MINERAL SURVEY N	0. 4207
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FIELD NOTES	
OF THE SURVEY OF THE MINING CLAIM OF	7.07
 Phelps Dodge Corporation	
KNOWN AS THE	
NOVO No.15 lode	
Gopper Mountain Mining District,	
reenlee County, Arizona	
, Township 4 S. , Range 29 E	
ed under instructions dated September 30 , 19 37	
By	-
W. S. Mineral Surveyor.	G
	i
Claim located See location notice herewith.	
Survey commenced October 13 , 19 37	
Survey completedOctober 15, 19 37	
Address of claimant Ellinwood & Ross, Phoenix, Ariz.	
Attys for Claimant.	
DATES OF AMENDED LOCATIONS	
See location notice herewith	

Feet.

MINERAL SURVEY NO. 4207

Mineral survey No.4207 was made with a Gurley Mountain transit with horizontal limb 6.5 ins. diam. having two opposite verniers and full vertical circle, 5 ins. diam, having one double vernier. The verniers read to one minute of arc.

The instrument was in good condition at the time of the survey, all adjustments were in good order. A P.M. altitude observation for azimuth and at noon on the meridian for latitude and time were made on a line of the survey, the details of which observations are shown in the calculation sheets, herewith submitted for examination.

All azimuths in this record are referred to the true meridian, by the method of deflection angles, and calculated courses.

The lines were measured with a Lufkin steel tape, 500 ft. in length, graduated every foot with the first and last foot graduations to tenths and hundredths. The tape was correct at the time of the survey.

All lines and connections of this survey were run directly upon the ground.

The magnetic variation observed at each corner gave a uniform value of 14°45'E.

NOVO No.15 lode.

Beginning at Cor. No.1 of the Novo. No.15 lode on line 4-2, Sur. No. 2887, Martha lode, Claimant herein at 5:82°36'E; 112.94 ft. from Cor. No.4, and N.82°36'W.; 725.69 ft. from Cor. No.1

Set a steel post 2 ins. diam. with lead cap on top, 24 ins. above ground, set 12 ins. in the ground to bed rock and surrounded with md of stone, stamped 1- N.No 15 -4207 from which the witness corner to Secs. 9.10,15 and 16, T.4 S. R. 29 E. brs. N.37°25'30 W1507.4 ft. dist; an iron post 2 ins. diam. firmly set in md of stone, marked and witnessed as described in the official record.

Loc. Mon. brs. N. 45°15'W., 49.59 ft. dist. consisting of md of stone. Coro Mos 223, Sur. No. 2887, Utah and Martha Lodes brs. S. 61°30'W., 199.85 ft. A cross (X)1N. No. 15 -4207 ER chiseled on base of cliff 40 ft. high brs. S. 7°30'E., 4.12 ft. dist.

Cor. No.4 Sur. No.2887 Portland lode brs. S. 3°12'W. 152.85 ft. dist.

No other bearings are available.

Thense S.43°15'E.

Intersect line 1-2 Sur. No.2887, Utah lode at N.62°22'54"E.,
200.69 ft. from Cor. No.2 and S.62°22'54" W. 1183.83 ft.from Cor.No.1.

240.00 To W. end center, identical with Loc. Mon. Where I-

Set a pine post 4 ins. sq by 4 ft. high, set firmly in the ground and surrounded with md of stone, scribed W. Cr. N No.15

Intersect lines 2-3 and 4-1, Sur. No.2887 Martha and Portland lodes respectively at 5. 71° 06 E413.67 ft. from Cor. No.3 Martha lode and S.71°06'E., 237.06 ft. from Cor. No.4 Portland. Tode.

424.46 To Cor. No.2, identical with Loc. Mon. Where I -

Set a steel post 2 ins. diam. with lead cap on top, 24 ins. above ground, set 18 ins. in the ground and surrounded with md of stone stamped 2 - N No.15 -4207

A cross (X) -2 N No.15-4207 B R chiseled on porphyry ledge 18 ins high brs. N.48°16'W., 8.6 ft. dist.

Feet.

MINERAL SURVEY No. 4207 NOVO No.15 Lode.

Thence N. 63°18'E.

Intersect lines 2-3 and 4-1 Sur. No. 2887, Martha and Portland 71.64 lodes at N.71°06'W., 228.19 ft. from Cor. No.2 and S.71. 06'E. 560.67 ft.from Cor.No.3 Martha lode, and N.71° 06'W. 1113 ft.from Cor.No.1 and S.71° 06' - 334.06 ft. from Cor.No.4 Portland lode.

To Cor. No.3 identical with Cor. No.1 Sur. No.2887 Hartha lode 479.99 Where I -Set a steel post 2 ins. diam. with lead cap on top, 12 ins. in ground to bed rock and surrounded with md of stone, stamped 3 N. No.15 - 4207, 1 M - 2887

No bearings are available.

Thence N. 30 °04 'E.

To Cor. No.4, identical with Cor. No.4, Sur. No.2887 Ajax lode and 25.50 Cor. No.4, Sur. No. 4168 Novo No.14 lode, Western Copper and Mining Co., Claimant.

A pine post 4 x 6 ins. showing 3 ft. above ground, setifirmly in the ground, scribed 4, N No.14-4168, 4 A - 2887 and 4 N No.15 -4207.

A cross (X) N 14 - 4-4168, A 4 -2887, 4 N 15 - 4207 BR. chiseled on face of porphyry outcrop 18 ins high brs. S.59 07 W., 8.1 ft. dist.

No other bearings are available.

Thence N. 63°18'E.

60.0 Shannon R.R. brs. northerly.

Coronado R.R. brs. northerly. 140.0

W. bank Chase Creek brs. northwesterly. 345.0

420.0 E. bank Chase Creek brs. northwesterly. Highway (Coronado Trail) brs. northwesterly.

525.0 Intersect line 3-4 Sur. No.4168 Novo No.16 lode at S.25°E., 417.42 549.35 ft. from Cor. No.4. and N. 25 W., 199.38 ft. from Cor. No.3

683.82. To Cor. No.5

A cross(X) 5 -N. No.15 - 4207 chiseled on sloping face of porphyry ledge 50 ft. high, fwith md of stone alongside; from which

Cor. No.1, Sur. No.4168, Novo. No.14 lode brs. N.63°18'E., 29.18 ft. dist.

An oak tree 4 ins. diam. brs. S.36°45'E., 12.57 ft. dist. Blazed and scribed 5 NNo15- 4207 B.T. Loc.Mon. brs. 5.55° 43° E. 30 ft., a md. of stone.

No other bearings are available.

Thence N.43°15W.

208.54 To E. end center, identical with Loc. Mon. Where I-

Set an oak post 4 ins. diam. by 4 ft. high, set firmly in the ground and surrounded with md of stone, scribed E. Cr. N.No.15

To Cor. No.6. Identical with Cor. No.1, Sur. No.2887 Utah lode, 426.45 Where I -Set a steel post 2 ins. diam. with lead cap on top, 24 ins. above ground, set 18 ins. in the ground and surrounded with md of stone stamped 6, N. No.15 -4207, 1 U - 2887.

Loc. Mon. brs. N. 61° E., 27.75 ft. dist., a md. of stone.

Feet.

MINERAL SURVEY No.4207

Cor. No.4 Sur. No. 4168 and Cor. No.2 Sur. No.2974 King Bolt Lode Claiment unknown brs. N. 30°53'W., 8.47 ft. dist. E., 84 ft, to breast

A cross (X) 6 N No.15 - 4207, 1 U - 2887 B R chiseled on porphyry outcrop 2 x 3 ft. brs. N.16 07 E., 5.24 ft. dist.

No other bearings are available.

glacord teog entg s to betsience f.ov . rob , ebcf daty beyaseb vibad ad of barol asw Jacq Thence S. 762 31:50 Wiros bas Jea end manifecte for permanent cor. I therefore set a steel post in the

0.87 Intersect line 3-4, Sur. No.4168 Novo. No.16 lode at S. 25° E., field notes. All that remeins of Cat. on. Tom Cor. 17 :84:8 250 25 .64"M.

THE CORNER THEORY

250.0 Coronado Trail over R.R. tunnel brs. northerly.

280.0 1 Enter E. Bank of Chase Creek brs, northerly. evidence of the ald monument remaining. I recatablished same with

325.0 30 W. bank Chase Creek brs. northerly. 33 1300 10018 Acar S a Cor. o. 2 is a pine post & ine. sq firmly set and properly seribed.

350:0 se Shannon R.R. brs. northwesterly. To le saisser tadt []

To Cor. No.1 and place of beginning.

cer. To. 4 is a decayed post in ad of stone Sur. Mo. 2687 Fortland lode oor. No.1 is a pine post firmly set and properly marked. I find line

AREA .bevorgas as Joerroo ed of 1-4 ACTES.

as Total area Novo No.15 lode described in the foregoing field notes. failed to find of Cor. No. 3, so accepted the the third serious of Ser. ciled to find any evidence

at og Sur. No. 2887 Martha lode 2.155 erd a Sur. No. 2887 Utah lode Sur. No.2887 Portland lode ----0.086 Sur. No.4168 Novo No.16 lode ______ 0.635
Sur. No.2887 Martha, lode, exclusive of its conflict with Sur. No. 2887 Utah lode, (nominal), respectively.

LOCATION.

This survey is located in the N.W. 1/4, Sec. 15, T.4 S., R.29 E.

LODE LINES

The presumed course of the vein of the location embraced in this survey, counted from the discovery point, is as follows:

Novo No.15 lode, N.61°30'E., 180 ft.; and S. 61°30'W., 1998.90 ft.

on the west by Bur. We. 2867, Utah lode. one .es boi patelinot bas xa EMPENDITURE OF \$500 TO VE AJ nos ent no or over cole. or . mi

> I certify that the value of the labor and improvements made upon or for the benefit of the location embraced in said mining claim by the claimant or its grantors is not less than \$500 and that said improvements consist of :

The discovery tunnel of the Novo. No.15 lode the portal of which No.1 being the discovery point is on the lode line 180 ft. from a point on line 546, 208.54 ft. from Cor. No.5, 5 x 7 ft. in size, running thence N.33°30'E.,19.50 ft. to Sta.1

From Sta. 1 is cross cut 4 x 6 ft. running N.8°55'W.,47.0 ft to winze 4 x 6 ft. 10 ft. deep. thence N 8°55'W.,20.0 ft to point thence N.56°30'W., 6 ft. to breast.

From Sta.l drift 5 x 7 ft. running N.33°30'E.,7.5 ft. to Sta. 2 From Sta.2 Crosscut 4x6 ft. running S.56°30'E.,11.0 ft. to breast. From Sta.2, drift.5x7 ft. running N.33°30'E.,18.0 ft. to Sta. 3 From Sta. 3, Crosscut4x6 ft. running N.56°30°W.,11.0 ft to breast. From Sta. 3, drift 5 x 7 ft "N.33°30°E.,29.5 ft. to Sta. 4 From Sta.

-3-

MINEBAL SURVEY NO. 4207 Expenditure of \$500.0

3

epol fice main ares. of . Tue

From Sta. 4 a C. C. 4 x 6 ft. running N. 56 50 W., 18 ft. to breast. From Sta. 4, drift 5 x 7 ft. running N. 33°30' E., 84 ft. to breast vivderod to befeet a & Value-Tunnel, cross cuts and winze. \$2915.00 outerop 2 x 3 atfits . M. 16 007 H., 5.24 ft. dist.

OTHER CORNER DESCRIPTIONS.

ther bearings are evallence. Sur. No. 2887, Utah lode, Cor. No. 1 consisted of a pine post properly set and scribed 1 U -2887, but the post was found to be badly decayed and unsuitable for permanent cor. I therefore set a steel post in the exact position of the old corner as described in the foregoing field notes. All that remains of Cor. No. 2 is part of a decayed 4 x 4 post in md of stone. Line 1-2 was found to be S.62°22'54"W., 1384.52 ft, instead of S. 61.30.W., 1379.9 ft. - 00800100

to be Sur. 2887 Martha lode Cor. No.1 was found obliterated with slight evidence of the old monument remaining. I reestablished same with a 2 inch steel post as described in the foregoing field notes. . 33 Cor. No. 2 is a pine post 4 ins. sq firmly set and properly scribed. All that remains of Cor. No. 4 is a md of stone. All courses and distances are correct as approved

Sur. No.2887 Portland lode Cor. No.4 is a decayed post in md of stone Cor. No.1 is a pine post firmly set and properly marked. I find line 1-1 to be correct as approved.

301.1 Sur. No. 2887, Ajax lode, Cor. No. 4 is a 4 x 6 in pine post as described in the foregoing field notes. I failed to find any evidence of Cor. No.3, so accepted the record course of line 3-4.

ddf. Sur. No. 4168, Novo. Nos 14 and 16, all corners are pine posts firmly set and properly marked. All courses and distances are Sur. No. 2687 Fortland lode ---- beorga as approved.

Sur. No. 2974 King Bolt lode, Cor. No. 2 is a pine post firmly set and properly marked.

.MOITA SOL

his survey is located in the H.W. 1/4, Sec. 15. .4 C., R.29 E.

TODE LINES

The presumed course of the vain of the location embraced in this survey, counted from the discovery point, is as follows: ADJOINING CLAIMS.

Movo No.15 lode, On the north by Sur. No. 2887, Utah lode. On the West by Sur. No. 2887 Martha and Portland lodes. On the South by Sur. No. 2887 Martha, Ajax and Portland lodes. and Sur. No.4168 Novo Nos. 14 and 16 kode.

noss of On the East by Sur. No.4168, Novo. No.16 lode: viliteo I or for the benefit of the location cobraced in said mining claim by the claimant or its grantors is not less than 500 and that said inprovements consist of

The discovery tunnel of the Hove. No.15 lode the portal of which being the discovery point is on the lode line lan ft. from a point or

line 546 , 208.54 ft. from Cor. No.5 , 5 x 7 ft. in sire, running thence 1.35 SO'E. 19.50 ft. to Sta.1

irom Sta. 1 is cross out 4 x 6 ft. running H.8 SO'E. 47.0 ft to point winze 4 x 6 et. 10 ft. deep. thence " # 8 SO'E. 20.0 ft to point

thence 3.56°30'W., & It. to breast.

From Sta.1 drift 5 x 7 ft. running 3.56°50'E., 7.5 ft. to Sca. 2

From Sta.2 Crossent 4x6 ft. running S.56°50'E., 11.6 ft. to breast. From Sta. 5, drescort4x8 ft. running R.56 20'W., 11.0 ft to breast.

ta. S. drift 5 x 7 ft " F. 85 %50'E., 29.5 ft. to 5ta. 4

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FINAL OATHS FOR SURVEYS

LIST OF NAMES

A list of the names of the individuals en G.L.O	nployed by T.N. Stevens
	running, measuring, and marking the lines, corners, and
boundaries described in the foregoing field no	otes of the survey of the mining claim of
Phel	ps Dodge Corporation
known as the	OVO No. 15 lode
and showing the respective capacities in which	
	Lewis A. Smith , Chainman.
	, Chainman.
	, Axman.
	, Flagman.
FINAL OATH	HS OF ASSISTANTS
I We Lewis A. Smi	<i>th</i>
	, do solemnly swear that we assisted T.N. Stevens.
	G.L.O.
Winkersker,	s Mineral Surveyor, in marking the corners and surveying
the boundaries of the mining claim of	helps Dodge Corporation
known as the Nove #15 lode	
represented in the foregoing field notes as ha	ving been surveyed by said mineral surveyor and under his
	respects, to the best of our knowledge and belief, faithfully
	dary monuments established according to law and the instruc-
tions furnished by the Office Cadastral Enginee	r, at Phoenix, Arizona Lewis a Smith, Chainman.
	Lewis a Anut , Chainman.
	, Chainman.
	, Axman.
	, Flagman
Galactic I	
	by the above-named persons before me this 25th
day ofOctober	
	M.a.E. JSult
y Commission Expires January 19, 193	9) NOTARY PUBLIC

FINAL OATH OF U.S. MINERAL SURVEYOR

I, T.N. Stevens	G.1 , xxixxxxx Mineral Surveyor,			
do solemnly swear that, in pursuance of instruct	ions received from the Office Cadastral			
Engineer, at Phoenix, Ariz.	, dated September 30, 1937			
I have, in strict conformity to the laws of the	United States, the official regulations			
and instructions thereunder, and the instruction	ns of said Office Cadastral Engineer,			
faithfully and correctly executed the survey of	the mining claim of			
Phelps Dodge Corpore	known as the			
NOVO NO.15 lode	,			
situate in Copper Mountain	Mining District,			
Greenlee County,	Ariz., in Section			
15 , Township No. 4 S.	, Range No. 29 E.			
and designated as Survey No. 4207	, as represented			
in the foregoing field notes, which accurately s	how 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 therei	n, and that the labor expended and im-			
provements made upon said mining claim by claima	nt 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.				
	11.N. Dorno			
	(U. S. Mineral Surveyor) 640.			
Subscribed and sworn to by the said	Mevens			
U. S. Mineral Surveyor, before me	Richy Molony			
Public of Tuna County anyon	this 2121			
day of January, 1938	THE			
	W/WW			
	May our			

OFFICE CADASTRAL ENGINEER'S FINAL CERTIFICATE ON FIELD NOTES

Department of the Interior

PUBLIC SURVEY OFFICE

		rnoenix, A	ilzona	
			March 9	, 1938
I, Office Cadastral Engineer	at Phoe	nix. Arizon	19	
do hereby certify that the foregoing tran	nscript of th	e Field Notes, re	turn and approval o	f the survey
of the mining claim of				
Phelp	s Dodge	Corporation	on .	
known as the	OVO NO.	15 1 mae		
situate in	Copper	Mountain		
Mining District Greenle	6	County	Ar1zona	
in Section 15, Township No.	4 S	, Range No.	29 E	, and
designated as Survey No. 4207	, has	been correctly co	pied from the origin	als on file in
this office; that said Field Notes furnish	h such an ac	ccurate description	on of said mining clai	m as will, if
incorporated into a patent, serve fully to	identify the	premises, and th	at such reference is m	ade therein
to natural objects or permanent monum	nents as wil	l perpetuate and	fix the locus thereof	f.
I further certify that Five Hundred	Dollars wo	orth of labor has	been expended or im	provements
made upon, or for the benefit of, ea	ch location	embraced in s	aid mining claim b	y claimant
	or	1ts	1	grantors,
and that said improvements consist of.	1 tunn	el, l winz	4 drifts,	and
4 crossouts, total value	\$2815			
		••••		
2				
4"				

and that no portion of said labor or impr	rovements l	nas been included	in the estimate of ex	xpenditures
upon any other claim.				
I further certify that the plat there	of, filed in	the U.S. Land (Office at Phoenix	2
Ari zona is correct	and in cor	formity with the	e foregoing Field No	tes.
		She	rman C. Fiske	

CERTIFICATE OF APPROVAL OF FIELD NOTES AND SURVEY OF MINING CLAIM

DEPARTMENT OF THE INTERIOR PUBLIC SURVEY OFFICE

A	At Phoenix, Arizona,
	<u>March 9, 1938</u> , x92x
I, Office Cadastral Engineer at Phoenix,	Arizona
do hereby certify that the foregoing and hereto attach	ned Field Notes and Return of the Survey of the
Mining Claim of	
Phelps Dodge	Corporation
	, known as the
NOVO NO	• 15 lode
situate inCopper	Mountain mining district,
Greenlee County,	
in Section, Township No	4 S. , Range No. 29 E.
, designated as Survey No	4207
executed by T. N. Stevens	S, U.S . Mineral
Surveyor, October 13 - 15	, 137, under my instructions dated
September 30 , 1937,	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 locati	on 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.	
	Sha PT.
	Office Cadastral Engineer.

осужимит уклугие огрыз 6—7131