4—688

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

MINERAL SURVEY NO. 4543

ARIZONA
Land District.

FIELD NOTES

Of The Survey Of The Mining Claim Of

INSPIRATION CONSOLIDATED COPPER COMPANY

Known As The

RED BIRD, SQUAW PEAK and AGURITA LODES

Banner Mining District,

Gila County, Arizona

Section 30, Township 4 South, Range 16 East, G.& S.R.M.

Surveyed under order dated September 9, 1960

by OSCAR T. SMITH
Mineral Surveyor.

Claim located (See Reverse Side), 19

Survey commenced January 6, 1961

Survey completed February 10, 1961

Address of claimant Inspiration, Arizona

DATES OF AMENDED LOCATIONS

GPO 905664

Name of Location	Date of Location
Red Bird	12-24-02
Squaw Peak	12-24-02
Agurita	1-1-03

~~Chains~~

This survey was made with a Keuffel & Esser Co. Transit No. 131481 with horizontal limb 5 ins. diam., having two double opposite verniers, and full verticle circle 3-1/2 ins. diam., having one double vernier; the verniers read to one minute of arc; the eyepiece is equipped with a colored shade set in the dust shutter for making direct observations upon the sun. 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:

January 6, 1961, at cor. No. 1 of the Agurita lode in latitude 33° 03' 30" N., and longitude 110° 44' 53" W., I make a series of six altitude observations upon the sun for azimuth at approximately equal time intervals, three each with the telescope in direct and reversed positions, observing opposite limbs of the sun, and reading the horizontal angle from reference point 701.00 ft. southeastward clockwise to the sun.

Mean time of observation, 105th meridian standard time	= $2^h 53^m$ P. M.
Declination of sun at mean time of observation	= 22° 26' 23" S.
Mean observed vertical angle to sun's center	= 26° 06' 20"
Mean horizontal angle from reference point to sun's center	= 75° 11' 40" S.E.
True bearing to reference point	= S. 40° 50' 18" E.

The lines were measured with a Keuffel & Esser steel tape 500.00 ft. in length, graduated every foot for 500.00 ft., with the first and last foot graduated in tenths and hundredths; the tape was compared with a standard 100.00 ft. invar tape at the time of beginning the survey and found correct.

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

The magnetic declination observed at each corner of the survey gave a uniform value of 13° 40' E.

Feet

SURVEY NO. 4543

RED BIRD LODE

Beginning at cor. No. 1 of the Red Bird lode, identical to cor. No. 1 Sur. No. 2175 Farrel lode.

On line 1-2 Sur. No. 2175 South Star lode.

A granite stone 8x10 ins. 8 ins. above ground, with mound of stone, chiseled F-1-2175 on N. W. face, I add 1-RB-4543 on S. W. face; from which

Feet	
	The cor. of secs. 19, 20, 29 and 30, T. 4 S., R. 16 E., G. & S. R. M., bears N. 31° 44' 45" E. 2306.65 ft. dist.; an iron pipe 1 in. diam., 16 ins. above ground, firmly set, mkd. and witnessed as described in the official record.
	A granite rock in place 3x4x2 ft. above ground bears N. 83° W. 19.6 ft. dist. X BR-1F-2175-RB-1-4543.
	A granite rock in place 1½x2x1 ft. above ground bears N. 58° E. 15.2 ft. dist. mkd. X BR-1F-2175-RB-1-4543.
	Thence S. 40° 50' E.
191.00	Lode line; discovery point bears S. 79° 54' W. 1400.00 ft. dist.
382.00	Cor. No. 2, identical with cors. No. 1 Sur. Nos. 2175 and 1763 South Star and Christmas lodes and cor. No. 1 Squaw Peak lode of this survey, and on line 1-2 Sur. No. 2175 Cannon Ball lode.
	A granite stone 2½x2x1½ ft. above ground, mkd. 1-SS-2175 on N. face, 1-C-1763 on E. face, and I add 2-RB-1 SP-4543 on W. face.
	No local bearing objects or bearing trees available.
	Thence S. 79° 54' W.
1020.00	Transmission line bears N. 11° 20' E. and S. 11° 20' W.
1500.00	Cor. No. 3, identical with cor. No. 4 Squaw Peak lode of this survey.
	Set an iron pipe 3½ ft. long, 2 ins. diam., 2 ft. in the ground, with brass cap mkd. 3-RB-4-SP-4543.
	A granite rock in place 4x4½ ft., 2 ft. above ground, bears N. 84° 50' E. 6.35 ft. dist., mkd. B+R-3-RB-4-SP-4543.
	Thence N. 40° 50' W.
48.69	Intersect line 2-3 of the Agurita lode of this survey.
175.00	Telephone line bears N. 31° 50' E. and S. 31° 50' W.
191.00	Lode line; discovery point bears N. 79° 54' E. 100.00 ft. dist.
382.00	Cor. No. 4.
	Set an iron pipe 3½ ft. long, 2 ins. diam., 2 ft. in the ground, with brass cap mkd. 4-RB-4543.
	No local bearing objects or bearing trees available.
	Thence N. 79° 54' E.
218.76	Intersect cor. No. 5 Sur. No. 2175 Earrell lode and line 1-2 Agurita lode of this survey.

~~Chains~~ Feet	
268.00	Telephone line bears N. 31° 50' E. and S. 31° 50' W.
655.00	Road bears N. 39° W. and S. 39° E.
780.00	Road bears N. 6° E. and S. 6° W.
810.00	Transmission line bears N. 11° 20' E. and S. 11° 20' W.
1500.00	Cor. No. 1, and place of beginning.

SQUAW PEAK LODE

Beginning at cor. No. 1 of the Squaw Peak lode, identical with cor. No. 2 Red Bird lode of this survey, and cor. No. 1 Sur. No. 2175 South Star lode, and cor. No. 1 Sur. No. 1763 Christmas lode on line 1-2 Sur. 2175 Cannon Ball lode; from which

The cor. of secs. 19, 20, 29 and 30 bears N. 23° 11" 03" E. 2448.30 ft. dist., previously described.

Thence S. 12° 05' W.

323.00	Lode line; discovery point bears S. 79° 54' W. 1500.00 ft. dist.
515.62	Intersect cor. No. 2 Sur. No. 2175 Cannon Ball lode.
646.00	Cor. No. 2.

Set an iron pipe 3½ ft. long, 2 ins. diam., 2 ft. in the ground, with brass cap mkd. 2-SP-4543.

No local bearing objects or bearing trees available.

Thence S. 79° 54' W.

1010.00	Transmission line bears N. 11° 20' E. and S. 11° 20' W.
1500.00	Cor. No. 3.

A point on top of a granite rock in place 5x17 ins., 9 ins. above ground, mkd. X-1-SP-4543; from which

A granite rock in place, 2½x3 ft., 6 ft. above ground, bears N. 80° W. 8.70 ft. dist., mkd. B+R-3-SP-4543.

Thence N. 12° 05' E.

323.00	Lode line, and discovery point.
646.00	Cor. No. 4, identical with cor. No. 3 Red Bird lode of this survey.

Thence N. 79° 54' E.

480.00	Transmission line bears N. 11° 20' E. and S. 11° 20' W.
1500.00	Cor. No. 1, and place of beginning.

~~Chains~~ Feet	AGURITA LODE
	Beginning at cor. No. 1 of the Agurita lode, identical with cor. No. 4 Sur. No. 2175 Farrel lode, and on line 5-1 Sur. No. 2175 Red Dyke lode.
	A granite rock 10x10 ins., 8 ins. above ground, mkd. X-4-F-2175-1-A-4543; from which
	The cor. of secs. 19, 20, 29 and 30 bears N. 54° 47' 45" E., 3318.15 ft. previously described.
	Cor. No. 5 Sur. No. 2175 Red Dyke lode bears S. 79° 54' W. 325.00 ft. dist.
	No local bearing objects or bearing trees available.
	Thence S. 40° 50' E.
120.00	Road bears N. 67° E. and S. 67° W.
350.50	Lode line; discovery point bears S. 81° 19' W. 1300.00 ft. dist.
361.30	Intersect cor. No. 5 Sur. No. 2175 Farrel lode, and on line 4-1 Red Bird lode of this survey.
397.00	Telephone line bears N. 31° 50' E. and S. 31° 50' W.
701.00	Cor. No. 2.
	Set an iron pipe 3½ ft. long, 2 ins., diam., 2 ft. in the ground with a brass cap mkd. 2-A-4543.
	No local bearing objects or bearing trees available.
	Thence S. 81° 19' W.
222.11	Intersect line 3-4 Red Bird lode of this survey.
385.00	Telephone line bears N. 31° 50' E. and S. 31° 50' W.
1500.00	Cor. No. 3.
	Set an iron pipe 3½ ft. long, 2 ins. diam., 2 ft. in the ground with brass cap mkd. 3-A-4543; from which
	A granite rock in place, 4x4 ft., 2 ft. above ground bears N. 50° W. 5.90 ft. dist., mkd. B+R 3-A-4543.
	Thence N. 40° 50' W.
350.50	Lode line; discovery point bears N. 81° 19' E. 200.00 ft. dist.
701.00	Cor. No. 4, on line 4-1 Sur. No. 2175 Golconda lode.
	Set an iron pipe 3½ ft. long, 2 ins. diam., 2 ft. in the ground with brass cap mkd. 4-A-4543; from which
	Cor. Nos. 1 and 5 Sur. No. 2175 Golconda and Red Dyke lodes bears N. 81° 42' 30" E. 1175.13 ft. dist.

~~Chains~~ Feet	
	No local bearing objects or bearing trees available.
	Thence N. 81° 19' E.
1174.90	Intersect line 1-2 and 4-5 Sur. No. 2175 Golconda and Red Dyke lodes at a point from which cor. Nos. 1 and 5 bears S. 10° 06' E. 8.04 ft. dist.
1490.00	Road bears N. 31° W. and S. 31° E.
1500.00	Cor. No. 1, and place of beginning.

SURVEY NO. 4543

AREAS

	Acres
Total area, Red Bird lode	11.307
Total area, Squaw lode	20.599
Total area, Agurita lode	20.438
Area in conflict with-	
Sur. No. 2175 Red Dyke lode	0.030
Sur. No. 2175, Golconda lode	0.108
Red Bird lode of this survey	1.453

LOCATION

This survey is located in the S 1/2 of the NE 1/4 and N 1/2 of the SE 1/4 and NE 1/4 of the SW 1/4 and S 1/2 of the NW 1/4 of Sec. 30, T. 4 S., R. 16 E., G. & S. R. M. unsurveyed.

The survey of the Red Bird, Squaw Peak and Agurita lodes is identical with the respective location as mkd. on the ground.

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 claims by the claimant or its grantors is not less than $500., and that said improvements consist of:

No. 1	The discovery point of the Red Bird lode, being on the lode line 100.00 ft. from a point on line 3-4, 191.00 ft. from cor. No. 3. No Value
No. 2	A shaft, the center of which bears S. 24° 13' W. 98.00 ft. from cor. No. 1 Red Bird lode, 6x6 ft., 95 ft. deep. Value, $4445.
No. 3	A shaft, the center of which is on line 1-2, 89.00 ft. from cor. No. 1 Red Bird lode, 10x20 ft., 20 ft. deep. Value, $3000.
No. 1	The discovery point of the Squaw Peak lode, being on the lode line and on line 3-4, 323.00 ft. from cor. No. 3. No value.
No. 2	A shaft, the center of which bears S. 4° 35' W. 289.00 ft. from cor. No. 4 Squaw Peak lode, 4x8 ft., 6 ft. deep. Value, $144.

Chains	
No. 1	The discovery point of the Agurita lode, being on the lode line 200.00 ft. from a point on line 3-4, 350.50 ft. from cor. No. 3. No value.
No. 2	A cut 4 ft. wide, the face of which bears S. 50° 41' E. 342.00 ft. from cor. No. 4 Agurita lode, runs S. 50° E. 17 ft. to a 14 ft. face. Value, $238.
	An interest in common improvements described as follows:
	All diamond drill holes are drilled from tunnels under ground.
	A diamond drill hole, the center of which bears N. 10° 07' W. 465.63 ft. from cor. No. 1 Red Bird lode, drilled on a 45° incline, runs S. 11° W. 1250. ft. deep.
	A diamond drill hole, the center of which bears N. 71° 07' E. 642.88 ft. from cor. No. 3 Red Bird lode, drilled on a 62° incline, runs S. 298. ft. deep.
	A diamond drill hole, the center of which bears N. 70° 56' E. 643.24 ft. from cor. No. 3 Red Bird lode, 226. ft. deep.
	A diamond drill hole, the center of which bears N. 63° 10' E. 681.65 ft. from cor. No. 3 Red Bird lode, 253. ft. deep.
	A diamond drill hole, the center of which bears N. 56° 18' E. 732.00 ft. from cor. No. 3 Red Bird lode, 225. ft. deep.
	A diamond drill hole, the center of which bears N. 74° 07' E. 419.49 ft. from cor. No. 4 Red Bird lode, drilled on a 64° incline, runs S. 2° 45' E. 292. ft. deep.
	A diamond drill hole, the center of which bears N. 58° 19' E. 28.30 ft. from cor. No. 1 Agurita lode, drilled on a 60° incline, runs S. 3° 42' W. 284. ft. deep. Value of diamond drill holes, $16,724.50 Value of one-third interest $5,574.83
	These improvements are for the development of the Red Bird lode, Squaw Peak lode and Agurita lode of this survey, which are all the contiguous lode claims owned in common within the range of benefit of said drill holes. Five Hundred Dollars or over has been expended in these improvements 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-third interest in its value is hereby credited to each of said lodes. The original plan for development and extraction of ore is underground mining.

-Chains

The portion of the known ore body which is presently being developed is widely disseminated low-grade copper-bearing ore which lies below the surface of the ground and extends downward to a considerable depth; the lateral boundaries of the ore body have not been defined, and it is not necessary to prove its lateral extent by further diamond drilling, as an ore body of sufficient size and value has already been proved to warrant mining development leading to extraction of the ore.

Except as above stated, no portion of or interest in these improvements has been credited heretofore as patent expenditures to any lode claim.

OTHER IMPROVEMENTS

None.

OTHER CORNER DESCRIPTIONS AND SUPPLEMENTAL DATA

Sur. No. 2175 Farrel lode: Cors. 1, 2, 3, 4 and 5 are granite stones, firmly set and properly marked; Cors. 1 and 2 are on line 1-2 Sur. No. 2175 South Star lode, said line was found to be N. 40° 50' W. 701.00 ft. instead of N. 40° 48' W. 701.00 ft. as approved. Line 4-5 was found to be S. 40° 50' E. 361.30 ft. instead of S. 40° 48' E. 350.50 ft. as approved. Line 5-1 was found to be N. 79° 54' E. 1281.24 ft. instead of N. 80° 21' E. 1351.30 ft. as approved.

Sur. No. 2175 South Star lode: Cor. No. 1 is identical with cor. No. 1 Sur. No. 1763 Christmas lode, and on line 1-2 Sur. No. 2175 Cannon Ball lode; is a granite stone firmly set and properly marked; was found to be S. 40° 50' E. 382.00 ft. from cor. No. 1 Sur. No. 2175 Farrel lode instead of S. 40° 48' E. 392.70 ft. as approved.

Sur. No. 2175 Cannon Ball lode: Cors. Nos. 1 and 2 are granite stones firmly set and properly marked; line 1-2 was found to be S. 12° 05' W. 594.80 ft. instead of S. 12° 01' W. 600.00 ft. as approved.

Sur. No. 2175 Red Dyke lode: Cors. Nos. 1, 4 and 5 are granite stones firmly set and properly marked; line 4-5 was found to be S. 10° 06' E. 600.00 ft. instead of S. 9° 39' E. 600.00 ft. as approved. Line 5-1 was found to be N. 79° 54' E. 1427.50 ft. instead of N. 80° 21' E. 1442.30 ft. as approved.

Sur. No. 2175 Golconda lode: Cors. Nos. 1 and 2 are identical with cors. Nos. 4 and 5 Sur. No. 2175 Red Dyke lode. Cor. No. 4 is a granite stone firmly set and properly marked; line 4-1 was found to be N. 81° 42' 30" E. 1489.20 ft. instead of N. 80° 21' E. 1500.00 ft. as approved.

FIELD ASSISTANTS

Name	Capacity
Michael Erickson	Chainman

Chains

Form 4-686
(March 1950)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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CERTIFICATE OF SURVEYOR

Feb. 10, 1961

I, OSCAR T. SMITH,

Mineral Surveyor, hereby certify upon honor that in pursuance of an order received from the Department of the Interior, Bureau of Land Management, at Phoenix, Arizona

dated September 9, 1960, I have faithfully and correctly executed the survey of

the mining claim of Inspiration Consolidated Copper Company,

known as the RED BIRD, SQUAW PEAK and AGURITA LODES, (Lode, placer, or mill site)

situate in Banner Mining District, Gila County, Arizona, Sec. 30,

T. 4 South, R. 16 East, Gila & Salt River Meridian, Arizona (State), and

designated as Survey No. 4543, which is represented in the foregoing field notes as having been executed by me and under my direction, and that said survey has been made in strict conformity with said order, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes, and I do further certify that the labor expended and improvements made

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

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

Globe, Arizona (Place)

Oscar T. Smith (Mineral Surveyor)

CERTIFICATE OF APPROVAL

Bureau of Land Management, Survey Office (Office)

Phoenix, Arizona (Place) June 15 (Date), 1961

The foregoing field notes of mineral survey No. 4543, in Sec. 30

, T. 4 S., R. 16 E., G. & S. R. Meridian,

Arizona (State), executed by Oscar T. Smith, Mineral Surveyor,

under order dated September 9, 1960, 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.

Fred J. Weiler

Fred J. Weiler

State Director (Title)

CERTIFICATE OF TRANSCRIPT

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

_____

_____ (Title)

GPO 944397