UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

MINERAL	SURVEY	NO.	4501
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	FIELD NO	TES
	Of The Survey Of The Mi	ning Claim Of
	Magma Copper	Company
	Known As Th	Ө
	Blackfoot No.2 and Bla	ackfoot No.3 Lodes
ac	Pioneer	Mining District,
	Pinal County,	Arizona
ection25	& 30 Township 1S.	, Ranges 12 & 13 E.
Surveyed u	under order datedJune 9	, 19.59
	byI	Harvey W. Smith Mineral Surveyor.
Claim	located6/8/12, and 1	0/28/16, 19
Surve	ey commenced Sept. 22	, 19.59
Surve	ey completed Sept. 28	, 19.59
Addre	ess of claimant Box.37, Supe	rior, Arizona
	DATES OF AMENDED LO	OCATIONS

(1)

SURVEY NO. 4501

(Anins --a lusss cap, 2 ins. diam. firmly isstened to Feet Teet This survey was made with a C.L. Berger & Sons transit, No. 150545, with a horizontal limb 6% ins. diam., having two double opposite verniers and full vertical circle, 5 ins. diam.; the verniers read 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 horizontal-angles-right referred to the meridian established by the following direct observation on the sun At 9:35 AM on Sept. 25,1959 at Cor. No. 2 of the Blackfoot No. 3 lode, latitude, 33°18'38.17"N., longitude 111°04' 43.9"W., turning from a reference point about one mile northeast clockwise to the sun in an east direction. True bearing of reference point. 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. . Es The tape was compared to a standard at the beginning of the survey 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 13015'E. . 3010 BLACKFOOT NO. 2 LODE Found on tron post, 12 ins. above ground, 2 ins. diam., At Cor. No. 1 of the Blackfoot No. 2 lode identical with Cor. No.2, Sur. No. 4093, Silver Tip Extension No. 1 lode and Cor. No. 3, Sur. No. 2995, Silver Tip Extension lode. 1501 B2 4 K; from which Found a iron post, 12 ins. above ground, 2 ins. diam. with brass cap, 2% ins. diam., firmly set, properly mkd. and witnessed as described in the official record. Markings of this survey added. Presently mkd. MS 2995 4093 4501 . STE 3 STE 1 2 B2 1 X; from which . TO R.12E., G&S.R.B.&M. bears S.13°38'35"W. 695.28 ft. dist.; an iron post 12 ins. above ground, l in. diam. firmly set, properly marked and witnessed as described in the official record. The Extersion Lo. 2 Lode A wooden post, 4x4 ins., 30 ins. above ground . a least of set adjacent to the iron post in a mound of stones. 1430.37 Cor. No.1 and place of beginning. Thence N.200'33"W. No. 4501 300-0 Lode line; discovery pt. bears N.88047'30"E., 1137.97 ft. SLACKFOOT WO. 3 LODE 599.24 Cor. No. 2 Set a galvanized iron post, 36 ins. long 3/4 in. diam. wedged in a bedrock base, 18 ins. in the ground, with

		SURVEY NO. 4501	(2
t,	Chains Feet	a brass cap, 2 ins. diam. firmly fastened to the iron post, mkd. MS 4501 B2 2 X; from which	
	ercle, 5 fc, The	A wooden post, 4x4 ins. 30 ins. above ground, set adjacent to the iron post in a mound of stones.	
		Thence N.88 45'37"E. La	
	1340.0	Right bank, local drainage, 5 ft. wide, course S.10 W.	
jc	1480.94	Cor. No. 3 identical with Cor. No.2, Blackfoot No. 3 lode of this survey.	0 E
	.up.	Set a galvanized iron post, 24 ins. long 3/4 in. diam., wedged in a bedrock base, 16 ins. in the ground, with a brass cap, 2 ins. diam. firmly fastened to the iron post, mkd. MS. 4501 B2 3 B3 2 X; from which	
D.C		A wooden post, 4x4 ins. 30 ins. above ground, set adjacent to the iron post in a mound of stones.	
	ron by	the survey and found to occurect. All lines and a "Et 00 2.2 and Thence S.2 and	
31	300.03	Lode line; discovery pt. bears S.88 47'30"W., 343.0ft.	
	600.03	Cor. No. 4, identical with Cor. No. 3, Sur. No. 4093, Silver Tip Extension No.1 lode.	
	on lede	Found an iron post, 12 ins. above ground, 2 ins. diam., with a brass cap, 2½ ins. diam., firmly set, properly marked and witnesses as described in the official record. Markings of this survey added. Presently mkd. MS 4093 STE1 3 4501 B2 4 X; from which	
	mkd. an Markine	A wooden post, 4x4 ins., 30 ins. above ground set adjacent to the iron post in a mound of stones.	
	33	Cor. No. 1 Blackfoot No.3 lode identical with Cor. No. 3, Sur. No.4231, Silver Tip Extension No. 2 loo bears S. 88 47'30"W., 4.55 ft. dist.	de
8.	barous !	Thence S.88 47'30"W.	
	10054: 55	Cor. No.1, Blackfoot No. 3 lode, identical with Cor. No.3 Sur. No.4231, Silver Tip Extension No. 2 lode.	,
- H	118:00	nLeft bank, local drainage 8 ft. wide, course S.10 E.	
	1480.97	Cor. No.1 and place of beginning.	
	7.97 £6	Survey No. 4501	
		BLACKFOOT NO. 3 LODE 2 .012.100 42.002	
	tiam. d, with	At Cor. No. 1 of the Blackfoot No. 3 lode, identical with Cor. No. 3, Sur. No.4231, Silver Tip Extension No. 2 lode, on line 4-1, Blackfoot No.2 lode of this survey.	

_	1	DONALL NO. 4501
.0	Feet I moisne	Found an iron post, 12 ins. above ground, 2 ins. diam., with a brass cap, firmly set, properly marked and witnessed as described in the official record. Markings of this survey added. Presently marked MS 4231 STE2 3 4501 B3 1 X; from which
	a standage amina a distance record conventing amin	The t cor. between secs, 25 and 36, T.1S., R.12E., G.&S.R.B.&M. bears S.66 41'11"W., 1785.90 ft. dist. previously described.
	Acres 20.365 20.585	Cor. No. 4, Blackfoot No. 2 lode of this survey, identical with Cor. No. 3, Sur. No. 4093, Silver Tip Extension No.1 lode, bears N.88 47'30"E., 4.55 ft. dist.
	0.000	A wooden post, 4x4 ins., 30 ins, above ground, set adjacent to the iron post in a mound of stones.
		Thence N. 1 34'30"W.
.M	300.00	Lode line; discovery pt. bears S.87 22 13 E., 57.0 ft. dist.
ne d		Cor. No. 2, identical with Cor. No.3, Blackfoot No.2 lode of this survey; previously described.
		Thence S.87 24'E.
	11,96.33	Cor. No.3
		Set a galvanized iron post, 36 ins. long, 3/4 in. diam. in a rock and soil base, 24 ins. in the ground, with a brass cap, 2 ins. diam., firmly fastened to the iron post, mkd. MS 4501 B3 3 X; from which
		A wooden post, 4x4 ins., 30 ins. above ground, set adjacent to the iron post in a mound of stones.
		Thence S. 1° 34' 30"E.
	300.81	Lode line; discovery pt. bears N.87 22'13"W., 1439.43 ft. dist.
	601.62	Cor. No.4, identical with Cor. No.4, Sur. No.4231, Silver Tip Extension No.2 lode.
		Found an iron post, 12ins. above ground, 2 ins. diam., with a brass cap, firmly set, properly marked and witnessed as described in the official record. Markings for this survey added. Presently mkd. MS 4231 STE2 4 4501 B3 4 X; from which
		A wooden post, 4x4 ins., 30 ins. above ground, set adjacent to the iron post in a mound of stones.
		Thence N.87 ^o 20'22"W.

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	36KYE1 NO. 4301	
- 1491.97	Intersect 14ne 344, Sur! No. 4093, Silver Tip Ext	ension No.
H STEZ 3	Cor. No. 1 and place of beginning.	St.
, A.12B.,	31.T , 35 5 c .3 Survey No. 4501 3 341 10.88.2.1 , 4 11 11 00.8 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	
	previously described.	
lver Tip	Ends to show A. Mackfoot No. 2. Pode of this Total area Blackfoot No.2. Podes 1. Steel Edward Communication Total S. Ones, "Total Edward Communication Total S. Ones, "Total Edward Communication Total S. Ones, "Total Edward Communication Total Edward Communication Total Edward Communication Total Edward Communication Total Edward Communication Communi	Acres 20.385 20.585
ound, set	Area in conflict with Blackfoot No.2 lode Sur. No.4093, Silver Tip Extension No.1 lode	0.031
	LOCATION This survey is located in the SE ½, Sec 25, R.12E., and the SW ½, Sec. 30, T.18., R.13E., G.	T.1S., &S.R.B.&M
lo.2 Lode	The survey of the Blackfoot No.2 and Blackfo lodes is identical with the respective location location as marked on the ground.	ot No.3 or amended
	E.off.no3	1496.33
with a	Set a jelvenized firon post, 36 ins. long, 3/4 in a rock and soil base, 24 ins. in the ground, trass cap, 2 ins. diam., firmly fastened to post, mid. #8 4501 83 3 %; from which	
	A wooden post, 4x4 ins., 3, ins. above grad acent to the iron post in a mound of a	
	Thence S. T 34'30"E.	
9.43 fc.	Lode time; discovery pt. bears N. 37 22'13 W., 14.	181005
, Silver	Cor. No. 4, Adentical with Cor. No. 4, Sir. 00.423	201.602
witnessed for this	Found an from post, 12ins. above ground, 2 ins. a wrass cap, finally set, proporty mented and as described in the official recond. Marking survey added. Presently mkd. 48 4231 aTK2 4 X: from which	
	A wooden post, 4x4 ins., 30 ins. showe grad adjacent to the iron port in a nound of	
	Thence M.87 20'22'W.	

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Gheins-	SURVEY NO. 4501
Feet	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:
No.1	The discovery cut of the Blackfoot No.2 lode is on the lode line 343 ft. from a point on line 3-4, 300.03 ft. from Cor. No.3; 6x4 ft., 10 ft. deep at the face. Value, \$125.
No.2	A drift, on the level which enters the Blackfoot No.2 clair at a point N.88°47'30"E., 1045 ft. dist. from Cor. No. 1 5x7 ft. in size, running N.40°E., 150 ft., thence N.75°E., 180 ft. Value, \$8,250.
No.3	A series of diamond drill holes spaced along improvement Non2: Total footage drilled 445 ft. Value, \$2225.
No.1	The discovery cut of the Blackfoot No.3 lode is on the lode line 57 ft. from a point on line 1-2, 300.0 ft. from Cor. No.1; 4x6 ft., 10 ft. deep at the face. Value, \$125.
No.2	Two diamond drill holes, drilled from No.6 shaft on Sur. No. 4231, Silver Tip Extension No.2 lode, horizontally placed to intersect the ore body on the Blackfoot No.3 lode. Hole No.2098A enters the Blackfoot No.3 lode at a point S.87°20*22*E., 370 ft. dist. from Cor. No.1. Hole No.2560 enters the Blackfoot No.3 lode at a point S.87°20'22*E., 300.0 ft. dist. from Cor. No.1. Total footage drilled, 615 ft. Value, \$3075.
	OTHER IMPROVEMENTS
	None
	OTHER CORNER DESCRIPTIONS & SUPPLEMENTAL DATA
	Sur. No.4093, Silver Tip Extension No.1 lode; line 2-3 was found to be S.88 ^o 47'30"W., 1480.97 ft. instead of S.88 ^o 49'W., 1480.20 ft. as approved. Line 3-4 is shown as approved.
	Sur. No.4231, Silver Tip Extension No.2 lode; line 3-4 was found to be N.87°20'22"W., 1496.51 ft. instead of N.87°37'W., 1497.50 ft. as approved. Line 2-3 is shown as approved.
	The Cor. of secs. 25,30,31, and 36 T.1S., Rs 12 and 13E. was not found.
	FIELD ASSISTANTS Name Capacity Richard Cleveland Chainman-Axeman
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	Chains	TXPHVDITUKES	Jeet .
	ne Lode	The displements and the value of the lasor; thesents made upon or for the schedit of each of received emerged in said mining claim by the cities greaters are as follows:	
		The discovery cut of the Blackfoot No.2 lode is a line 343 ft. from a point on line 3-4, 300.00 Cor. No.3; 6x4 ft., 10 ft. deep at the face.	I.eW
	Cor. M	A drift, on the level which enters the Blackfoot at a point N.85°47'50"E., 1045 ft. dist. from 1 5x7 lt. in size, running N.40°E., 150 ft. N.75°E., 180 ft. Value, \$8,250.	No.2
		A series of diamend drill holes spaced along impr No.2. Total footage drilled 445 it. Value, vi	10.3
		The discovery cut of the Blackfoot No.3 lode is a line 57 ft. from a point on line 1-2, 300.0 fc., Cor. No.1, 4x6 ft., 10 ft. deep at the face.	No.1
8.	izontal foot No lode a . No.1. t a poi	Two diamond drill holes, drilled from No.5 shaft No. 4231, Silver Tip Extension No.2 lode, not placed to intersect the one body on the black hole. hole No.2098A enters the Election No. a point S. 87°20"E., 370 ft. dist. from Corde No.2560 enters the Election No.3 lode S. 87°20"E., 300.0 ft. dist. from Cor. No. footage drilled, 615 ft.	No.2
		OTHER IMPROVEMENTS	
		None	
		OTHER CORNER DESCRIPTIONS & SUPPLEMENTAL DATA	
	stead o	Ser. No. 4093, Silver Tip Extension No.1 lod 2-3 was found to se S. 68047 30 W., 1430.97 ft. in 5.30040 W., 1450.20 ft. as approved. Line 1-4 is approved.	
	o basis.	foro. 4231, Silve: Tip Extension No.2 Lods 8-4 was found to be N.87° 20'22°W., 1496:51 fc. th N.87°39'W., 1497.50 fc. as approved. Line 2-3 is approved.	
	12 and	The Cor. of secs. 23,30,31, and 36 T.18., R. 13E. was not found.	
		FIELD ASSISTANTS	
		name Capacity Lichard Cleveland Chainman-Axen	

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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CERTIFICATE OF SURVEYOR

	Nov. 15 , 19.59
I, Harvey W. Smith	·
Mineral Surveyor, hereby certify upon honor that i	n pursuance of an order received from the Cadastral
Engineer, BLM.	, atPhoenix, Arizona
	, I have faithfully and correctly executed the survey of
the mining claim of Magma Copper	Company ,
known as the Blackfoot No. 2 and Blackf	Coot No. 3 (Lode, placer, or mill site)
	Pinal County, Secs. 25 & 30
T. 1S. ,Rs. 12&13 E. ,	G.&S.R. Meridian, Arizona , and
executed by me and under my direction, and that sat the Manual of Instructions for the Survey of the Pub described in the foregoing field notes, and I do further	h is represented in the foregoing field notes as having been id survey has been made in strict conformity with said order, plic Lands of the United States, and in the specific manner er certify that the labor expended and improvements made
upon or for the benefit of the Lode (Lode or placer)	location(s) embraced in the said mining claim by
extent, location, and itemized value thereof are spec	fully stated in my report therein, and that the character, cified therein with particularity and full detail, and that no ts so credited to this claim has been included in the estimate
Scottsdale, Arizona	Dans, Indanith
(Place)	Harvey W. Smith
CERTIFICATE	Bureau of Land Management Survey Office (Office)
	Phoenix, Arizona March 2 , 1960 (Place) (Date)
The foregoing field notes of mineral survey No. Section 30 1 South Section 25 T 1 South	. 1501 , in Pioneer Mining District 13 East , R. 12 East , Gila & Salt River Meridian,
And none	Harvey W Smith
(State)	Harvey W. Smith , Mineral Surveyor,
under order dated <u>June 9, 1959</u> corrections made prior to their certification by the are hereby approved.	having been critically examined and the necessary surveyor, the field notes and the survey therein described
	Lester S. Mann
	Office Cadastral Engineer
CERTIFICATE	OF TRANSCRIPT
I CERTIFY that the foregoing transcript of field is a true copy of the original field notes.	notes of the above described mineral survey No.

(Title)

15 m
) Extrem W. Smith
Mineral Surveyor, inversy nevery mone that in pursuance of an arder received from the Cadagunal.
Parincer, MIM
to govern out between Winterior has who offer event i
the mining plates of the big Copper Company
known as the Bigs foot No.2 and Blackfoot No.3
water and District Pinel County, Secs. 25 & 30.
Tomas Booking and Market C. S. R
designated as situs on you. ADDI
apon in for the benefit of the Local and the Destroy of the Associated and the Associated
chemical (a) or
Scottadale, Antrona
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The foregoing had noted at mingares was two LECO. In LECONOR A Line Binter of Land Control of
green of the substitution
reserved on beniming dispitts and private.
correction, made prior to diede condition to the purveyer, the field more and the mirror thands Searched are hereby equivored.
and the state of t
CERTIFICATE OF TRANSCRIPT
I CERTY that the fortgoing transcript of field notes of the above described mindral survey No.