

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Mineral Survey number
4685

State
Arizona

Land District
Arizona

FIELD NOTES

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

MAGMA COPPER COMPANY
c/o Twitty, Sievwright & Mills, Attorneys at Law
719 Title & Trust Building
Phoenix, Arizona 85003

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

CONSISTING OF LOCATIONS NAMED AND LOCATED AS FOLLOWS

NAME OF LOCATION	DATE	
	LOCATED	AMENDED
Kalamazoo 105	12/31/65	
Kalamazoo 106	"	
Kalamazoo 107	"	
Kalamazoo 108	"	
Kalamazoo 109	"	
Kalamazoo 110	"	
Kalamazoo 111	"	
Kalamazoo 112	"	
Kalamazoo 113	"	

Mining district Old Hat			County Pinal	
Section 10, 15 & 16	Township 9 South	Range 16 East	Meridian G&SR	Survey under order dated February 22, 1971
Survey commenced February 22, 1971		Survey completed March 15, 1971	Name of Mineral Surveyor Harvey W. Smith	

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FEET

This survey was made with a Wild double-center transit, Model T1A, No. 62550, having a horizontal circle of 3.1 ins. and a vertical circle of 2.8 ins. The optical micrometer reads direct to 20 seconds' accuracy and estimation to 5 seconds. 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 horizontal-angles-right referred to the meridian established by direct observation on the sun. At 10:38 a. m. on March 19, 1971, at Cor. No. 2 of the Kalamazoo 108 lode, latitude $32^{\circ} 39' 39.2''$ N., longitude $110^{\circ} 41' 36.9''$ W., turning from a reference point about 600 ft. westerly, clockwise to the sun in a southeasterly direction.

True bearing of reference point:
S. $89^{\circ} 46' 55''$ W.

The lines were measured with a Lufkin steel tape, 300 ft. in length, graduated every foot for 299 ft. and the remaining foot graduated to tenths and hundredths. One additional foot at the zero end is also graduated in tenths and hundredths. The tape was compared to a standard and found to be 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 $13^{\circ} 45'$ East.

SURVEY NO. 4685

Kalamazoo 105 LODE

At Cor. No. 1 Kalamazoo 105 lode, identical with Cor. No. 1 Kalamazoo 106 lode, Cor. No. 1 Kalamazoo 110 lode and Cor. No. 1 Kalamazoo 111 lode, all of this survey.

Set an iron post, $3/4$ ins. diam., 24 ins. long, in a 25 pound concrete and rock base, 12 ins. in the ground, with a brass cap, 2 ins. diam., securely fastened to the iron post, mkd. M.S. 4685 K. 105 1 K. 106 1 K. 110 1 K. 111 1X; from which

FEET		
	<p>The 1/4 sec. cor. of secs. 10 and 15, T. 9 S., R. 16 E., G&SRM, bears N. 71° 18' 10" E., 1,587.79 ft. dist.; an iron post, 1 in. diam., 12 ins. above ground, firmly set, marked and witnessed as described in the official record.</p> <p>A wood post, 2 x 2 ins. x 4 ft. long, sets in a mound of stones adjacent to the iron post.</p> <p>Thence S. 89° 46' 55" W.</p>	
297.36	Lode line; discovery pt. bears N. 0° 11' 46" W., 1438.42 ft. dist.	
360.0	Right bank of dry wash, 35 ft. wide, course, N. 50° E.	
595.01	<p>Cor. No. 2, identical with Cor. No. 1 Kalamazoo 109 lode, Cor. No. 4 Kalamazoo 110 lode, both of this survey, and Cor. No. 2 Sur. No. 4653 Kalamazoo 104 lode.</p> <p>Fd. an iron post, 1 1/4 ins. diam., 9 ins. above ground, with a lead cap, firmly set, mkd. and witnessed as described in the official record, to which I add mks. M.S. 4685 K. 105 2 K. 109 1 K. 110 4; from which</p> <p>The 1/4 sec. cor. of secs. 10 and 15 bears N. 76° 18' 40" E., 2,160.38 ft. dist.; previously described.</p> <p>A wood post, 2 x 2 ins. x 4 ft. long, in a mound of stones, sets adjacent to the iron post.</p> <p>Thence N. 0° 11' 46" W.</p>	
1488.42	<p>Cor. No. 3, identical with Cor. No. 3 Sur. No. 4653 Kalamazoo 104 lode, Cor. No. 3 Sur. No. 4653 Kalamazoo 90 lode and Cor. No. 3 Sur. No. 4653 Kalamazoo 91 lode.</p> <p>Fd. an iron post 1 1/4 ins. diam., 9 ins. above ground, with a lead cap, firmly set, mkd. and witnessed as described in the official record, to which I add mks. M.S. 4685 K. 1053; from which</p> <p>A wood post, 2 x 2 ins. x 4 ft. long, in a mound of stones, sets adjacent to the iron post.</p> <p>Thence N. 89° 46' 55" E.</p>	

FEET	
297.65	Lode line; discovery pt. bears S. 0° 11' 46" E., 50.0 ft. dist.
595.01	Cor. No. 4, identical with Cor. No. 2 Kalamazoo 106 lode of this survey, Cor. No. 4 Sur. No. 4653 Kalamazoo 91 lode and Cor. No. 4 Sur. No. 4653 Kalamazoo 92 lode. Fd. an iron post, 1 1/4 ins. diam., 9 ins. above ground, with a lead cap, firmly set, mkd. and witnessed as described in the official record to which I add mks. M. S. 4685 K. 105 4 K. 106 2; from which A wood post, 2 x 2 ins. x 4 ft. long, in a mound of stones, sets adjacent to the iron post. Thence S. 0° 11' 46" E.
1035.	Left bank dry wash, 35 ft. wide, course N. 30° E.
1488.42	Cor. No. 1, and place of beginning.
Kalamazoo 106 LODE	
	Beginning at Cor. No. 1 Kalamazoo 106 lode, identical with Cor. No. 1, Kalamazoo 105 lode, Cor. No. 1, Kalamazoo 110 lode and Cor. No. 1, Kalamazoo 111 lode, all of this survey. Thence N. 0° 11' 46" W.
383.83	Right bank dry wash; 35 ft. wide, course N. 30° E.
1488.42	Cor. No. 2, identical with Cor. No. 4, Kalamazoo 105 lode of this survey, Cor. No. 4 Sur. No. 4653 Kalamazoo 91 lode and Cor. No. 4 Sur. No. 4653 Kalamazoo 92 lode. Thence N. 89° 46' 55" E.
297.91	Lode line; discovery pt. bears S. 0° 11' 46" E., 50.0 ft. dist.
365.	Left bank dry wash; 35 ft. wide, course N. 30° E.
595.31	Cor. No. 3 identical with Cor. No. 3 Kalamazoo 107 lode of this survey, Cor. No. 3 Sur. No. 4653 Kalamazoo 92 lode and Cor. No. 3 Sur. No. 4653 Kalamazoo 93 lode.

FEET	
	<p>Fd. an iron post, 1 1/4 ins. diam., 9 ins. above ground, with a lead cap, firmly set, mkd. and witnessed as described in the official record to which I add mks. M.S. 4685 K. 106 3 K. 107 3; from which</p> <p>A wood post, 2 x 2 ins. x 4 ft. long, in a mound of stones, sets adjacent to the iron post.</p> <p>Thence S. 0° 11' 46" E.</p>
1488.42	<p>Cor. No. 4, identical with Cor. No. 2 Kalamazoo 107 lode, Cor. No. 2 Kalamazoo 111 lode and Cor. No. 4 Kalamazoo 112 lode, all of this survey.</p> <p>Set an iron post, 3/4 in. diam., 24 ins. long, in a 25 pound concrete and rock base, 12 ins. in the ground, with a brass cap, 2 ins. diam., firmly secured to the iron post, mks. M.S. 4685 K. 106 4 K. 107 2 K. 111 2 K. 112 4X; from which</p> <p>A wood post, 2 x 2 ins. x 4 ft. long, in a mound of stones, sets adjacent to the iron post.</p> <p>Thence S. 89° 46' 55" W.</p>
297.40	<p>Lode line; discovery pt. bears N. 0° 11' 46" W. 1,438.42 ft. dist.</p>
595.31	<p>Cor. No. 1, and place of beginning.</p>
<p>Kalamazoo 107 LODGE</p>	
<p>At Cor. No. 1 Kalamazoo 107 lode, identical with Cor. No. 1 Kalamazoo 108 lode, Cor. No. 1 Kalamazoo 112 lode and Cor. No. 1 Kalamazoo 113 lode, all of this survey.</p> <p>Set an iron post, 3/4 in. diam., 24 ins. long, in a 25 pound concrete and rock base, 12 ins. in the ground, with a brass cap, 2 ins. diam., firmly secured to the iron post, mkd. M.S. 4685 K. 107 1 K. 108 1 K. 112 1 K. 113 1X; from which</p> <p>The 1/4 cor. of secs. 10 and 15 bears N. 31° 31' 50" E., 591.82 ft. dist.; previously described.</p> <p>A wood post, 2 x 2 ins. x 4 ft. long, in a mound of stones, sets adjacent to the iron post.</p>	

FEET		
	Thence S. 89° 46' 55" W.	
209.56	Center line State Highway 77; bears N. 51° E. and S. 47° W.	
299.21	Lode line; discovery pt. bears N. 0° 11' 46" W., 1,438.42 ft. dist.	
584.21	Power line bears N. 56° 30' E. and S. 56° 30' W.	
599.21	Cor. No. 2, identical with Cor. No. 4 Kalamazoo 106 lode, Cor. No. 2 Kalamazoo 111 lode and Cor. No. 4 Kalamazoo 112 lode, all of this survey.	
	Thence N. 0° 11' 46" W.	
1488.42	Cor. No. 3, identical with Cor. No. 3 Kalamazoo 106 lode of this survey, Cor. No. 3 Sur. No. 4653 Kalamazoo 92 lode and Cor. No. 3 Sur. No. 4653 Kalamazoo 93 lode.	
	Thence N. 89° 46' 55" E.	
233.	High pressure natural gas pipeline bears S. 23° 30' E. and N. 23° 30' W.	
300.0	Lode line; discovery pt. bears S. 0° 11' 46" E., 50.0 ft. dist.	
599.21	Cor. No. 4, identical with Cor. No. 2 Kalamazoo 108 lode of this survey, Cor. No. 4 Sur. No. 4653 Kalamazoo 93 lode and Cor. No. 4 Sur. No. 4653 Kalamazoo 94 lode.	
	Fd. an iron post 1 1/4 ins. diam., 9 ins. above ground, firmly set, mkd. and witnessed as described in the official record to which I add mks. M.S. 4685 K. 107 4 K. 108 2; from which	
	A wood post, 2 x 2 ins. x 4 ft. long, in a mound of stones, sets adjacent to the iron post.	
	Thence S. 0° 11' 46" E.	
805.	High pressure natural gas pipeline bears S. 30° E. and N. 30° W.	
1102.	Power line bears N. 56° 30' E. and S. 56° 30' W.	
1315.	Center line State Highway 77 bears N. 52° E. and S. 50° W.	

FEET	
1488.42	Cor. No. 1; and place of beginning.
Kalamazoo 108 LODE	
Beginning at Cor. No. 1 Kalamazoo 108 lode, identical with Cor. No. 1 Kalamazoo 107 lode, Cor. No. 1 Kalamazoo 112 lode and Cor. No. 1 Kalamazoo 113 lode, all of this survey.	
Thence N. 0° 11' 46" W.	
173.42	Center line State Highway 77 bears N. 52° E. and S. 50° W.
386.42	Power line bears N. 56° 30' E. and S. 56° 30' W.
683.42	High pressure natural gas pipeline bears N. 30° W. and S. 30° E.
1488.42	Cor. No. 2, identical with Cor. No. 4 Kalamazoo 107 lode of this survey, Cor. No. 4 Sur. No. 4653 Kalamazoo 93 lode and Cor. No. 4 Sur. No. 4653 Kalamazoo 94 lode.
Thence N. 89° 48' 40" E.	
298.09	Lode line; discovery pt. bears S. 0° 11' 46" E., 50.0 ft. dist.
315.03	Intersect the north-south center line of sec. 10 at a point from which the 1/4 cor. of secs. 10 and 15 bears S. 0° 00' 20" E., 985.03 ft. dist.; previously described.
596.09	Cor. No. 3, identical with Cor. No. 3 Sur. No. 4653 Kalamazoo 94 lode.
Fd. an iron post, 1 1/4 ins. diam., 9 ins. above ground, with a lead cap, firmly set, mkd. and witnessed as described in the official record to which I add mks. M.S. 4685 K. 108 3; from which	
A wood post, 2 x 2 ins. x 4 ft. long, in a mound of stones, sets adjacent to the iron post.	
Thence S. 0° 11' 46" E.	
702.13	Power line bears N. 56° 30' E. and S. 56° 30' W.

FEET	
985.78	Intersect the line bet. secs. 10 and 15 at a point from which the 1/4 cor. of secs. 10 and 15 bears S. 89° 58' W., 284.87 ft. dist.; previously described.
991.45	Center line State Highway 77 bears N. 75° E. and S. 73° W.
1488.42	Cor. No. 4, identical with Cor. No. 2 Kalamazoo 113 lode of this survey. Set an iron post, 3/4 in. diam., 24 ins. long, in a 25 pound concrete and rock base, 12 ins. in the ground, with a brass cap, 2 ins. diam., firmly secured to the iron post, mkd. M.S. 4685 K. 108 4 K. 113 2X; from which A wood post, 2 x 2 ins. x 4 ft. long, in a mound of stones, sets adjacent to the iron post. Thence S. 89° 48' 40" W.
235.	High pressure natural gas pipeline bears N. 21° W. and S. 21° E.
286.95	Intersect the north-south center line of sec. 15 at a point from which the 1/4 cor. of secs. 10 and 15 bears N. 0° 02' 25" E., 503.43 ft. dist.; previously described.
298.00	Lode line; discovery pt. bears N. 0° 11' 46" W., 1,438.42 ft. dist.
596.09	Cor. No. 1, and place of beginning.
Kalamazoo 109 LODE	
Beginning at Cor. No. 1, Kalamazoo 109 lode, identical with Cor. No. 2 Kalamazoo 105 lode, Cor. No. 4 Kalamazoo 110 lode, all of this survey and Cor. No. 2 Sur. No. 4653 Kalamazoo 104 lode. Thence S. 0° 11' 46" E.	
100.	Left bank dry wash; 35 ft. wide, course N. 72° E.
806.97	Power line bears N. 56° 30' E. and S. 56° 30' W.
1490.88	Cor. No. 2, identical with Cor. No. 3 Kalamazoo 110 lode of this survey.

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FEET		
	<p>Set an iron post, 3/4 in. diam., 24 ins. long, in a 25 pound concrete and rock base, 12 ins. in the ground, with a brass cap, 2 ins. diam., firmly secured to the iron post, mkd. M. S. 4685 K. 109 2 K. 110 3X; from which</p> <p>The 1/4 cor. of secs. 15 and 16, T. 9 S., R. 16 E., G&SRM, bears S. 41° 02' 14" W., 837.69 ft. dist.; an iron post, 1 in. diam., 16 ins. above ground, firmly set, mkd. and witnessed as described in the official record.</p> <p>A wood post, 2 x 2 ins. x 4 ft. long, in a mound of stones, sets adjacent to the iron post.</p> <p>Thence S. 89° 45' 14" W.</p>	
297.98	Lode line; discovery pt. bears N. 0° 11' 46" W., 1,440.88 ft. dist.	
549.81	Intersect the line bet. secs. 15 and 16 at a point from which the 1/4 cor. of secs. 15 and 16 bears S. 0° 01' W., 629.50 ft. dist.; previously described.	
595.62	<p>Cor. No. 3</p> <p>Set an iron post, 3/4 in. diam., 24 ins. long, in a 25 pound concrete and rock base, 12 ins. in the ground, with a brass cap, 2 ins. diam., firmly secured to the iron post, mkd. M. S. 4685 K. 109 3X; from which</p> <p>A wood post, 2 x 2 ins. x 4 ft. long, in a mound of stones, sets adjacent to the iron post.</p> <p>Thence N. 0° 11' 46" W.</p>	
290.	Power line bears N. 56° 30' E. and S. 56° 30' W.	
1040.	Right bank dry wash, 35 ft. wide, course N. 35° E.	
1490.88	<p>Cor. No. 4, identical with Cor. No. 1 Sur. No. 4653 Kalamazoo 104 lode and Cor. No. 1 Sur. No. 4653 Kalamazoo 103 lode:</p> <p>Fd. an iron post, 1 1/4 ins. diam., 9 ins. above ground, with a lead cap, firmly set, mkd. and witnessed as described in the official record to which I add mks. M. S. 4685 K. 109 4; from which</p>	

FEET	
	<p>The cor. of secs. 9, 10, 15 and 16, T. 9 S., R. 16 E., G&SRM, bears N. 5° 40' 40" E., 520.11 ft. dist.; an iron post, 2 ins. diam., 16 ins. above ground, firmly set, mkd. and witnessed as described in the official record.</p> <p>A wood post, 2 x 2 ins. x 4 ft. long, in a mound of stones, sets adjacent to the iron post.</p> <p>Thence N. 89° 45' 14" E.</p>
51.30	Intersect the line bet. secs. 15 and 16 at a pt. from which the cor. of secs. 9, 10, 15 and 16 bears N. 0° 01' E., 517.34 ft. dist.; previously described.
297.64	Lode line; discovery pt. bears S. 0° 11' 46" E., 50.0 ft. dist.
595.62	Cor. No. 1, and place of beginning.
<p>Kalamazoo 110 LODE</p>	
	<p>Beginning at Cor. No. 1 Kalamazoo 110 lode, identical with Cor. No. 1 Kalamazoo 105 lode, Cor. No. 1 Kalamazoo 106 lode and Cor. No. 1 Kalamazoo 111 lode, all of this survey.</p> <p>Thence S. 0° 11' 46" E.</p>
415.	Power line, bears N. 56° 30' E. and S. 56° 30' W.
1285.	Center line State Highway 77, bears N. 34° E. and S. 34° W.
1490.88	<p>Cor. No. 2, identical with Cor. No. 4 Kalamazoo 111 lode of this survey.</p> <p>Set an iron post, 3/4 in. diam., 24 ins. long, in a 25 pound concrete and rock base, 12 ins. in the ground, with a brass cap, 2 ins. diam., firmly secured to the iron post, mkd. M.S. 4685 K. 110 2 K. 111 4X; from which</p> <p>A wood post, 2 x 2 ins. x 4 ft. long, in a mound of stones, sets adjacent to the iron post.</p> <p>Thence S. 89° 46' 55" W.</p>

FEET	
138.22	Center line State Highway 77, bears N. 34° E. and S. 34° W.
297.36	Lode line; discovery pt. bears N. 0° 11' 46" W., 1,440.88 ft. dist.
595.01	Cor. No. 3, identical with Cor. No. 2 Kalamazoo 109 lode of this survey. Thence N. 0° 11' 46" W.
683.91	Power line, bears N. 56° 30' E. and S. 56° 30' W.
1354.12	Right bank dry wash, 35 ft. wide, course N. 72° E.
1490.88	Cor. No. 4, identical with Cor. No. 2 Kalamazoo 105 lode, Cor. No. 1 Kalamazoo 109 lode, both of this survey and Cor. No. 2 Sur. No. 4653 Kalamazoo 104 lode. Thence N. 89° 46' 55" E.
180.31	Left bank dry wash, 35 ft. wide, course N. 50° E.
297.65	Lode line; discovery pt. bears S. 0° 11' 46" E., 50.0 ft. dist.
595.01	Cor. No. 1, and the place of beginning.
Kalamazoo 111 LODE	
Beginning at Cor. No. 1 Kalamazoo 111 lode, identical with Cor. No. 1 Kalamazoo 105 lode, Cor. No. 1 Kalamazoo 106 lode and Cor. No. 1 Kalamazoo 110 lode, all of this survey. Thence N. 89° 46' 55" E.	
297.91	Lode line; discovery pt. bears S. 0° 11' 46" E., 50.0 ft. dist.
595.31	Cor. No. 2, identical with Cor. No. 4 Kalamazoo 106 lode, Cor. No. 2 Kalamazoo 107 lode and Cor. No. 4 Kalamazoo 112 lode, all of this survey. Thence S. 0° 11' 46" E.
15.	Power line, bears N. 56° 30' E. and S. 56° 30' W.

FEET	
405.	Center line State Highway 77 bears N. 40° E. and S. 36° W.
1490.88	<p>Cor. No. 3, identical with Cor. No. 3 Kalamazoo 112 lode of this survey.</p> <p>Set an iron post, 3/4 in. diam., 24 ins. long, in a 25 pound concrete and rock base, 12 ins. in the ground, with a brass cap, 2 ins. diam., firmly secured to the iron post, mkd. M.S. 4685 K. 111 3 K. 112 3X; from which</p> <p style="padding-left: 40px;">A wood post, 2 x 2 ins. x 4 ft. long, in a mound of stones, sets adjacent to the iron post.</p> <p style="padding-left: 80px;">Thence S. 89° 46' 55" W.</p>
297.40	Lode line; discovery pt. bears N. 0° 11' 46" W., 1,440.88 ft. dist.
595.31	<p>Cor. No. 4, identical with Cor. No. 2 Kalamazoo 110 lode of this survey.</p> <p style="padding-left: 80px;">Thence N. 0° 11' 46" W.</p>
205.88	Center line State Highway 77 bears N. 34° E. and S. 34° W.
1075.88	Power line bears N. 56° 30' E. and S. 56° 30' W.
1490.88	Cor. No. 1, and the place of beginning.
<p>Kalamazoo 112 LODE</p> <p>Beginning at Cor. No. 1 Kalamazoo 112 lode, identical with Cor. No. 1 Kalamazoo 107 lode, Cor. No. 1 Kalamazoo 108 lode and Cor. No. 1 Kalamazoo 113 lode, all of this survey.</p> <p style="padding-left: 80px;">Thence S. 0° 11' 46" E.</p>	
1490.88	<p>Cor. No. 2, identical with Cor. No. 4 Kalamazoo 113 lode of this survey.</p> <p>Set an iron post, 3/4 in. diam., 24 ins. long, in a 25 pound concrete and rock base, 12 ins. in the ground, with a brass cap, 2 ins. diam., firmly secured to the iron post, mkd. M.S. 4685 K. 112 2 K. 113 4X; from which</p>

FEET		
	<p>A wood post, 2 x 2 ins. x 4 ft. long, in a mound of stones, sets adjacent to the iron post.</p> <p>Thence S. $89^{\circ} 46' 55''$ W.</p>	
299.21	<p>Lode line; discovery pt. bears N. $0^{\circ} 11' 46''$ W., 1,475.88 ft. dist.</p>	
599.21	<p>Cor. No. 3, identical with Cor. No. 3 Kalamazoo 111 lode of this survey.</p> <p>Thence N. $0^{\circ} 11' 46''$ W.</p>	
1085.88	<p>Center line State Highway 77 bears N. 40° E. and S. 36° W.</p>	
1475.88	<p>Power line bears N. $56^{\circ} 30'$ E. and S. $56^{\circ} 30'$ W.</p>	
1490.88	<p>Cor. No. 4, identical with Cor. No. 4 Kalamazoo 106 lode, Cor. No. 2 Kalamazoo 107 lode and Cor. No. 2 Kalamazoo 111 lode, all of this survey.</p> <p>Thence N. $89^{\circ} 46' 55''$ E.</p>	
15.	<p>Power line bears N. $56^{\circ} 30'$ E. and S. $56^{\circ} 30'$ W.</p>	
300.0	<p>Lode line; discovery pt. bears S. $0^{\circ} 11' 46''$ E., 15.0 ft. dist.</p>	
389.65	<p>Center line State Highway 77 bears N. 51° E., and S. 47° W.</p>	
599.21	<p>Cor. No. 1, and the place of beginning.</p>	
Kalamazoo 113 LODE		
	<p>Beginning at Cor. No. 1 Kalamazoo 113 lode, identical with Cor. No. 1 Kalamazoo 107 lode, Cor. No. 1 Kalamazoo 108 lode and Cor. No. 1 Kalamazoo 112 lode, all of this survey.</p> <p>Thence N. $89^{\circ} 48' 40''$ E.</p>	
298.09	<p>Lode line; discovery pt. bears S. $0^{\circ} 11' 46''$ E., 50.0 ft. dist.</p>	

FEET	
309.14	Intersect the north-south center line of sec. 15 at a pt. from which the 1/4 cor. of secs. 10 and 15 bears N. 0° 02' 25" E., 503.43 ft. dist.; previously described.
361.09	High pressure natural gas pipeline bears N. 21° W. and S. 21° E.
596.09	Cor. No. 2, identical with Cor. No. 4 Kalamazoo 108 lode of this survey. Thence S. 0° 11' 46" E.
637.55	High pressure natural gas pipeline bears N. 21° W. and S. 21° E.
1490.88	Cor. No. 3 Set an iron post, 3/4 in. diam., 24 ins. long, in a 25 pound concrete and rock base, 12 ins. in the ground, with a brass cap, 2 ins. diam., firmly secured to the iron post, mks. M.S. 4685 K. 113 3X; from which A wood post, 2 x 2 ins. x 4 ft. long, in a mound of stones, sets adjacent to the iron post. Thence S. 89° 48' 40" W.
293.08	Intersect the north-south center line of sec. 15 at a pt. from which the 1/4 cor. of secs. 10 and 15 bears N. 0° 02' 25" E., 1,994.50 ft. dist.; previously described.
298.0	Lode line; discovery pt. bears N. 0° 11' 46" W., 1,440.88 ft. dist.
596.09	Cor. No. 4, identical with Cor. No. 2 Kalamazoo 112 lode of this survey. Thence N. 0° 11' 46" W.
1490.88	Cor. No. 1, and the place of beginning.
<hr/> SURVEY NO. 4685 <hr/>	
AREAS	
	<u>Acres</u>
Total area Kalamazoo 105 lode	20.331
Total area Kalamazoo 106 lode	20.341
Total area Kalamazoo 107 lode	20.474
Total area Kalamazoo 108 lode	20.368

FEET	<u>Acres</u>
Area in conflict with	
SE 1/4 Sec. 10, T. 9 S., R. 16 E., G&SRM	6.400
NE 1/4 Sec. 15, T. 9 S., R. 16 E., G&SRM	3.302
Total area Kalamazoo 109 lode	20.385
Area in conflict with	
NE 1/4 Sec. 16, T. 9 S., R. 16 E., G&SRM	1.662
Total area Kalamazoo 110 lode	20.365
Total area Kalamazoo 111 lode	20.375
Total area Kalamazoo 112 lode	20.508
Total area Kalamazoo 113 lode	20.401
Area in conflict with	
NE 1/4 Sec. 15, T. 9 S., R. 16 E., G&SRM	9.927
 LOCATION	
<p>This survey is located in SW 1/4 & SE 1/4 Sec. 10, NW 1/4 & NE 1/4 Sec. 15 and NE 1/4 Sec. 16, T. 9 S., R. 16 E., G&SRM.</p> <p>The survey of the Kalamazoo 105-113 lodes is identical with the locations or amended locations as marked on the ground.</p>	
 EXPENDITURES	
<p>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:</p>	
No. 1	<p>The discovery pt. of the Kalamazoo 105 lode is on the lode line, 50 ft. from a pt. on line 3-4, 297.65 ft. from Cor. No. 3. Value: None</p>
No. 1	<p>The discovery pt. of the Kalamazoo 106 lode is on the lode line, 50 ft. from a pt. on line 2-3, 297.91 ft. from Cor. No. 2. Value: None</p>
No. 1	<p>The discovery pt. of the Kalamazoo 107 lode is on the lode line, 50 ft. from a pt. on line 3-4, 300.0 ft. from Cor. No. 3. Value: None</p>
No. 1	<p>The discovery pt. of the Kalamazoo 108 lode is on the lode line, 50 ft. from a pt. on line 2-3, 298.09 ft. from Cor. No. 2. Value: None</p>

FEET	
No. 1	<p>The discovery pt. of the Kalamazoo 109 lode is on the lode line 50 ft. from a pt. on line 4-1, 297.64 ft. from Cor. No. 4. Value: None</p>
No. 1	<p>The discovery pt. of the Kalamazoo 110 lode is on the lode line, 50 ft. from a pt. on line 4-1, 297.65 ft. from Cor. No. 4. Value: None</p>
No. 1	<p>The discovery pt. of the Kalamazoo 111 lode is on the lode line, 50 ft. from a pt. on line 1-2, 297.91 ft. from Cor. No. 1. Value: None</p>
No. 1	<p>The discovery pt. of the Kalamazoo 112 lode is on the lode line, 15 ft. from a pt. on line 4-1, 300 ft. from Cor. No. 4. Value: None</p>
No. 1	<p>The discovery pt. of the Kalamazoo 113 lode is on the lode line, 50 ft. from a pt. on line 1-2, 298.09 ft. from Cor. No. 1. Value: None</p>
	<p>An interest in a common improvement as follows:</p>
	<p>A drill hole, No. 20, bears N. 2° 30' W., 490 ft. from Cor. No. 1 Kalamazoo 105 lode; 4 3/4 ins. diam., 150 ft. deep. Value: \$750.00</p>
	<p>A drill hole, No. 20A, bears N. 2° W., 485 ft. from Cor. No. 1 Kalamazoo 105 lode; 4 3/4 ins. diam., 100 ft. deep. Value: \$500.00</p>
	<p>A drill hole, No. 21, bears S. 72° 30' W., 355 ft. from Cor. No. 1 Kalamazoo 110 lode; 4 3/4 ins. diam., 140 ft. deep. Value: \$700.00</p>
	<p>A drill hole, No. 21A, bears S. 71° 30' W., 350 ft. from Cor. No. 1 Kalamazoo 110 lode; 4 3/4 ins. diam., 100 ft. deep. Value: \$500.00</p>
	<p>Value of combined surface drilling, constituting this common improvement, \$2,450.00. Value of 1/9th interest, \$272.22.</p>
	<p>This improvement, completed at the time of this survey, is for the development of the nine lodes of this survey; therefore, an undivided 1/9th interest in its value is hereby credited to each of said lodes.</p>

FEET

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

An interest in a common improvement, a surface drilling program to outline an ore body, as fully described in the official record of Mineral Survey No. 4653.

Value of combined surface drilling, constituting this common improvement,
\$1,476,073.91.

Value of 1/111th interest, \$13,297.96.

The official record of Mineral Survey No. 4653 AMD. credits an undivided 1/111th interest in the value of this improvement to the 102 lodes of M. S. #4653, and apportions a like interest to each of the nine lodes of this survey, known as the Kalamazoo 105 through 113, which are all contiguous lode claims owned in common within the range of benefit of said drilling.

Five Hundred dollars or over has been expended in this improvement in such a manner as tends to the development of each of the nine lodes of this survey subsequent to their location and to the time since which common ownership and contiguity have prevailed; therefore, an undivided 1/111th interest in its value is hereby credited to each of said lodes.

Except as above stated, no portion or interest in this improvement has been credited heretofore as patent expenditure to any lode claim.

OTHER IMPROVEMENTS

None.

OTHER CORNER DESCRIPTIONS AND SUPPLEMENTAL DATA

Sur. No. 4653 Kalamazoo 90 lode: Cor. No. 3 described above. Lines 2-3 and 3-4 shown as approved.

Sur. No. 4653 Kalamazoo 91 lode: Cors. Nos. 3 and 4 described above. Line 3-4 was found to be N. 89° 46' 55" E., 595.01 ft. instead of N. 89° 46' E., 596.0 ft. as approved. Lines 2-3 & 4-1 shown as approved.

	FEET	
		<p>Sur. No. 4653 Kalamazoo 92 lode: Cors. Nos. 3 and 4 described above. Line 3-4 was found to be S. $89^{\circ} 46' 55''$ W., 595.31 ft. instead of S. $89^{\circ} 46'$ W., 596.0 ft. as approved. Lines 2-3 & 4-1 shown as approved.</p>
		<p>Sur. No. 4653 Kalamazoo 93 lode: Cors. Nos. 3 and 4 described above. Line 3-4 was found to be N. $89^{\circ} 46' 55''$ E., 599.21 ft. instead of N. $89^{\circ} 46'$ E., 596.0 ft. as approved. Lines 2-3 & 4-1 shown as approved.</p>
		<p>Sur. No. 4653 Kalamazoo 94 lode: Cors. Nos. 3 and 4 described above. Line 3-4 was found to be S. $89^{\circ} 48' 40''$ W., 596.09 ft. instead of S. $89^{\circ} 46'$ W., 596.0 ft. as approved. Lines 2-3 & 4-1 shown as approved.</p>
		<p>Sur. No. 4653 Kalamazoo 103 lode: Cor. No. 1 described above. Lines 1-2 and 4-1 shown as approved.</p>
		<p>Sur. No. 4653 Kalamazoo 104 lode: Cors. Nos. 1, 2 and 3 described above. Line 1-2 was found to be N. $89^{\circ} 45' 14''$ E., 595.62 ft. instead of N. $89^{\circ} 46'$ E., 596.0 ft. as approved. Line 2-3 was found to be N. $0^{\circ} 11' 46''$ W., 1,488.42 ft. instead of N. $0^{\circ} 14'$ W., 1,490.50 ft. as approved. Lines 3-4 & 4-1 shown as approved.</p>
		<p>The cor. of secs. 9, 10, 15 & 16 described above. The $1/4$ cor. of secs. 10 and 15 described above. The $1/4$ cor. of secs. 15 and 16 described above. The west half of the line bet. secs. 10 and 15 was found to be N. $89^{\circ} 55' 10''$ W., 2,643.19 ft. instead of S. $89^{\circ} 58'$ W., 2,642.64 ft. as approved. The east half of the line bet. secs. 10 and 15 is shown as approved. The north half of the line bet. secs. 15 and 16 was found to be N. $0^{\circ} 01'$ E., 2,637.72 ft. instead of N. $0^{\circ} 01'$ W., 2,640 ft. as approved.</p>
		<p>The center of sec. 10 was found to be previously established, a spike with a stake mkd. center of sec. 10. The south half of the north-south center line was found to be N. $0^{\circ} 00' 20''$ W., 2,640.53 ft.</p>
		<p>The center of sec. 15 was established by prescribed methods. The north half of the north-south center line was found to be N. $0^{\circ} 02' 25''$ E., 2,641.36 ft.</p>

FEET	FIELD ASSISTANTS	
	<u>Name</u>	<u>Capacity</u>
	N. T. Allison	Party chief and instrument man
	Dana K. Smith	Chainman
	H. Wayne Smith	Axeman

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

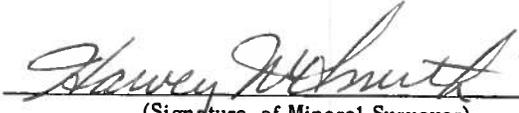
CERTIFICATE OF SURVEYOR

Name of Mineral Surveyor Harvey W. Smith	Date May 12, 1971
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I HEREBY CERTIFY That in pursuance of an order received from the **Bureau of Land Management**, at **Phoenix, Arizona**, dated **February 22**, 1971, I have carefully executed the survey of the claim of **Magma Copper Company** known as the ~~(lode, placer, or vein)~~ **Kalamazoo 105 through 113** situated in **Secs. 10, 15 & 16**, Township **9 S.**, Range **16 E.**, **Gila and Salt River** Meridian, in the State of **Arizona**.

This survey, designated as number **4685**, 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)~~ **lode** 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.

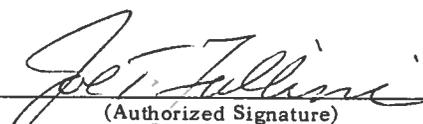
Scottsdale, Arizona (Location)	 (Signature of Mineral Surveyor)
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CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT

Office Arizona State Office
Location Phoenix, Arizona
Date June 8, 1971

The foregoing field notes of mineral survey number **4685**, in **Sections 10, 15 and 16** Range **16 E.**, **Gila & Salt River** Meridian, in the State of **Arizona**, surveyed unsurveyed Township **9 S.**, executed by **Harvey W. Smith**, Mineral Surveyor, under order dated **February 22**, 1971, 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.

 (Authorized Signature)	State Director (Title)
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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)
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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.

