

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

MINERAL SURVEY NO. 4318

ARIZONA Land District.

FIELD NOTES

Of The Survey Of The Mining Claim Of

The Gross Mining & Investment Co., Inc.

Known As The
American Boy, Great American, Deep Down No. 2, Rhode Island,
Fraction, Albert Gross, Deep Down No. 1, New York and Lost Horse
~~Lode Mining Claims~~

WRIGHTSON Mining District,

Santa Cruz County, Arizona

Sections 8 and 9, Township 21 South, Range 15 East

Surveyed under instructions dated February 27, 1948

by Robert Lenon
U. S. Mineral Surveyor.

Claim located (See other side of page), 19

Survey commenced November 4, 1948

Survey completed November 18, 1948

Address of claimant 5808 London Road, Duluth 4, Minn.

DATES OF AMENDED LOCATIONS

(See other side of page)

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

MINERAL SURVEY NO. 1234

ARIZONA

FIELD NOTES

Of the Survey of the Mining Claims of

The Grand Mining & Investment Co., Inc.

Known as the

Name	Claim Located	Amended Location
American Boy	July 18, 1907	April 25, 1947
Great American	Sept. 7, 1905	"
Deep Down No. 2	April 1, 1915	"
Rhode Island	Oct. 9, 1906	"
Fraction	Jan. 1, 1912	"
Albert Gross	April 25, 1947	October 31, 1947
Deep Down No. 1	April 1, 1915	April 25, 1947
New York	Oct. 9, 1906	"
Lost Horse	July 20, 1905	"

DATES OF AMENDED LOCATIONS

Survey No. 4318

1.

Mineral Survey No. 4318 was made with a Bausch & Lomb Precise Transit No. 9259, with horizontal limb $5\frac{1}{2}$ inches in diameter, having two single opposite verniers, and full vertical circle $4\frac{1}{2}$ inches in diameter, 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 deflection angles referred to the meridian determined by the following observation:

November 13, 1948, at Cor. No. 3 of the Great American lode, in Latitude $31^{\circ} 37'$ N., and Longitude $110^{\circ} 49'$ 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 in inverted positions, observing opposite limbs of the sun, and reading the horizontal angles from a reference point about 2,000 feet southeastward, SW. to the sun.

Mean time of observations, 105th meridian standard time	= 2h 43m 30s p.m.
Declination of sun at mean time of observation	= $18^{\circ} 07' 30''$ S.
Mean observed vertical angles to sun's center	= $28^{\circ} 10'$ and $27^{\circ} 26\frac{1}{2}'$
Mean observed horizontal angles to sun's center, clockwise from the reference point	= $83^{\circ} 55'$ and $84^{\circ} 58\frac{1}{2}'$
True bearing to reference point	= S. $41^{\circ} 57'$ E.

The lines were measured with a Chicago steel tape 200 ft. in length, graduated every foot, with the end foot graduated to tenths and hundredths of feet, and a Lufkin steel tape 100 feet in length, graduated to feet, tenths and hundredths. Both tapes were compared with a Lufkin standard at the time of beginning the survey and found to be correct.

All lines and connections of this survey were run by direct methods where the lines are accessible; the inaccessible lines were run by traverse methods, as shown by the calculation sheets herewith submitted.

The magnetic variation observed at each corner of the survey gave a uniform value of $13^{\circ} 00'$ East.

AMERICAN BOY LODE

At Cor. No. 1 of the American Boy Lode, identical with Cor. No. 2 of the Great American lode of this survey.

Set a porphyry stone, 24x10x4 ins., 12 ins. in the ground, mkd. X-AB-1-GA-2-4318; from which

The $\frac{1}{4}$ sec. cor. on the W. bdy. of Sec. 9, T. 21 S., R. 15 E., G. & S.R.Mer., bears S. $40^{\circ} 59'$ E., 805.88 ft. dist.; an iron pipe with a brass cap, properly marked and firmly set in a large mound of stone.

A juniper, 9 ins. diam., bears S. $38^{\circ} 00'$ W., 17.8 ft. dist., mkd. AB-1-4318-X-BT.

Raise a mound of stone alongside cor.

Thence N. $7^{\circ} 05'$ W.

2.

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Feet	
300.0	Lode line; discovery point bears N. 82° 55' E., 1420 ft. dist.
600.0	Cor. No. 2.
	Set a granite stone, 26x14x6 ins., 12 ins. in the ground, mkd. X-AB-2-4318; from which
	A granite outcrop, 36x48 ins., 18 ins. above ground, bears S. 77° 00' E., 14.6 ft. dist., mkd. AB-2-4318-X-BR.
	Raise a mound of stone alongside cor.
	Thence N. 82° 55' E.
73	Gulch, 4 ft. wide, course S. 20° E.
710	Gulch, 4 ft. wide, course S. 25° E.
1500.0	Cor. No. 3, identical with cor. No. 2 of the Fraction lode of this survey.
	Set a granite stone, 22x8x6 ins., 12 ins. in the ground, mkd. X-AB-3-F-2-4318; from which
	A double-trunked oak, 14 and 12 ins. diam., bears S. 83° 00' E., 13.3 ft. dist., mkd. AB-3-4318-X-BT.
	Raise a mound of stone alongside cor.
	Thence S. 7° 05' E.
300.0	Lode line; discovery point bears S. 82° 55' W., 80 ft. dist.
600.0	Cor. No. 4, identical with corners Nos. 1, 2 and 3 respectively of the Fraction, Albert Gross and Great American lodes of this survey.
	Set a granite stone, 22x12x4 ins., 12 ins. in the ground, mkd. X-AB-4-F-1-GA-3-AG-2-4318; from which
	An oak, 8 ins. diam., bears N. 42° 00' W., 20.7 ft. dist., mkd. AB-4-4318-X-BT.
	Raise a mound of stone alongside cor.
	Thence S. 82° 55' W.
580	Gulch, 5 ft. wide, course S. 35° E.
1285	Gulch, 6 ft. wide, course S. 20° E.
1500.0	Cor. No. 1, and place of beginning.
GREAT AMERICAN LODE	
	At Cor. No. 1 of the Great American Lode,
	Set a porphyry stone, 26x12x10 ins., 12 ins. in the ground, mkd. X-GA-1-4318; from which
	The $\frac{1}{4}$ sec. cor. on the W. bdy. of Sec. 9, T. 21 S., R. 15 E., G. & S.R.Mer., bears S. 88° 22' E., 454.71 ft. dist., previously described.

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Feet	
	<p>A porphyry outcrop, 24x24 ins., 12 ins. above ground, bears S. 57° 00' W., 12.0 ft. dist., mkd. GA-1-4318-X-BR.</p> <p>Raise a mound of stone alongside cor.</p> <p>Thence N. 7° 05' W.</p>
300.0	Lode line; discovery point bears N. 82° 55' E., 1,410 ft. dist.
510.	Piper gulch, 4 ft. wide, course East.
562	Center of shaft, 6x6 ft., 6 ft. deep.
600.0	Cor. No. 2, identical with Cor. No. 1 of the American Boy lode of this survey.
	Thence N. 82° 55' E.
1500.0	Cor. No. 3, identical with Cors. Nos. 4, 1 and 2 respectively of the American Boy, Fraction and Albert Gross lodes of this survey.
	Thence S. 7° 05' E.
300.0	Lode line; discovery point bears S. 82° 55' W., 90 ft. dist.
380	Piper gulch, 10 ft. wide, course S. 45° E.
600.0	Cor. No. 4, identical with Cor. No. 1 Albert Gross lode and on line 1-2 Deep Down No. 2 lode, both of this survey.
	Set a granite stone 24x10x6 ins., 12 ins. in the ground, mkd. X-GA-4-AG-1-4318; from which
	A granite outcrop, 24x36 ins., 18 ins. above ground, bears S. 3° E., 0.7 ft. dist., mkd. GA-4-4318-X-BR.
	Raise a mound of stone alongside cor.
	Thence S. 82° 55' W.
1290.0	Cor. No. 1, Deep Down No. 2 lode of this survey.
1500.0	Cor. No. 1, and place of beginning.
DEEP DOWN NO. 2 LODE	
	At Cor. No. 1 of the Deep Down No. 2 lode, on line 4-1 of the Great American lode of this survey.
	Set a porphyry stone, 28x10x10 ins., 12 ins. in the ground, mkd. X-DD2-1-4318; from which
	The $\frac{1}{4}$ sec. cor. on the W. bdy. of Sec. 9, T. 21 S., R. 15 E., G. & S.R.Mer., bears S. 81° 02' E., 249.18 ft. dist., previously described.
	A porphyry outcrop, 36x48 ins., 18 ins. above ground, bears S. 45° 00' E., 23.7 ft. dist., mkd. DD2-1-4318-X-BR.
	Raise a mound of stone alongside cor.

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Feet	
	Thence N. 82° 55' E.
1290.0	Cor. No. 4, Great American lode, identical with Cor. No. 1 Albert Gross lode of this survey.
1475	Piper gulch, 12 ft. wide, course S. 30° E.
1500.0	Cor. No. 2.
	Set a porphyry stone, 24x12x4 ins., 12 ins. in the ground, mkd. X-DD2-2-4318; from which
	An oak, 18 ins. diam., bears S. 25° 00' E., 33.0 ft. dist., mkd. BT-X-4318.
	Raise a mound of stone alongside cor.
	Thence S. 7° 05' E.
28.58	Cor. No. 1, Deep Down No. 1 lode of this survey.
260	Piper gulch, 12 ft. wide, course S. 60° E.
290.0	Lode line; discovery point bears S. 82° 55' W., 10 ft. dist.
590.0	Cor. No. 3, identical with Cors. Nos. 4, 1 and 2 respectively of the Deep Down No. 1, New York and Rhode Island lodes of this survey.
	Set a porphyry stone, 24x12x3 ins., 12 ins. in the ground, mkd. X-DD2-3-DD1-4-RI-2-NY-1-4318; from which
	An oak, 18 ins. diam., bears S. 29° 00' E., 36.2 ft. dist., mkd. DD2-3-4318-X-BT.
	Raise a mound of stone alongside cor.
	Thence S. 82° 55' W.
380	Gulch, 3 ft. wide, course S. 15° E.
1500.0	Cor. No. 4, identical with Cor. No. 1 of the Rhode Island lode of this survey.
	Set a granite stone, 28x10x10 ins., 12 ins. in the ground, mkd. X-DD2-4-RI-1-4318; from which
	A granite outcrop, 24x24 ins., 12 ins. above ground, bears S. 9° 00' E., 7.2 ft. dist., mkd. DD2-4-4318-X-BR.
	Raise a mound of stone alongside cor.
	Thence N. 7° 05' W.
300.0	Lode line, discovery point bears N. 82° 55' E., 1490 ft. dist.
590.0	Cor. No. 1, and place of beginning.
RHODE ISLAND LODGE	
	At Cor. No. 1 of the Rhode Island lode, which is identical with Cor. No. 4 of the Deep Down No. 2 lode of this survey; from which

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Feet	
	<p>The $\frac{1}{4}$ sec. cor. on the W. bdy. of Sec. 9, T. 21 S., R. 15 E., G. & S.R.Mer. bears N. $17^{\circ} 36'$ E., 573.50 ft. dist., previously described.</p> <p>Thence N. $82^{\circ} 55'$ E.</p>
1500.0	<p>Cor. No. 2, identical with Cors. Nos. 3, 4 and 1 respectively of the Deep Down No. 2, Deep Down No. 1 and New York lodes of this survey.</p> <p>Thence S. $7^{\circ} 05'$ E.</p>
300.0	<p>Lode line; discovery point bears S. $82^{\circ} 55'$ W., 812 ft. dist.</p>
600.0	<p>Cor. No. 3, identical with Cor. No. 4 of the New York lode and on line 1-2 of the Lost Horse lode, both of this survey.</p> <p>Set a granite stone, 26x10x8 ins., 12 ins. in the ground, mkd. X-RI-3-NY-4-4318; from which</p> <p>An oak, 14 ins. diam., bears N. $21^{\circ} 00'$ W., 19.5 ft. dist., mkd. RI-3-4318-X-BT.</p> <p>Raise a mound of stone alongside cor.</p> <p>Thence S. $82^{\circ} 55'$ W.</p>
395	<p>Gulch, 4 ft. wide, course S. 20° W.</p>
448.71	<p>Intersect line 4-1, Lost Horse lode of this survey.</p>
1500.0	<p>Cor. No. 4.</p> <p>Set a granite stone, 22x10x6 ins., 12 ins. in the ground, mkd. X-RI-4-4318; from which</p> <p>An oak, 7 ins. diam., bears N. $72^{\circ} 00'$ W., 7.7 ft. dist., mkd. RI-4-4318-X-BT.</p> <p>Raise a mound of stone alongside cor.</p> <p>Thence N. $7^{\circ} 05'$ W.</p>
300.0	<p>Lode line, discovery point bears N. $82^{\circ} 55'$ E., 688 ft. dist.</p>
600.0	<p>Cor. No. 1, and place of beginning.</p>
<p>FRACTION LODE</p>	
	<p>At Cor. No. 1 of the Fraction lode which is identical with Cors. Nos. 2, 3 and 4 respectively of the Albert Gross, Great American and American Boy lodes of this survey; from which</p> <p>The $\frac{1}{4}$ sec. cor. on the W. bdy. of Sec. 9, T. 21 S., R. 15 E., G. & S.R.Mer. bears S. $50^{\circ} 26'$ W., 1245.41 ft. dist., previously described.</p> <p>Thence N. $7^{\circ} 05'$ W.</p>
300.0	<p>Lode line, discovery point bears S. $89^{\circ} 20'$ E., 1140 ft. dist.</p>
600.0	<p>Cor. No. 2, which is identical with Cor. No. 3 of the American Boy lode of this survey.</p>

	Thence S. 89° 20' E.
425	Gulch, 3 ft. wide, course S. 10° E.
1215	Gulch, 4 ft. wide, course south.
1500.0	Cor. No. 3.
	Set a granite stone, 28x10x8 ins., 12 ins. in the ground, mkd. X-F-3-4318; from which
	An oak, 14 ins. diam., bears S. 30° 30' E., 27.2 ft. dist., mkd. F-3-4318-X-BT.
	Raise a mound of stone alongside cor.
	Thence S. 7° 05' E.
300.0	Lode line; discovery point bears N. 89° 20' W., 360 ft. dist.
600.0	Cor. No. 4, identical with Cor. No. 3 of the Albert Gross lode of this survey.
	Set a granite stone, 24x10x6 ins., 12 ins. in the ground, stone-mound=alongside , mkd. X-F-4-AG-3-4318; from which
	A granite outcrop, 48x96 ins., 36 ins. above ground, bears S. 11° 00' E., 5.9 ft. dist., mkd. F-4-4318-X-BR.
	Raise a mound of stone alongside cor.
	Thence N. 89° 20' W.
100.	Wagon road, 12 ft. wide, bears N. 67° W. and S. 67° E.
230.	Gulch, 5 ft. wide, course S. 15° E.
280.	Wagon road, 12 ft. wide, bears North-South.
1085.	Gulch, 5 ft. wide, course S. 10° W.
1500.0	Cor. No. 1, and place of beginning.
ALBERT GROSS LODE	
	At Cor. No. 1 of the Albert Gross lode, which is identical with Cor. No. 4 of the Great American lode and on line 1-2 of the Deep Down No. 2 lode, both of this survey; from which
	The $\frac{1}{4}$ sec. cor. on the W. bdy. of Sec. 9, T. 21 S., R. 15 E., G. & S.R. Mer. bears S. 79° 10' W., 1052.78 ft. dist., previously described.
	Thence N. 7° 05' W.
300.0	Lode line, discovery point bears S. 89° 20' E., 483 ft. dist.
600.0	Cor. No. 2, identical with Cor. No. 4 of the American Boy lode, with Cor. No. 3 of the Great American lode, and with Cor. No. 1 of the Fraction lode, all of this survey.
	Thence S. 89° 20' E.
1500.0	Cor. No. 3, identical with Cor. No. 4 of the Fraction lode of this survey.

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Feet	
	Thence S. 7° 05' E.
255	Wagon road, 12 ft. wide, bears East-West.
300.0	Lode line; discovery point bears N. 89° 20' W., 1017 ft. dist.
545	Piper gulch, 15 ft. wide, course East.
600.0	Cor. No. 4, on line 1-2, Deep Down No. 1 lode of this survey.
	Set a granite stone, 26x10x8 ins.; 12 ins. in the ground, mkd. X-AG-4-4318; from which
	An oak, 10 ins. diam., bears N. 41° 00' E., 15.7 ft. dist., mkd. AG-4-4318-X-BT.
	Raise a mound of stone alongside cor.
	Thence N. 89° 20' W.
360	Piper gulch, 15 ft. wide, course N. 10° E.
830	Gulch, 6 ft. wide, course S. 55° E.
1288.06	Intersect line 2-3 Deep Down No. 2 lode at Cor. No. 1, Deep Down No. 1 lode, both of this survey.
1300	Piper gulch, 12 ft. wide, course S. 5° E.
1500.0	Cor. No. 1, and place of beginning.
	DEEP DOWN NO. 1 LODE
	At Cor. No. 1 of the Deep Down No. 1 lode, on line 4-1 of the Albert Gross lode and on line 2-3 of the Deep Down No. 2 lode, both of this survey.
	A granite outcrop, 36x48 ins., 30 ins. above ground, mkd. X-DD1-1-4318; from which
	An oak, 18 ins. diam., bears S. 82° 00' E., 10.6 ft. dist., mkd. BT-X-4318. This is the same bearing tree given for Cor. No. 2 of Deep Down No. 2 lode.
	The $\frac{1}{4}$ sec. cor. on the W. bdy. of Sec. 9, T. 21 S., R. 15 E., G. & S.R.Mer., bears S. 81° 05' W., 1261.19 ft. dist., previously described.
	Raise a mound of stone alongside cor.
	Thence S. 89° 20' E.
1288.06	Cor. No. 4, Albert Gross lode of this survey.
1500.0	Cor. No. 2.
	Set a diorite stone, 24x14x6 ins., 12 ins. in the ground, mkd. X-DDI-2-4318; from which
	A porphyry outcrop, 36x48 ins., 36 ins. above ground, bears S. 74° 00' W., 9.0 ft. dist., mkd. DDI-2-4318-X-BR.
	Raise a mound of stone alongside cor.
	Thence S. 7° 05' E.

Feet	
290.0	Lode line; discovery point bears N. 89° 20' W., 965 ft. dist.
561.42	Cor. No. 3, identical with Cor. No. 2 New York lode of this survey.
	Set a granite stone, 26x12x4 ins., 12 ins. in the ground, mkd. X-DDI-3-NY-2-4318; from which
	A granite outcrop, 18x24 ins., 12 ins. above ground, bears N. 71° 00' E., 7.9 ft. dist., mkd. DDI-3-4318-X-BR.
	Raise a mound of stone alongside cor.
	Thence N. 89° 20' W.
1500.0	Cor. No. 4, identical with Cor. No. 2, Rhode Island lode and Cor. No. 3, Deep Down No. 2 lode and Cor. No. 1 of the New York lode, all of this survey.
	Thence N. 7° 05' W.
271.42	Lode line; discovery point bears S. 89° 20' E., 535 ft. dist.
561.42	Cor. No. 1, and place of beginning.

NEW YORK LODE

	At Cor. No. 1 of the New York lode, which is identical with Cor. No. 2, Rhode Island lode, Cor. No. 3, Deep Down No. 2 lode and Cor. No. 4, Deep Down No. 1 lode, all of this survey; from which
	The $\frac{1}{4}$ sec. cor. on the W. bdy. of Sec. 9, T. 21 S., R. 15 E., G. & S.R.Mer., bears N. 74° 37' W., 1364.01 ft. dist., previously described.
	Thence S. 89° 20' E.
1500.0	Cor. No. 2, identical with Cor. No. 3, Deep Down No. 1 lode of this survey.
	Thence S. 7° 05' E.
300.0	Lode line; discovery point bears N. 89° 20' W., 1381 ft. dist.
600.0	Cor. No. 3.
	Set a granite stone, 24x10x8 ins., 12 ins. in the ground, mkd. X-NY-3-4318; from which
	An oak, 10 ins. diam., bears S. 33° 00' E., 3.2 ft. dist., mkd. NY-3-4318-X-BT.
	Raise a mound of stone alongside cor.
	Thence N. 89° 20' W.
449.0	Cor. No. 2, Lost Horse lode of this survey.
1500.0	Cor. No. 4, identical with Cor. No. 3, Rhode Island lode of this survey.
	Thence N. 7° 05' W.

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Feet	
300.0	Lode line, discovery point bears S. 89° 20' E., 119 ft. dist.
600.0	Cor. No. 1, and place of beginning.
LOST HORSE LODGE	
At Cor. No. 1 of the Lost Horse lode.	
Set a granite stone, 24x10x6 ins., 12 ins. in the ground, mkd. X-LH-1-4318; from which	
The $\frac{1}{4}$ sec. cor. on the W. bdy. of Sec. 9, T. 21 S., R. 15 E., G. & S.R. Mer., bears N. 44° 39' W., 1337.96 ft. dist., previously described.	
A granite outcrop, 18x24 ins., 18 ins. above ground, bears N. 66° 30' E., 9.5 ft. dist., mkd. LH-1-4318-X-BR.	
Raise a mound of stone alongside cor.	
Thence S. 89° 20' E.	
65	Gulch, 4 ft. wide, course S. 15° W.
449.0	Cor. No. 3, Rhode Island lode, identical with Cor. No. 4, New York lode, both of this survey.
1500.0	Cor. No. 2.
On a granite outcrop, 72x96 ins., 48 ins. above ground, mkd. X-LH-2-4318; from which	
An oak, 18 ins. diam., bears S. 26° 00' E., 20.2 ft. dist., mkd. LH-2-4318-X-BT.	
Raise a mound of stone alongside cor.	
Thence S. 3° 30' E.	
152.93	Cor. No. 2, Survey No. 2397, Sulphide lode.
259.82	Lode line; discovery point bears S. 89° 08' W., 97.6 ft. dist.
395	Wagon road, 8 ft. wide, bears N. 70° E. and S. 70° W.
430	Center of Mansfield Gulch, 10 ft. wide, permanent water, course S. 80° E.
559.82	Cor. No. 3, on line 1-2 Sur. No. 2397, Sulphide lode.
Set a granite stone, 24x8x8 ins., 12 ins. in the ground, mkd. X-LH-3-4318; from which	
Cor. No. 1, Sur. No. 2397, Sulphide lode, bears S. 3° 30' E., 176.81 ft. dist.	
A granite outcrop, 48x96 ins., 48 ins. above ground, bears N. 80° 00' E., 12.6 ft. dist., mkd. LH-3-4318-X-BR.	
Raise a mound of stone alongside cor.	
Thence S. 89° 08' W.	

Feet	
540	Wagon road, 8 ft. wide, bears S. 70° W. and N. 50° E.
760	Wagon road, 8 ft. wide, bears S. 80° E. and N. 80° W.
1420	Mansfield gulch, 30 ft. wide, (no water), course Easterly.
1497.61	Cor. No. 4. Set a diorite stone, 24x12x6 ins., 12 ins. in the ground, mkd. X-LH-4-4318; from which A porphyry boulder, 18x24 ins., 18 ins. above ground, bears N. 49° 00' E., 14.8 ft. dist., mkd. LH-4-4318-X-BR. Raise a mound of stone alongside cor. Thence N. 3° 30' W.
52	Wagon road, 8 ft. wide, bears East-West.
300.0	Lode line; discovery point bears N. 89° 08' E., 1400 ft. dist.
430	Gulch, 5 ft. wide, course S. 10° W.
539.34	Intersect line 3-4, Rhode Island lode of this survey.
600.0	Cor. No. 1, and place of beginning.

AREAS

	Acres
Total area, American Boy lode	20.661
Total area, Great American lode	20.661
Total area, Deep Down No. 2 lode	20.317
Area in conflict with: Albert Gross lode of this survey	0.069
Total area, Rhode Island lode	20.661
Area in conflict with: Lost Horse lode of this survey	0.312
Total area, Fraction lode	20.472
Total area, Albert Gross lode	20.472
Total area, Deep Down No. 1 lode	19.156
Total area, New York lode	20.472
Total area, Lost Horse lode	19.917

LOCATION

This survey is located in Secs. 8 and 9, T. 21 S., R. 15 E., Gila and Salt River Base and Meridian, Santa Cruz County, Arizona.

The survey of each of the lodes of this survey is identical with the respective locations or amended locations as marked on the ground.

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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:

AMERICAN BOY LODE

- No. 1 The discovery shaft of the American Boy lode, the center of which being the discovery point, is on the center line 80 ft. from the center of Line 3-4; 5 x 6 ft., 108 ft. deep, timbered.
Value, \$1,000.
- No. 2 A tunnel, 5 x 7 ft. in size, the portal of which bears N 74° 05' W, 131 ft. from Cor. No. 4, American Boy lode and runs N 5° 00' E, 90 ft., thence North, 49 ft., thence N 7° 00' W, 25 ft., thence N 12° 00' E, 60 ft. to caved ground; partly timbered.
Value, \$2,240.
- No. 3 An open cut, the face of which is on the center line of the American Boy lode, 10 ft. from the center of Line 3-4; 6 ft. wide, 8 ft. face; running N 7° W, 15 ft. to face.
Value, \$100.
- No. 4 An open cut, the face of which bears S 43° 55' W, 340 ft. from Cor. No. 3, American Boy lode; 6 ft. wide, 6 ft. face, running North, 12 ft. to face.
Value, \$100.
- No. 5 A shaft, the center of which bears S 63° 25' W, 662 ft. from Cor. No. 3, American Boy lode; 6 x 6 ft., 6 ft. deep.
Value, \$100.

GREAT AMERICAN LODE

- No. 1 The discovery cut of the Great American lode, the face of which being the discovery point, is on the center line 90 ft. from the center of line 3-4; 6 ft. wide, 8 ft. face, running S 83° W, 18 ft. to face.
Value, \$100.
- No. 2 A shaft, the center of which bears S 77° 40' W, 352 ft. from Cor. No. 3, Great American lode; 4 x 6 ft., 30 ft. deep.
Value, \$300.
- No. 3 A shaft, the center of which bears S 77° 40' W, 386 ft. from Cor. No. 3, Great American lode; 4 x 6 ft., 25 ft. deep.
Value, \$250.
- No. 4 A shaft, the center of which bears S 77° 25' W, 430 ft. from Cor. No. 3, Great American lode; 4 x 6 ft., 10 ft. deep.
Value, \$100.
- No. 5 A shaft, the center of which bears S 74° 20' E, 262 ft. from Cor. No. 2, Great American lode; 6 x 6 ft., 8 ft. deep.
Value, \$100.

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- No. 6 An open cut, the face of which bears S. 67° 00' E., 150 ft. from Cor. No. 2, Great American lode; 6 ft. wide, 7 ft. face, running N. 7° W., 16 ft. to face.
Value, \$150.
- No. 7 A shaft, the center of which bears S. 29° 00' E., 47 ft. from Cor. No. 2, Great American lode; 6x6 ft., 10 ft. deep.
Value, \$100.
- No. 8 A shaft, the center of which bears N. 80° 10' E., 404 ft. from Cor. No. 1, Deep Down No. 2 lode; 6x6 ft., 50 ft. deep.
Value, \$500.
- No. 9 A shaft, the center of which bears N. 81° 40' E., 406 ft. from Cor. No. 1, Deep Down No. 2 lode; 6x6 ft., 50 ft. deep. Connected with shaft No. 8 at a depth of 25 ft. with a crosscut, 6x7 ft., 15 ft. long.
Value of shaft and crosscut, \$650.
- No. 10 A shaft, the center of which bears N. 1° 00' E., 44 ft. from Cor. No. 1, Deep Down No. 2 lode; 6x6 ft., 35 ft. deep.
Value, \$350.
- An interest in a common improvement described as follows:
A shaft, the center of which is on line 1-2, Great American lode, 562 ft. from Cor. No. 1; 6x6 ft., 6 ft. deep.
Value of one-half interest, \$50.; other half credited to adjacent unsurveyed claim of common ownership.
DEEP DOWN NO. 2 LODE
- No. 1 The discovery cut of the Deep Down No. 2 lode, the face of which being the discovery point, is on the lode line 10 ft. from a point on line 2-3, 290.00 ft. from Cor. No. 2; 6 ft. wide, 8 ft. face, running S. 7° E., 15 ft. to face.
Value, \$100.
- No. 2 A tunnel, 5x7 ft. in size, the portal of which bears S. 7° 25' W., 237 ft. from Cor. No. 2, Deep Down No. 2 lode, and runs S. 34° 00' W., 56 ft., thence East, 35 ft., thence S. 88° 00' W., 31 ft., thence S. 80° 00' W., 44 ft. to face.
Value, \$1,700.
- No. 3 A tunnel, 5x7 ft. in size, the portal of which bears S. 18° 10' W., 180 ft. from Cor. No. 2, Deep Down No. 2 lode, and runs S. 85° 00' W., 33 ft., thence N. 77° 00' W., 29 ft., thence S. 88° 00' W., 100 ft. to caved ground.
Value, \$1,600.
- No. 4 A shaft, the center of which bears S. 13° 55' W., 173 ft. from Cor. No. 2, Deep Down No. 2 lode; 6x8 ft., 20 ft. deep.
Value, \$200.
- No. 5 An open cut, the face of which bears S. 54° 40' W., 466 ft. from Cor. No. 2, Deep Down No. 2 lode; 6 ft. wide, 6 ft. face, running East, 12 ft. to face.
Value, \$100.

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- No. 6 A shaft, the center of which bears S 70° 10' W, 545 ft. from Cor. No. 2, Deep Down No. 2 lode; 4 x 4 ft., 3 ft. deep.
Value, \$50.
- No. 7 A shaft, the center of which bears S 86° 05' E, 742 ft. from Cor. No. 1, Deep Down No. 2 lode; 6 x 6 ft., 4 ft. deep.
Value, \$75.
- No. 8 A shaft, the center of which bears S 88° 20' E, 726 ft. from Cor. No. 1, Deep Down No. 2 lode; 6 x 6 ft., 8 ft. deep.
Value, \$125.
- No. 9 A tunnel, 5 x 7 ft. in size, the portal of which bears S 73° 35' E, 596 ft. from Cor. No. 1, Deep Down No. 2 lode, and runs N 22° 00' W, 57 ft. to face.
Value, \$600.
- No. 10 A shaft, the center of which bears N 83° 40' E, 450 ft. from Cor. No. 1, Deep Down No. 2 lode; 6 x 6 ft., 6 ft. deep.
Value, \$100.
- No. 11 A shaft, the center of which bears S 88° 40' W, 272 ft. from Cor. No. 3, Deep Down No. 2 lode; 6 x 6 ft., 25 ft. deep.
Value, \$250.
- RHODE ISLAND LODGE
- No. 1 The discovery cut of the Rhode Island lode, the face of which being the discovery point, is on the center line 688 ft. from the center of line 4-1; 6 ft. wide, 8 ft. face, running N 7° W, 16 ft. to face.
Value, \$100.
- No. 2 A tunnel, 5 x 6 ft. in size, the portal of which bears S 81° 10' W, 346 ft. from Cor. No. 2, Deep Down No. 2 lode and runs N 47° 00' E, 22 ft. to face.
Value, \$225.
- No. 3 A shaft, the center of which bears S 79° 40' W, 355 ft. from Cor. No. 2, Deep Down No. 2 lode; 6 x 6 ft., 35 ft. deep, partly timbered.
Value, \$400.
- No. 4 A shaft, the center of which bears S 77° 25' W, 386 ft. from Cor. No. 2, Deep Down No. 2 lode; 6 x 6 ft., 15 ft. deep.
Value, \$150.
- No. 5 A shaft, the center of which bears S 73° 25' W, 441 ft. from Cor. No. 2, Deep Down No. 2 lode; 6 x 6 ft., 15 ft. deep.
Value, \$150.
- FRACTION LODGE
- No. 1 The discovery tunnel of the Fraction lode, the portal of which is the discovery point; 6 x 7 ft. in size, the portal being on the center line 360 ft. from the center of line 3-4, and runs N 80° 00' W, 25 ft. to face.
Value, \$250.
- No. 2 An open cut, the face of which bears N. 75° 20' W., 190 ft. from Cor. No. 4, Fraction lode; 4 ft. wide, 5 ft. face, running N. 20° E., 6 ft. to face.
Value, \$75.

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- No. 3 A tunnel, 5x7 ft. in size, the portal of which bears N. 28° 35' W., 322 ft. from Cor. No. 4, Fraction lode and runs S. 87° 00' W., 40 ft., thence N. 74° 00' W., 16 ft., thence S. 87° 00' W., 31 ft. to face.
Value, \$850.
- No. 4 A shaft, the center of which bears S. 59° 05' E., 685 ft. from Cor. No. 2, Fraction lode; 5x5 ft., 4 ft. deep.
Value, \$50.
- No. 5 An open cut, the face of which bears S. 57° 35' E., 613 ft. from Cor. No. 2, Fraction lode; 6 ft. wide, 8 ft. face, running N. 45° W., 14 ft. to face.
Value, \$100.

ALBERT GROSS LODE

- No. 1 The discovery cut of the Albert Gross lode, the face of which being the discovery point, is on the center line 483 ft. from the center of line 1-2; 6 ft. wide, 8 ft. face, running North, 12 ft. to face.
Value, \$100.
- No. 2 A vertical shaft, the center of which bears S. 39° 05' E., 268 ft. from Cor. No. 2, Albert Gross lode; 6x10 ft., 160 ft. deep.
Value, \$4,000.
- No. 3 An open cut, the face of which bears S. 70° 50' E., 805 ft. from Cor. No. 2, Albert Gross lode; 6 ft. wide, 5 ft. face, running N. 25° W., 15 ft. to face.
Value, \$100.
- No. 4 An open cut, the face of which bears S. 68° 20' E., 785 ft. from Cor. No. 2, Albert Gross lode; 6 ft. wide, 8 ft. face, running N. 5° W., 25 ft. to face.
Value, \$150.

DEEP DOWN NO. 1 LODE

- No. 1 The discovery shaft of the Deep Down No. 1 lode, the center of which being the discovery point, is on the lode line 535 ft. from a point on line 4-1, 271.42 ft. from Cor. No. 4; 6x6 ft., 12 ft. deep.
Value, \$150.
- No. 2 A tunnel, 5x6 ft. in size, the portal of which is on the lode line 545 ft. from a point on line 4-1, 271.42 ft. from Cor. No. 4; runs East, 36 ft. to face.
Value, \$350.
- No. 3 An open cut, the face of which bears N. 67° 15' E., 383 ft. from Cor. No. 4 of the Deep Down No. 1 lode; 6 ft. wide, 8 ft. face, running S. 5° W., 15 ft. to face.
Value, \$100.
- No. 4 An open cut, the face of which bears S. 85° 00' W., 140 ft. from Cor. No. 2 of the Deep Down No. 1 lode; 6 ft. wide, 8 ft. face, running South, 12 ft. to face.
Value, \$100.

NEW YORK LODE

- No. 1 The discovery shaft of the New York lode, the center of which being the discovery point, is on the center line, 119 ft. from the center of line 4-1; 4x6 ft., 8 ft. deep.
Value, \$100.

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- No. 2 A shaft, the center of which bears S. 80° 50' E., 432 ft. from Cor. No. 1 of the New York lode; 6x6 ft., 6 ft. deep.
Value, \$100.
- No. 3 An open cut, the face of which bears S. 80° 35' E., 290 ft. from Cor. No. 1 of the New York lode; 6 ft. wide, 3 ft. face, running N. 80° W., 15 ft. to face.
Value, \$50.
- No. 4 A shaft, the center of which bears S. 80° 00' E., 157 ft. from Cor. No. 1 of the New York lode; 6x6 ft., 6 ft. deep.
Value, \$100.

- No. 5 A shaft, the center of which bears N. 76° 10' E., 382 ft. from Cor. No. 4 of the New York lode; 6x6 ft., 6 ft. deep.
Value, \$100.
- No. 6 A shaft, the center of which bears N. 35° 10' E., 232 ft. from Cor. No. 4 of the New York lode; 5x6 ft., 12 ft. deep.
Value, \$150.

LOST HORSE LODE

- No. 1 The discovery tunnel of the Lost Horse lode, 5x7 ft. in size, the portal of which being the discovery point, is on the lode line, 97.6 ft. from a point on line 2-3, 259.82 ft. from Cor. No. 2, and runs N. 62° 00' W., 72 ft., thence N. 42° 00' W., 52 ft., thence N. 2° 00' W., 35 ft., thence N. 15° 00' W., 16 ft. to face.
Value, \$1,200.

An interest in common improvements described as follows:

A tunnel, 6x7 ft. in size, the portal of which bears N. 79° 40' E., 733 ft. from Cor. No. 4 of the Lost Horse lode; running N. 18° 05' W., 2,212 ft. to Point A, 2,335 ft. to Point B, and 2,840 ft. to breast.

At Point A, a drift, 5x7 ft. in size, runs S. 81° 00' E., 120 ft., thence S. 56° 00' E., 28 ft., thence S. 80° 00' E., 80 ft. to breast.

At Point A, a drift, 5x7 ft. in size, runs S. 82° 00' W., 58 ft., thence S. 76° 00' W., 32 ft., thence N. 85° 00' W., 49 ft., thence S. 70° 00' W., 35 ft., thence N. 80° 00' W., 40 ft., thence N. 61° 00' W., 108 ft. to breast.

At Point B, a drift, 5x7 ft. in size, runs N. 72° 00' E., 65 ft. to breast.

At Point B, a drift, 5x7 ft. in size, runs S. 72° 00' W., 25 ft. to breast.

Value of tunnel and drifts, \$69,600.

These improvements have been constructed for the development of the nine lodes of this survey, which are contiguous lode claims, owned in common, within the range of benefit of said tunnel and drifts.

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The surface of the ground rises rapidly to the north of the portal of the tunnel to an east-west ridge marked approximately by the north sidelines of the New York and Rhode Island lodes of this survey, to a height of from 300 to 400 ft. above the tunnel, falling to 200 ft. at Piper Gulch, and rising again rapidly to the north of Piper Gulch to over 600 ft. above the tunnel at the north sidelines of the northernmost claims.

This system of tunnels and drifts affords a practical method of developing the various lodes at depth; it produces a year-round flow of about 6 g.p.m. of potable water which flows from its portal on the Lost Horse lode.

Five hundred dollars or over has been expended in this improvement in such a manner as tends to the development of each lode of this survey subsequent to its location, and to the time since which common ownership and contiguity have prevailed. Therefore an undivided one-ninth interest in its value is hereby credited to each of the said lodes of this survey.

No portion of, or interest in, this improvement has been credited heretofore as patent expenditure to any lode claim.

OTHER IMPROVEMENTS

A frame cabin, the southeast corner of which bears N $66^{\circ} 00'$ W, 338 ft. from Cor. No. 3 of the Lost Horse lode; 20 x 24 ft. in size; the long sides bearing S $87^{\circ} 0'$ W.
Claimant herein.

A frame cabin, the southeast corner of which bears N $73^{\circ} 00'$ W, 435 ft. from Cor. No. 3 of the Lost Horse lode; 20 x 24 ft. in size; the long sides bearing S $70^{\circ} 0'$ W.
Claimant herein.

A frame mill-building, the southeast corner of which bears N $85^{\circ} 20'$ W, 618 ft. from Cor. No. 3 of the Lost Horse lode; 16 x 40 ft. in size; the long sides bearing East.
Claimant herein.

A frame warehouse and compressor-house, the southeast corner of which bears N $80^{\circ} 10'$ W, 659 ft. from Cor. No. 3 of the Lost Horse lode; 16 x 28 ft. in size; the long sides bearing east.
Claimant herein.

A wagon road, as shown on the plat herewith; twelve ft. in width, and 2,000 ft. in length across the Fraction and Albert Gross lodes.
Claimant herein.

OTHER CORNER DESCRIPTIONS

Sur. No. 2397, Sulphide lode: Cors. Nos. 1 and 2 are stones, firmly set and properly marked. Line 1-2 was found to be N $3^{\circ} 30'$ W, 583.70 ft. instead of N $3^{\circ} 30'$ W, 600.00 ft. as approved. From Cor. No. 1 the tie to U.S. Loc. Mon. No. 2397 was found to be S $16^{\circ} 03'$ W, 561.0 ft. instead of S $14^{\circ} 30'$ W, 559.38 ft. as approved.

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Sur. No. 2397, Black Cap lode: Cor. No. 2 is a stone, firmly set and properly marked. The line between it and Cor. No. 1 of the Sulphide lode, Sur. No. 2397, was found to be N.82° 04' E, 310.40 ft., instead of N.82° 00' E, 292.00 ft., as approved.

U.S. Location Monument No. 2397 is a very large stone mound with a wooden post in it. The post had been disturbed and was out of plumb, but was replaced as nearly as might be.

FIELD ASSISTANTS

Name	Capacity
Herbert McCutchan.....	Chainman
Edward Pierson.....	Chainman

Survey No. 4318

Surt. No. 2397, Black Gap ledge: Cor. No. 2 is a stone
 firmly set and properly marked. The line between
 and Cor. No. 1 of the Sprague ledge, Surt. No. 2397,
 was found to be N 82° 04' E, 210.40 ft., instead of
 N 82° 00' E, 232.00 ft., as approved.

U.S. Location Monument No. 2397 is a very large stone
 mound with a wooden post in it. The post had been
 situated and was out of plumb, but was replaced as
 nearly as might be.

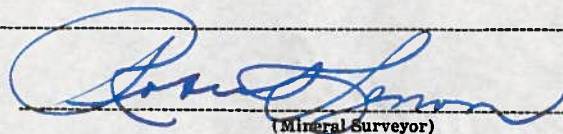
FIELD ASSISTANTS

Name	Capacity
Herbert Johnston.....	Chairman
Edward Peterson.....	Chairman

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

FINAL OATH OF MINERAL SURVEYOR

I, Robert Lenon, Mineral Surveyor,
do solemnly swear that, in pursuance of instructions received from the Office Cadastral
Engineer, at Phoenix, Arizona, dated February 27, 1948,
I have, in strict conformity to the laws of the United States, the official regulations
and instructions thereunder, and the instructions of said Office Cadastral Engineer,
faithfully and correctly executed the survey of the mining claim of The Gross
Mining and Investment Company, known as the
American Boy, Great American, Deep Down No. 2, Fraction, Albert Gross,
Deep Down No. 1, New York, and Lost Horse Lode Mining Claims
situate in WRIGHTSON Mining District,
Santa Cruz County, ARIZONA, in Section s
8 and 9, Township No. 21 South, Range No. 15 East
and designated as Survey No. 4318, 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 Office Cadastral Engineer
with said instructions, and that all 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 im-
provements 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.


(Mineral Surveyor)

Subscribed and sworn to by the said Robert Lenon
Mineral Surveyor, before me Hilda J. Blaban,
Notary Public this 18th
day of December, 1948

Hilda J. Blaban
Notary Public in & for the County
of Santa Cruz, State of Arizona

My Commission expires: -
U. S. GOVERNMENT PRINTING OFFICE 6-9476
Nov. 29-1950

CERTIFICATE OF APPROVAL OF FIELD NOTES AND SURVEY OF
MINING CLAIM

UNITED STATES
DEPARTMENT OF THE INTERIOR

~~GENERAL LAND OFFICE~~ Bureau of Land Management
PUBLIC SURVEY OFFICE

At Phoenix, Arizona

February 1, 1949

I, Office Cadastral Engineer at Phoenix, Arizona

do hereby certify that the foregoing and hereto attached Field Notes and Return of the Survey of the Mining Claim of The Gross Mining & Investment Co., Inc.

Known as the American Boy, Great American, Deep Down No. 2,

Rhode Island, Fraction. Albert Gross, Deep Down No. 1, ~~known as the~~

New York and Lost Horse Lode Mining Claim

situate in Wrightson mining district,

Santa Cruz County, Arizona

in Sections 8 and 9, Township No. 21 South, Range No. 15 East

G. & S.R.M., designated as Survey No. 4318

executed by Robert Lenon, Mineral

Surveyor, November 4 to November 18, 1948, under my instructions dated

February 27, 1948, have been critically examined and the necessary

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

are hereby approved. The certified copy of the location certificate filed by the applicant for survey is

on file in this office and a true copy of said certified copy of said location certificate is included and

made a part of the transcript of the field notes.

Frank W. Chapin
Office Cadastral Engineer.

