# MINERAL SURVEY No. 4209

Arizona Land District

	FIF	ELD NO	TES		
	OF THE SURVE	Y OF THE MI	NING CLAIM C	OF	
	Chapin Explorat	ion Compar	y		
Chapin No. No. 8, Thap Chapin No.	4, Ehapin No. 5 in No. 9, Chapi 18, Chapin No.			oin No. 7, Ch 16, Chapin 10des	
	Owe	ns		Mining Di	strict,
Section3	& 5 3 Towns under instructions	11N hip 12 N	, Re	ange 13 W. G & S R M	
		ByRa	lph L. Mot	U. S. Mineral Si	 irveyor.
Clo	im located See	location n	oticēs her	ewi th	
Su	rvey commenced	February	6,	, 19.38	
Su	rvey completed	February	13	, 19 38	
$\mathcal{A}d$	dress of claimant.  DATES O	s attorney	Valley N Tucson,	Knapp. National Bank Arizona.	Bldg.,
				U A. GOVERNMENT PRINTIN	IG OPFICE: 1927

Feet

Mineral Survey No. 4209 was made with a Gurley & Soms Precise Transit, Light Mountain model, with horizontal limb 6.25 inches in diameter, having two double opposite verniers, and full vertical circle 5 inches in diameter, having one double vernier; the verniers read to one min-ute of arc; the eye piece is equipped with a prismatic eye place with colored glass slide for making direct ob-servations upon the sun. The instrument was in good condition at the time of survey and all adjustments good order. An a.m. altitude observation of the sun for at noon on the meridian for latitude, were dition at the time of survey and all adjustments were in azimuth, and at noon on the meridian for latitude, were made at Cor. No. 1 of the Chapin No. 5 lode, the details of which observations are shown in the calculation sheets submitted herewith for examination. All azimuths in this record are referred to the true meridian thus determined, by the methods of deflection angles and calculated

courses. My watch was compared with Standard Western Union time before and The lines were measured with a Keuffel & Esser steel tape, 100 feet in length, graduated to feet; tenths and hundredths of feet for the entire length; a Keuffel & Esser steel tape, 300 feet in length, graduated to feet, tenths and hundredths of feet for the entire length; a Lufkin steel tape, 25 feet in length, graduated to feet, inches and fractions of inches for the entire length.
All tapes were compared with a Lufkin standard 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 variation observed at each corner of the survey gave a uniform value of 15° 20' E

## con. No. I and piece of beginning. CHAPIN NO. 4

Beginning at Cor. No. 1 of the Chapin No. 4 lode

Identical with Cor. No. 2 of the Chapin No. 5 lode of this survey,

The E .ol . Too fitty feeting An iron pipe, 2 1/2 inches in diameter, 4 feet long, set 30 inches in the ground, for Cor. No. 1, mkd. C4-1-4209; C5-2-4209; from which

The Corner of Secs. 4 and 5, T.11 N, R 13 W, G & S R XX M bears S 89° 58' W 560.0 ft., an iron pipe 2 inches in diameter., 18 inches above ground, firm-ly set in ground and mound of stone, marked and witnessed as described in the official record.

## thence N 89 58 E

- 10.0 Cross road, 10 feet wide, course southeasterly
- North end center, a mound of rocks 3 ft. high, 3 ft. base, agreeing with the north end center of the location 300.0
- Cor. No. 2 ... Strong of the contract of the c 600.0

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Identical with the northwest corner of the Chapin No. 3 lode, unsurveyed, and on line between Secs. 4 and 33, Ts. 11 and 12 N., R. 13 W. An iron pipe, 2 1/2 inches in diameter, 4 feet long, 18

An iron pipe, 2 1/2 inches in diameter, 4 feet long, 18 inches in the ground in a mound of rocks, for Cor. No. 2, an iron cap on top, mkd. C4-2-4209; no bearings available

#### thence S 0° 02' E

- 525.0 Cross road, 10 feet, wide, course southeasterly
- Cross gulch, 20 feet wide, course southeasterly 545.0

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-		WINERAL BURVET NO. 4803 & MILZONG	
	feet	Truck er driv abon ask 2012 on govill farmit - test	
		Cor. No. 3	
-	elm ego olideren olideren	Identical with the S. W. Cor. of the Chapin No. 3 lode, the N. W. Cor. of the Lake No. 2 lode and the N. E. Cor. of the Lake No. 3 lode, all unsurveyed	
20 E	COUCH DE COU	An iron pipe, 2 1/2 inches in diameter, 4 feet long, set 18 inches in the ground in a mound of rocks, for Cor. No. 3, an iron cap on top, mkd. C4-3-4209; no bearings available	
208	iele as	thence S 89° 58° W	
2	300.0	base, agreeing with the south end center of the loca-	
	600.0	Cor. No. 4	
	test to	this survey, the N. W. Cor. of the Lake No. 3 lode and the N. E. Cor. of the Lake No. 4 lode both unsurveyed,	
	\$4 eca	An iron pipe, 2 1/2 inches in diameter, 4 feet long, set 18 inches in the ground in a mound of rocks, for Cor. No. 4, an iron cap on top mkd. C4-4-4209; C5-3-4209; no bearings available	
	200 10 0	thence N 0° 02! W	
	1500.0	Cor. No. 1 and place of beginning.	
		DOL 20, ON BEING CHAPIN NO 5	
	to abt	Beginning at Cor. No. 1 of the Chapin No. 5 lode	
		Identical with Cor. No. 1 of the Chapin No. 6 lode and Cor. No. 1 of the Chapin No. 15 lode, both of this survey, and the Cor. of Secs. 32 and 33, T 12 N, R 13 W, G & S R Ext M, being an iron post, 3 inches in diameter 18 inches above ground, firmly set in ground and mound of stone, marked and witnessed as described in the official record; from which	
- 810	il than	Witness Corner, an iron pipe, 2 1/2 inches in diameter, 4 feet long, set 18 inches in the ground in a mound of rocks, an iron cap on top, mkd. WC C5-1-4209; C6-1-4209; C15- 1-4209; bears N 89° 566 W 10.0 ft.	
		Time continue otherce, N 89° 581 E. L. base does 6.01	
?	40.0	Cor. of Secs. 4 and 5, T 11 N, R 13 W, G & S R XXX M	
	300.0	North endocenter; eatmound, of rocks; 3 ft. basey 3 ft. high, agreeing with the north end center of the location	
rati	450 0		
F		Cor. No. 2: Li ni recont al La , 70 te note at	
- 08		Identical with Cor., No. 1 of the Chapin, No. 4 lode of	1
		this survey	
		thence S 0° 02 E	
	170.0	Cross gulch, 20 feet, wide, sourse southeasterly	
	1500.0	Cor. No. 3 Janes and Janes By Maria Con Co. 248	

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. 19	feet	Identical with Cor. No. 4 of the Chapin No. 4 lode of this survey
		thence S 89° 58' W
		South end center, a mound of rocks, 3 ft. base, 3 ft. high, agreeing with the south end center of the location
	600.0	Cor. No. 4 Moinwhell ; vevius aid:
74.R		Identical with Cor. No. 2 of the Chapin No. 6 lode of this survey, the N. W. Cor. of the Lake No. 4 lode and the N. E. Cor. of the Lake No. 5 lode, both unsurveyed,
	lode of	An iron pipe, 2 1/2 inches in diameter, 4 feet long, set 18 inches in the ground in a mound of rocks, for Cor. No. 4, an iron cap on top mkd. C5-4-4209; C6-2-4209; no bearings available
		thence N 0° 02' W varante 1861
	1500.0	Cor. No. 1 and place of beginning.
		CHAPIN NO. 6
-	and it	Beginning at Cor. No. 1 of the Chapin No. 6 lode
		Identical with Cor. No. 1 of the Chapin No. 5 lode of this survey
	to chof	6 . I signif otherce S. 0° 02; E . Lorenza
		Cor. No. 2
4000	83901 80 (803)	Identical with Cor. No. 4 of the Chapin No. 5 lode of this survey
	300.0	South end center, a mound of rocks, 3 ft. base, 3 ft. high, agreeing with the south end center of the location
	to ebol	Cor. No. 3  Identical with Cor. No.2 of the Chapin No. 7 lode of this survey
1		An iron pipe, 2 1/2 inches in diameter, 4 feet long, set 18 inches in the ground in a mound of rocks, for Cor. No. 3; an iron cap on top, mkd. C6-3-4209; C7-2-4209; no bearings available
ode Sr		Cor. No. 4
	.fl b	Identical with Cor. No. 1 of the Chapin No. 7 lode of this survey,
		An iron pipe, 2 1/2 inches in diameter, 4 feet long, set 18 inches in the ground in a mound of rocks for Cor. No. 4; an iron cap on top mkd. C6-4-4209; C7-1-4209; no bearings available
		thence S 89° 56' E
	OF THE RESERVE	North end center, a mound of rocks, 3 ft. base, 3 ft. high, agreeing with the north end center of the location

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		MINERAL SURVEY NO. 4209 - Arizona	
1	590.00 600.0	Witness Corner to Cors.1, Chapin No.5 and Chapin No.6 lodes Cor. No. 1 and place of beginning. of this survey.	, both
	000.0		
		CHAPIN NO. 7	
	atura	Beginning at Cor. No. 1 of the Chapin No. 7 lode.	
		Identical with Cor. No. 4 of the Chapin No. 6 lode of this survey; from which	
	to abo Ma Bas beyse	The Cor. of Secs. 32 and 33, T 12 N, R 13 W, G & S R 28 M, previously described; bears S 89 56 E 600.0	
49	CONTRACTOR OF THE PARTY OF THE	thence S 0° 02' E	
-	1500:0	Cor. No. 2	
		Identical with Cor. No. 3 of the Chapin No. 6 lode of this survey	
		• 1 thence N 89° 56' W	
1	130.0	Cross road, 10 feet wide, course southerly	
	300.0	South end center, a mound of rocks, 3 ft. base, 3 ft. high, agreeing with the south end center of the loca-	
	1 050		•
	600.0	Cor. No. 3	
		Identical with Cor. No. 3 of the Chapin No. 8 lode of this survey	
	\$0 01.0	An iron pipe, 2 1/2 inches in diameter, 4 feet long, set 18 inches in the ground in a mound of rocks, for Cor. No. 3, an iron cap on top mkd. C7-3-4209; C8-3-4209; no bearings available	
		thence N 0° 02' W	
	495.0	i and a second court esteriv	
		Point for	
14	17 To ab	point for Identical with Cor. No. 2 of the Chapin No. 8 lode of	
72	anol a	This corner is situated on the side of an almost ver-	
	24-8-70	to set a corner here of 56 E. 5.7 ft.  Witness corner bears N. 89 56 E from true corner point thence S 89 56 E from true corner point	
	5.3	Witness corner for Cor. No. 4, an iron pipe, 2 1/2 inch in diameter, 4 feet long, set 18 inches in the ground to bed rock, in a mound of rocks, iron cap on top, Mkd. WC C7-4-4209; C8-2-4209;	es
	20 000	of rocks 3 ft. hase. 3 ft.	
	300.0	high, agreeing with the north end center of the	
1	- 600.0	Cor. No. 1 and place of beginning.	
		CHAPIN NO. 8	
1	1.452	Beginning at Cor. No. 1 of the Chapin No. 8 lode,	
	XO. CH	Identical with Cor. No. 2 of the Chapin No. 9 lode of	Ay East

Identical with Cor. No. 2 of the Chapin No. 9 lode of

9		MINERAL SURVEY NO. 4209 - Arizona.	5
	feet	The state of the s	
		this survey	
	le . 10 lod	from which	
tes Te		Asce M, bears N 89° 56' W 794.0 ft. dist.; an iron post, 1 inch in diameter, 18 inches above the	
		thence S 89° 56' E Cross road, 10 feet wide, course southerly	
	300.0	North end center, a mound of rocks, 3 ft. base, 3 ft. high agreeing with the north end center of the location	,
	587 .6	Witness Corner for Cor. No. 2: 100 100	1
		A basalt ledge, 67x74 inches, 25 inches above ground, mkd. wC x C8-2-4209; C7-4-4209; from which	
	lode ef	A mound of rocks 3 ft. hase 4 ft high hears couth-	
	600.0	Boint for Cor. No. 2,	
		Identical with Cor. No. 4 of the Chapin No. 7 lode of this survey	
	lode of	thence S 0° 02' E	
	1005.0	Cross road, 10 ft. wide, course southeasterly	
	1500.0	Cor. No. 3 , siega to honor a , wakers bee dices 0,002	
	enisso.	Identical with Cor. No. 3 of the Chapin No. 7 lode of this survey	
	ber ar .	thence N 89° 56' W	
120	gdol se	South end center, identical with the N. W. Cor. of the Lake No. 5 lode and the N. E. Cor. of the Lake No. 11 lode, both unsurveyed, and agreeing with the south end center of the location	
		An iron pipe, 2 1/2 inches in diameter, 4 ft. long, set 18 inches in the ground in a mound of rocks, iron cap on top mkd. SEC-C8-4209	
	600.0	Cor. No. 4 . desured to sould brail . W . 100   0.0081	
		Identical with Cor. No. 3 of the Chapin No. 9 lode of this survey	
**	ole .,R.13 w Loče of	an iron pipe, 2 1/2 inches in diameter, 4 feet long, set 18 inches in the ground in a mound of rocks, for Cor. No. 4, an iron cap on top mkd. C8-4-4209; C9-3-4209; no bearings available.	
		thence N 0° 024 W	
230	1500.0	Cor. No. 1 and place of beginning.	
		9,02,103 0.000	

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MINERAL	SURVEY	NO.	4209	dest	arizona

		MINERAL SURVEY NO. 4209 - Arizona 6	
	feet	CHAPIN NO. 9	
		Parinning of Com No 1 of the Chemin No O lode	
O 14 300	id tota id tota id = 8-18	Identical with the N. E. Cor. of the Chapin No. 10 lode unsurveyed	
	8	An iron pipe, 2 1/2 inches in diameter, 4 feet long, set 18 inches in the ground in a mound of rocks, for Cor. No. 1, an iron cap on top mkd. C9-1-4209; from which	
	, alook Laloinio	The vertical face of a basalt ledge 31x59 inches; 61 inches high, bears N 89° 56' W 2.65 ft., mkd. BR x C9-1-4209	
		The North Sec. Cor. of Sec. 5, T 11 N, R 13 W, G & S R XXX M, previously described bears N 89 56 W 194.0 ft. dist.	
ų.į	d .et E	thence S 89° 56' E	
	300.0	high, agreeing with the north end center of the loca-	
	600.0	Cor. No. 2	
	ra seuvi	Identical with Cor. No. 1 of the Chapin No. 8 lode of this survey	
		thence S 0° 02° E	
	1500.0	Cor. No. 3	
		Identical with Cor. No. 4 of the Chapin No. 8 lode of this survey	
		thence N 89° 56' W	
	300.0	South end center, a mound of rocks, 3 ft. base, 3 ft. high, agreeing with the south end center of location	
	600.0	Cor. No. 4	
		Identical with the S. E. Cor. of the Chapin No. 10 lode unsurveyed	Section 1. Comments of
	LL ACL	An iron pipe, 2 1/2 inches in diameter, 4 feet long, set 18 inches in the ground in a mound of rocks, for Cor. No. 4, an iron cap on top mkd. C9-4-4209; no	Company of the last
16	o moi	thence N_0°_02' W	
		CHAPIN NO. 15	
0.50	,	Beginning at Cor. No. 1 of the Chapin No. 15 lode Identical with the Cor. of Secs. 32 and 33, T.12N., R.13 W., G&SRM. and with Cor. No. 1 of the Chapin No. 5 lode of this survey	
		thence N 0° 02' W	
	300.0	West end center, a mound of rocks, 3 ft. base, 3 ft. high agreeing with the west end center of the location	
	600.0	Cor. No. 2	

feet	Identical with Cor. No. 1 of the Chapin No. 16 lode of this survey
d it a	An iron pipe, 2 1/2 inches in diameter, 4 feet long, set 18 inches in the ground in a mound of rocks, for Cor.
lode of	No. 2, an iron cap on top mkd. C15-2-4209; C16-1-4209; no bearings available
	thence N 89° 58' E
370.0	Cross gulch, 20 feet wide, course southerly
410.0	Cross road, 10 feet wide, course southerly
1500.0	Cor. No. 3
	Identical with Cor. No. 4 of the Chapin No. 16 lode of this survey
lide of	An iron pipe, 2 1/2 inches in diameter, 4 feet long, set 18 inches in the ground in a mound of rocks, for Cor. No. 3, an iron cap on top mkd. C15-3-4209; C16-4-4209; no bearings available
	thence S 0° 02' E
300.0	East end center, a mound of rocks, 3 ft. base, 3 ft. high, agreeing with the east end center of the location
600.0	Cor. No. 4. on line between Secs. 4 and 33, Ts. 11 and 12 N., R. 13 W., G.& S.R.M.  Identical with the S. W. Cor. of the Chapin No. 21 lode, unsurveyed
tten	An iron pipe, 2 1/2 inches in diameter, 4 feet long, set 18 inches in the ground in a mound of rocks, for Cor. No. 4, an iron cap on top mkd. C15-4-4209; no bearings
lode of	thence S 89° 58' W
500.0	
	Cor. No. 2 of the Chapin No. 4 lode of this survey
	North end center of the Chapin No. 4 lode of this survey
The state of the state of	cross road, to feet wide, course southeasterly
900.0	Cor. No. 1 of the Chapin No. 4 lode and Cor. No. 2 of the Chapin No. 5 lode, both of this survey
1050,0	Cross gulch, 20 feet wide, course southeasterly
	North end center of the Chapin No. 5 lode of this survey
1460.0	Cor. of Secs. 4 and 5, T 11 N, R 13 W, G & S R Bas M
1500.0	Cor. No. 1 and place of beginning.
-9-910 0 404	CHAPIN NO. 16
U.S. A. S. M.	Beginning at Cor. No. 1 of the Chapin No. 16 lode
en ino ercurd nerked	Identical with Cor. No. 2 of the Chapin No. 15 lode of this survey; from which
topat D	The Cor. of Secs. 32 and 33, T 12 N. R 13 W, G & S R Track M, previously described, bears S 0° 02' E 600,0 ft. dist.
	855.0 Cross (wich, 10 feet wide, course moretage

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79		MINERAL SURVEY NO. 4209 - Arizona. 8	
	feet	thence N 0° 02' W	
100	300.0	West end center, a mound of rocks, 3 ft. base, 3 ft. high, agreeing with the west end center of the location	
. 90	0.600.0	Cor. No. 2	
		Identical with Cor. No. 4 of the Chapin No. 17 lode of this survey	
		An iron pipe, 2 1/2 inches in diameter, 4 ft. long, set 18 inches in the ground in a mound of rocks for Cor. No. 2, an iron cap on top mkd. Cl6-2-4209; Cl7-4-4209, no bearings available	
		thence N 89° 58' E	
	580.0	Cross gulch, 20 ft. wide, course southerly	
	605.0	Cross road, 10 feet wide, course southerly	
-2.	1500.0	Cor. No. 3	
		Identical with Cor. No. 3 of the Chapin No. 17 lode of this survey ,	
q	id .31 c	an iron pipe, 2 1/2 inches in diameter, 4 feet long, set 18 inches in the ground in a mound of rocks, for Cor. No. 3, an iron cap on top mkd. C16-3-4209; C17-3-4209; no bearings available	
	ens it	thence S 0° 02' E	
133	300.0	East end center, a mound of rocks, 3 ft. base, 3 ft. high, agreeing with the east end center of the location	•
2.54	600.0	Cor. No. 4	
		Identical with Cor. No. 3 of the Chapin No15 lode of this survey	
	A CO	thence S 89 58' W	
	1090.0	Cross road, 10 feet wide, course southerly	
	1130.0	Cross gulch 20 feet wide, course southerly	
9	1500.0	Cor. No. 1 and place of beginning.	
		vironaenine estro CHAPIN NO. 17	
	GFYDS A.	Beginning at Cor. No. 1 of the Chapin No. 17 lode	
	li ant	Identical with Cor. No. 4 of the Chapin No. 18 lode of this survey	
		An iron pipe, 2 1/2 inches in diameter, 4 feet long, set 18 inches in the ground in a mound of rocks, for Cor. No. 1, an iron cap on top mkd. C17-1-4209; C18-4-4209; from which	
ald	10 300.	The 1/4 Cor. between Secs. 32 and 33, T 12 N, R 13 W, G & S R *** M bears N 02' W 840.0 ft., an iron post, 1 inch in diameter, 18 inches above ground firmly set in ground and mound of stone, marked and witnessed as described in the official record.	9
730	.31 0.0	thence N 89°058' E	
		Cross gulch, 15 feet wide, course southerly	

		MINIMAL BOTTVET NO. 4205 - ALTZOIR
	feet	Tortura eldi.
	750.0	Cross road, 10 feet wide, course southerly
Di.	1500.0	Cor. No. 2
		Identical with Cor. No. 3 of the Chapin No. 18 lode of this survey
	3 -di 8 mol7	An iron pipe, 2 1/2 inches in diameter, 4 feet long, set 18 inches in the ground in a mound of rocks, for Cor. No. 2, an iron cap on top mkd. C17-2-4209; C18-3-4209; no bearings available
	to spor	thence S 0° 028 E
	300.0	East end center, an iron pipe, 2 1/2 inches in diameter, 4 feet long, set 18 inches in the ground in a mound of rocks, an iron cap on top mkd. C17-EEC-4209; identical with the S. W. Cor. of the Chapin No. 23 lode and the N. W. Cor. of the Chapin No. 21 lode, both unsurveyed, and agreeing with the east end center of the location
	600.0	Cor. No. 3
	lode of	Identical with Cor. No. 3 of the Chapin No. 16 lode of this survey
		thence S 89° 58' W
	895.0	Cross road, 10 feet wide, course southerly
	920.0	Cross gulch, 20 feet wide, course southerly
	1500.0	Cor. No. 4 . Talaniyed to engla and J , too 0.003
		Identical with Cor. No. 2 of the Chapin No. 16 lode of this survey
	951	thence N 0° 02' W
	300.0	West end center, a mound of rocks 3 ft. base, 3 ft. high, agreeing with the west end center of the location
	600.0	Cor. No. 1 and place of beginning.
	2	CHAPIN NO. 18 MONTH O. 189
	a (4.	Beginning at Cor. No. 1 of the Chapin No. 18 lode
		Identical with Cor. No. 1 of the Chapin No. 19 lode of this survey
	lode of	set 18 inches in the ground in a mound of rocks, for
12/	The man will be sent	C19-1-4209; 110m Which
		The 1/4 Cor. between Secs. 52 and 33, T 12 N, R 13 W, G & S R RX M, previously described, bears N 0° 02' W 240.0 ft, dist.
		thence N 89° 58' E
	AND THE PROPERTY OF THE PERSON	Cross gulch, 15 feet wide, course southerly
	555.0	Cross road, 10 feet wide, course southerly
	1500.0	Cor. No. 2
	Sec . Cure S	Identical with Cor. No. 4 of the Chapin No. 19 lode of

feet	MINERAL SURVEY NO. 4209 - Arîzona 10
1660	this survey
to baci	An iron pipe, 21/2 inches in diameter, 4 feet long, set 18 inches in the ground in a mound of rocks, for Cor. No. 2, an iron cap on top mkd. C18-2-4209; C19-4-4209; no bearings available
	thence S 0° 02' E
300.0	East end center, a mound of rocks, 3 ft. base, 3 ft. high, agreeing with the east end center of the location
600.0	Cor. No. 3,
med etan 1.1	Identical with Cor. No. 2 of the Chapin No. 17 lode of this survey
e fillen egatmata	thence S 89° 58° W
750.0	Cross road, 10 feet wide, course southerly
845.0	Cross gulch, 15 feet wide, course southerly
1500.0	Cor. No. 4
in self	Identical with Cor. No. 1 of the Chapin No. 17 lode of this survey
	thence N 0° 02' W
300.0	West end center, a mound of rocks 3 ft. base, 3 ft. high, agreeing with the west end center of the location
600.0	Cor. No. 1 and place of beginning.
to obci	CHAPIN NO. 19
	Beginning at Cor. No. 1 of the Chapin No. 19 lode
3.1 . 1 T	Identical with Cor. No. 1 of the Chapin No. 18 lode of this survey
	Sec. Sec.
240.0	The 1/4 Cor. between Secs. 32 and 33, T 12 N, R 13 W, G & S R ** M
300.0	West end center, a mound of rocks, 3 ft. base, 3 ft. high agreeing with the west end center of the location
600.0	Cor. No. 2
i dest	Identical with Cor. No. 1 of the Chapin No. 20 lode of this survey
	an iron pipe, 2 1/2 inches in diameter, 4 feet long, set 18 inches in the ground in a mound of rocks, for
OF TO	Cor. No. 2, an iron cap on top mkd. C19-2-4209: C20-1-4209; no bearings available
	thence N 89° 58° E
260.0	Cross gulch, 15 feet wide, course southeasterly
290.0	
1500.0	Cor. No. 3
	Identical with Cor. No. 4 of the Chapin No. 20 lode of this survey, and the N. W. Cor. of the Chapin No. 23

		MINERAL SURVEY NO. 4209 - Arizona 11
	feet	lode, unsurveyed was a sound
		An iron pipe, 2 1/2 inches in diameter, 4 feet long, set 18 inches in the ground in a mound of rocks, for Cor. No. 3, an iron cap on top mkd. C19-3-4209; C20-4-4209; no bearings available
		thence S 0° 02' E
	300.0	East end center, a mound of rocks, 3 ft. base, 3 ft. high, agreeing with the east end center of the location
1	600.0	Cor. No. 4 Mey car to sented Tendents out
er	t mort i	Identical with Cor. No. 2 of the Chapin No. 18 lode of this survey
	V. 190	thence S 89° 58° W
	945.0	Cross road, 10 feet wide, course southerly
	Water and the second second	Cross gulch, 15 feet wide, course southerly
	1500.0	Cor. No. 'I and place of beginning.
	¥7 19.0	CHAPIN NO. 20
	W 120	Beginning at Cor. No. 1 of the Chapin No. 20 lode
	180	Identical with Cor. No. 2 of the Chapin No. 19 lode of this survey; from which
	183 °06	The 1/4 Cor. between Secs. 32 and 33, T 12 N, R 13 W, G & S R Total M, previously described, bears S 0° 02' E 360.0 ft. dist.
	198 090	thence N 0°02; W
	150.0	Cross gulch, 15 feet wide, course southeasterly
	240.0	Cross road, 8 feet wide, course southeasterly
	300.0	West end center, a mound of rocks, 3 ft. base, 3 ft. high, agreeing with the west end center of the location
	600.0	Cor. No. 2, on line between Secs. 32 and 33, T.12 N., R.13 W., G. & S.R.M.
3	/88 °68	An iron pipe, 2 1/2 inches in diameter, 4 feet lomg, set 18 inches in the ground in a mound of rocks, for Cor. No. 2, an iron cap on top mkd. C20-2-4209; no bearings available
		thence N 89° 58' E
	1500,0	Cor. No. 31 elel a , on right , sera days .
	ation of	An iron pipe, 2-1/2 inches in diameter, 4 feet long, set 18 inches in the ground in a mound of rocks, for Cor.
	139.08	No. 3, an iron cap on top mkd. C20-3-4209; no bearings available
	1, 2	thence S 0° 02° E
	300.0	East end center, a mound of rocks, 3 ft. base, 3 ft. high
	.600.0	Cor. No. 4 poet de los companys parte in the
	100.00	
	12/2/2014	

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-	3	MINERAL SURVEY NO. 4209 - Arizona	1
	feet	thence S 89° 58' W	
	1210.0	Cross road, 8 feet wide, course southeasterly	
	1240.0	Cross gulch, 15 feet wide, course southeasterly	
	1500.0	Cor. No. 1 and place of beginning.	
	if it i	LODE LINES	
	To eboi	The presumed course of the vein of each of the several lode locations embraced in this survey, counted from the respective points of discovery, is as follows:-	
		Chapin No. 4 lode, S 0° 02' E 40 ft., and N 0° 02' W 1460 ft.	
		Chapin No. 5 lode, S 0° 02' E 50 ft., and N 0° 02' W 1450 ft.	
		Chapin No. 6 lode, S 0° 02' E 15 ft., and N 0° 02' W 1485 ft.	
		Chapin No. 7 lode, S 0° 02' E 35 ft., and N 0° 02' W 1465 ft.	
	no wasi	Chapin No. 8 lode, S 0° 02' E 45 ft., and N 0° 02' W 1455 ft.	
,		Chapin No. 9 lode, S 0° 02' E 75 ft., and N 0° 02' W 1425 ft.	
	30 °0 e	Chapin No. 15 lode, S 89° 58' W 90 ft., and N 89° 58' E 1400 ft.	
		Chapin No. 16 lode, S 89° 58' W 490 ft., and N 89° 58' E 1010 ft.	
		Chapin No. 17 lode, N 89° 58' E 468 ft., and S 89° 58' W 1032 ft.	Ī
	A CAROLINA	Chapin No. 18 lode, N 89° 58' E 86 ft., and S 89° 58' W 1414 ft.	
	9	Chapin No. 19 lode, N 89° 58' E 550 ft., and S 89° 58' W 950 ft.	1
-	TOU TO T	Chapin No. 20 lode, S 89° 58' W 300 ft., and N 89° 58' E	1 2
		AREAS	
		Total area, Chapin No. 4 lode 20.661	
1	long, of	Total area, Chapin No. 5 lode 20.661	
	altered o	Total area, Chapin No. 6 lode 20.661	
		Total area, Chapin No. 7 lode 20.661	
		Total area Chapin No. 8 lode 20.661	
	I . To La	Total area, Chapin No. 9 lode 20.661	
		Total area, Chapin No. 15 lode 20.661	
		To dat at out	

Total area, Chapin No. 16 lode - - - - 20.661

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MINIPOAT CUDITEV NO 4200 Anigone		
MINERAL SURVEY NO. 4209 - Arizona		13
Total area, Chapin No. 17 lode	acres 20.661	
Total area, Chapin No. 18 lode,	20.661	
Total area, Chapin No. 19 lode	20.661	
Total area, Chapin No. 20 lode	20.661	
The cation of th		
This survey is located in the Wxl/2xoxxx W l Sec. 33, T 12 N, R 13 W; 'the NW 1/4 of Sec. 4 an NE 1/4 of Sec. 5, T 11 N, R 13 W, G & S R Ext M,	o one	a.
The survey of each of the lode locations of the is identical with the original location as marke	is surved on the	ey
A DO NO 22 35 NO TATIONARY AND ARREST OF THE	1 .0%	
EXPENDITURE OF \$500		
I certify that the value of the labor and impr made upon or for the benefit of each of the lode tions embraced in said mining claim by the claim its grantors is not less than \$500, and that sai provements consist of:-	ant or	S
The discovery shaft of the Chapin No. 4 lode, the of which being the discovery point is on the cline 40 ft. from the south end center, 4x6 ft. deep  Value \$50	enter	
an open cut; the mouth of which bears N 23° 30' from the south end center of the Chapin No. 4 4 ft. wide, 9 ft. face running North 10 ft. to Value \$50	Loge:	
The discovery shaft of the Chapin No. 5 lode, the of which being the discovery point is on the cline 50 ft. from the south end center; 4x6 ft. deep.  Value \$60	enter , 10 ft	
The discovery cut of the Chapin No. 6 lode, the which being the discovery point is on the cent 15 ft, from the south end center; 4 feet wide, face, running N 75° W 14 ft. to face Value \$ 80	ter line	)
The discovery cut of the Chapin No. 7 lode, the which being the discovery point is on the cent 35 ft. from the south end center; 4 ft. wide, face, running N 45° E 14 ft. to face; at face 4x6 ft. 2 ft. deep Value \$55	er Tine	3
The discovery shaft of the Chapin No. 8 lode, the of which being the discovery point is on the cline 45 ft, from the south end center; 4x6 ft. deep  Value \$50	center	
	he cont	277
The discovery shaft of the Chapin No. 9 lode, the of which being the discovery point is on the line 75 ft. from the south end center; 4x6 ft.	center	
deep Value \$50		

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The discovery cut of the Chapin No. 15 lode, the face of

E		MINERAL BURVET NO. 4209 - AFTZORS.	#
	1963 - 1363 1963 - 1363 1965 - 29 1969 - 142	which being the discovery point is on the center line 90 ft. from the west end center; 4 ft. wide, 8 ft. fe running West 14 ft. to face Value \$50	
	No. 1	The discovery cut of the Chapin No. 16 lode, the face which being the discovery point is on the center line 490 ft. from the west end center; 5 ft. wide, 10 ft. face, running South 15 ft. to face  Value \$60	of e
	No. 2	A diamond drill hole, the center of which bears from Co No. 1 of the Chapin No. 16 hode, N 67° 18' E 540 ft. 504 ft. deep. This drill hole is listed further on under common improvements Value \$3780	or.
	No. 1	The discovery shaft of the Chapin No. 17 lode, the cent of which being the discovery point is on the center line 468 ft. from the east end center; 5x6 ft., 60 ft deep.  This shaft is listed further on und common improvements	t.
	-asol a	Value \$830. ft.	
I	No. 2	An open cut, the mouth of which bears \$ 73° 30' W 285 from the east end center of the Chapin No. 17 lode; 7 ft. wide, 7 ft. face, running South 6 ft. to face; at face is tunnel 5x6 ft. running South 7 ft. to breather.	
3	No. 3	An open cut, the mouth of which bears North 10 ft. from point on the center line 530 ft. from the west end confidence of the Chapin No. 17 lode; 4 ft. wide, 7 ft. face, running N 70° W 8 ft. to face  Value \$30	n enter
	No. 4	an open cut, the mouth of which bears South 15 ft. from same point, 4 ft. wide, 5 ft. face, running N 70° W 8 ft. to face  Value \$20	n
	No. 5	A tunnel, the mouth of which bears South 30 ft. from se point, 4x6 ft. running N 70° W 15 ft. to face Value \$100	ame
0	No. 1	The discovery cut of the Chapin No. 18 lode, the face which being the discovery point is on the center line 86 ft. from the east end center; 4 ft. wide, 10 ft. face, running East 14 ft. to face  Value \$70	of e
the second of	No. 1	The discovery cut of the Chapin No. 19 lode, the face which being the discovery point is on the center line 550 ft. from the east end center; 4 ft. wide, 10 ft. face, running East 14 ft. to face Value \$70	8
1	No. 2	A wut, the mouth of which bears S 41° w 135 ft. from Co No. 3 of the Chapin No. 19 lode; 5 ft. wide, 8 ft. for running S 70° w 14 ft. to face Value \$70	ace
	No. 3	A shaft, the center of which bears N 81° 15° E 410 ft. from Cor. No. 1 of the Chapin No. 19 lode; 7x10 ft., 134 ft. deep, timbered throughout. The value of this shaft is listed under common improvements further on Value \$4690	S
2	No. 4	An open cut, the mouth of which bears N 79° 50' E 510 from Cor. Nol of the Chapin No. 19 lode; 5 ft. wid	ft. e,

14 ft. face, running S 66° W 25 ft. to face; at face is tunnel 4x6 ft. running S 66° W 76 ft. to breast; at breast of tunnel is crosscut 4x8 ft., running N 24° W 9 ft. to shaft. The value of this improvement is listed under common improvements, further on. Value \$1010

No. 1 The discovery cut of the Chapin No. 20 lode, the face of which being the discovery point is on the center line 500 ft. from the west end center; 4 ft. wide, 10 ft. face, running East 14 ft. to face

Value 570.

### COMMON IMPROVEMENTS.

The ore-deposit covered by this group of claims is a large blanket deposit of low-grade manganese ore. The deposit consists of several nearly horizontal beds, one below the other. One of the beds is exposed along the west side of the main gulch that runs north and south through part of the group. The drill holes and the shafts and tunnel have proved that these beds are continuous and underlie the whole of the property. For this reason the improvements on this group have been concentrated in the drill hole, tunnel and shafts being the most feasible both practically and economically, method to develop the ore bodies. Buch time and money has been spent in developing a metallurgical process to sucessfully recover the low grade values. See topographic map herewith.

For this reason the value of No.2, drill hole, on the

Chapin No. 16 lode, No.), shaft on the Chapin No. 17 lode, and No. 3 & 4, tunnel and shaft, on the Chapin No. 19 lode, have been considered as a common improvement and the total value allotted to this group, of which a 1/12 is allotted to each claim of this survey.

Value of improvement No.2, Chapin No.16 lode, \$3780.

Value of improvement No.1, Chapin No.17 lode 830

Value of improvement No.3 Chapin No.10 lode.

Value of improvement No.3, Chapin No.19 lode Value of improvement No.4, Chapin No.19 lode 4690. 1010.

> Total Value \$10,310.

Value of a 1/12 interest \$ 859.20 859.20

### OTHER IMPROVIDENTS

An open cut, the mouth of which bears S 48° 30° W 60 ft. from the east end center of the Chapin No. 15 lode; 6 ft. wide, 11 ft. face, running N 70° E, 33 ft. atiface is tunnel 5x6 ft., running N 70° E 7 ft. to breast

An open cut, the mouth of which bears S 82° W 100 ft. from same point, 3 ft. wide, 8 ft. face, running S 63° W 12 ft. to face.

An open cut, the mouth of which bears N 57° W 90 ft. from same point, 5 ft. wide, 9 ft. face, running North 19 ft. toface

An open cut, the mouth of which bears S 66° 10° E 380 ft. from Cor. No. 1 of the Chapin No. 17 lode; 4 ft. wide, 10 ft. face, running N 10° E 21 ft. to face.

An open cut, the mouth of which bears S 74° E 330 ft. from same point, 4 ft. wide, 10 ft. face, running N 74° E 18 ft. to face

An open cut, the mouth of which bears S 15° 13' E 120 ft. from Cor. No. 1 of the Chapin No. 18 lode, 4 ft. wide, 8 ft. face, running N 45° W 26 ft. to face

An open cut, the mouth of which bears N 58° E 240 ft. from Cor. No. 1 of the Chapin No. 19 lode; 5 ft. wide, 8 ft. face, running West 17 ft. to face. No. 1 Che Cisart Care to Tit Desire Line 1 and 1 . and the makes established the state of the LOUIS CONTRACTOR OF THE CONTRA Jerge Markett of Service Markett or . The least of the service Markett or . The least of the markett of the service Markett or . The least of the service Markett or . The least of the service Markett or . The service Mark Aluc of improvement No.3, Charlin No.10 Lode Value of improvement No.3, Anapla No.19 Lode Value of improvement No.4, Charlin No.19 Lode Value of improvement No.4, Charlin No.19 Lode Value of improvement No.4, Charlin No.19 UL-023 [ terrotul [L' ] a to oblave es open cas, to enough of which hears 3 in occur.
Exam the cash end center of the Clamin to. I
will for wide, il for is no enaute of the cash.

So cash of the cash as a constant of the cash. . T OD W a span cot, to meets of which beads sides a some coint, out to view, a the face, teams of the follows. to den cat, the mounts of this search and a cat of the mounts of the state of the search and the state of the search and the s The state of the s Adjoint assistant and the design branch is to the second of the second o

## FINAL OATHS FOR SURVEYS

## LIST OF NAMES

A list of the names of the individuals	employed by Ralph L. M9532
United States Mineral Surveyor, to assist	in running, measuring, and marking the lines, corners, and
boundaries described in the foregoing field ploration Company, known as 6, Chapin No. 7, Chapin No. 16, Chapin No. 17, Chapin No.	notes of the survey of the mining claim of the Chapin No. 4, Chapin No. 5, Chapin No. 8, Chapin No. 9, Chapin No. 15, Chapin No. 18, Chapin No. 19, Chapin No. 20 lodes
and showing the respective capacities in w	hich they acted.
	George Erickson , Chainman.
	, Chainman.
	, Axman.
	, Flagman.
	THS OF ASSISTANTS
We, I, George Erickson	
and	, do solemnly swear that we assisted Ralph L. Motz
, United S	Mineral Surveyor, in marking the corners and surveying
	Chapin Exploration Company, known as the
Chapin No. a, Chapin No. 15,	Chapin No. 6, Chapin No. 7, Chapin No. 8, Chapin No. 16, Chapin No. 17, Chapin No.
known as the 18, Chapin No. 19	, Chapin No. 20 lodes
represented in the foregoing field notes as	having been surveyed by said mineral surveyor and under his
direction, and that said summer has been in	all respects to the best of annimorphological heliaf faithfully
direction; and that said survey has been in	all respects, to the best of our knowledge and belief, faithfully
and correctly executed, and the corner and be	oundary monuments established according to law and the instruc-
tions furnished by the Office Cadastral Engi	neer, at Phoenix, Arizona.
	Grande Chairman.
	, Chainman.
	, Axman.
	, Flagman
Subscribed and sworn t	to by the above-named persons before me this8th
day ofMar	<u>ch</u> , <sub>19</sub> 38
	mx much.
	Notary Public, in and for the
	Bounty of Cochise, State of Arizona.

# DEPARTMENT OF THE INTERIOR GENERAL LAND OFFICE

## FINAL OATH OF HAS MINERAL SURVEYOR

I, Ralph L. Motz , XXXXX Mineral Surveyor,
do solemnly swear that, in pursuance of instructions received from the Office Cadastral
Engineer, at Phoenix, Arizona, dated February 3, 1938,
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 Chapin
Exploration Company, known as the Chapin No. 4, Chapin No. 5, Chapin No. 6the
Chapin No. 7, Chapin No. 8, Chapin No. 9, Chapin No. 15, Chapin No. 16, Chapin No. 17, Chapin No. 18, Chapin No. 19, and Chapin No. 20 lodes situate in Owens Mining District,
Mohave County, Arizona , in Section
4 & 5 11 N. 33 , Township No. 12 N , Range No. 13 W. C&SRF.
and designated as Survey No. 4209 , 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 orits
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 in-
cluded in the estimate of expenditures upon any other claim.
Talfal Mineral Surveyor)
Subscribed and sworn to by the said Ralph L. Motz,
UXXX Mineral Surveyor, before me W. H. Miescher, Notary Public
this 8th
day of March 1938  My Grantsten Explore Feb. 3, 1941,  Notary Public, in and for the  County of Coshise, State of Arizona.

# OFFICE CADASTRAL ENGINEER'S FINAL CERTIFICATE ON FIELD NOTES

# Department of the Interior

PUBLIC SURVEY OFFICE

Phoenix, Arizona
Apr 11 18 , 19 38
I, Office Cadastral Engineer at Phoenix, Arizona
do hereby certify that the foregoing transcript of the Field Notes, return and approval of the survey
of the mining claim of Chapin Exploration Company, known as the
Chapin No. 4, Chapin No. 5, Chapin No. 6, Chapin No. 7, Chapin No. 8, Chapin No. 9, Chapin No. 15, Chapin No. 16, Chapin No. 17, Chapin No. 18, Chapin No. 19, and Chapin No. 20 lode
situate inQwens
Mining District Mohaye County Arizona in Section 8 33 , Township No. 12 N., Range No. 13 W., G. & S.R. M., and
designated as Survey No. 4209 , has been correctly copied from the originals on file in
this office; that said Field Notes furnish such an accurate description of said mining claim as will, if
incorporated into a patent, serve fully to identify the premises, and that such reference is made therein
to natural objects or permanent monuments as will perpetuate and fix the locus thereof.
I further certify that Five Hundred Dollars worth of labor has been expended or improvements
made upon, or for the benefit of, each location embraced in said mining claim by claimant
or <u>its</u> grantors,
and that said improvements consist of 7 shafts, 12 cuts, 3 tunnels, 1 cross-
gut and 1 drill hole, total value \$11,240. Improvements No.2
on the Chapin No. 16 lode, No. 1 on the Chapin No. 17, and Nos.
3 and 4 on the Chapin No. 19 lode, form a system of common im-
provements for the benefit and development of this entire group
and a 1-12 interest therein, value \$859.20, is properly oredited
to each claim in this survey.
and that no portion of said labor or improvements has been included in the estimate of expenditures
upon any other claim.
I further certify that the plat thereof, filed in the U.S. Land Office at Phoenix,
Ar 120m is correct and in conformity with the foregoing Field Notes.
Shorman C. Fiske Office Cadastral Engineer.
-y

# CERTIFICATE OF APPROVAL OF FIELD NOTES AND SURVEY OF MINING CLAIM

## DEPARTMENT OF THE INTERIOR

PUBLIC SURVEY OFFICE

At Phoenix, Arizona
April 18 , 19:38
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
Chapin Exploration Company
Chapin No. 4, Chapin No. 5, Chapin No. 6, Chapin No. 7, Chapin No. 8, Chapin No. 9, Chapin No. 15, Chapin No. 16, Chapin No. 17, Chapin No. 18, Chapin No. 19, and Chapin No. 20 lodes situate in Owens mining district,
Mohave County, Arizona
11 N., in Sections 33 Township No. 12 N. , Range No. 13 W., G.& S.R.
, designated as Survey No. 4209
executed by
Surveyor, February 6 - 13 , 1938, under my instructions dated
Fe bruary 3, , 1938, 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.
Shirman & Fisher Office Cadastral Engineer.