

Form 3400-11
(September 1967)
(formerly 4-683)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Mineral Survey number
4773

FIELD NOTES

State
Arizona
Land District
Arizona

Of the Survey of the Mining Claim of *(name and address of Claimant)*

Inspiration Consolidated Copper Co.,
c/o G. Henry Ladendorff, Attorney at Law
Suite 716 Arizona Bank Bldg.
Phoenix, Arizona 85003

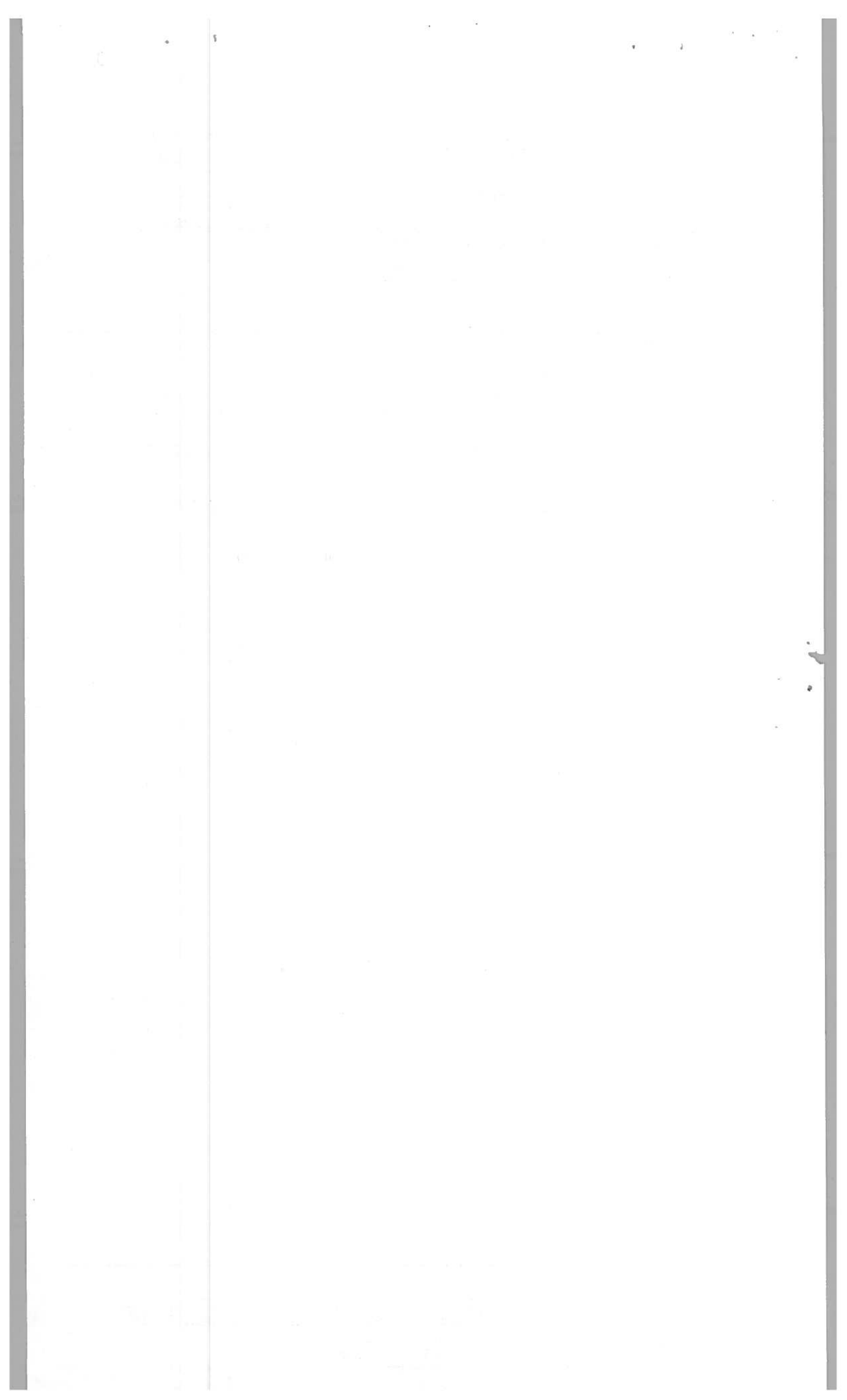
Known as the *(name of group, if any)*

HOOPEs PLACER NO. 2

CONSISTING OF LOCATIONS NAMED AND LOCATED AS FOLLOWS

NAME OF LOCATION	DATE	
	LOCATED	AMENDED
HOOPEs PLACER NO. 2	5/6/66	

Mining district Globe		County Gila		
Section 31	Township 2 North	Range 15 East	Meridian Gila and Salt River	Survey under order dated Dec. 7, 1973
Survey commenced Feb. 6, 1974		Survey completed March 23, 1974		Name of Mineral Surveyor Travis L. Gant



FEET

This survey was made with a Kern theodolite Model DKM-2AE Ser. No. 145997, having automatic vertical indexing and microscopic angle reading capabilities enabling the instrument man to read angles, either horizontal or vertical, to 1 sec. of arc. This instrument was used in conjunction with electronic distance-measuring equipment, i.e., a Hewlett-Packard Model 3800 Distance Meter, Ser. No. 0987 A 00472, having a range of 10,000 feet and an absolute accuracy of 0.01 feet plus the distance measured divided by 100,000 when operated in normal temperature ranges. Also available for use by the instrument man was a W. & L. E. Gurley transit, Ser. No. 57289, equipped with horizontal limb $6\frac{1}{2}$ ins. diam., having two double opposite verniers, and a full vertical circle 5 ins. diam., having one double vernier; the horizontal verniers read to 3 secs. of arc; the vertical vernier reads to one minute of arc. This instrument was used for short-distance taping and alignment procedures and for topographic detail where great distances were not involved.

All bearings in this record were determined by the method of deflection angles referred to the meridian determined by the following solar observation:

March 14, 1974, at the South $\frac{1}{4}$ sec. cor. sec. 31 only, T. 2 N., R. 15 E., G.&S.R.M., in latitude $33^{\circ} 27' 55''$ N., and longitude $110^{\circ} 52' 04''$ W., as determined by scaling from U.S.G.S. quadrangel GLOBE, dated 1945, elevation 3935 ft. above sea level, and temperature 60° F., make a series of six altitude observations on the sun for azimuth at approximately equal time intervals, three each with the theodolite telescope in direct and reversed positions, observing opposite limbs of the sun, and reading the horizontal angles from a reference point approximately 2500 feet easterly clockwise to the sun.

Mean time of observation, 105th
meridian, standard time = 9h 51^m a.m.

Declination of sun at mean
time of observation = $2^{\circ} 29' 19''$ S.

Mean observed vertical angle
to sun's center, corrected
for refraction and parallax = $37^{\circ} 38' 28''$

Mean horizontal angle from
reference point to sun's center
turned clockwise and to the
right to sun's center = $35^{\circ} 25' 27''$

True bearing to
reference point, being
the cor. of secs. 5 and
6, T. 1 N., R. 15 E. = N. $89^{\circ} 42' 47''$ E

FEET

Following the determination of the bearing of the line connecting the aforementioned S. $\frac{1}{4}$ sec. cor. of sec. 31, only, with the cor. of secs. 5 and 6, T. 1 N., R. 15 E., the bearings of the north-south quarter-section line of sec. 31 and the bearings of all other lines comprising the boundaries of HOOPE'S PLACER NO. 2 were derived from direct angular deflections measured with the Kern theodolite described above.

The lines were measured with either a Lufkin steel tape or with the aforementioned electronic distance meter. The tape was 500 feet in length, graduated every foot for 500 feet, with an added foot on the zero end, graduated in tenths and hundredths; the tape was compared with a standard 100.00 foot tape at the time of the beginning of the survey and found to be correct. The distance meter was compared with a taped course 1200.00 feet in length, measured as a base-line with a standard 100.00 foot tape, and was found to be precise and accurate.

All lines and connections of this survey were run by direct methods.

The magnetic declinations observed at each corner of the survey have a uniform value of 14° E.

Note concerning monumentation: Every corner of this survey was monumented with iron posts and brass caps. Each iron post consists of a $\frac{3}{4}$ -inch nominal inside diam. galvanized water pipe having a 1 ins. diam. exterior diam., each pipe was placed in the ground in a foundation consisting of not less than $\frac{1}{2}$ cu. ft. of high early-strength portland cement concrete, mixed at the site; the lower end of each pipe was deformed to preclude removal from its concrete base. A brass cap, having a disc surface 2 ins. diam and a stem $2\frac{1}{2}$ ins. in length, was securely cemented into the top of each pipe and was mkd. as described, using $\frac{1}{8}$ -in. steel dies for lettering and numbering. Alongside every corner monument so set I caused to have erected a rock monument having a base $2\frac{1}{2}$ ft. minimum diam. and a height not less than $2\frac{1}{2}$ ft.

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	MINERAL SURVEY NO. 4773
	HOOPES PLACER NO. 2
	<p>At Cor. No. 1 of the HOOPES PLACER NO. 2, being also the SE. 1/16 cor. of sec. 31, T. 2 N., R. 15 E., Gila and Salt River Meridian, established on the boundary of Hoopes Placer No. 1, Pat No. 1199450.</p> <p>Set an iron post, 2 ft. long, 1 ins. diam., 14 ins. in the ground, with brass cap mkd. HP 2-1-4773; from which</p> <p style="padding-left: 40px;">The cor. of secs. 5 and 6, T. 1 N., R. 15 E., G.&S.R.M., bears S. 45° 03' 25" E., 1800.39 ft. dist.; monumented with a limestone having a top surface approx. 6 x 4 ins. exposed above ground and mkd. with notches as described in the official 1923 survey record.</p> <p style="padding-left: 40px;">The North ¼ sec. cor. of sec. 6, T. 1 N., R. 15 E., bears S. 46° 36' 01" W., 1870.21 ft. dist.; monumented with an iron post, 1 ins. diam., 10 ins. above ground, firmly set, with brass cap mkd. as described in the official 1923 record.</p> <p style="text-align: center;">Thence N. 89° 54' W.</p>
183	Center of local drainage, 5 ft. wide, course S. 25° E.
535	Haul road, 16 ft. wide, gravel surface; centerline bears N. 30° W. and S. 30° E.
604	Haul road, 16 ft. wide, gravel surface; centerline bears N. 20° W. and S. 20° E.
878	Center of local drainage, 4 ft. wide, course N. 10° E.
1,006	Road, 10 ft. wide, dirt surface; centerline bears N. 15° W. and S. 15° E.
1,328.52	<p>Cor. No. 2, identical with the NW. cor. of Hoopes Placer No. 1, Pat No. 1199450; being also the C-S 1/16 cor. of sec. 31.</p> <p>Set an iron post, 2 ft. long, 1 ins. diam., 16 ins. in the ground, with brass cap mkd. HP 2-2-4773; from which</p>

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	<p>The S. $\frac{1}{4}$ sec. cor. of sec. 31, only, being also the SW. cor. of the northerly portion of Hoopes Placer No. 1, bears S. $0^{\circ} 28' E.$, 1287.14 ft. dist.; monumented with an iron post with brass cap as hereinafter described.</p> <p>Thence N. $0^{\circ} 28' W.$</p>	
653.78	<p>Cor. No. 3, being also the C-N-S $1/64$ sec. cor. of sec. 31.</p> <p>Set an iron post, 2 ft. long, 1 ins. diam., 15 ins. in the ground, with brass cap mkd. HP 2-3-4773.</p> <p>Thence N. $89^{\circ} 56' 42'' W.$</p>	
658.02	<p>Cor. No. 4, being also the NE-SW $1/64$ sec. cor. of sec. 31.</p> <p>Set an iron post, 2 ft. long, 1 ins. diam., 18 ins. in the ground, with brass cap mkd. HP 2-4-4773.</p> <p>Thence N. $0^{\circ} 18' 33'' W.$</p>	
653.89	<p>Cor. No. 5, being also the C-E-W $1/64$ sec. cor. of sec. 31.</p> <p>Set an iron post, 2 ft. long, 1 ins. diam., 14 ins. in the ground, with brass cap mkd. HP 2-5-4773.</p> <p>Thence N. $0^{\circ} 20' 33'' W.$</p>	
277	<p>Center of dry wash, 12 ft. wide, course N. $80^{\circ} E.$</p>	
651.90	<p>Cor. No. 6, being also the SE-NW $1/64$ sec. cor. of sec. 31.</p> <p>Set an iron post, 2 ft. long, 1 ins. diam., 12 ins. in the ground, with brass cap mkd. HP 2-6-4773.</p> <p>Thence S. $89^{\circ} 45' 40'' E.$</p>	
252	<p>Center of local drainage, 4 ft. wide, course S. $10^{\circ} E.$</p>	
654.84	<p>Cor. No. 7, being also the C-S-N $1/64$ sec. cor. of sec. 31.</p> <p>Set an iron post, 2 ft. long, 1 ins. diam., 15 ins. in the ground, with brass cap mkd. HP 2-7-4773.</p>	

MINERAL SURVEY NO. 4773

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FEET	
	Thence N. 89° 49' 54" E.
666.88	Cor. No. 8, being also the SW-NE 1/64 sec. cor. of sec. 31. Set an iron post, 2 ft. long, 1 ins. diam., 12 ins. in the ground, with brass cap mkd. HP 2-8-4773.
	Thence S. 0° 23' 25" E.
326.32	A point selected for witness Cor. No. 9. Set an iron post, 2 ft. long, 1 ins. diam., 12 ins. in the ground, with brass cap mkd. W.C.-HP 2-9-4773.
330	Edge of escarpment, rim bears NW. and SE.
520	Center of dry wash, 14 ft. wide, course S. 80° E.
625	Haul road, 16 ft. wide, centerline bears N. 75° W. and S. 75° E.
652.64	The true point for Cor. No. 9, being also the true point for the C-W-E 1/64 sec. cor. of sec. 31. This corner falls on unstable material between two converging haul roads where a permanent monument cannot be established.
	Thence S. 89° 56' 04" E.
50	Haul road, 16 ft. wide, centerline bears N. 75° W. and S. 75° E.
548	Center of dry wash, 15 ft. wide, course S. 70° E.
666.03	Cor. No. 10, being also the C-E 1/16 sec. cor. of sec. 31. Set an iron post, 1½ ft. long, 1 ins. diam., 11 ins. in the ground, with brass cap mkd. HP 2-10-4773.
	Thence S. 0° 18' 43" E.
34	Center of dry wash, 15 ft. wide, course N. 75° E.
1,308.33	Cor. No. 1, and place of beginning.

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MINERAL SURVEY NO. 4773

AREA

acres

HOOPE'S PLACER NO. 2

69.594

LOCATION

This survey is located in sec. 31, T. 2 N., R. 15 E., of the Gila and Salt River Meridian, Gila County, Arizona, and consists, by definition, of the monumenting of the exterior boundary of the following aliquot portions of said sec. 31: the NW¹/₄ SE¹/₄, the SW¹/₄ SW¹/₄ NE¹/₄, the SE¹/₄ SE¹/₄ NW¹/₄, and the NE¹/₄ NE¹/₄ SW¹/₄ sec. 31 as described in the placer mining claim location notice on file in Docket 190, Page 347, Gila County Records.

The survey of the HOOPE'S PLACER NO. 2 lies wholly within the boundaries of the placer location as defined by its original location corner posts, excepting Cor. No. 9 which could not be found.

EXPENDITURES

The improvements and the value of the labor and improvements made upon or for the benefit of this placer claim by the claimant are as follows:

No. 1 An open pit of irregular dimensions, as shown on plat.

Limestone removed to date = 283,000 Tons.

Value, \$636,750.

No. 2 A network of haul roads, as shown on plat, 6250 ft. total length.

Value, \$12,500.

FEET

OTHER CORNER DESCRIPTIONS AND SUPPLEMENTAL DATA

In order that boundaries of subject HOOPES PLACER NO. 2 be established in accordance with the aliquot parts of sec. 31 hereinbefore described, it became incumbent upon this mineral surveyor to subdivide the entire section into its quarters and to establish the corners of certain quarter-quarters. In order to do this, it was first necessary to find or restore all four corners and all four quarter-section corners of sec. 31. The quarter-section corners on the west, north, and east sides of sec. 31 were found to be firmly set, properly mkd. according to the official record, and in generally good condition. The south quarter-section cor. was restored by single-proportionate measurement along the northerly boundary of sec. 6, T. 1 N., R. 15 E., following the information given in the 1923 Resurvey of said northerly boundary, Page 6, Book 3690 Field Notes; the cor. of secs. 5 and 6 and the north quarter-section cor. of sec. 6, only, both hereinbefore described, were used as the basis for this single proportionate restoration. The south quarter-section corner of sec. 31, only, was then monumented with an iron post, 1½ ft. long, 2 ins. diam., set 10 ins. in the ground in a concrete foundation, with brass cap mkd. T. 2 N., R. 15 E. ¼ S 31 1974 in the manner shown in Section 4-36 of the 1973 Edition of the Manual of Surveying Instructions; in addition, the cap was stamped: LS 5703 to indicate this mineral surveyor's Arizona State Land Surveyor registration number as required by state law.

The SW. cor. of sec. 31, being also the SE. cor. of uns. sec. 36, T. 2 N., R. 14 E., is a scribed stone, mkd. as described in the aforementioned 1923 official survey record. The NE. cor., being the cor. of secs. 29, 30, 31, and 32, is likewise a scribed stone mkd. as described in the 1906 official survey record, Page 7, Book 2104 Field Notes. The SE. cor., being the closing corner of secs. 31 and 32, on the south line of the Tp., is presently mkd. by a 3 ins. diam. brass-capped pipe, found firmly set and mkd. S. 31 and S. 32 on the W. and E. sides, respectively, of an inverted "T"; the top of which is approximately 6 ins. below the surface of a gravelled equipment yard; this corner was re-monumented in 1958 by O.T. Smith, U.S. Mineral Surveyor and Arizona Registered Land Surveyor No. 2648 and was accepted herein as correct. The NW. corner, being the cor. of secs. 25, 30, 31, and 36, could not be found; the position for the

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restoration of this corner was calculated by single proportion along the range line, between T. 2 N., R. 14 E., and T. 2 N., R. 15 E., connecting the $\frac{1}{4}$ sec. cor. of secs. 31 and 36 with the $\frac{1}{4}$ sec. cor. of secs. 30 and 25, T. 2 N., R. 15 E., the latter corner being a stone with faint markings which I re-chiseled for increased clarity, also raising again the scattered mound of stone on the west side of the corner.

Other corners of note which were pertinent to the execution of this survey included (1) the closing corner at the cor. of secs. 6 and 1, T. 1 N., R. 15 E., and R. 14 E., which is monumented with an iron post, 12 ins. above ground, firmly set, with 3 ins. diam. brass cap mkd. as described in the official 1923 Resurvey of the west line of sec. 6, Page 7, Book 3690 Field Notes; (2) an angle-point in the township line between secs. 6 and 31 which, prior to the aforementioned 1923 Resurvey, was the original $\frac{1}{4}$ sec. cor. of secs. 6 and 31 but which now serves only as an angle-point in the line between these two sections, was found monumented with a cross (+) mkd. on the top of a stone in place 30 x 20 x 8 ins. above ground and also mkd. with the letters AP on the N. face of the stone; (3) the original cor. of secs. 5, 6, 31, and 32, which was altered in the aforementioned 1923 Resurvey to refer to secs. 5 and 6 only, was found to be firmly set and properly mkd., although its top was approximately 8 ins. below the surface of the gravelled equipment yard.

The boundary dimensions of subject sec. 31 were found to be as follows, beginning at the SW. cor. of the section: The line connecting the cor. of secs. 31 and 36 on the south line of the township with the $\frac{1}{4}$ sec. cor. of secs. 31 and 36 was found to be N. $0^{\circ} 03' 34''$ E., 2616.97 ft., instead of North, 2640.00 ft. as approved. The line connecting the $\frac{1}{4}$ sec. cor. of secs. 31 and 36 with the Cor. of secs. 25, 30, 31, and 36 was found to be N. $0^{\circ} 04' 19''$ W., 2631.51 ft., instead of North, 2640.00 ft. as approved. The line connecting the $\frac{1}{4}$ sec. cor. of secs. 30 and 31 with the cor. of secs. 25, 30, 31, and 36 was found to be N. $89^{\circ} 14' 29''$ W., 2638.45 ft., instead of N. $89^{\circ} 55'$ W., 2676.30 ft. as approved. The line connecting the cor. of secs. 29, 30, 31, and 32 with the $\frac{1}{4}$ sec. cor. of secs. 30 and 31 was found to be S. $89^{\circ} 08'$ W., 2678.00 ft., instead of N. $89^{\circ} 55'$ W., 2640.00 ft., as approved. The line connecting the cor. of secs. 29, 30, 31, and 32 with the $\frac{1}{4}$ sec. cor. of secs. 31 and 32

FEET

was found to be S. 0° 09' 52" E., 2643.17 ft., instead of S. 0° 03' E., 2640.00 ft., as approved. The line connecting the ¼ sec. cor. of secs. 31 and 32 with the closing cor. of secs. 31 and 32 on the south boundary of the Tp., was found to be S. 0° 09' 25" E., 2577.66 ft., instead of S. 0° 03' E., 2599.08 ft., as approved. The line connecting the aforementioned closing cor. of secs. 31 and 32 with the cor. of secs. 5 and 6 on the N. line of T. 1 N., R. 15 E., was found to be S. 89° 04' W., 57.66 ft., instead of S. 89° 39' W., 57.42 ft., as approved. The line connecting the cor. of secs. 5 and 6 with the ¼ sec. cor. of sec. 6 only, on the N. line of the Tp., was found to be S. 89° 42' 47" W., 2633.23 ft., instead of S. 89° 19' W., 2640.00 ft., as approved, and the point for the ¼ sec. cor. of sec. 31 only, on the S. line of the Tp., (monumented herein as described previously) was found to be at a distance of 2592.42 ft. along the Tp. line from the preceding sec. cor. instead of 2599.08 ft., as approved. The line connecting the N. ¼ sec. cor. of sec. 6 only, on the N. line of the Tp., with the previously described angle-point on the township line between secs. 6 and 31, was found to be S. 89° 20' 45" W., 25.79 ft., instead of S. 89° 19' W., 25.74 ft., as approved. The line connecting said angle-point with the closing cor. monument at the cor. of secs. 6 and 1 was found to be S. 89° 35' 38" W., 2172.60 ft., instead of S. 89° 12' W., 2174.04 ft., as approved. The line connecting the closing cor. at the NW. cor. of sec. 6, T. 1 N., R. 15 E., with the cor. of secs. 31 and 36 was found to be S. 89° 33' 21" W., 440.80 ft., instead of S. 89° 12' W., 442.20 ft., as approved.

FIELD ASSISTANTS

Name	Capacity
Norman W. Wisner	Instrumentman
Edward E. Zaragoza	Chainman

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Faint, illegible text describing data or measurements, possibly a survey report or technical document.

CERTIFICATE OF SURVEYOR

Name of Mineral Surveyor Travis L. Gant	Date February 27, 1975
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I HEREBY CERTIFY That in pursuance of an order received from the U.S. Bureau of Land Management, at Phoenix, Arizona, dated December 7, 1973, I have carefully executed the survey of the claim of Inspiration Consolidated Copper Company, known as the (lode, placer, or mill site) HOOPES PLACER NO. 2, situated in Sec. 31, T. 2 N., Range 15 East, Gila & Salt River Meridian, in the State of Arizona, Township 2 N.

This survey, designated as number 4773, has been executed by me and under my direction and has been made in strict conformity with said order, the Manual of Instructions for the Survey of Public Lands of the United States, and in specific manner described in the foregoing field notes.

I FURTHER CERTIFY That the labor expended and improvements made upon and for the benefit of the (lode or placer) placer location(s) embraced in the said mining claim by claimant(s) or its grantors are fully stated in my report. The character, extent, location, and itemized value are specified in full detail. 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.

Globe, Arizona

(Location)

Travis L. Gant

(Signature of Mineral Surveyor)

CERTIFICATE OF APPROVAL

Office Arizona State Office
Location Phoenix, Arizona
Date July 25, 1977

The foregoing field notes of mineral survey number 4773, in Section 31, Range 15 E., Gila & Salt River Meridian, in the State of Arizona, surveyed unsurveyed Township 2 N., executed by Travis L. Gant, Mineral Surveyor, under order dated December 7, 1973, 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.

Milton R. Workman

Milton R. Workman

(Authorized Signature)

Acting Chief, Br. of Cadastral Survey

(Title)

CERTIFICATE OF TRANSCRIPT

I HEREBY CERTIFY That the foregoing transcript of field notes of the above described mineral survey number is a true copy of the original field notes.

(Authorized Signature)

(Title)

Title 18, U.S.C. section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious, or fraudulent statements or representations as to any matter within its jurisdiction.

WILSON, R. WILSON