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MINERAL SURVEY NO. 1733

Claims	M & B Desc.	Improvements	Loc. Notices
Black Diamond	6	12	5
Copper Chief	2	10	3
Ida Belle	1	10	2
Jolly Liar	5	11	1
San Pedro	4	11	4

UNITED STATES
DEPARTMENT OF THE INTERIOR
GENERAL LAND OFFICE
CADASTRAL ENGINEERING SERVICE
PUBLIC SURVEY OFFICE

5/4/03

(4-683.)

Mineral Survey No. 1733.

Lot No.

Gila Land District.

FIELD NOTES

OF THE SURVEY OF THE MINING CLAIM OF

Shannon Copper Company,

KNOWN AS THE

Ida Belle, Jolly Liar, Copper Chief, San Pedro and Black Diamond

Copper Mountain or Greenlee Gold Mountain, Mining District,

Graham County, Arizona.

Section 3 & 10, Township 4 S., Range 29 E.

Surveyed under instructions dated Dec. 1, 1902.

by Lorenzo D. Chillson, U. S. Deputy Mineral Surveyor.

Claim located See Notices, 1

Survey commenced Jan 8th, 1903

Survey completed Jan 13th, 1903

PRELIMINARY OATHS OF ASSISTANTS IN SURVEY OF MINING CLAIM.

WE, Alvin Packwood and O. Aronchals,
do solemnly swear that we will well and faithfully execute the duties of chain carriers; that we will level the chain upon even and uneven ground and plumb the tally-pins, either by sticking or dropping the same; that we will report the true distance to all notable objects, and the true length of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the Mining Claim of the Shannon Copper

Company
known as the Tally Iron, Ida Belle, Copper Chief, San Pedro and Black Diamond
situate in Arconlee Gold Mountain mining district
Arconlee County, approximately
in Sections 3 & 10, Township No. 4 S., Range No. 22 E.

Alvin Packwood Chairman.

Jose Maria Perez, Chairman.

Subscribed and sworn to by the above-named persons before me this 8th day of January, 1903.

J. D. Chilson - Notary Public
My Commission expires Feb, 24th 1906

I, Jose M^o Perez, do solemnly swear that I will well and truly perform the duties of axman, in the establishment of corners and other duties, according to instructions given me and to the best of my skill and ability, in the survey of the Mining Claim of the Shannon Copper Company

known as the Tally Iron, Ida Belle, Copper Chief, San Pedro and Black Diamond
more fully described in the preceding affidavit.

Jose M^o Perez, Axman.

Subscribed and sworn to by the said Jose M^o Perez
before me this 8th day of January, 1903.

J. D. Chilson - Notary Public
My Commission expires Feb, 24th 1906

I, Jose M^o Perez, do solemnly swear that I will well and truly perform the duties of flagman, in the establishment of corners and other duties, according to instructions given me and to the best of my skill and ability, in the survey of the Mining Claim of the Shannon Copper Company

known as the Tally Iron, Ida Belle, Copper Chief, San Pedro and Black Diamond
more fully described in the preceding affidavit.

Jose M^o Perez, Flagman.

Subscribed and sworn to by the said Jose M^o Perez
before me this 8th day of January, 1903.

J. D. Chilson - Notary Public
My Commission expires Feb, 24th 1906

Feet. Mineral Survey No. 1733, Known as the Sands Group.

I D A B E L L E L O D E C L A I M .

Beginning at Cor. No. 1, the S. W. Cor. of the Claim,
4 ft. long.

Set a 4 x 4 inch pine post, 2 ft. in the ground, marked
I. B. 1-1733, and raised a mound of stone ^{around post} ~~alongside~~ 2 ft. base
3 ft. high, Whence,

U. S. M. M. No. 3, bears N. 59 deg. 48 min. W., 5,617.8
ft. dist.

Cor. of sec. 1-2-11-12, T4S, R 29 E., bns. N. 87° 25' 30" E. 2918.7 ft. dist
A Grey porphyry rock, 4 x 3 x 3 ft., chiseled I. B. 1-1733
and a * B. R. bears S. 58 deg. 13 min. E., 5. 7 ft. dist.

No other bearings available.

Thence N. 29 deg. 46 min. E.

Var. 12 deg. 39 min. E.

Along the West Side line of this Claim.

1500. To Cor. No. 2, Identical with Cor. No. 4 of the Copper Chief
lode claim of this survey. Set a 4 x 4 inch pine post, 4 ft.
long, 2 ft. in the ground, post marhed I. B. 2-1733 and C. C.
4-1733 and raised a mound of stone 2 ft. base, 3 ft. high,
^{around post} ~~alongside~~.

No bearing objects available.

Thence S. 58 deg. 13 min. E.

Var. 12 deg. 33 min. E.

Along the North End line of this Claim.

300. A post and mound of stones, the N. E. C. of this Claim.

437.5 Intersect west side line of the King Patented Claim, Sur.
No. 574, at N. 31 deg. 47 min. E., 920 ft. from the S. W.
Cor. No. 7 of the said Kind Claim.

600. To Cor. No. 3, the N. E. Cor. of this Claim.

Set a 4 x 4 inch pine post, 4 ft. long, set 2 ft. in the
ground, marked I. B. 3-1733, and raised a mound of stone, 3
ft. base 2 ft. high, ^{AROUNDPOST} ~~alongside~~.

No bearings available.

= 2 =

Feet.

Thence S. 29 deg. 46 min. W.

Var. 12 deg. 23 min. E.

Along the East Side line of this Claim.

920.3 Intersect the South End line of the King Claim Sur. No. 574, at S. 58 deg. 13 min. E. 195 ft. from the S. W. Cor. No. 7.

1500. To Cor. No. 4, the S. E. Cor. of the Claim.

Set a 4 x 4 inch pine post, 4 ft. long. 2 ft. in the ground, marked I. B. 4-1733, and raised a mound of stone 3 ft. base 2 ft. high, ^{around post} ~~alongside~~., Whence,

A red porphyry rock, 20 x 10 x 8 ft. chiseled I. B. 4-1733 B. R. bears N. 34 deg. 30 min. E., 12.7 ft. dist.

No other bearings available.

Thence N. 58 deg. 13 min. W.

Var. 12 deg. 18 min. E.

Along the South End line of this Claim.

300. A post and mound of stone the S. E. C. of the Claim.

600. To Cor. No. 1, the Place of beginning.

The Survey is identical with the location.

C O P P E R C H I E F L O D E C L A I M .

Beginning at Cor. No. 1, the S. E. Cor. Identical with Cor. No. 1, of the Ida Belle Claim, of this survey. Cor. heretofore Described. Post scribed C. C. 1-1733.

U. S. M. M. NO.3 bears N. 59 deg. 48 min. W., 5,617.8 ft.
Cor. to sec. 1-2-11-12, T4S, R.29E. brs. N. 67°28'30" E. 8,715.7 ft. dist

Thence N. 58 deg. 13 min. W.

Var. 12 deg. 39 min. E.

Along the S. E. Line of this Claim.

200. A post and mound of stones the S. E. C. of the Claim.

400. To Cor. No. 2, identical with Cor. 4 of the San Pedro Claim of this Survey.

= 3 =

Feet. Set a 4 x 4 inch pine post, 4 ft. long, 2 ft. in the ground, Marked C. C. 2-1733 and S. P. 4-1733, and raised a mound of stone 3 ft. base 2 ft. high, alongside, Whence,

Chiseled C. C. 2-1733 and S. P. 4-1733 B. R. and a *, on a granite ledge, which bears S. 58 deg. 13 min. E., 5ft. 10 ins. dist.

No other bearings available.

Thence N. 29 deg. 46 min. E.

Var. 12 deg. 30 min. E.

Along the West side line of this Claim and the East side line of the San Pedro Claim.

1500. To Cor. No. 3, identical with Cor. No. 3 of the San Pedro Claim of this Survey.

Set a 4 x 4 inch pine post, 4 ft. long, 2 ft. in the ground, marked C. C. 3-1733 and S. P. 3-1733, and raised a mound of stone 3 ft. base 2 ft. high, ^{around post} alongside.

A grey porphyry rock, 5 x 3 x 3 ft. chiseled C. C. 3-1733 and S. P. 3-1733, and a * B. R. bears S. 52 deg. 45 min. E. 23 ft. dist.

No other bearings available.

Thence S. 58 deg. 13 min. E.

Var. 12 deg. 17 min. E.

Along the North End line of this Claim and at

200. The N. E. C., a post surrounded by a mound of stone.

400. To Cor. No. 4, identical with Cor. No. 2 of the Ida Belle Cor. heretofore described.

Thence S. 29 deg. 46 min. W.,

Var. 12 deg. 23 min. E.

Along the East side line of this Claim and the West side line of the Ida Belle Claim.

1500. To Cor. No. 1 the place of beginning.

The Survey is identical with the location.

= 4 =

S A N P E D R O L O D E C L A I M .

Feet. Beginning at Cor. No. 1, the S. W. Cor. identical with Cor. No. 1 of the Jolly Liar Claim of this Survey.

Set a 4 x 4 inch pine post, 4 ft. long set 2 ft. in the ground, marked S. P. 1-1733 and J. L. 1-1733, and raised a mound of stone 3 ft. base 2½ ft. high, ^{around post} ~~alongside~~. Whence

U. S. M. M. No. 3 bears N. 60 deg. 04 min. W., 4818.8 ft.

Cor. to sec. 1-2-11-12, T4S. R. 29 E. Sec. 8, S. 87° 02' E. 7, 578 ft. dist

A grey porphyry rock, 10) x 6 x 4 ft, above ground bears

N. 21 deg. E., 21 ft. dist. chiseled S. P. 1-1733 and J. L. 1-1733 with a cross and B. R.

No other bearings available.

Thence N. 29 deg. 46 min. E.

Var. 12 deg. 30 min. E.

Along the West side line of this Claim and the East side line of the Jolly Liar Claim, of this survey.

1500. To Cor. No. 2, identical with Cor. No. 4 of the Jolly Liar

Set a 4 x 4 inch pine post, 4 ft. long, 2 ft. in the ground, marked S. P. 2-1733 and J. L. 4-1733 and raised a mound of stone 3 ft. base 2½ ft. high, ^{around post} ~~alongside~~., Whence,

A Sinite rock, 8 x 4 x 4 ft. above ground, chiseled S. P. 2-1733 and J. L. 4-1733, a * and B. R. bears S. 58 deg. 13 min. E., 5.8 ft. dist.

No other bearings available.

Thence S. 58 deg. 13 min. E.

Var. 12 deg. 08 min. E.

Along the N. E. Line of this Claim.

200. A post and mound of stones the N. E. C. of the Claim.

400. To Cor. No. 3, Identical with Cor. No. 3 of the Copper Chief Claim of this Survey. Cor. heretofore described.

Thence S. 29 deg. 46 min. W.

Var. 12 deg. 17 min. W. ~~12~~

1500. To Cor. No. 4, identical with Cor. No. 2 of the Copper Chief

= 5 =

Feet. Claim of this Survey. Cor. Heretofore Described.

Thence N. 58 deg. 13 min. W.

Var 12° 40' E.

200. A post and mound of stones the S. E. C. of the Claim.

400. To Cor. No. 1, the place of beginning.

The survey is identical with the location.

J O U R N A L L I A R L O D E C L A I M .

Beginning at Cor. No. 1, the S. E. Cor. Identical with

Cor. No. 1 of the San Pedro Claim, Cor. heretofore *Described*

*Q. S. M. M. No 3 - bear. N. 60° 04' W. 4, 318.8 ft.
bear. Cor. to 200. 1-2-11-12. T 4 S, R. 29 E, bear. S. 87° 05' 2" E. 2, 575. ft dist*

Thence N. 58 deg. 13 min. W.

Var. 12 deg. 33 min. E.

Along the South end line of this Claim.

22.5 Intersect the Northeasterly side line of the Chase Creek No. 4, Unsurveyed Claim, at S. 12 deg. 40 min. E., 318.56 ft. from the N. E. Cor.

200. To the S. E. C. of this Claim, a post and mound of stones.

400. To Cor. No. 2, the S. W. Cor. of this Claim.

Set a 4 x 4 inch pine post, 4 ft. long, 2 ft. in the ground, marked J. L. 2-1733, and raised a mound of stones 3 ft. base $2\frac{1}{2}$ ft. high, *around post* alongside.

No bearing objects available.

Thence N. 29 deg. 46 min. E.

Var. 12 deg. 13 min. E.

Along the westerly side line of this claim.

26.00 Intersect the Northerly end line of the Chase Creek No. 4, Unsd and the Southeasterly side line of the Chase Creek No. 5, Unsd., at S. 69 deg. 28 min. W., 254.3 ft. dist from the N.E. Cor. of the Chase Creek No. 4, and S. 69 deg. 28 min. W., 550.5 ft. dist. from the N. E. Cor. of the Chase Creek No. 5.

301.7
~~301.7~~

Intersect the Southerly end line of the Key West Lode Claim Unsurveyed, at N. 72 deg. 41 min. W., 18.5 ft. dist. from

= 6 =

Feet. the S. E. Cor. of the said claim.

1386.5 Intersect the northerly end line of the Key West Claim, Unsd. and the southerly end line of the Oriental patented claim. at N. 72 deg. 41 min. W., 45.7 ft. dist. from the N. E. Cor. of the latter claim, and 165.2 ft. from the S. E. Cor. of the former claim.

1500. To Cor. No. 3, the N. W. Cor. of the claim,

Set a 4 x 4 inch pine post, 4 ft. long 2 ft. in the ground marked J. L. 3-1733, and raised a mound of stone 3 ft. base, 2 1/2 ft. high, ^{around post} alongside. No bearings available.

Thence S. 58 deg. 13 min. E.

Var. 11 deg. 35 min. E.

Along the North end line of this claim.

31.00 Intersect the east side line of the Oriental patented claim, at N. 22 deg. 09 min. E., 103 1/2 ft. dist. from the S. E. Cor.

200.00 A post and mound of stones the N. E. C. of the claim.

400.00 To Cor. No. 4, identical with cor. No. 2, of the San Pedro Claim of this survey, Corner heretofore described.

Thence S. 29 deg. 46 min. W.

Var. 12 deg. 08 min. E.

Along the easterly side line of this claim and the westerly side line of the San Pedro Claim of this Survey.

1500. To Cor. No. 1 and the place of beginning.

Survey is identical with the location.

The difference in bearing between the end line of the Oriental and the official course is due to errors in the Oriental.

B L A C K D I A M O N D L O D E C L A I M .

Beginning at Cor. No. 1, the N. E. Cor. of the Claim.

On the south end line of the Ida Belle Claim, at N. 58 deg. 13 min. W., 215. ft. dist. from Cor. 4 of the Ida Belle.

Set a 4 x 4 inch pine post, 4 ft. long. 2 ft. in the ground, marked B. D. 1-1733, and raised a mound of stone 3 ft.

= 7 =

Feet. base 2 ft. high, alongside. Whence,

U. S. M. M. No. 3, bears N. 59 deg. 42 min. W., 6,003.08 ft. dist. No other bearings available.

Cor. to Sec. 1-2-11-12, 74 S. R. 29 E. be. N 88° 47' E. 8,600 ft. dist

Thence S. 29 deg. 46 min. E.

Var. 12 deg. 18 min. E.

Along the easterly end line of this claim.

72.5 A post and mound of stones the east end center of the claim.

145.00 To Cor. No. 2,

Set a 4 x 6 inch pine post, 4 ft. long, 2 ft. in the ground, marked B. D. 2-1733. This corner is against the west end of a porphyry rock 13 x 7 x 5 ft. above ground, chiseled on said rock immediately above top of post, B. D. 2-1733.

No bearings available.

Thence N. 58 deg. 13 min. W.

Var. 12 deg. 18 min. E.

Along the southerly side line of this claim.

1070.5 Intersect the easterly side line of the Chase Creek No. 4, Unsd. Claim. at S. 12 deg. 40 min. E., 521.56 ft. from the N. E. Cor. of said claim.

1207.5 To Cor. No. 3,

Set a 4 x 6 inch pine post, 4 ft. long, set 2 ft. in the ground, marked B. D. 3-1733, and raised a mound of stone, 3 ft. base, 2 ft. high, ^{around post} ~~alongside~~.

No bearings available.

Thence N. 29 deg. 46 min. E.

Var. 12 deg. 30 min. E.

72.5 ft. A post and mound of stones the W. E. C. of the claim.

145. To Cor. No. 4,

On the easterly side line of the Chase Creek No. 4, Unsd. Claim, and the south end line of the Jolly Liar Claim, of this survey. at N. 58 deg. 13 min. W., 22.5 ft. dist. from Cor. No. 1, of the Jolly Liar Claim.

Set a 4 x 4 inch pine post, 4 ft. long, 2 ft. in the

= 8 =

Feet. ground, and raised a mound of stone, 2 ft. base $1\frac{1}{2}$ ft. high,
~~alongside~~ ^{around post.} Post scribed B. D. 4-1733.
No bearings available.

Thence • S. 58 deg. 13 min. E.

Var. 12 deg. 13 min. E.

Along the northerly side line of this claim., and the southerly end lines of the Jolly Liar, San Pedro, Copper Chief and Ida Belle Claims, all of this survey.

- 22.50 To Cor. 1_1 of the Jolly Liar and San Pedro Claims .
 - 422.50 To Cor. 4 of the San Pedro and 2 of the Copper Chief Claims.
 - 822.50 To Cor. 1 - 1 of the Ida Belle and Copper Chief Claims.
 - 1207.5 To Cor. No. 1, and the place of Beginning.
- All Corners are identical with the location.

O U T B O U N D A R I E S O F E X C L U D E D G R O U N D
N O T S U F F I C I E N T L Y D E S C R I B E D B Y I N T -
E R S E C T I O N S .

On the Jolly Liar, the following ground to be excluded.
of the Chase Creek No. 5, Beginning at a point, N, 29 deg.
46 min. E., 26 ft. from Cor. 2, of the Jolly Liar Claim;
Thence N. 69 deg. 28 min. E., 550.5 ft. from the N. E. Cor.
of the Chase Creek No. 5; Thence N. 12 deg. 40 min. W.,
412.2 ft. dist. to a point on the east side line of the Key
West, unsurveyed; Thence S. 37 deg. 17 min. W., 425.9 ft.
dist. to a point, being the Southeasterly

= 9' =

Cor. of the Key West, Unsurveyed. Thence N. 72 deg. ⁴¹19 min. W., along the South end line of that claim, 18.5 ft. to point of intersection with the Jolly Liar claim, at N. 29 deg. 46 min. E., 301.7 ft. dist. from the place of Beginning.

Less the following conflict with the Key West, Unsurveyed.

Beginning at a point, on the west side line of the Jolly Liar Claim, at N. 29 deg. 46 min. E., 327.7 ft. from the Cor. No. 2, of the J. L., Thence S. 72 deg. 10 min. ³W., 18.5 ft. to a point, the S. E. Cor. of the Key West, Thence N. 37 deg. 17 min. E., ^{1100.00}~~1100.00~~ ft. to the N. E. Cor. of the Key West, Thence N. 72 deg. ⁴¹19 min. W., ^{119.50}~~45.70~~ to the S. E. Cor. of the Oriental patented claim, ^{165.2}~~119.50~~ to point of intersection with the west side line of the Jolly Liar Claim,, at N. 29 deg. 46 min. E., ⁸1058.7 ft. dist. from the place of beginning.

Jolly Liar Conflict with Chase Creek No. 4 and the Oriental Patented, are sufficiently described by intersections in the notes of the survey of the exterior boundaries of the Jolly Liar Claim.

L E D G E S.

Ida Belle, N. 29 deg. 46 min. E., 550 and S. 29 deg. 46 min. W., 950 ft. from the Discovery shaft No. 1.

Copper Chief, N. 29 deg. 46 min. E., 1050 ft. and S. 29 deg. 46 min. W., 450 ft. from the Discovery shaft No. 1.

San Pedro, N. 29 deg. 46 min. E., 1050 ft. and S. 29 deg. 46 min. W., 450 ft. from the Discovery Shaft No. 1.

Jolly Liar, N. 29 deg. 46 min. E., 610 ft. and S. 29 deg. 46 min. W., 890 ft. from the Discovery Shaft No. 1.

Black Diamond, N. 58 deg. 13 min. W., 513 ft. and S. 58 deg. 13 min. E., 694.5 ft. from the Discovery shaft No. 1.

L O C A T I O N.

=10 =

In the Greenlee Gold or Copper Mountain Mining District, in Graham County Arizona, in Secs. 3rd & 10 T. 4th S., R. 29 E., of the Gila and Salt River Mer. Unsurveyed. Arizona. About 1/2 miles E. from the Town of Metcalf the nearest Post Office,

I M P R O V E M E N T S.

I certify that the value of the labor and improvements, upon or for these claims, is not less than five hundred dollars, and that said improvements consist of,

Ida Belle Claim,

No. 1 From the N. E. C., S. 29 deg. 46 min. W., 550 ft. Discovery Shaft No. 1, timbered 5 x 6 ft. in the clear, 30 ft. deep.
Value, \$360.00

No. 2 From the N. W. Cor., 2-1733, due west, 235 ft., entrance to the Sands Group working tunnel, fully described, under improvements for the Copper Chief, this survey, One fifth of the cost to be credited to this claim,
Value of Interest, \$895.00

Total value of improvements on or for this claim \$ 1255.00

Copper Chief Claim,

No. 1 From the S. E. C., N. 29 deg. 46 min. E., 450 ft. Dis. Shft. No. 1, 4 x 8 x 12 ft.
Value, \$150.00

No. 2 From the S. W. Cor., N. 39 deg. 00 min. E., 486 ft. entrance to an open cut, 6 ft. wide, extends N. 71 deg. E., 30 ft. thence a tunnel 5 ft. wide, 7 ft. high, extends same course 45 ft.
Value, \$650.00

=11 =

No. 3 From the N. E. C., S. 29 deg. 46 min. W., 124 ft., entrance to the Sands Group working tunnel, said tunnel is 5 ft. wide, 7 ft. high, equipped with T. rails and ore cars, extends S. 48 deg. E., 373 ft., and is being driven for the purpose of developing this Survey No. 1733, known as the Sands Group. The cost of the said tunnel is to be credited equally among the claims composing this survey.

Credited to this claim, one fifth of whole value \$895.00

Entire value, \$4,476.00

San Pedro,

No. 1 From the S. E. C., N. 29 deg. 46 min. E., 450 ft. Dis. Shaft 4 x 6) 10 ft. deep,

Value, \$100.00

One fifth interest in Tun. No. 3, described under Copper Chief Improvements,

Value of Interest, \$895.00

Total improvements for this Claim, \$995.00

Jolly Liar,

No. 1, From the N. E. C., S. 29 deg. 46 min. W., 610 ft. Dis. Shaft. 4 x 6 x 10 ft. deep,

Value, \$100.00

No. 2 At same course as No. 1, from the N. E. C., 700 ft. an open cut, 5 ft. wide, 10 ft. in, 7 ft. deep, with a 4 x 6 shaft, 10 ft. deep, at inner end,

Value, \$150.00

No. 3 From same point, S. 31 deg. 30 min. W., 544 ft., an open cut 6 ft. wide, 10 ft. in, with 4 x 6 x 5 ft. shaft, 10 ft. deep at inner end.

Value, 150.00

One fifth Interest in Tun. 3, on Copper Chief, heretofore described.

Value of Interest, \$895.00

= 12) =

Total improvements on or for this claim, \$1295.00

BLACK DIAMOND,

No. 1 From the N. W. End Center, S. 58 deg. 13 min. E., 513 ft. Discovery Shaft, 5 x 6 x 12 ft.

Value, \$120.00

One fifth interest, in Tunnel No. 3, on the Copper Chief Claim of this survey, heretofore described.

Value of Interest, \$895.00

Total improvements on or for this claim, \$ 1015.00

A R E A.

Total Area of the Ida Belle,	20.65 Acres.	
Less Conflict with the King, Sur. 574.	3.77 "	
Net area of the Ida Belle,		16.88 A.
Total and net are of the Copper Chief,		13.77/ "
Total and net area of the San Pedro,		13.77/ "
Total Area of the Jolly Liar,	13.771 "	
Less Conflict with the Chase Creek No.4	1.033 "	
Less Conflict with Chase Creek No. 5,	2.75/ "	
Less Conflict with the Key West,	2.130 "	
Less Conflict with the Oriental,	0.088."	
Net area of the Jolly Liar,		7.719 "
Total area of the Black Diamond,	4.017 "	
Less Conflict with the Chase Creek, No.4	0.228 "	
Net area of the Black Diamond,		3.789 "
Net area of lode claim,		55.930 "

A D J O I N I N G

C L A I M S.

On the east by the King, Sur. No. 574, and unsd. lands.
on the South by the Mc Jack, Unsurd. & Chase Creek No. 4.
On the west by the Chase Creek No. 5, & Key West Unsd. Clms.

and the Oriental, patented.

On the North by the Oriental and West King. Unsd.

The Arizona Copper Co. Owns all but the Mac Jack Claim. Adj.

NOTE: All points of intersection with other surveyed and un-surveyed claims, are perpetuated by a pine post, 4 x 4 inches, square, 4 ft. long, set 2 ft. in the ground, and surrounded by a substantial mound of stones.

I N S T R U M E N T .

This survey was executed with a Gurleys Engineers Transit, with Burt Solar Attachment. The courses were deflected from the true Meridian as determined by direct Solar Observations checked on Polaris. The distances were measured with a 50 and 100 ft. steel tape.

Lorenzo D. Chilson
U. S. Deputy Mineral Surveyor.

Metcalf, Graham County, Ariz. April 20th 1903.

FINAL OATHS FOR SURVEYS.

LIST OF NAMES.

A list of the names of the individuals employed by *Lorenzo D. Chilson*.....
 United States Deputy Mineral Surveyor, to assist in running, measuring, and marking the lines
 corners and boundaries described in the foregoing field notes of the survey of the mining claim
 of *the Shannon Copper Company*.....
 known as the *Tally Iron, Ida Belle, Copper Chief, San Pedro and Black
 Diamond*.....
 and showing the respective capacities in which they acted.

- Alvin Packwood*....., Chairman.
- C. Arander*....., Chairman.
- Jose M^o Perez*....., Axman.
- Jose M^o Perez*....., Flagman.

FINAL OATHS OF ASSISTANTS.

We, *Alvin Packwood, C. Arander,*.....
 and *Jose M^o Perez*....., do solemnly swear that we assisted *Lorenzo D.*.....
Chilson....., United States Deputy Mineral Surveyor, in marking the corners and
 surveying the boundaries of the mining claim of *the Shannon Copper*.....
Company.....
, known as the *Tally Iron, Ida
 Belle, Copper Chief, San Pedro and Black Diamond*....., represented
 in the foregoing field notes as having been surveyed by said deputy mineral surveyor and under
 his direction; and that said survey has been in all respects, to the best of our knowledge and
 belief, faithfully and correctly executed, and the corner and boundary monuments established
 according to law and the instructions furnished by the United States Surveyor-General for
the District of Arizona.....

- Alvin Packwood*, Chairman.
- Guillermo Arander*, Chairman.
- Jose M^o Perez*, Axman.
- Jose M^o Perez*, Flagman.

Subscribed and sworn to by the above-named persons before me
 this *13th*..... day of *January*....., 1903

L. D. Chilson - Notary Public
 My Commission Expires Feb,
24th 1906

(4-686.)

FINAL OATH OF U. S. DEPUTY MINERAL SURVEYOR

I, Lorenzo D. Chillson, U. S. Deputy Mineral Surveyor, do solemnly swear that, in pursuance of instructions received from the United States Surveyor General for Arizona, dated Dec. 1, 1902, I have, in strict conformity to the laws of the United States, the official regulations and instructions thereunder, and the instructions of said Surveyor General, faithfully and correctly executed the survey of the Mining Claim of The Shannon Copper Company, known as the Ida Belle, San Pedro, Jolly Liar, Copper Chief and Black Diamond situate in The Copper Mountain or Greenlee Gold Mt. Mining District, Graham County, Arizona, in Section ~~Approx~~ 5-8-10 Township No. 4 S., Range No. 29 E., Unsd and designated as Survey No. 1 7 3 3, as represented in the foregoing field notes, which accurately show the boundaries of said mining claim as distinctly marked by monuments on the ground, and described in the attached copy of the location certificate, which was received by me from the Surveyor General with said instructions, and that all the corners of said survey have been established and perpetuated in strict accordance with the law, official regulations and instructions thereunder; and I do further solemnly swear that the foregoing are the true and original field notes of said survey and my report therein, and that the labor expended and improvements made upon said mining claim by claimant or its grantors are as therein fully stated, and that the character, extent, location and itemized value thereof are specified therein with particularity and full detail, and that no portion of said labor or improvements so credited to this claim has been included in the estimate of expenditures upon any other claim.

Lorenzo D. Chillson
U. S. Deputy Mineral Surveyor.

Subscribed and sworn to by the said Lorenzo D. Chillson
U. S. Deputy Mineral Surveyor, before me A. M. Franklin a
Notary Public this First
day of May 1903, My Commission Expires Sept. 10, 1903

A. M. Franklin
Notary Public



JUN 25 1903

TUCSON June 24th 1903¹⁸

Hon. U. S. Surveyor General
Phoenix

Sir:

In working up my Survey for the A. C. Company of Clifton; I find that the Sands Group in the Shannon Survey - Survey No. 1733, lies within two miles of a Sec, Cor, - Government Survey. Therefore, I wish to supplement my Notes in Survey Number 1733 as follows viz:

From Cor. 1-1 of the San Pedro and Jolly Liar, Cor, of Secs, 1-2-11 & 12, T. 4 S. - R. 29 E. brs, S. $89^{\circ} 52' E.$ 9525 feet.

From Cor. 1 of the Black Diamond, Same Sec, Cor, bears $N 85^{\circ} 47' E.$ - 8600 feet.

From Cor. 1-1 of the Copper Chief and Teta Belle, Same Sec, Cor, bears $N. 87^{\circ} 25' 30'' E.$ - 8915. 7 feet elist.

Very Respectfully

L. D. Chillson

U. S. D'py Mt. Svysr

JUL 7 - 1903

TUCSON - July 6th 1903

19

U. S. Surveyor General

Phoenix

Sir:

Yours of July 6th? duly received. The Supplemental Notes of Survey 1733 giving full data to the subject matter referred to in your letter of July 6th?, were forwarded to your Office by mail on June 24th. I now have before me your letter bearing date June 25th, in which you say "I am in receipt of your letter of the 24th instant, — The supplemental notes have been filed with the returns of your survey No 1733" — which please see. I will here state, that, no $\frac{1}{4}$ Cor; nor any other Sec; Cor, can be found on that N. & S. section line.

Yours most obedient

J. D. Chilson

U. S. Depy M. S. & S.

Affidavit of Five Hundred Dollars Improvements.

We, W. E. Matson, and M. Blumenthal,

of lawful age, being first duly sworn according to law, depose and say: That we are acquainted with the Jolly Lutz, Ida Belle, Copper Chief, San Pedro and Black Diamond mining claims, situate in Greenlee Gold Mountain Mining district, Coconino County, Arizona Territory, for which the Shannon Copper Company

has made application for survey prior to application for patent under the provisions of the Act of Congress, approved May 10, 1872; and that the labor done and improvements made thereon by the applicant and their grantors exceed Five Hundred Dollars in value, and further that we are not personally interested in said mine.

W. E. Matson

M. Blumenthal

TERRITORY OF ARIZONA, }
County of Coconino } ss:

Sworn to and subscribed before me, this 13th

day of January, 1903



L. D. Chilson - Notary Public
My Commission expires Feb, 24th 1906

Group No. 1.

21

AMENDED
NOTICE OF MINING LOCATION.
Lode Claim.

TO ALL WHOM IT MAY CONCERN:-

This mining claim, the name of which is the Jolly Liar Mining Claim, situate on lands belonging to the United States of America, and in which there are valuable mineral deposits, was entered upon and located for the purpose of exploration and purchase by The Shannon Copper Company per H.S. Anderson, Manager, a citizen of the United States the undersigned, on the 14th day of October 1902.

The length of this claim is fifteen hundred feet, and I claim seven hundred more or less feet feet, in a North easterly direction, and eight hundred more or less feet in a South westerly direction from the center of the discovery shaft, at which this notice is posted, lengthwise of the claim, together with two hundred feet in width of the surface grounds, on each side of the center of said claim. The general course of the lode deposit and premises is from the South westerly to the North easterly.

The claim is situated and located in the Greenlee Gild Mountain Mining District, in Graham County, in the Territory of Arizona, about one mile in a Southerly direction from the U.S.L.M. No. 2

The surface boundaries of the claim are marked upon the ground as follows:- Beginning at a post and monument of stones at a point in a South Westerly direction 800 more or less feet from the discovery shaft (at which this notice is posted), being in the center of the South westerly end line of said claim; thence N. 58° 13' W. 200 feet to a post and monument of stones, being the S.W. corner of said claim; thence N. 29° 46' E. 1500 feet to a post and monument of stones, being at the N.W. corner of said claim; thence South 58° 13' E. 200 feet to a post & monument of stones at the center of the North Easterly end of said claim; thence

same course 200 feet to a post & monument of stones, being at the N.E. corner of said claim; thence S.29°46' W. 1500 feet to a post and monument of stones at the S.E. corner of said claim; thence N.58°13' W.200 feet to the place of beginning.

All done under the provisions of Chapter Six, of Title XXXII, of the Revised Statutes of the United States, and of an Act of the General Assembly of arizona, entitled "An Act to Revise and Codify the Laws of the Territory of Arizona", approved March 16th, 1901.

Dated and posted on the ground this 14th day of October 1902.


Witness: Shannon Copper Co.
John G. Kirchen. By H.S. Anderson, Mgr.

Filed and recorded at request of H.S. Anderson October 20th, 1902 at 9 A.M
Thomas Smith, County Recorder
By L. Stevenson, Deputy.

Territory of arizona)
:ss
County of Graham.)

I, Thomas Smith, County Recorder in and for the County and Territory aforesaid, do hereby certify, that the foregoing is a full, true and complete copy of the amended mining location of the "Jolly Liar" Mining Claim, as the same appears upon the Records of Graham County, filed and recorded at 9 o'clock A.M. October 20th. A.D. 1902 in Book 15 Records of Mines at page 193.

In Witness Whereof, I have hereunto set my hand and affixed my official seal at my office in Solomonville, said County and Territory this 20th day of October A.D. 1902.


County Recorder, Graham County,
Territory of Arizona.

AMENDED
NOTICE OF MINING LOCATION
Lode Claim.

TO ALL WHOM IT MAY CONCERN:-

This mining claim, the name of which is the Ida Belle Mining Claim, situate on lands belonging to the United States of America, and in which there are valuable mineral deposits, was entered upon and located for the purpose of exploration and purchase by the Shannon Copper Company per H.S. Anderson, Manager, a citizen of the United States; the undersigned, on the fourteenth day of October 1902.

The length of this claim is fifteen hundred feet, and I claim five hundred more or less feet, in a North Easterly direction, and 950 more or less feet in a South Easterly direction from the center of the discovery shaft, at which this notice is posted, lengthwise of the claim, together with Three hundred feet in width of the surface grounds on each side of the center of said claim. The general course of the lode deposit and premises is from the North easterly to the South Westerly.

The claim is situated and located in the Greenlee Gold Mountain Mining District, in Graham County, in the territory of Arizona, about one mile in a Southerly direction from U.S.L.M. No. 2

The surface boundaries of the claim are marked upon the ground as follows:- Beginning at a post and monument of stones at a point in a North Easterly direction 550 more or less feet from the discovery shaft (at which this notice is posted), being in the center of the Northⁿ easterly end line of said claim; thence ^S $58^{\circ}13'$ E. 300 feet to a post & monument of stones, being the N.E. corner of said claim; thence $S.29^{\circ}46'$ W. 1500 feet to a post & monument of stones, being at the S.E. corner of said claim; thence $N.58^{\circ}13'$ W. 300 feet to a post & monument of stones at the center of the South westerly end of said claim; thence same course 300 feet to a post & monument of stones, being at the S.W. corner

of said claim; thence N.29°46' E.1500 feet to a post & monument of stones at the N.W. corner of said claim; thence S.58°13'E 300 feet to the place of beginning.

All done under the provisions of Chapter Six, of Title XXXII, of the Revised Statutes of the United States, and of an Act of the General Assembly of arizona, entitled "An Act to Revise and Codify the Laws of the Territory of arizona" approved March 16th, 1901.

Dated and posted on the ground this 14th day of October 1902.

Witness:

Shannon Copper Co.

John G. Kirchen.

By H.S. Anderson, Manager.

Filed and recorded at request of H.S. Anderson, Manager October 20th, 1902 at 9 A.M.

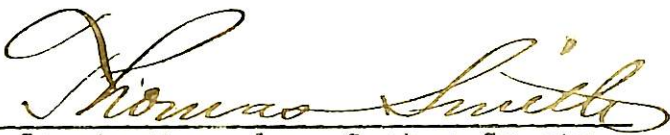
Thomas Smith, County recorder.

By L. Stevenson, Deputy.

Territory of Arizona) : SS
County of Graham.)

I, Thomas Smith, County Recorder, in and for the County and Territory aforesaid, do hereby certify, that the foregoing is a full, true and complete copy of the amended Mining Location of the "Ida Belle" Mining Claim, as the same appears upon the Records of Graham County, filed and recorded at 9 o'clock A.M. October 20th A D. 1902 in Book 15 Records of Mines at page 192.

In Witness Whereof, I have hereunto set my hand and affixed my official seal at my office in Solomonville, said County and Territory this 20th day of October A.D. 1902.


County Recorder, Graham County,
Territory of Arizona.

A M E N D E D

NOTICE OF MINING LOCATION.

Lode Claim.

TO ALL WHOM IT MAY CONCERN:-

This mining claim, the name of which is the Copper Chief Mining Claim, situate on lands belonging to the United States of America, and in which there are valuable mineral deposits, was entered upon and located for the purpose of exploration and purchase by the Shannon Copper Company, per H.S. Anderson, ^{Manager} a citizen of the United States the undersigned, on the 14th day of October 1902.

The length of this claim is fifteen hundred feet and I claim four hundred and fifty more or less feet in a South Westerly direction and 1050 more or less feet in a North easterly direction from the center of the discovery shaft, at which this notice is posted, lengthwise of the claim, together with two hundred feet in width of the surface grounds, on each side of the center of said claim. The general course of the lode deposit and premises is from the South westerly to the North Easterly.

The claim is situated and located in the Greenlee Cold Mountain Mining District in Graham County, in the Territory of Arizona, about one mile in a Southerly direction from the U.S.L.M. No.2

The Surface boundaries of the claim are marked upon the ground as follows:- Beginning at a post and monument of stones at a point in a South westerly direction 450 more or less feet from the discovery shaft (at which this notice is posted), being in the center of the South Westerly end line of said claim; thence N.58°15' W. 200 feet to a post and monument of stones, being the S.W. corner of said claim; thence N. 29°46' E. 1500 feet to a post & monument of stones being at the N.W. corner of said claim; thence S.58°13' E. 200 feet to a post & monument

of stones at the center of the North easterly end of said claim; thence same course 200 feet to a post & mon. of stones, being at the N.E. corner of said claim; thence S.29°46' W. 1500 feet to a post & monument of stones at the S.E. corner of said claim; thence N.58°13' W. 200 feet to the place of beginning.

All done under the provisions of Chapter Six, of Title XXXII, of the Revised Statutes of the United States, and of an Act of the General Assembly of arizona, entitled "An Act to Revise and Codify the Laws of the Territory of arizona," approved March 16th, 1901.

Dated and posted on the ground this 14th day of October 1902.

Witness:

Shannon Copper Co.

John G. Kirchen

By H.S. Anderson, Mgr.

Filed and recorded at request of H.S. Anderson, October 20th 1902 at 9 A.M


Thomas Smith, County Recorder.

By L. Stevenson, Deputy.

Territory of arizona)
 : ss
 County of Graham.)

I, Thomas Smith, County Recorder in and for the County and Territory aforesaid, do hereby certify that the foregoing is a full, true and complete copy of the amended mining location of the "Copper Chief" Mining Claim, as the same appears upon the Records of Graham County, filed and recorded at 9 o'clock A.M. October 20th, A.D. 1902 in Book 15 Records of Mines at page 194.

In Witness Whereof I have hereunto set my hand and affixed my official seal at my office in Solomonville, said County and Territory this 20th day of, October A.D. 1902.


 County Recorder, Graham County,
 Territory of Arizona,

A M E N D E D
NOTICE OF MINING LOCATION.
Lode Claim.

TO ALL WHOM IT MAY CONCERN:-

This mining claim, the name of which is the San Pedro Mining Claim, situate on lands belonging to the United States of America, and in which there are valuable mineral deposits, was entered upon and located for the purpose of exploration and purchase by the Shannon Copper Company, per H.S. Anderson, Manager a citizen of the United States the undersigned, on the 14th day of October 1902.

The length of this claim is fifteen hundred feet, and I claim four hundred and fifty more or less feet in a South westerly direction, and 1050 more or less feet in a North easterly direction from the center of the discovery shaft, at which this notice is posted, lengthwise of the claim, together with two hundred feet in width of the surface grounds, on each side of the center of said claim. The general course of the lode deposit and premises is from the South Westerly to the North Easterly.

The claim is situated and located in the Greenlee Gold Mountain Mining District, in Graham County, in the Territory of arizona, about one mile in a Southerly direction from U.S.L.M. No.2

The surface boundaries of the claim are marked upon the ground as follows: Beginning at a post and monument of stones at a point in a South Westerly direction 450 more or less feet from the discovery shaft (at which this notice is posted), being in the center of the South Westerly end line of said claim; thence N.58°13' W. 300 feet to a post and monument of stones, being the S.W. corner of said claim; thence N.29°46' E.1500 feet to a post and monument of stones being at the N.W. corner of said claim; thence S.58°13' E. 200 feet to a post & monument of stones at the center of the North easterly end of said claim; thence same course 200 feet to a post & mon of...

stones, being at the N.E. corner of said claim; thence S.29°46' W. 1500 feet to a post & monument of stones at the S.E. corner of said claim; thence N.58°13' W 200 feet to the place of beginning.

All done under the provisions of Chapter Six, of Title XXXII of the Revised Statutes of the United States, and of an Act of the General Assembly of arizona, entitled "An Act to Revise and Codify the Laws of the Territory of arizona", approved March 16th, 1901.

Dated and posted on the ground this 14th day of, October 1902

Witness:

Shannon Copper Co.

John G. Kirchen.

By H. A. Anderson, Mgr.

Filed and recorded at request of H. S. Anderson, October 20th, 1902 at 9.A.M.

Thomas Smith, County Recorder

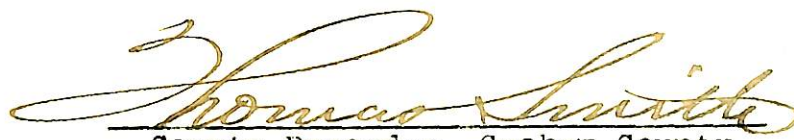
By L. Stevenson, Deputy.

Territory of Arizona)

County of Graham.) : SS

I, Thomas Smith, County Recorder, in and for the County and Territory aforesaid, do hereby certify, that the foregoing is a full, true and complete copy of the amended mining location of the "San Pedro" Mining Claim, as the same appears upon the Records of Graham County, filed and recorded at 9 o'clock A.M. October 20th, A.D. 1902 in Book 15 Records of Mines at page 195.

In Witness Whereof I have hereunto set my hand and affixed my official seal at my office in Solomonville, said County and Territory this 20th day of october A.D. 1902.


County Recorder, Graham County,
Territory of Arizona.

A M E N D E D
 NOTICE OF MINING LOCATION.
 Lode Claim.

TO ALL WHOM IT MAY CONCERN:-

This mining claim the name of which is the Black Diamond Mining Claim, situate on lands belonging to the United States of America, and in which there are valuable mineral deposits, was entered upon and located for the purpose of exploration and purchase by the Shannon Copper Company, per H.S. Anderson, Manager a citizen of the United States the undersigned, on the 14th day of October 1902.

The length of this claim is 1500 feet, and I claim six hundred more or less feet, in a North Westerly direction, and nine hundred more or less feet in a South easterly direction from the center of the discovery shaft, at which this notice is posted, lengthwise of the claim, together with seventy two and one half feet in width of the surface grounds on each side of the center of said claim. The general course of the lode deposit and premises is from the North Westerly to the South easterly.

The claim is situated and located in the Greenlee Gold Mountain Mining District, in Graham County, in the Territory of Arizona, about one and a quarter miles in a Southerly direction from U.S.L.M.No.2

The surface boundaries of the claim are marked upon the ground as follows: Beginning at a post and monument of stones at a point in a North Westerly direction 600 more or less feet from the discovery shaft (at which this notice is posted), being in the center of the North westerly end line of said claim; thence ^N 29°46' E 72 1/2 feet to a post and monument of stones, being the N.W. corner of said claim; thence S.58°13' E.1500 feet to a post and monument of stones being at the N.E. corner of said claim; thence S.29°46' W. 72 1/2 feet to a post and monument of stones at the center of the South Easterly end of said claim; thence same course 72 1/2 feet to a post & mon of stones,

being at the S.E. corner of said claim; thence N.58°13' W 1500 feet to a post and monument of stones at the S.W. corner of said claim; thence N. 29°46' E 72 1/2 feet to the place of beginning.

All done under the provisions of Chapter Six, of Title XXXII, of the Revised Statutes of the United States, and of an Act of the General Assembly of arizona, entitled "An Act to Revise and Codify the Laws of the Territory of arizona" approved March 16th, 1901.

Dated and posted on the ground this 14th day of October 1902.

Witness:

Shannon Copper Co.

John G. Kirchen.

By H.S. Anderson, Mgr.

Filed and recorded at request of H.S. Anderson October 20th, 1902 at 9 A.M

Thomas Smith, County Recorder.

By L. Stevenson, Deputy.


Territory of arizona)

: SS

County of Graham.)

I, Thomas Smith, County Recorder, in and for the County and Territory aforesaid, do hereby certify, that the foregoing is a full, true and complete copy of the amended mining location of the "Black Diamond" Mining Claim, as the same appears upon the Records of Graham County, filed and recorded at 9 o'clock A.M. October 20th, A.D. 1902 in Book 15 records of Mines at page 196.

In Witness Whereof I have hereunto set my hand and affixed my official seal at my office in Solomonville, said County and Territory this 20th day of October A.D. 1902.


County Recorder, Graham County,
Territory of Arizona.

4-687.

**SURVEYOR-GENERAL'S CERTIFICATE OF APPROVAL OF FIELD
NOTES AND SURVEY OF MINING CLAIM.**

Department of the Interior.

Office of U. S. Surveyor-General,

Phoenix Arizona

July 16, 1903.

I, U. S. Surveyor-General for

the District of Arizona

do hereby certify that the foregoing and hereto attached Field Notes and Return of the Survey of the

Mining Claim of *the Shannon Copper Co.*

....., known as the

Ida Bell, Jolly Linn, Copper Chief, San Pedro & Black Mountain
situate in *Greenlee Gold* mining district,

Graham County, *Arizona*

in Sections *3 & 10*, Township No. *4 S*, Range No. *27 E*

....., designated as Survey No. *1733*

executed by *L. D. Chilton*, U. S. Deputy Mineral

Surveyor, *Jan 8 - 13*, 1903., under my instructions dated

Dec 1, 1903., have been critically examined and the necessary cor-

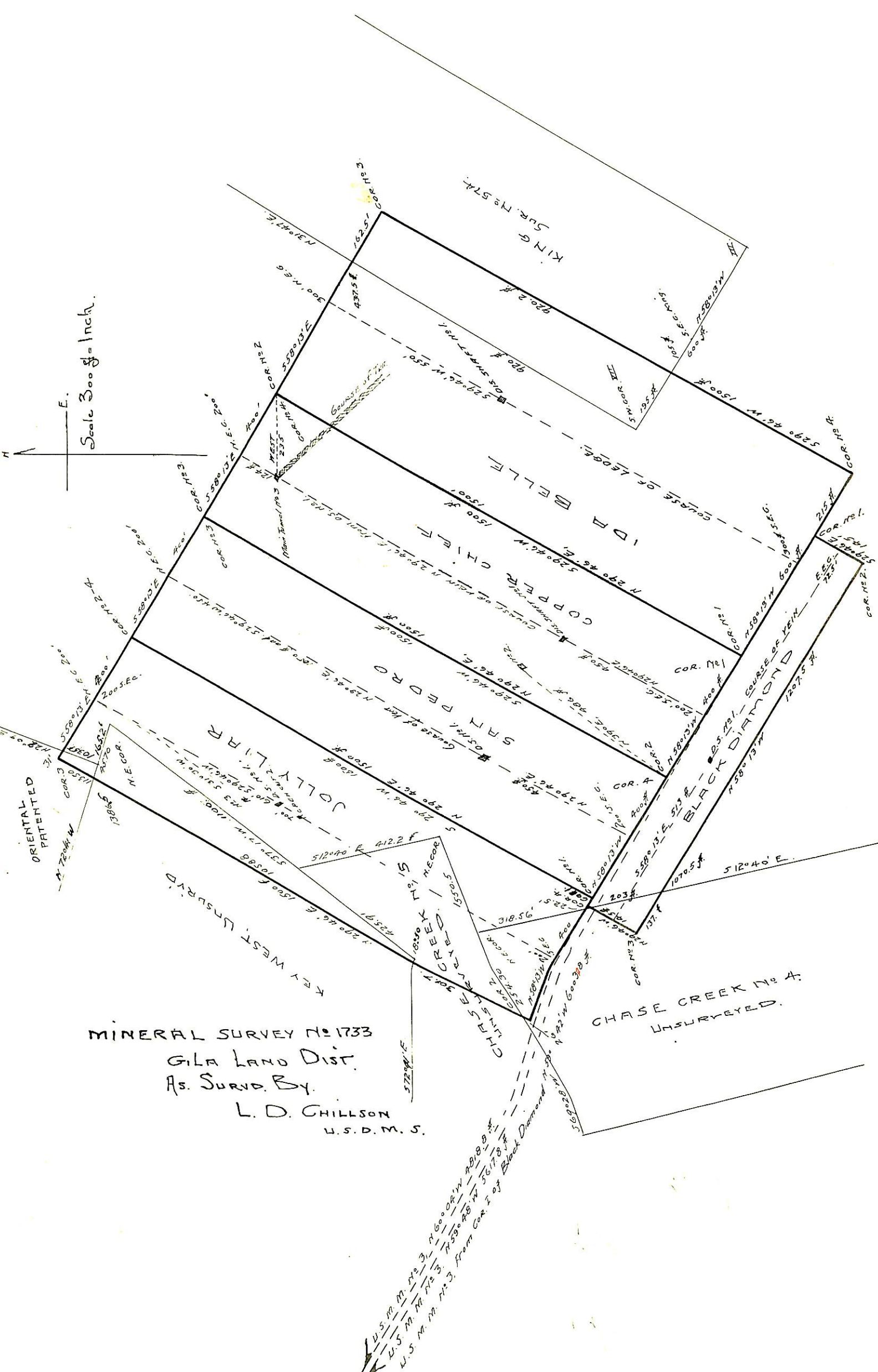
rections and explanations made, and the said Field Notes and Return, and the Survey they describe,

are hereby approved. A true copy of the copy of the location certificate filed by the applicant for

survey is included in the field notes.

Hugh Price

U. S. Surveyor-General for *Arizona*



MINERAL SURVEY No 1733
 GILA LAND DIST.
 As. SURV. BY
 L. D. CHILLSON
 U.S.D.M.S.

U.S. M. No. 1733 - N 60° 00' W - 201.88 ft
 U.S. M. No. 1733 - N 58° 48' W - 561.78 ft
 U.S. M. No. 1733 - From Cor. 1 of Black Diamond

ORIENTAL
 PATENTED