MINERAL SURVEY	No.	4167
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ARIZONA Land District

FIELD NOTES	
OF THE SURVEY OF THE MINING CLAIM	OF
Western Copper & Mining Co.	
KNOWN AS THE Detroit No. 4, Detroit No. 14, Detroit No. 15 Detroit No. 17, Detroit No. 18, Detroit No. 1 Detroit No. 21, Detroit No. 22, Detroit No. 2 Detroit No. 25, Detroit No. 26 Greenlee Gold Mountain	9, Detroit No. 20 3, Detroit No. 24
Greenlee County, Arizon 13, 14, Sections 15, 23, Township 4 S, H	
Surveyed under instructions dated August 9,	
By Relph L. Mo	U. S. Mineral Surveyor.
Claim located	, 19
Survey commenced Nowember 1,	, 19 33
Survey completed November 15.	, 19 33
Address of claimant's attorney, Cleon To	. Knapp, 1. Nat. Bank. Bldg., cson, Arizona.
DATES OF AMENDED LOCATIONS	COOR, AIIZORA.
March 7, 9, 10 and 24, 1931	
6—822	U R. GOVERNMENT PRINTING OFFICE: 1827
Supplemental Field Notes approved June pertaining to Detroit No. 1. Detroit No. 26 lodes, and Areas, are attached	15, and
Delluit No. 20 1000), Som theas, are at tache	g sierelo,

Feet

Mineral Survey No. 4167 was made with a Gurley & Sons 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 minute of arc; the eye piece is equipped with a prismatic eye piece with colored glass slide for making direct observations upon the sun. The instrument was in good condition at the time of survey and all adjustments were in good order. An a.m. altitude observation of the sun for time and azimuth, and at noon on the meridian for latitude, were made at Cor. No. 2 of the Detroit No. 18 lode, the details of which observations are shown in the calculation sheets herewith submitted for examination.

neridian thus determined, by the method of deflection angles and calculated courses.

The lines were measured with a Lufkin steel tape, 150 feet in length, graduated to feet, tenths and hundred the for entire length; a Kueffel & Esser steel tape, 300 feet in length, graduated to feet, tenths and hundred the for entire length; and a Lufkin steel tape, 25 feet in length, graduated to feet, inches and fractions of inches for entire length. All tapes were compared with a Lufkin standard at the time of beginning the survey, and found correct.

All lines and connections of this survey were run by

DETROIT NO. 24

evods and Setla granite rock 26x9x5 ins., l6 inches in the bearing, for Cor. No. 1, marked D24-1-4167; D26-1-4167

Identical with Cor. No. 1 of the Detroit No. 26 lode of this survey; from which

A pine post 4 feet long, 4 inches square set 18 inches in the ground in a mound of rocks, bears S 52° 53' W 5.0 ft.

.old the The West 1/4 Cor. of Sec. 13, T. 4 S, R 29 E, G & S R .tl S. de H B & M; an iron post, lin. diam., 12 inches above ground, firmly set, with brass cap properly marked ent at a doublears, \$ 79° \ 37! E 416.6 ft. dist.

Thence's 52° 53° W

300.0 Original location for the south end center, identical with the north end center of the Detroit No. 26 lode of this survey, being a mound of rocks 3 feet high with 3 feet base

9 498.0, Cooss. gulch, 30 feet wide, course southeasterly

600.0 Cor. No. 2

, ... , ... Identical with Cor. No. 4 of the Detroit No. 26 lode of this survey and with the east end center of the

3 SUBVEY NO. 416V Reet Latnostref

volumetroit No. 23 lode of this survey

Set a granite rock 27x9x4 ins. 17 inches in the ground for Cor. No. 2, marked D24-2-4167; D26-4-4167; EEC-D23-4167; from which

A monument of rocks 3 feet high with 3 feet base bears N 43° 221 W 4.6 ft.

above ground bears N 85° 23' W 4.2 ft., marked BR x D24-2-4167

300.0 Cor. No. 4 of the Detroit No. 223 lode and Cor. No. 1 of the Detroit No. 22 lode, both of this survey

435.0 Cross gulch, 25 feet wide, course southeasterly

600.0 East end center of the Detroit No. 22 lode of this survey

Cor. No. 4 of the Detroit No. 22 lode and Cor. No. 1 of the Detroit No. 4 lode, both of this survey 900.0

East end center of the Detroit No. 4 lode of this survey 1200.0

1500.0 Cor. No. 3

connections of this Identical with Cor. No. 4 of the Detroit No. 4 lode of this survey and situated on line 3-4 of Survey No. 4165 Detroit No. 3 lode

> Set a granite rock 26x7x7 ins., 16 inches in the ground for Cor. No. 3, marked D24-3-4167; D4-4-4167; from which

A pine post, 4 feet logg, 4 inches square set 18 inches in the ground in a mound of rocks, bears N 52° 53° E 6.8 ft.

A granite rock in place 31x38 ins., 41 inches above ground bears S.45.021 E 11.8 ft. dist., marked BR x D24-3-4167

abol 3 . of trouted Thence N 52° 53 0 Ettin Lacitable

Original location for the north end center, being a mound of wocks 3 feet high with 3 feet base

600.0 Cor. No. 4

Situated on line. 3-4 of Survey No. 4165 Detroit No. 3 lode, whence. Cor. No. 3 bears N 52 ° 53 * E 455.2 ft.

Set a granite rock 28x10x7 ins., 18 inches in the ground for Cor. No. 4, marked D24-4-4167; from which

- , A pine post 4 feet long, 4 inches square, set 18 inches in the ground in a mound of rocks bears N 52° 53' E 4.0 ft.
 - A granite ledge 32x4l ins., 10 inches above the ground, bears S 22° 57° E 63.7 ft. dist., marked BR x D24-4-4167
- A granite rock in place 14x15 ins., 13 inches above ground, bears N 47° 38' E 53.7 ft. dist., marked BR x D24-4-4167

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Feet
                                                                                                                                           Doet
                                                   Thence IS 43 H 22. E
 1500.0 Cor. No. 1 and place of beginning.
   Identical with Cor. No. 4 of the Detroit No. 22 lode of this aurvos son Tionrad on line 2-5 of the
                                            survey
     Beginning at Cor. No. 1 of the Detroit No. 26 lode
ngid sedentical with tor No. 1 of the Detroit No. 24 lode ground rock, for Cor. 100 this survey! or Cor. 100 this survey! from which which with the Detroit No. 24 lode cor. 100 this survey!
 A pine post, 4 feet long, 4 inches squere, set 12
   806 0 Cross guich 40 feetawide, course northerly
 1500.0 Cor. No. 2 .. ani 71x8 egoel etiztaup A
Set a quartzite rock 25x8x7 ins set 16 inches in the
                              ground, for Cor. No. 2, marked D26-2-4167; from
A cuertzite ledge 10x51 ins., 67 inches above the
             ... a pine post, 4 feet long, 4 inches square, set 18 inches in the ground in mound of rocks, bears
The West 1/4 Co
                  Original location for the south end center, being a
   300.0
                        mound of stones 3 feet high with 3 feet base
                    202 Cor. Nore gulch, 25 feet wide, course ess gulch, 205
   600.0
                      Set a porphyry rock 28x9x7 ins., 16 inches in the 88
                             ground, for Cor. No. 3, marked D26-3-4167; from
                              which
-3-30 limestone rock in place 13x23 ins., 7 inches above rock in place 13x23 i
       A pine pow, 22 10 25 in the ground in a mound of rocks,
   600.0 Cor. No. 1 of the Detroit No. 25 lode of this survey
   900.0 East end center of the Detroit No. 25 lode of this sur-
  930.0 Cross gulch, 25 feet wide, course easterly
 1200.0 Cor. No. 4 of the Detroit No. 25 lode of this survey, and
                        Cor. No. 1 of the Detroit No.-23 Lode of this survey
                                                      Thence M 45 22' W
 1500.0
                 Cor. No. 4
     lasi ne Identical with Cor. No. 20 of the Detroit No. 24 lode
abol 1 of this survey o reduce the detroit No. 24 lode
about 1 of this survey o reduce the detroit No. 24 lode
about 10 of this survey o reduce the detroit No. 24 lode
                                                   Thence N 52° 53 each fool & diw
   300.0
                  Original location for the north end center, identical
                    with the south end center of the Detroit No. 24 lode of this survey 10 2 . of . 103 driv labitable of the Detroit No. 24 lode of this survey 10 2 . of . 103 driv labitable of the Detroit No. 24 lode of this survey 10 2 . of . 103 driv labitable of the Detroit No. 24 lode
    SULVER
   600.0 Cor. No. 1 and place of beginning. 314 .04
      Set a granite rock 26x9x6 ins., 16 inches in the
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- 3 -

0

Feet

scol as

DETROIT NO. 4

Beginning at Cor. No. 1 of the Detroit No: 4 lode

Identical with Cor. No. 4 of the Detroit No. 22 lode of this survey and situated on line 2-3 of the Detroit No. 24 lode of this survey

Set a quartzite rock 31x7x7 ins., 4 inches in the ground to bed rock, built monument 12 inches high around rock, for Cor. No. 1, marked D4-1-4167; D22-4-4167; from which

A pine post, 4 feet long, 4 inches square, set 12 inches in the ground to bedrock, in a mound of rocks bears S43° 22' E 7.0 ft.

A quartzite ledge 8x17 ins., 19 inches above throun and a ground, bears \$ 2° 33' W 19.20 ft. dist., marked BR x D4-1-4167.

A quartzite redge 10x51 ins., 67 inches above the ground, bears S 53° 57°, E 27.67 ft. dist.,

The West 1/4 Cor. of Sec. 13, T 4 S, R 29 E, G & S R B & M, previously described bears S 76° 18' E 1550,3 ft.

ed retres the druce at to notiseed fariging to the to the to the to the to the total t 500.0 Original Location

Cross gulch, 25 feet wide, course easterly

Cross gulch 15 feet wide, course southeasterly

1500.0 Cor. No. 2

2020

Identical with Cor. No. 3 of the Detroit No. 22 lode; Cor. No. 3 of the Detroit No. 19 lode; Cor. No. 3 of the Detroit No. 14 lode, all of this survey

ground, for Cor. Me. 5, narked

Set, a diorite rock 24x9x6 ins., 16 inches in the ground, for Cor. No. 2, marked D4-2-6167; D22-3-4167; D19-3-4167; D14-3-4167; from which

- A pine post, 4 feet long, 4 inches square, set 18 inches in the ground in a mound of rocks, bears N 43° 22' W 5.3 ft.
- A diorite ledge 12x15 ins., 15 inches above the ground bears N 20° 00' W 21.3 ft. dist., marked BR x D4-2-4167
- A diwrite ledge 7x15 ins., 12 inches above the ground bears N 51° 55 E 10.2 ft. dist., marked BR 2 D4-2-4167

Thence N 43° 22' W .OH . . . O. 0.0031

300.0 Original location for the west end center, identical with the east end center of the Detroit No. 14 lode of this survey, being a mound of rocks 3 feet high with 3 feet base 33 Thence H 52°

600.0 mcor, No. 3 bas dros add tol noitagel langito 0.008

. SA lode

Identical with Cor. No. 2 of the Detroit No. 14 lode of this survey and situated on line 2-3 of Survey No. 4165 Detroit No. 2 lode 5 1 . M . 100 0.000

Set a granite rock 26x9x6 ins., 16 inches in the

Feet	Joel
bears	ground; for Cor. No. 3 marked D4-3-4167; D14-2-4167; from which 1 9.8 W 183 64 M
lode	A pine post, 4 feet long, 4 inches square, set 18 inches in the ground in a mound of rocks bears the big 18 18 18 18 18 18 18 18 18 18 18 18 18
dad oper A tils	A granite rock in place 22x24 ins., 34 inches .of floabove ground, bears N 67° 06° W 45.5 ft. dist.,
	Thence N 52° 53! E
694.2	Cross gulch, 15 feet wide, course southeasterly .208
1055.2	Cor. No. 2 Survey No. 4165 Detroit No. 2 lode and Cor. No. 4 Survey No. 4165 Detroit No. 3 lode
1340.2 1500.0	Cross gulch, 20 feet wide, course southeasterly 4.0M.100 0.0061 4.0M.100 0.0061 5.0M.100 0.0061 Cor. No. 4 vevue sidt
	Identical with Cor. No. 3 of the Detroit No. 24 lode
E	of this survey 200.0 Original location for the east end center, being mound of rocks 22 625 12 1600 2 1600 base
300.0	Original location for the east end center, being a mound of stones 3 feet high with 3 feet base
600.0	Cor. No. 1 and place of beginning.
el	Beginning at Cor. No. 1 of the Detroit No. 23 lo
5 lode	beginning at Cor. No. 1 of the Detroit No. 22 lode
edt ni	Identical with Cor. No. 4 of the Detroit No. 23 lode and of this survey and situated on line 2-3 of the core this survey.
evods as	Set a granite rock 27x7x5 ins., 16 inches in the ground for Cor. No. cl, marked D22-14167; D23-4-
eet 18	.fl The West 1/4 Cor. of Sec. 13, T.4 S, R 29 E, G & S R B & M, previously described, bears N 86°, eneme 224 E1096 4 ft 1 4 , taog and A
	A monument of rocks 3 feet high with 3 feet base bears N 43° 22' W 3.2 ft.
ches	at a guartzite rock in place 15x16 ins., 6 in above Wrt552 08528 spandT 36' W 25.8 ft.,
922.0	Cross gulch, 20 feet wide, course southeasterly
1500.0	Cor. No. 2
No. 4 ey	Identical with Cor. No. 3 of the Detroit No. 23 lode, Cor. No. 3 of the Detroit No. 20 lode, Cor. No. 4 of the Detroit No. 19 lode, all of this survey, Set a diorite rock 25x8x7 ins., 16 inches in the ground, for Cor. No. 2, marked D22-2-4167; D23-3- 4167; D20-3-4167; D19-4-4167; from which A pine post, 4 feet long, 4 inches square, set 18
	- 5 -

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	1	a	۲.
	-1	r	

	4		
	Feet		
Section of the second		inches in the ground, in a mound of rocks, N 43° 22' W 3.9 ft.	bears
	81 jos areed	round in the ground in a mond of the color	
	300.0	Original location for the west' end center, identi with the east end center of the Detroit No. 19 of this survey, being a mound of rocks 3 feet h with 3 feet base	1040
	600.0	Cor. No. 3 Identical with Cor. No. 2 of the Detroit No. 4 No. 3 of the Detroit No. 14 and No. 19 lodes of Survey Thence N 52 53 E	and Cors f this
	602.0	Cross gulch 15 feet wide, course southeasterly	694.2
	1298.0	1 Mo. 4 Survey Mo. 4166 Detroit No. 5 loce	3.5301
	1500,0	Identical with Cor. No. 1 of the Detroit No. 4	lode of
	A lode	. on floated a Thence's 43°. 22' Ein lablicati	
	300.0	Original location for the east end center, being mound of rocks 3 feet high with 3 feet base	8
	600.0	Cor. No. 1 and place of beginning.	0.008
		DETROIT NO. 23 DAG L . ON . TOD	0.000
		Beginning at Cor. No. 1 of the Detroit No. 23 lod	le
	ode 25 lode	Identical with Cor. No. 4 of the Detroit No. 25 of this survey and situated on line 3-4 of the Detroit No. 26 lode of this survey	lode
	sa.	Set a quartzite rock 25x7x6 ins., 16 inches i ground, for Cor. No. 1, marked D23-1-4167; 4167; from which	n the D25-4-
	-A-335	The East 1/4 Gor. of Sec. 14, T 4 S, R 29 1 B & M; an iron pipe 1 in. diam., 12 inches ground, firmly set, with brass cap proper marked, bears N.82 56 E 691.15 ft.	es above
		A pine post, 4 feet long, 4 inches square, inches in the ground, in a mound of rocks S 43° 22° E 3.8 ft.	set 18 s, bears
		A quartzite rock in place 13x16 ins., 6 inc above ground bears S 15° 36' W 25.8 ft., BR x D23-1-4167 Thence S 52° 53' W	marked
	305.0	S of reb	1500.0
	1500.0	Cross gulch, 20 feet wide, course easterly Cor. No. 2	
		Identical with Cor. No. 3 of the Detroit No. 2 Cor. No. 3 of the Detroit No. 21 lode; Cor.	5 lode, No. 4
	Of the	Set a limestone rock 28x8x6 ins., 18 inches	in the
		- 6 -	

- 6 -

ground, for Cor. No. 2; marked D23-2-4167; D25-3-4167; D20-4-4167; D21-3-4167; from which A monument of rocks 3 feet high with 3 feet base evods senon; at the senon of the s de granite rock in place 14x15 ins., 6 inches above ground bears N 79° 49 W 38.2 ft., marked BR x D23-2-4167 133 EA N sonsaft feet test to the west end center, identical 300.0 Original location for the west end center, identical with the east end center of the Detroit No. 20 lode of this survey, being a mound of rocks 3 feet high with 3 feet base 600.0 cor. No. 3 600.0 Cor. No. 3 tol edt to S . M . TOO hit w Isolinebl Identical with Cor. 2 of the Detroit No. 22 Cor. No. 3 of the Detroit No. 20 and Cor. No. 4 of the Detroit No. 19 lodes of this survey.

Thence N 52° 53° E 20 53 E OS dolug scoro 0.8011 578.0 Cross gulch, 20 feet wide, course southeasterly Identical with Cor. No. 4 to the Detroit No. 100 of Cor. Identical with Cor. No. 1 of the Detroit No. 22 lode of this survey a 122 '64 2 sone AT virotane settoo , ediw teet as delug acoro 0.078 300.0 Original location for the east end center, identical with Cor. No. 2 of the Detroit No. 24 and Cor. No. 4 of the Detroit No. 26 lodes of this survey 600.0 Cor. No. 1 and place of beginning. DETROIT NO. 25 Beginning at Cor. No. 1 of the Detroit No. 25 lode, where T. Set a limestone rock 25x8x7 ins., 16 inches in the ground, for Cor. No. 1, marked D25-1-4167; from which -5-did pine post 4 feet long, 4 inches square, set 18 inches in the ground in a mound of rocks, bears N 43° 22' W 3.7 ft. The East 1/4 Cor, of Sec. 14, T 4 S, R 29 E, G & S R

S1 ... B & M, previously described, bears N 27° 44° E

180 22 16 46 18 588.7 ft. 21806 , bears N 27° 44° E 1500.0 Cor. No.2 nuon a ni banora ant ni andeni 221 E 4.7 ft. Identical with Cor. No. 4 of the Detroit No. 21 lode of this survey ground bears Set a sandstone rock 26x12x7 ins., 17 inches in the ground, for Cor. No. 2; marked D25-2-4167; D21-4-A pine post, 4 feet long, 4 inches square, set 18 inches in the ground, in a mound of rocks, bears N 43° 22' W 5.3 ft.

Feet A quartzite rock in place 22x29' ins., 6 inches above ground, bears N 71° 24' E 31,63 ft., marked BR x D25-2-4167 D255-3-A granite rock in place llx26 ins., 16 inches above ground, bears N 17° 17, W 13.44 ft. dist., marked BR x D25-2-4167 Thence N 43° 22' W o.O Original location for the west end center, identical with the east end center of the Detroit No. 21 lode of this survey, being a mound of stones 3 feet high with 300.0 da 3 feet base nound of nound a gaisd , vevrum ein 600,0 Cor. No. 3 Identical with Cor. No. 2 of the Detroit No. 23, Cor. No. 3 of the Detroit No. 21 and Cor. No. 4 of the Detroit No. 20 lodes of this survey

Thence N 52° 531 F Thence N 52° 53' E Cross gulch 20 feet wide, course easterly 1195.0 Cor. No. 4 1500.0 Identical with Cor. No. 1 of the Detroit No. 23 lode 29 . of this survey of . of . Too live Isolinable lode of Thence S 43° 22' E Cross gulch 25 feet wide, course easterly 270.0 Original location for the east end center, being a mound of stones 3 feet high with 3 feet base 300.0 Cor. No. 1 and place of beginning. 600.0 DETROIT NO. 14 Beginning at Cor. No. 1 of the Detroit No. 14 lode Identical with Cor. No. 3 of the Detroit No. 15 lode of this survey and situated on line 3-4 of Survey No. 4168 Detroit No. 10 lode Set a quartzite rock 26xllx6 ins., 16 inches in the ground for Cor. No. 1, marked D14-1-4167; D15-3-4167; from which The 1/4 Cor. between Secs. 14 and 15, T 4 S, R 29
'E G & S R B & M; ah iron post 1 in. diam., 12
inches above ground, firmly set, with brass cap
properly marked, bears N 61 16' W 1198.3 ft. A pine post 4 feet long 4 inches square set 18 inches in the ground in a mound of stones bears S 43° 22' E 4.7 ft. A quartzite rock in place 17 x 24 ins., 14 inches above ground bears S 39° 52' W 37.5 ft., dist., marked BR x D14-1-4167 o ebol is . on j inches in the above ground bears S 25° 50' W 26.25 ft. dist., 7 inches marked BR x D14-1-4167 pine post, al too tollers

Thence N 52° 53' E 1 and Thence N 52° 53' E 1 and all

Feet	1000
370.0	670ss Rock House gulch, :40 feet wide, course southerly
1055.2	Cor. No. 3 of Survey No. 4168 Detroit No. 10 lode and Cor. No. 3 of Survey No. 4165 Detroit No. 2 lode
1269.2	Cross trail, course southerly
1500.0,	A diorite ledge 24x28 ins., 44 inches abov ground, bears H 48° 22' T +1 S' .oNroJt:
odi ev	Identical with Cor. No. 3 of the Detroit No. 4 lode of sof this survey 32x4 sabel variation A talb 12 00. 2 2 20 0 2 20 0 0 20 0 0 0 0 0 0 0
	Original location for the east end center, identical
S.F.	with the west end center of the Detroit No. 4 lode to of this survey was a substantial to the survey of the Detroit No. 4 lode to of this survey was a substantial to the survey of the Detroit No. 4 lode to of the Detroi
600.0	Cor. No. 3
4	Identical with Cor. No. 2 of the Detroit No. 4, Cors. Nos. 3 of the Detroit No. 19 and Detroit No. 22 lodes all of this survey
Lode	Cross trail, course southerly not seed langing 0.008 Oh. With the ent to refree one tare ent div Cor. No. 4x to mound a mound of this
	Identical with Cor. No. 2 of the Detroit No. 19 lode:
	Cor. No. 3 of the Detroit No. 16 lode; Cor. No. 4 of the Detroit No. 15 lode, all of this survey
	Set a diorite rock 25xllx5 ins., l6 inches in the ground, for Cor. No. 4; marked D14-4-4167; D19-2-4167; D16-3-4167; D15-4-4167; from which
	A pine post, 4 feet long, 4 inches square, set 18 inches in the ground in a mound of stones, bears S 43° 22° E 6.1 ft.
	A décrite ledge 13x16 ins., 16 inches above the ground, bears S 49° 33' E 3.3 ft. dist., marked BR x D14-4-4167
	A diorite ledge 21x50 ins., 41 inches above the ground, bears S 66° 10' W 18.2 ft., dist., marked BR x D14-424167
abol .	300.0 Original location for the east end center, ident
248.0	Cross Rock House Gulch, 40 feet wide, course southerly
300.0	Original location for the west end center, is identical with the east end center of the Detroit No. 15 lode of this survey, being a mound of stones 3 feet high with 3 feet base
600.0	Cor. No. 1 and place of beginning.
00010	1500.0 Gor. No. 1 and place of beginning.
206	DETROIT NO. 19
o hu	Beginning at Cor. No. 1 of the Detroit No. 19 lode
il lode;	Identical with Cor. No. 2 of the Detroit No. 20 lode; Cor. No. 4 of the Detroit No. 17 lode; Cor. No. 4 of the Detroit No. 16 lode; all of this survey
Yes.	Set a diorite rock 26x7x6 ins., 16 inches in the

Feet ground for Cor. No. 1; marked D19-1-4167; D20-2viradius seri4167; D16-4-4167; D17-4-4167; from which ons e of of A pine post 4 feet long, 4 inches square, set 181 of S. Winches in the ground in a mound of stones, bears S 43° 22' E 5.3 ft. Cross trail, course southerly A diorite ledge 24x28 ins., 44 inches above the ground, bears N 48° 22' E 41.7.ft. dist., marked BR x D19-1-4167 Identical with Cor. No. roit No. 4 lode A porphyry ledge 14x28 vins. 18 inches above the ground, bears S 0° 08 E 29.55 ft., dist., marked BR x D19-1-416/0 inches above ground, with brass cap properly marked bears S 32° 00° E 1417.0 ft. Cor. 100 Thence N 43° 22' W Identical with Cor. the Detroit No. 4, 100rs. TO S . OM 78.0 Cross trail, course southerly god to the Cross trail, course easterly some 274.0 Original location voor the west end center identicals of 300.0 with the east end center of the Detroit No. 16 lode of this survey, being a mound of rocks 3 feet high odd with 3 fest base of le lode: Identical with Cor. No. 2 345.0 Cross trail oourse southerly to 8 .0 100 yourse that to lie, abol 31 .00 to the Detroit No. 15 Cor. No. 2 600.0 Set a dierite rock 25x11x5 ins., -S-CIC ; Collective with Cor. No. 4 of the Detroit No. 14, Cor.

Solve the Detroit No. -16 and ; Cor. No. 4 of the Detroit No. 15 lodes of this survey

Solve the Detroit No. 15 lodes of this survey

Solve the Detroit No. 4 of the Detroit No. 4 of the Detroit No. 15 lodes of this survey

Solve the Detroit No. 4 of the Detro Cross trail course southerly 'SS 64 112.0 A diorite ledge livib ins., If Eigonogo apirots A Identical with Cor. No. 12-of the Detroit No. 4, Cors.

Nos: Bief the Detroit No. 14 and Detroit No. 22

vods clodes of this survey and stirois

Thence S 43 122 E Dancin ends elodes of this survey Original location for the east end center, identical 300.0 with the west end center of the Detroit No. 22 lode 248,6 Cross Rock Fouse Gulch, 40 feet wide, course southerly Cor. No. 4

the birth return bre trewedt not not boot lanight 0.000

I dl .Identical with Cor. No. 2 of the Detroit No. 22, 1 cors. 600.0 Nostal of the Detroit No. 23 and Detroit No. 20 lodes of this survey Thence S 52° 53' W 80C.O Cor. No. 1 erd Cor. No. 1 and place of beginning. 1500.0 DETENTION IS DETROIT NO. 20 etroit Mo. 19 lode Beginning at Cor. No. 1 of the Detroit No. 20 lode Cor. No. 4 of the Detroit No. 18 lode; Cor. No. 1 of the Detroit No. 17 lode, all of this survey indication of the the

Feet Set's limestone rock 28x12x5 ins., 16 inches in the ground for Cor. No. 1; marked D20-1-4167; D21-2-4167; D18-4-4167; D17-1-4167; from which The 1/4 Cor. Between Secs. 14 and 23, T 4 S, R 29
E, G & S R B & M, previously described, bears
S 23° 53' E 837.1 ft. inches in the ground in a mound of rocks, bears S 43° 22' E 5.0 ft. A limestone rock in place, 14x20 ins., 13 inches above ground, bears B 38° 30° E 46.48 ft., dist., marked BR x D20-1-4167 delt light A granite rock in place, 21x38 ins., 18 inches above ground, bears S 75° 32' E 18.0 ft. dist., marked BR x D20-1-4167 S . on . Too . 0.008 Thence N 43° 22' W 300.0 Original location for the west end center, identical with the east end center of the Detroit No. 17 lode of this survey, being a mound of rocks 3 feet high with 3 feet base 1500.0 Cor. No. 5 600.0 Cor. No. 2 of the off to S . of . TOO dity Lastines Identical with Cor. No. 1 of the Detroit No. 19, Cors. Nos. 4 of the Detroit No. 16 and Detroit No. 17 lodes of this survey. Lacinabi , retues Thence N 52° 53' E ditacol laninino 0.008 1500.0 Cor. No. 3 Identical with Cor. No. 2 of the Detroit No. 22 tor.
No. 3 of the Detroit No. 23 and Cor. No. 4 of the
Detroit No. 19 lodes, all of this survey
Thence S 43 22 E 300.0 Original location for the east end center, identical with the west end center of the Detroit No. 23 lode of this survey 1500.0 Cor. No. 1 and place of beginning. 600.0 Cor. No. 4 Identical with Cor. No. 2 of the Detroit No. 23. loops. Nos. 3 of the Detroit No. 21 and Detroit No. 25 lodes of this survey ebel of .ow there I Thence S 52° 53' W Land Head Cor. No. 1 and place of beginning. 150040 Set a sandstone rock, 27x7x5 ins., 17 inches in the ground for 127 on Tronted Dis-1-4167; Disease 4167; from march in tile Beginning at Cor. No. 1 of the Detroit No. 21 lode Identical with Cor. No. 1 of the Detroit No. 18 lode of this survey to do. day 100 Set a porphyry rock 26x8x6 ins., 18 inches in the ground for Cor. No. 1; marked D21-1-4167; D18-1-4167; from which A pine post, 4 feet long, 4 inches square, set 18 inches in the ground in a mound of rocks, bears N.43° 22' W 4.5 ft. being a mound

Feet The 1/4 Cor. between Secs. 14 and 23, T 4 S, R 29 E,
-2-131; 731 307 w 337.2 ft. 11; 7314-2-817; 7314 A quartzite rock in place 15x30 ins., 9 inches above the ground; bears \$ 64° 45' E 31.7 ft. dist., marked BR x D21-1+4167 A quartzite rock in place 25x32 ins., 21 inches above the ground, bears 5 18° 55' E 26.1 ft. dist., marked BR x D21-1-4167 Beifoni 61 .. ani Ocka Thence N 43° 22' W onotanti 300.0 Original location for the west end center, identical with the wast end center of the Detroit No. 18 lode of this survey, being a mound of rocks 3 feet high with 3 feet base's aread, based avoids 600.0. Cor. No. 2 Identical with Cors Nos. 1 of the Detroit No. 20 and Detroit No. 17 and Cor. No. 4 of the Detroit No. 18
To electroit No. 17 and Cor. No. 4 of the Detroit No. 18
To electroit No. 17 and Cor. No. 4 of the Detroit No. 18
Thence N 52 53 E easd Joe't 1500.0 Cor. No. 3 Identical with Cor. No. 2 of the Detroit No. 23, 60r. . No. 13 of the Detroit No. 25 and Cor. No. 4 of the Detroit No. 20 lodes of this survey.

Thence's 43° 22' E Original location for the east end center, identical with the west end center of the Detroit No. 25 lode 300.0 of this survey 600.0 Cor. No. 4 THE THE STREET OF THE Identical with Cor. No. 2 of the Detroit No. 25 lode of this survey 300.0 Original location 150 53 2 Panetter, identical with the west end center of this Cor. No. 1 and place of beginning. 1500.0 600.0 Cor. No. 4 Identical with 15 .ON Jionted elt DETROIT NO. 15 dtiw facitach Beginning at Cor. No. 1 of the Detroit No. 15 lode Identical with Cor. No. 2 of the Detroit No. 16 lode of this, survey and to sould has f. o. . Tol Set a sandstone rock, 27x7x5 ins., 17 inches in the ground for Cor. No. 1; marked D15-1-4167; D16-2-4167; from which 17 inches in the The Cor. of Secs. 14; 15; 22 and 23, T 4 S, R 29

E, G & S R B & M; an iron pipe, 2 ins. diam,

farmly set, with brass cap properly marked bears

S 21° 07° W 775.65 ft. A pine post 4 feet long, 4 inches square, set 18 inches in the ground, in a mound of rocks, bears N 52° 53° E 4.0 ft. inches in the Floundard mound of rocks, bears Original location for the west end center, being a mound 300.0 of rocks 3 feet high with 3 feet base

- 12 -

et

77		
	Feet	dist., marked BR x D16-144167 8 .01 .000 0.000
	.ow t	Situated on Wirss-22-10 Soner No. 4168, Detroi
	300.0 edj h	mound of rocks 3 feet high with 3 feet base
	600.0	
	eand :	of this survey . I 'S 34 2 219ed
	ode.	11 .on fighted Thence N 52°v 153° ¿E. on . rod beers 5 52° w 258.8 ft.
	1245.0	Cross Rock House Gulch, 40 feet wide, course southerly
	1500.0	Cor. No. 2 of Survey No. 4168 Detroit No. 11 lode
	ebo	Detroit No. 15 and Cor. No. 2 of the Detroit No. 19 lodes of this survey Thence S 43 22' E
	255.0	Cross trail, course southerlyvevru a sidt to
	ical lode of	Original location for the eastmend center, identical with the west end center of the Detroit No. 19 lode the of this survey take out not not not have language of this survey take out not not not have language of this survey take out not not not not not not not not not no
		Cross trail, course southerly seuch MooR 22010 0.323
	TO 27 11 12 12 13 13 13 13 13 13 13 13 13 13 13 13 13	Cor. No. 4 A .CV .TOD 0.000
		Identical with Cor. No. 1 of the Detroit No. 19, Cor. No. 2 of the Detroit No. 20 and Cor. No. 4 of the
		Detroit No. 17 lodes of this, survey to Thehce S 52 55 W
	100.0	Cross trail, course southerly sauch 100A 82010 0.333
	378.0	
	1229,5	Intersect line 2-4 of Survey No. 4148 Rock House lode at S 42° 05' E 21.04 ft. from Cor. No. 2
	1243.0	Cor. No. 3 of the Detroit No. 17 lode of this survey
	rner	Intersect line 12-2 of Survey No. 4148 Rock House Lode at S 47° 55 W 242.11 fto from Cor. No. 2
	1500.0	Cor. No. 1 and place of beginning his more
	S ST	The Cor. of Seos. 14, 15, 22 and 23, T 4 S, C & S R 71 & ON, TIORTEQUELY described, bears 26' W 745.81t.
	araed s	Beginning at Cor. No. 1 of the Detroit No. 17 lode
		Identical with Cer. No. 1 of the Detroit No. 20, Cor. No. 2 of the Detroit No. 21 and Cor. No. 4 of the Detroit No. 18, lodes of Ithis survey
	etrs.	d axioo T to beyon Thereet So52° 953 toW andone
	teth t	Cross trail, course southerly Cross Rock House Gulch, course southerly, 40 feet wide
		Marked BN x D16-1-4167
	.tî	Cor. No. 2 Plxff socia ni door stistano de Situated on line 34 of the Detroit No. 18 lode of this survey
		3 14 3

Feet Set a sandstone rock, 27x8x4 ins., 16 inches in the ground for Cor. No. E, marked D17-2-4167; from which A monument of tocks 3 feet high with 3 feet base bears S 52° 53' W 6.6 ft. Cor. No. 2 of Survey No. 4148 Rock House Lode bears Original location for Cor. No. 2 being a pine post and 4 inches square set 18 inches in the ground in a mound of stones, bears S 52° 53' W 257.0 ft. ground bears N 16° 50° W 12.3 ft. dist., marked A sandstone ledge 12x25 ins., 22 inches above the ground, bears N 79° 34' E 30.9 ft., dist., marked BR x D17-2-4167 BR x D17-2-4167 Jaog Saig a quertrite Wolsen EllangenTiv ths., ? inches West end center, being a mound of rocks 3 feet high with 3 feet base, whence original location for the west end center, being a mound of rocks 3 feet high with 3 feet base bears S 52° 53 W,257,0 ft. marked HR x 1018-2-4167 600.0 Cor. No. 3 W 'SS hence N 45 Situated on line 4-1 of the Detroit No. 16 lode of this survey in the tradition out of the tradition of the Set a sandstone rock, 26x10x4 ins., 16 inches in the ground; for Cor. No. 3, marked D17-3-4167; from daid feet which is been a mount of the feet to a daily of the control to daily of the control to daily of the control to th A monument of rocks 3 feet high with 3 feet base

bears 'North 6 feet Original location for Cor. No. 3 bears 5.520.535 W 257.0 ft. identical with Cor. No. 1 of the Detroit No. 16 lode of this survey e-E-cles: from willed Thence N 52° 53° E galad G . OA . TE Intersect line 2=3 of Survey No. 4148 Rock House lode at S 42° 05' E 21.04 ft. from Cor. No. 2 13.5 Cross Rock House Gulch, 40 feet wide, course southerly 865.0 Cross trail course southerly 1143.0 Thence W 52 53' H 1243,0 Cor. No. 4 Identical with Cor. No. 1 of the Detroit No. 19, Core No. 12 of the Detroit-No. 20 and Cor. No. 4 of the Detroit No. 16 lodes of this survey

Thence S 43° 22' E virodt vos Original location for the east end center, identical 300.0 with the west end center of the Detroit No. 20 lode of this survey 1255.5 Cor. No. & Cor. No. 1 and place of beginning. 600.0 entivel with Cort. No. 1 of w Isvitabl DETROIT NO. 18 Beginning at Cor. No. 1 of the Detroit No. 18 lode

Feet Identical with Cor. No. 1 of the Detroit No. 21 lode ground for Cor. No. E, ma yearus atht ho; from which rised east feet & dity Thence S 52 2 561 W themunom a 55' W 6.6 ft. Cor. No. 2 Situated on line 2-7 of Survey No. 4148 Rock House Lode beers lode at N 42° 05' W 281.6 ft. from Cor. No. 3 and bau Set a sandstone rock, 26x12x7 ins., 17 inches in the ground for Cor. No. 2, marked D18-2-4167; from which bears S.52° 53° W 3.3 It. sed base Original location for Cor. No. 2 being a pine post vode a 4 feet long, 4 inches square, set 18 inches in the ground in a mound of rocks bears S 52° 53' W 243.5 ft. x ni7-2-4167 A quartzite rock in place 17x19 ins., 7 inches above the ground, bears S 42° 05' E 2.5 ft. dist., marked BR x D18=2-4167 of rotate base 10 inches above the ground, bears S 80° 40' W 9.9 ft. dist., marked BR x D18-2-4167 600.0 Cor. No. Z Situated on line 4-1 of the Detroit No. 16 lede of Cross trail, course southerly erly evans eint 107.0 143.4 Cross Rock House Gulch, 40 feet wide, course southerly West end center, being a mound of rocks 3 feet high with 3 feet base, whence the original location for the west end center being a mound of rocks 3 feet high with 3 feet base beers \$5.529.53' W 243.5 ft. Setvavsandstone rock, 25x8x7 mins, 16 inches in the ground for Cor. No. 3, marked D18-3-4167; from which Original location for the Cor. No. 3 being a pine post 4 feet long, 4 inches square, set 18 inches in the ground in a mound of rocks bears S 52 53 W 243.5 ft. A mound of rocks 3 feet high with 3 feet base bears
N 52° 53' E 6.91ft; course south 2 feet base bears rse southerly Thence N 52° 53' E A . OM . TOO 0. BASI 13.5 Cor. No. 2 of the Detroit No. 17 lode of this survey and intersect line 2-3 of Survey No. 4148 Rock House lode at N 42° 05' W 880.28 ft. from Cor. No. 3 Cross Rock House Gulch, 40 feet wide, course southerly 784.5 Cross trail, course southerly of som and drive vevius sint to Identival with Cors. Nos 1 of the Detroit No. 20 ande Detroit No. 17 and Cor. No. 2 of the Detroit No. 21 lodes of this survey 1256.5 Cor. No. 4 Thence S 43 22' E

heginning at Sor. No. 1 of

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Feet
                                      Original location for the east end center, identical
             300.0
                                      with the west end center of the Detroit No. 21 lode
                                                 of this survey.
                                      .08-----
                                                                                                                                                  Total gres, Netroit No.
             600.0 Cor. No. 1 and place of beginning.
                              Total area, Total No. 20 logs - - - - - - 20. Da
                           30 - - - - - - CLODE LINES Louist, page Later
                           . The presumed course of the vein on each of the several
                          lode locations embraced in this survey, counted from the respective points of discovery, is as follows:-
                                         Detroit No. 24 lode, S 43 22 E 450 ft., and N 43 22
                         Detroit No. 26 lode, S 43° 22' E 600 ft., and N 43° 22' P. C. T. W 900 ft. - - 900 T1. of tionted, send lator
                                         Detroit No. 4 lode, S 520 531 W 700 ft., and N 520 53' E
                         Detroit No. 22 lode, S 52° 53' W 620 ft., and N 52° AND SECOND SE
                                         Detroit No. 23 lode, S 52° 53' W 700 ft., and N 52°
                         29d. E 800 ft.
                                                                                             purvey Mo. 4146 Rook House 106e - -
                                         Detroit No. 25 lode, S 52° 53' W 700 ft., and N 52°
                                                E 800 ft.
                                         Detroit No. 14 lode, S 52° 53' W 650 ft., and N 52°
     This survey as located in the SE Litto 88 E 1/4 of c. 15; in Sec. 14; in the SE 1/4 of Sec. 15 and the
                                      Detroit No. 19, lode, S,52° 53; W 500 ft, and N 52°
                                              E1000 ft.
odi no bentento: 20 lode, S 52° 53 W 750 ft., and N 52° 53° and no bentento ft. of the collaborate and this labelian and the collaborate and the c
                                         Detroit No. 15 lode, S 52° 53' W 1000 ft., and N 52° 53'
                                              E 500 ft.
     erovenents
           Detroit No. 16 lode, S 52° 53' Wolloo ft., and N 52° 53'
          to the restored is said mining claim of the partors its granters is not less than $200. and that asid im-
                                        Detroit No. 17 lode, S 52° 53' W 493 ft., and N 52° 53'
                                                                                      on ficited saf to tue viewoosib and
       Terms Detroit No. 18 lode vs 52° 53' W 571.5 ft; and N 52° 53' obly Joseph of the Marine of the Color of the 
         The discovery cut of the Detroit No. 28 lede, the face
                                                                                                                                                                                                                                                       acres
             Total Area, Detroit No. 24 lode = - - - - -
                                                                                                                                                                                                                                                       20,538
                                                                                                                                                              line, 600 ft. fro
        edt wide,
                                        Total Area, Detroit No. 26 lode - - - - - -
                                         Total area, Detroit No. 4 lode - - - - -
                                                                                                                                                                                                                                                       20.538
                                                                                                                                                         The discovery cut of
              9987 90
             Total area, Detroit No. 22 lode - - - - - -
                                                                                                                                                                                                                                                       20,538
                                                                                                                                                        mort of one
                                        20,538
                                                                                                                                                                                                                                                       20,538
                     from Cor. No. & Dotroit No. 22 loce; 4 feet wide, ft. face, runs S 46 w IV ft. to face
                                                                                                                                                                                                                                                      S .OH
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acres giral location for the east end center, Total area, Detroit No. 14 lode 20,538 Total Area, Detroit No. 19 lode - - - - -Iq bas I .oli . Total Area, Detroit No. 20 lode - - - - -20.538 Total area, Detroit No. 21 lode - - - - -20.538 Total area, Detroit No. 15 lode - - 20.538 e locetions Total area, Detroit No. 16 lode - - 20.538 Detroit Mo. 24 lode, Satisficonflict with to lode As . of tighted Survey No. 4148 Rock House Lode - - - - 0.058 tool 38 lout thout Total Srea, Detroit No. 17 lode - - - 17.019 I ted to M Area.in conflict with 2 , abol 4 . of ficated Survey No. 4148 Rock House lote - - - - -Total Area, Detroit No. 18 lode - - - - - 17.204 Detroit No. 28 lode, shit total conficted N 52 Survey No. 4148 Rock House lode - - - - - 0.092

H bne . 11 007 W 155 55 E to M 1.00 11.01 LOCATION Thes survey as located in the SE 1/4 of the SE 1/4 of Sec. 15; in Sec. 14; in the Sw 1/4 of Sec. 13 and the NW 1/4 of Sec. 23; T 4 S, R, 29 E, G & S R B & M. The survey of each of the lode locations of this survey is identical with the emended locations as marked on the ground, with the exception of the Detroit No. 17 and the Detroit. No. 18 lodes as noted under those two claims. Detroit No.002\$140 earnTIDMAGXA W 1000 ft., and W 58 581 I certify that 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 is not less than \$500, and that said improvements consist of:-3 2 , soll The discovery cut of the Detroit No. 24 lode, the face of which being the discovery point is on the center No. 1 line, 450 ft. from the south end canter, 4 feet wide, 10 ft. face runs N 45° E 12 ft. to face Value \$50 The discovery cut of the Detroit No. 26 lode, the face

of-which-being the discovery point is on the center
line, 600 ft. from the south end center, 5 feet wide,

10 ft.-face, runs S 43. 22 E 12 ft. to face

Value \$65 No. 1 803 OS The discovery cut of the Detroit No.22 lode, the face

of which being the discovery point is on the center

line, 620 ft. from the west end canter, 4 feet wide,

10 ft. face, runs N 52° 53° E 16 f.t. to face 20,538 No. 1 868.08 Value \$65 An open cut, the mouth of which bears North 40.0 ft, from Cor. No. 2 Detroit No. 22 lode; 4 feet wide, 8 ft. face, runs S 46 W 10 ft. to face 853 OS No. 2

- 18 -

from Cdr. No. 3 Detroit No. 20 lode; 6 Of soir tool o

- No. 3 An open cut, the mouth of which bears N 34° 30' E 65.0 ft. from Cor. No. 2; 8 ft. wide, 14 ft. face, runs of S, 5° E 18 ft. to face and portal of tunnel, 4x6 ft. in size, running S 46° W 50 ft. to face Value of cut and tunnel \$710
- An open cut, the mouth of which bears N 75° 30' E 665 ft. No. 4 from the west end center; 7 ft. wide, 8 ft. face, runs
 19 18 175° E 14 ft. to face and more to de more en la companie de la co
- No. 5 An open cut, the mouth of which bears S 35° 55' E 137 ft. from Cor. No. 4 Detroit No. 22 lode; 4 feet wide, 8 ft. face, runs N 30° E 12 ft. to face ,ably rant & Value \$45, to 4 Detroit
- The discovery shaft of the Detroit No. 4 lode, the center No. 1 of which being the discovery point is on the center line 700 ft. from the west end center; 4x6 ft. in size, from Cor. No. 4 Detroit No. qoob .tt 10 feet wide, it. feee number to see and portal tunnel, 4x6 ft. in size 004 suley 50 W 42 ft.,

- An open cut, the mouth of which bears N 85° 15' W 234 ft. from Cort No. 1 Detroit No. 4 lode; 4 feet wide, 8 ft. face runs N 65° E 14 ft. to face No. 2 Jest DI ; en Value \$50
- The discovery shaft of the Detroit No. 23 lode, the center of which being the discovery point is on the center line 700 ft. from the west end center; 4x6 ft. in No. 1 An open cut, the mouth of wide left all size, 200 ft. from dor. No. 4 Detroi 00\$ sules sole; 5 feet wide,
 - The discovery shaft of the Detroit No. 25 lode, the center of which being the discovery point is on the center line 700 ft. from the west end center; 4x6 ft. in size 10 ft, deep outed 1 .04 . 120 mort.
- The discovery cut of the Detroit No. 19 lode, the face No. 1 of which being the discovery point is on the center line 500 ft. from the west end center; 4 feet wide, 10 ft. face, runs N 52° 53 E 12 ft. to face Value \$50
 - No. 2 A shaft, the center of which bears North 28 ft. from Cor. No. 1 Detroit No. 19 lode; 4x6 ft. in size; 16 ft. to deep; retes on the east end contex; que to the face, runs s 52 5,002 \$200, to face
 - No. 3 An open cut, the mouth of which bears N 36° 55' E 48 ft. from Cor. No. 1 Detroit No. 19 lode; 4 feet wide, 8 ft. face, runs S 30° E 10 ft. to face Value \$40 MOUT .
- The discovery shaft of the Detroit No. 20 lode, the center of which being the discovery point is on the cen-No. 1 ter line 750 ft. from the west end center; 6x8 ft. in from for. No. 4 Detreet deep 1501 . No. 100 mort
 - An open cut, the mouth of which bears S 30° W 748 ft.
 from Cor. No. 3 Detroit No. 20 lode, 4 feet wide, 8 ft.
 face, runs N 35° E 20 ft. to face
 Value \$65 No. 2
 - An open cut, the mouth of which bears S 29° 25& W 672 ft.

from Cor. No. 3 Detroit No. 20 lode; 6 feet wide, 10 ft face, runs N 35° E 14 ft. to face value \$90 30' I 65.0 the mouth Am open cut, No. 1 The discovery cut of the Betroit No. 21 lode, the face of which being the discovery point is on the center the face line 630 ft. from the west end center; 4 feet wide, 10 ft. fece, runs N 52° 53° E 18 ft. to face Value \$75 an oren cut, the mouth of No. 1. The discovery cut of the Detroity No. 17 lode, the face of which being the discovery point is on the center line 750 ft. from the east and center; 5 feet wide, 10 ft. face, runs S 52° 53' W 15 ft. to face value \$80' in druom and the more as the second center; 5 feet wide, as S 52° 53' W 15 ft. to face
The state of t 4 feet wide, 8 ft. Open cut, the mouth of which bears 5 42°, 48 W 473 ft. from Cor. No. 4 Detroit No. 17 lode; 5 feet wide, 10 ft. face, runs S 50° W 12 ft. to face

Value \$65 No. 2 the center s on the center discover which being the No. 3 An open cut, the mouth of which bears S 42° 26' W 446 ft. from Cor. No. 4 Detroit No. 17 lode; 4 feet wide, 10 ft. face, runs S 50° W 12 ft. to face and portal of tunnel, 4x6 ft. in size running S 50° W 42 ft., to breast

11 488 Value of cut and tunnel \$4700 asso at 8.00 No. 4 An open cut, lithe mouth of which bears 5 46° 05' W 321 -mss edi No. 5 An open cut, the mouth of which bears 5 47 50 W 300 ft. from Cor. No. 4 Detroit No. 147 Node; 5 feet wide, 8 ft. face, runs N 53 W 10 ft. to face

-no end of the state No. 5 the cen-No. 6 An open cut, the mouth of which bears S 57° 15' W 634 ft. from Cor. No. 1 Detroit No. 17 Tode; 4 feet wide, 8 ft. face, runs N 60 W 14 ft. to face value \$50 discovery cut of the Detroi No. 7 An open cut, the mouth of which bears 8 54° 55; W 570 ft. from Cor. No. 1 Detroit No. 17 lode; 4 feet wide, 10 ft. face, runs N 60° W 12 ft. to face Value \$50 No. 1 The discovery cut of the Detroft No. 18 Tode, the face of which being the discovery point is on the center line 685 ft. from the east end center; 4 feet wide, 10 ft. face, runs S 52° 53° W 14 ft. to face

Value \$60 186 55 M J1 84 : an open cut, the mouth of No. 1 The discovery cut of the Detroit No. 14 lode, the face of which being the discovery point Ps on the center line 650 ft. from the west end center; & feet wide,
10 ft. high, runs Rest 14 ft. to face

- rest and the state of the center of Mo. 1 The discover No. 2 An open cut, the mouth of which beers N 38° 35' E 365 ft. from Cor. No. 4 Detroit No. 14 lode; 4 feet wide, 10 ft. face, runs N 50° E 12 ft. to face

Value \$50 No. 3 A shaft, the center of which bears N 38 35 E 396 ft. from Cor. No. 4 Detroit No. 14 lode; 5x6 ft. in size, 8 ft. deep . Ji sra w sas 'es a stand \$50 Mo. 2 An open cut, the nouth of which

Feet No 4 In open cut, the mouth of which bears S 57° 25' W 589 ft. from Cor. No. 1 of the Detroit No. 14 lode; 5 feet wide, 10 ft. face, runs S 20° E 18 ft. to face Value \$100 An open cut, the mouth of which bears N 71° 40' E 700 ft. from Cor. No. 1 of the Detroit No. 14 lode; 8 feet wide, 10 ft. face, runs S 65° E 12 ft. to face Value \$100 No. 5 An open cut, the mouth of which bears N 65° 55' E 734 feet from Cor. No. 1 of the Detroit No. 14 lode; 4 feet wide, 10 ft. face, runs S 65° E 12 ft. to face Value \$50 No. 1 The discovery cut of the Detroit No. 15 lode, the face of which being the discovery point is on the center line 500 feet from the east end center; 4 feet wide, 10 ft. face runs S 52° 53' w 14 ft. to face

Value \$60 No. 2 An open cut, the mouth of which bears N 26° 05' w 40 ft. from Cor. No. 1 6f the Detroit No. 15 lode; 5 feet wide 14 ft. face, runs N 75° E 18 ft. to face and portal of tunnel 4x7 ft. in size, tunning East 46 ft. to a point, thence S 70° E 24. ft. to breast A 1/2 interest in this tunnel has been allotted to the Detroit No. 15 and the Detroit No. 16 lodes as the No. 2 Detroit, No. 15 and the Detroit No. 16 lodes as the tunnel starts on Detroit No. 15 and runs unto Detroit No. 16 Value of 1/2 interest \$585 An open cut, the mouth of which bears North 60 feet from Cor. No. 1 of the Detroit No. 15 lode; 5 feet wide, 10 ft. face, runs S 85° E 12 ft. to face and portal of tunnel 4x6 ft. in size, running S 85° E 70 ft. to a point, thence S 70° E 38. ft. to breast. A 1/2 interest in this tunnel has been allotted to the Detroit No. 15 and Detroit No. 16 lodes, both of this survey, as the tunnel starts on the Detroit No. 15 lode and No. 3 as the tunnel starts on the Detroit No. 15 lode and runs into the Detroit No. 16 lode Value of 1/2 interest \$840 An open cut, the mouth of which bears N 29° 30° W 108 ft. from Cor. No. 1 of the Detroit No. 15 lode; 4 feet wide, 10 ft. face runs S 60° W 12 ft. to face Value \$50 No. 4 An open cut. the mouth of which bears N 2° 05' E 239 No. 5 ft. from Cor. No. 1 of the Detroit No. 15 lode; 6 feet wide, 8 ft. face runs N 45° E 12 ft. to face Value \$50 An open cut, the mouth of which bears N 47° 40° E 495 ft. from Cor. No. 1 of the Detroit No. 15 lode; 8 feet wide, 10 ft. face, runs N 60° E 20 ft. to face Value \$160 No. 6 No. 1 The discovery cut of the Detroit No. 16 lode, the face of which being the discovery point is on the center line 400 feet from the east end center; 4 feet wide, 10 ft. face, runs S 52° 53' W 13 ft. to face Value \$55 An open cut, the mouth of which bears N 50° 10° E 402 ft. from the west end center; 4 feet wide, 10 ft. face runs N 60° E 12 ft. to face No. 2 Value \$50 A 1/2 interest in No. 2 and No. 3 of the Detroit No. 15 allotted to the Detroit No. 16

Value\$1425

A 1/26 interest in Improvement No. 2 of the Detroit No. 12 lode of Survey No. 4168 has been allotted to each of the claims of this survey.

Value of 1/26 interest \$ 180 A 1/26 interest in Improvement No. 2 of the Detroit No. 13 lode of Survey No. 4168 has been allotted to each of the claims of this survey Value of 1/26 interest 172 - 1917 A 1/26 interest in Improvement No. 3 of the Detroit No. 13 lode of Survey No. 4168 has been a lotted to each of the claims of this survey.

Value of 1/26 interest \$ 70 1/26 interest in Improvement No 4 of the Detroit No.
13 lode of Survey No. 4168 has been allotted to each
of the claims of this survey
Value of 1/26 interest \$ 76 1/75 interest in Improvement No. 1 of the Novo No. 5, lode of Survey No. 4168 has been allotted to each of the claims of this survey value of 1/75 interest \$ 70.100 mg. Value of 1/75 interest \$ 70.100 mora feet wide Istacq A 1/75 interest in diamond drilling and other improved ments made in the Christie and Kentucky tunnels situated on Survey No. 2709 Copper Bluff and Kentucky lodes has been allotted to each of the claims of this survey survey Value of 1/75 interest \$ 761.89 - ... In open out, the mouth of which beers Morth 60 feet from Cor. No. 1 of the Detroit No. 15 loce; 5 feet wide, 10 ft. face; runs S 85° E 12 ft. to feet and portal of tunnel 4x6 ft. in size, running S 85° E 70 ft. to a point, thence S 70° E 28. ft. to breast. 1 /2 interest in this tunnel has been allotted to the Detroit No. 15 and Detroit No. 16 loces, both of this survey, as the tunnel starts on the Detroit No. 15 loce tune into the Detroit No. 16 loce runs into the Detroit No. 16 loce An open cut, the mouth of which beers N 29° 20' x 108
ft. from dor. No. 1 of the Detroit No. 15 lode; 4 feet
wide, 10 ft. face runs S 60° w 12 ft. to face
Velue 450 in open cut, the mouth of which bears N 2 05' E 259
it, from Cor. No. 1 of the Detroit No. 15 lode; 6 feet
wide, 8 ft, face runs N 45° E 18 ft, to face
Value \$50 An open cut, the mouth of which bears N 47° 40' E 495 ft. from Cor. No. 1 of the Detroit No. 15 lode; 8 feet wide, 10 ft. face, russ N 60° E 20 ft. to face Value \$160 Ho. 6 The discovery cut of the Detroit Mo. to lode, the face L . oH of which being the discovery point is on the center line 490 feet from the east end conter; 4 feet wide, 10 ft. face, runs 5 52 52 w 12 ft. to face Value \$55 An open cut, the mouth of which bests H 50° 10' g 402

ft. from the west end center; 4 feet wide, 10 ft. face
ruls H 50° I 12 ft. to feee

Value 550 A 1/2 interest in No. 2 and No. 3 of the Setroit No. 15

Value 31425

FINAL OATHS FOR SURVEYS

LIST OF NAMES

A list of the names of the individuals emp	loyed by Ralph L. Motz
United States Mineral Surveyor, to assist in a	running, measuring, and marking the lines, corners, and
boundaries described in the foregoing field note	s of the survey of the mining claim of Western Copper
& Mining Co. known as the - Detroit No	• 4, Detroit No. 14, Detroit No. 15, Detroit No troit No. 19, Detroit No. 20, Detroit No. 21,
Detroit No. 22, Detroit No. 23, Detroi	t No. 24, Detroit No. 25 and Detroit No. 26
and showing the respective capacities in which	
	Allen Hanley , Chainman.
	, Chainman,
	Jack Roland , Axman.
	, Flagman.
FINAL OATH	S OF ASSISTANTS
We, Allen Hanley	
and Jack Roland	, do solemnly swear that we assisted Ralph L. Motz
, United States	Mineral Surveyor, in marking the corners and surveying
the boundaries of the mining claim of West	ern Copper & Mining Co., known as the -
troit No. 18, Detroit No. 19, Detroit	t No. 15, Detroit No. 16, Detroit No. 17, De- No. 20, Detroit No. 21, Detroit No. 22, De- 24, Detroit No. 25 and Detroit No. 26
	ing been surveyed by said mineral surveyor and under his
	espects, to the best of our knowledge and belief, faithfully
and correctly executed, and the corner and bound	ary monuments established according to law and the instruc-
	at Phoenix, Arizona.
	Chainman.
	, Chainman.
	Jack Roland , Awman.
	, Flagman
Subscribed and sworn to by	the above-named persons before me this 14th
day ofDecembe	Thank a. Starent
	hank a. Starent
	Notary Public, in and for the County of
	overhear reprogreenies, State of Arizona. 6-1048

My commission expires Sept. 4, 1934.

Oct-11. 1936

FINAL OATH OF U. S. MINERAL SURVEYOR.

I, Raiph L. Motz	, U. S. Mineral Surveyor,
	ructions received from the Office Cadastral Engineer,
at Phoenix, Arizona	, dated August 9, 1933.
I have, in strict conformity to the laws of th	e United States, the official regulations and instruc-
tions thereunder, and the instructions of said	d Office Cadastral Engineer, faithfully and correctly
Detroit No. 27, Detroit No. 28 Detroit No. 21, Detroit No. 28 Detroit No. 25 and Detroit No.	Western Copper & Mining Co., Known as 14, Detroit No. 15, Detroit No. 16, Detroit No. 16, Detroit No. 20, Detroit No. 23, Detroit No. 24, 26
situate in Greenlee Gold Mounts	Mining District,
Greenlee 13, 14, 15, 23, Township No. 4 S, R	County, Arizona, in Section sange No. 29 E. G & S R B & M
and designated as Survey No. 4167	, 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 d	escribed in the attached copy of the location certifi-
cate, which was received by me from the Off	fice Cadastral Engineer with said instructions, and
that all corners of said survey have been est	sablished and perpetuated in strict accordance with
the law, official regulations and instructions t	hereunder; and I do further solemnly swear that the
foregoing are the true and original field notes	s of said survey and my report therein, and that the
labor expended and improvements made upor	n 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 particulari	ty and full detail, and that no portion of said labor
or improvements so credited to this claim has	s been included in the estimate of expenditures upon
any other claim.	
	Raysh L. Mok U. S. Mineral Surveyor.
Subscribed and sworn to by the said	Ralph L. Motz
U. S. Mineral Surveyor, before me	D. M. Simpson
Notary Public	this 29th
day of January , 19234	
	Molimpson
Cochis	Public, in and for the County of e, State of Arizona.

My Commission Expires August 9, 1937.

OFFICE CADASTRAL ENGINEER'S FINAL CERTIFICATE ON FIELD NOTES

Department of the Interior

PUBLIC SURVEY OFFICE

Phoenix, Arizona
February 21 , 19 34
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 Western Copper and Mining Co., known as the Detroit No. 4. Detroit No. 14. Detroit No. 15. Detroit No. 16. Detroit No. 17. Detroit No. 18. Detroit No. 19. Detroit No. 20. Detroit No. 21. Detroit No. 22. Detroit No. 23. Detroit No. 24. Detroit No. 25. Detroit No. 26.
situate in Greenlee Gold Mountain
Mining District Greenlee County Arizona
Mining District Greenlee County Arizons in Section 8 15, 23, Township No. 48, Range No.29 E. G & S R B & Mand
designated as Survey No. 41.67 , 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
Western Copper & Mining Company or its grantors,
and that said improvements consist of 7 Shafts. 34 Cuts and 4 Tunnels,
Value \$7,135.00 and an undivided interest to the amount of
18,618.46 in certain common improvements located on claims of
dineral Surveys Nos. 2709 and 4168, as described in the foregoing
Pield Notes.
Potal Value \$25.753.46.
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
Arizona is correct and in conformity with the foregoing Field Notes.
Sherman C. Fiske
Sheemin 6. Tiske

CERTIFICATE OF APPROVAL OF FIELD NOTES AND SURVEY OF MINING CLAIM

DEPARTMENT OF THE INTERIOR PUBLIC SURVEY OFFICE

February 21, 1934. I, Office Cadastral Engineer at Phoenix, Arizona
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 Western Copper and Mining Co., known as the Detroit No. 4,
Detroit No. 14. Detroit No. 15. Detroit No. 16. Detroit No. 17.
Detroit No. 18, Detroit No. 19, Detroit No. 20, Detroit No. 21,
Detroit No. 22. Detroit No. 23. Detroit No. 24, Detroit No. 25, Detroit No. 26 situate in Greenlee Gold Mountain mining district,
Greenlee County Arizona
in Section S 13,14,15,23 , Township No. 4 S , Range No. 29 E
designated as outvey ito.
executed by, U. S. Mineral
Surveyor, November 1st to November 15th, 1933, under my instructions dated
August 9, 10 33 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 certificates filed by the applicant for survey is
copies on file in this office and a true ecpy of said certified copy of said location certificates is, included and
made a part of the transcript of the field notes.
Sherman C. Fiske
Acting Office Cadastral Engineer.

COVERNMENT PRINTING OFFICE 6-7181

MINERAL	CHIDVEV	Mo	4167
VIINERAL	SURVEY	NO.	4101

		ARIZON	J <u>A</u>	Land District	
		SUPPLEMEN	IMAT:		
		FIELD N	-		
	OF THE	SURVEY OF THE	E MINING CI	CAIM OF	
	Wes	tern Copper	& Mining	Co.	
***************************************					**********
Detroit No	o. 4, Detroit	KNOWN AS	troit No.	15, Detroit No. 19, Detroit No	16,
Detroit No	o. 17, Detroi	t No. 10, De	etroit No	. 19, Detroit No . 23, Detroit No	20,
Detroit N	o. 25, Detroi	t No. 26			
	Green	lee Gold Mou	ıntain	Mining D	istrict,
G	reenlee .	Count	y,	Arizona	
G G	13, 14,	7	/ G	, Range 29 E G.& S.R.B.& M.	
Section	100.60,	rownsnip	4 2 •	G.& S.R.B.& M.	•
Survey	ed under instru	ctions dated	August 9	, 19 33	
			*		
		By .	Ralph 1	U. S. Mineral S	urveyor.
	Claim located			, 19	
	Survey comme	nced Novemb	per 1,	, 19_33	
	Survey complet				
	Survey complet	ted		, 19	
	Address of clair	mant's attor	ney, Cle	on T. Knapp. sol. Natl Bank E	oldg
	n	ATES OF AMEND	Tuc	son, Arizona	0.,
				. 1931	
	I.I.		- Jana 24	2 + 1 1 +	
2 200					
6-822				U S. GOVERNMENT PRIN	TING OFFICE: 1927

MINERAL SURVEY No. 4167, ARIZONA SUPPLEMENTAL FIELD NOTES

Feet

On June 25, 1934, the Western Copper and Mining Company, claimants, made mineral entry for the land in sections 13, 14, 15 and 23, T. 4 S., R. 29 E., G. & S:R.B.& M., Arizona, included within Mineral Survey No. 4167, embracing the Detroit No. 4 and Nos. 14 to 25 inclusive, lode mining claims.

On June 12, 1935, the Commissioner of the General Land Office canceled the said mineral entry to the extent of that portion of the Detroit No: 15 lode lying in Section 15 and that portion of the Detroit No. 26 lode

lying in Section 13.

In compliance with instructions received in the Commissioners' letter "N" of June 12, 1935, the following supplemental field notes have been prepared for the purpose of showing the courses and distances of the lines bounding the canceled portions of the Detroit No. 15 and Detroit No. 26 lodes, and the acreage of each.

DETROIT No. 15 lode (in Section 15, T. 4 S., R. 29 E.)

Beginning at Cor. No. 2 of Detroit No. 15 lode of this survey

Thence, N. 52° 53' E.

on N.W. side line (2-3) of the claim.

165.23 Intersect the subdivision line between sections 14 and 15.

Thence, South

on section line.

240.65 Intersect the S.W. end line (1-2) of the claim.

Thence, N. 43° 22' W.

on S.W. end line (1-2) of the claim.

193.04 Cor. No. 2, and place of beginning.

AREA

Area of Detroit No. 15 lode in Sec. 14 - 20.172
Area of Detroit No. 15 lode in Sec. 15 - 0.366

Total Area of Detroit No. 15 lode - 20.538

DETROIT No. 26 lode (in Section 13, T. 4 S., R. 29 E.)

Beginning at Cor. No. 2 of the Detroit No. 26 lode of this survey

Thence, S. 52° 53' W.

on S.E. end line (2-3) of the claim.

300.00 South end center

600.00 Cor. No. 3.

Thence, N. 43° 22' W.

on S.W. side line (3-4) of the claim.

	A STATE OF	
Feet		Fest
194.81	Intersect the west boundary of section 13, T. 4 S	.,
ombale Lola	R. 29 E. Thence, N. 0° 18' W.	
Leu	on section line.	
815.64	The east 4 sec. cor. of section 14.	
873.45	Intersect the N.E. side line (1-2) of the claim.	
no ino i	Thence, S. 43° 22' E	
	on N.E. side line (1-2) of the claim.	
898.24	Cor. No. 2, and place of beginning.	
	AREA	Acres
	Area of Detroit No. 26 lode in Sec. 13 - Area of Detroit No. 26 lode in Sec. 14 - 1	7.483
	Total Area Detroit No. 20 lode	20.538
	i yovara	
	on F.W. side line (), of the class.	
	i analicas a siled coll salelvincus oft da coestal	
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	of macting line.	
	Intersect the (1-1) and line (1-2) of the extit.	20.0,5
	. 1 1.5 (E) . 1 . sous 3 - 1	
	on p. 1. weed Wine (1-2) of the claim.	
	Com. No. 2, and place of becinning.	193.84
zerol	ACRE ACRE AND ACRE AND ACRE AND ACRE AND ACRE ACRE AND ACRE ACRE ACRE ACRE ACRE ACRE ACRE ACRE	
305.		
573		
10 5	A Tirring & For. No. 2 of the demolt No. 105 las	
	france, s. 92° 53' s.	
	on b.s. end line (2-5) of the cloth.	
	refuer has dimon	300.00
	Jon. 16. 3.	00.000

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TENTE TOTAL ALDY, DIEST.

CERTIFICATE OF APPROVAL OF FIELD NOTES AND CURVEY OF MINING CLAIM

UNITED STATES DEPARTMENT OF THE INTERIOR GENERAL LAND OFFICE PUBLIC SURVEY OFFICE

At Phoenix, Arizona						
June 20, 19 35						
I, Office Cadastral Engineer at Phoenix, Arizona						
Supplemental						
do hereby certify that the foregoing and hereto attached Field Notes and Dates of the Survey of the						
Mining Claim of Western Copper and Mining Co. have been prepared in						
compliance with instructions from the Commissioner of the General						
and Office dated June 12, 1935 (Phoenix 074719 "N" NFS) and that						
said Supplemental Field Notes of the Detroit No. 15 and Detroit No.						
26 lode claims						
situate in Greenlee Gold Mountain mining district,						
Greenlee County Arizona						
in Section s 13 and 15 , Township No. 4 S. , Range No. 29 E. G. & S.R.B.& M. , designated as Survey No. 4167						
executed by Ralph L. Motz , U. S. Mineral						
Surveyor, November 1st to November 15th, , 19 33 under my instructions dated						
August 9 , 19 33 have been critically examined and the necessary						
Supplemental						
corrections and explanations made, and the said Field Notes and British,						
are hereby approved. The certified copy of the location certificate filed by the applicant for curvey 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.						
Sherman Tiske Acting Office Cadastral Engineer						

6-7181 U. S. GOVERNMENT PRINTING OFFICE: 1800