face, runs N. 22° E., 12 ft. to face and portal of adit, 5x5 ft. in size, running N. 22° E., 6 ft. to breast, (XIV #12 lode, No. 4 on the map)  
Claimant Unknown

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## Survey No. 4425

Chains

## OTHER CORNER DESCRIPTIONS AND SUPPLEMENTAL DATA

Sur. No. 1229, El Cajon lode: Cor. No. 2 is a monument with remains of rotted post in center. Cor. No. 1 is a 3 in. iron pipe in stone mound. Line 1-2 was found to be N. 12° 41' E., 1488.66 ft. instead of N. 17° 19' E., 1500 ft. as approved.

Sur. No. 1229, La Candelaria lode: Cor. No. 2 is a 2½ in. iron pipe in a mound of stone. Cor. No. 1 is a 4x6 in. post, firmly set and properly marked. Line 1-2 was found to be N. 17° 18' E., 1530.88 ft. instead of N. 17° 19' E., 1500.00 ft. as approved.

Sur. No. 1539, Lady Washington lode: Cor. No. 3 is a 3-in. iron post in a mound of stone. Cor. No. 2 and all accessories have been destroyed. Line 2-3 is shown as approved.

Sur. No. 3101, Cata Mount lode: Cors. No. 2 and 3 are 4x4 in. posts, firmly set in mounds of stone and properly marked. Line 2-3 was found to be N. 81° 34' E., 599.72 ft. instead of N. 81° 34' E., 600.0 ft. as approved.

Sur. No. 3101, Johanner No. 2 lode: Cor. No. 1 has been destroyed. The cor. point was reestablished at record course and distance from Cor. No. 2, Susannah lode of this same survey.

Sur. No. 3101, Blue and Gray lode: Cors. No. 2 and 3 are 4x4 in. posts, set in mounds of stone. Cor. No. 3 is a new post, recently reset: Line 2-3 was found to be N. 68° 16' W., 318.00 instead of N. 68° 21' W., 318.00 ft. as approved.

Sur. No. 3112, Johannah lode: Cor. No. 2 and all accessories have been destroyed. Line 2-3 is shown as approved. Cor. No. 3 is a steel rail.

Sur. No. 3112, Summit lode: Cor. No. 2 and all accessories have been destroyed. Line 2-3 is shown as approved.

Sur. No. 3112, S.L.C.L. lode: Cor. No. 3 is a 4x6 in. scribed post in a mound of stone. Line 3-4 is shown as approved.

Sur. No. 3149, Camino No. 2 lode: Cor. No. 2 is a cross (X) marked on cliff. Line 2-3 was found to be N. 73° 17' W., 299.60 ft. instead of N. 73° 21' W., 299 ft. as approved.

The ¼ sec. cor. common to secs. 32 and 33 is an iron pipe in a mound of stone, brass cap attached, firmly set and properly marked.

The cor. common to secs. 4, 5, 32 and 33, Ts. 3 and 4 S., R. 29 E. has been destroyed and reset from Phelps Dodge Coordinate data. Reset is a copper-coated steel rod, 3 ft. long, 27 ins. in the ground, and in a mound of stone, bronze cap attached and mkd. 4, 5, 32 and 33.

\* See page 18a.

## FIELD ASSISTANTS

Frank Eastman  
Russel Holford  
Joe Alvarez  
Merrell Bertrand  
Marlin Widger

Instrument  
Instrument  
Chain  
Chain  
Chain

Chains

## OTHER CORNER DESCRIPTIONS AND SUPPLEMENTAL DATA (Cont'd.)

Sur. No. 2400, Kay lode: Cor. No. 4, identical with Cor. No. 3 of Sur. No. 1539, Lady Washington lode, is a 3 in. iron post in a mound of stone. Cor. No. 1 is shown at record distance on line 1-2 of Sur. No. 1229, La Candelaria lode. Cor. No. 2 could not be found. Line 1-2 is shown as approved. Cor. No. 3 is shown identical to Cor. No. 2 of Sur. No. 1539, Lady Washington lode; line 2-3 was found to be S. 13° 18' W., 866.39 ft. instead of S. 13° 19' W., 866.17 ft., as approved.

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Survey No. 1125

Chains

Chains

GRANT SURVEY DESCRIPTIONS AND SUPPLEMENTAL DATA (Cont'd.)

27. No. 100, Key Lot; Cor. No. 1, identical with Cor. No. 2 of  
 Cor. No. 100, Lady Washington Lot, is 3 in. from post in a  
 mound of stone. Cor. No. 1 is shown as record distance in line 1-2  
 of S.Y. No. 1125, in General's Lot. Cor. No. 2 could not be located.  
 Line 1-2 is shown as approved. Cor. No. 3 is shown identical to  
 Cor. No. 2 of Cor. No. 100, Lady Washington Lot; line 1-2 was  
 found to be 12° 18' W., 368.39 ft. instead of 2° 13' 00" W.,  
 368.11 ft., as approved.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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CERTIFICATE OF SURVEYOR

July 22, 1957

I, ROBERT LENON,

Mineral Surveyor, hereby certify upon honor that in pursuance of an order received from the

OFFICE CADASTRAL ENGINEER, at PHOENIX, ARIZONA

dated December 19, 1956, I have faithfully and correctly executed the survey of

the mining claim of PHELPS DODGE CORPORATION,

known as the XIV #3, #4, #5, No. 6, #7, #8, #9, #10, and #12  
(Lode, placer, or mill site)

situate in Copper Mountain mining district, sec's 32 & 33, 4 & 5,

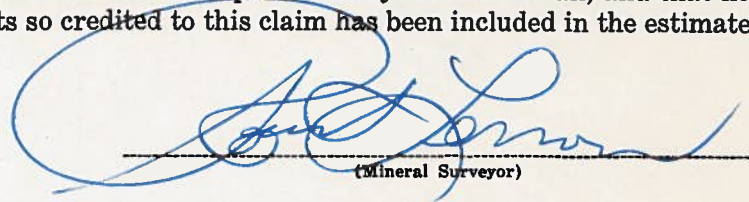
T. 3 & 4 S., R. 29 E., G. & S. R. Meridian, ARIZONA, and  
(State)

designated as Survey No. 4425, which is 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 order, 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, and I do further certify that the labor expended and improvements made

upon or for the benefit of the lode location(s) embraced in the said mining claim by  
(Lode or placer)

claimant(s) or its grantors are fully stated in my report therein, and that the character, extent, location, and itemized value thereof are specified therein with particularity and full detail, and that no portion of, or interest in, said labor and improvements so credited to this claim has been included in the estimate of expenditures upon any other claim.

Patagonia, Arizona  
(Place)

  
(Mineral Surveyor)

CERTIFICATE OF APPROVAL

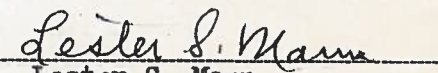
Bureau of Land Management--Survey Office  
(Office)

Phoenix, Arizona March 12, 1959  
(Place) (Date)

The foregoing field notes of mineral survey No. 4425 in  
Secs. 32 and 33 3 S. 29 E.  
Secs. 4 and 5, T. 4 S., R. 29 E., Gila and Salt River Meridian,

Arizona, executed by Robert Lenon, Mineral Surveyor,  
(State)

under order dated January 8, 1957, having been critically examined and the necessary corrections made prior to their certification by the surveyor, the field notes and the survey therein described are hereby approved.

  
Lester S. Mann  
Office Cadastral Engineer  
(Title)

CERTIFICATE OF TRANSCRIPT

I CERTIFY that the foregoing transcript of field notes of the above described mineral survey No. \_\_\_\_\_ is a true copy of the original field notes.

CERTIFICATE OF SURVEYOR

1957

ROBERT L. BROWN

Mineral Surveyor hereby certifies upon honor that in pursuance of an order received from the

Mineral Surveyor, hereby certifies upon honor that in pursuance of an order received from the

dated December 10, 1956, I have faithfully and correctly executed the survey of

the mining claim of

known as the

situated in

T. 33 S. R. 10 E. S. 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000

designated as Survey No. 1234, which is returned in the foregoing field notes as having been  
located by me and under my direction and that said survey has been made in strict accordance with said order,  
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, and I do further certify that the labor expended and improvements made  
equal to or in the amount of the

amount of the said claim is  
and that the character  
of the claim has been included in the certificate  
of approval upon my office files.

CERTIFICATE OF APPROVAL

I, the undersigned, hereby certify that the foregoing field notes of Robert L. Brown, Survey No. 1234, are  
correct and true, and that the same have been examined and approved by me, the undersigned,  
Mineral Surveyor, on this 12th day of December, 1956.

The foregoing field notes of Robert L. Brown, Survey No. 1234, are  
correct and true, and that the same have been examined and approved by me, the undersigned,  
Mineral Surveyor, on this 12th day of December, 1956.

I, the undersigned, hereby certify that the foregoing field notes of Robert L. Brown, Survey No. 1234, are  
correct and true, and that the same have been examined and approved by me, the undersigned,  
Mineral Surveyor, on this 12th day of December, 1956.

CERTIFICATE OF TRANSFER

I, the undersigned, hereby certify that the foregoing field notes of Robert L. Brown, Survey No. 1234, are  
correct and true, and that the same have been examined and approved by me, the undersigned,  
Mineral Surveyor, on this 12th day of December, 1956.