September 10, 1958

Memorandum

To: Wingfield H. Chamberlain, Statistics Branch

From: W. R. Griswold, Director
Division of Base Metals

Subject: Semi-annual reports on certified projects, period January 1 to June 30, 1958

The following projects were inactive during the cited period:

DMEA	1088,	Idm-E	122	- Shelton Mining Co.
"	2485	"	325	- Dale Mining Co.
"	1098	"	134	- Combined Metals Reduction Co.
"	1371	"	48	- National Lead Co.
"	1094	"	16	- Maildriver Mining Co.
"	989	"	131	- Harrington Mines Co.
"	2309	"	295	- Comet Mines, Inc.
"	1923	"	360	- United Mining Development Co.
"	2341	"	436	- Western States Copper Corp.
"	3385	"	739	- Elkhorn Cons., Inc.
"	2672	"	437	- Duke Page Auto Co.
"	1 & 1A	"	4	- Chief Cons. Mining Co.

W. R. Griswold

WRG/lam

Copies for each docket

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code

March 10, 1958

Memorandum

To: Wingfield Chamberlain, Statistics Branch
Division of Operation Contract and Statistics

From: Director, Division of Base Metals

Subject: Report on Semi-Annual Reports of Certified Projects for the Period July 1, 1957 thru December 31, 1957.

The following projects were inactive during the cited period.

Docket No.	Contract No.	Name
DMEA-432	Idm-E1	Mines Management, Inc.
DMEA-2341	Idm-E436	Western States Copper Corporation
DMEA-2388	Idm-E301	American Zinc, Lead & Smelting Company
DMEA-2426	Idm-E345	Ira L. Mosely
DMEA-2612	Idm-E489	Granore Company, Assignee, (Index Mining Company)

W. R. Griswold

8623

DEFENSE MINERALS EXPLORATION ADMINISTRATION
For the period January 1 - June 30, 1957

Base Metals Division Date September 5, 1957.

Semi-Annual Report - Certified Project Date June 30, 1957.

DMEA No. 2341 Operator Western States Copper Corporation Contract No. Idm-E 436

Ore Reserves

Ore Estimates	Tons	Analysis
Original (DMEA)	8,333,333	1.0% Cu. 0.57 oz Ag 0.015 oz Au
Increase (Operator)		
Total		
Decrease (Production)	33,4010 Conc. carried over from last period.	
Net Available		

Investment

Shafts			Winzes			Drifts & Crosscuts		
Size	Feet	Cost	Size	Feet	Cost	Size	Feet	Cost

Raises			Drilling			Rehabilitation	
Size	Feet	Cost	Type & Size	Feet	Cost	Description	Cost

Facilities

Mine Plant		Mill		Roads	
Description	Cost	Description	Cost	Description	Cost

Remarks

The H. & R. Corp., Everett, Wash. which has a sublease on the property has not operated so far this season. No production during reporting period.

Anaconda has an option on the property and commenced drilling (diamond) in June. Contractors are Boyles Bros. On June 19th the first hole was down to a depth of 260 feet and was still in the breccia zone. The hole is due south of the portal of the main adit and is being drilled at a slope of -45°

WPKlugescheid/er

100338

DEFENSE MINERALS EXPLORATION ADMINISTRATION

For the Period July 1 - December 31, 1956

Base Metals Division Date May 27, 1957

Semi-Annual Report - Certified Project Date December 31, 1956

DMEA No. 2341 Operator Western States Copper Corporation Contract No. Idm-E 436

Ore Reserves

Ore Estimates	Tons	Analysis
Original (DMEA)		
Increase (Operator)		
Total		
Decrease (Production)	126	-
Net Available		

Investment

Shafts			Winzes			Drifts & Crosscuts		
Size	Feet	Cost	Size	Feet	Cost	Size	Feet	Cost

Raises			Drilling			Rehabilitation	
Size	Feet	Cost	Type & Size	Feet	Cost	Description	Cost

Facilities

Mine Plant		Mill		Roads	
Description	Cost	Description	Cost	Description	Cost

Remarks

Anaconda reputedly interested in this property.

W. P. Klugescheid/er

DEFENSE MINERALS EXPLORATION ADMINISTRATION

To January 1, 1956

Base Metals Division Date June 20, 1956

Semi-Annual Report - Certified Project Date December 31, 1955

DMEA No. 2341 Operator Western States Copper Corp. Contract No. Idm-E436

Ore Reserves

Ore Estimates	Tons	Analysis
Original (DMEA)		
Increase (Operator)		
Total		
Decrease (Production)	65.83 Ore 133.83 Conc.	8.84% Cu., 0.11 oz.Au/ton 5.10 oz.Ag/ton 13.74% Cu., 0.22 oz. Au/ton, 7.85 oz./ton Ag
Net Available		

Investment

Shafts			Winzes			Drifts & Crosscuts		
Size	Feet	Cost	Size	Feet	Cost	Size	Feet	Cost

Raises			Drilling			Rehabilitation	
Size	Feet	Cost	Type & Size	Feet	Cost	Description	Cost

Facilities

Mine Plant		Mill		Roads	
Description	Cost	Description	Cost	Description	Cost

Remarks

It is possible that the property may contain an inferred tonnage of 8,000,000 tons of more or less one per cent ore. There has been very little work done. This property is now under lease to some group (name not mentioned) which intends to produce ore. The Anaconda Copper Company has optioned another property from the owners of the Rainey mine and expect to carry out an extensive exploration program during the next two years.

(see attached sheet)

DMEA No. 2341 - Western States Copper Corp. Contract No. Idm-E436
Remarks (continued)

This management is very inefficient and their sampling of ore delivered is very poor and sloppy and so it is impossible to determine what the original grade of the ore produced is which is sent to the concentrator. The Field Team was unable to get any good information on this matter. Replacement value of mill estimated at $50,000 by Field Team, it is a 50 t.p.d plant. Company prospectus shows expenditure of $30,306 spent on the mine bldgs. and equipment from 1951-54.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON, D.C. 20242

JAN 28 1966

OFFICIAL COPY
IN REPLY REFER TO:
O. M. E.
RECEIVED
MAR 1 1966
INVESTIGATION F

Re: IMEA-2341 (Copper)
Western States Copper Corp.
Rainy Mine
King County, Washington
Contract Idm-E436

Mr. Maurice F. Galbreath
14727 - 35 Avenue, N. E.
Seattle, Washington 55

Dear Mr. Galbreath:

After the completion of the approved exploration work under the contract identified above, we asked to be informed about changes in the status of the property and production from it during the period of royalty obligation.

To assist you to furnish this information and to assure the accuracy of our records, please answer the questions on the back of this letter and return two copies to this office with copies of any pertinent documents.

Sincerely yours,

(signed) FRANK E. JOHNSON

Frank E. Johnson
Chief, Office of
Minerals Exploration

MME Form 63
Revised 7-65

REQUEST FOR INFORMATION ON CERTIFIED PROJECT
AND PROJECT UNDER ROYALTY AGREEMENT

1. ~~Since~~ From January 1965 to November 6, 1965 / , has there been a change in ownership, lease, or sublease? If yes, please state details of the transaction below and provide a true or signed copy of the pertinent documents, unless they have been provided before. Yes ☐ No ☐

2. ~~Since~~ From January 1965 to November 6, 1965, , has there been any production from the land subject to the contract? Yes ☐ No ☑

A. If so and it was shipped, give quantity, value, and name and address of purchaser.

	Quantity	Value

B. If stockpiled awaiting sale, state quantity, grade, and location.

Type	Quantity		Estimated Grade	Location
Ore		Tons	No Stockpile	
Concentrates		Tons		
Other		Tons		

3. Since , has any production been transported through workings (see of contract)? Yes ☐ No ☑

If so, state quantity, value, and disposition of material.

Disposition of Material	Quantity	Value

Submitted by:

Name M. F. Gilbreath Title Owner

Address 14727-35th NE Date Feb. 15-1966

Seattle Wash. 55

Owners
M. F. Gilbreath
D. D. Gilbreath
W. S. Grill

DMEA 2341

2341

INSTRUCTIONS TO DELIVERING EMPLOYEE

☐ Deliver *ONLY* to addressee ☐ Show address where delivered

(Additional charges required for these services)

RECEIPT

Received the numbered article described on other side.

SIGNATURE OR NAME OF ADDRESSEE *(must always be filled in)*

SIGNATURE OF ADDRESSEE'S AGENT, IF ANY

Shirley E. Christopher

DATE DELIVERED

12/13/6

SHOW WHERE DELIVERED (only if requested)

2366 - Eastham

GPO

UNITED STATES
DEPARTMENT OF THE INTERIOR

~~DEFENSE MINERALS~~
~~EXPLORATION ADMINISTRATION~~
WASHINGTON 25, D. C.

OFFICIAL BUSINESS

Office of Minerals Exploration
Washington, D.C. 20240

POSTAGE AND FEES PAID
DEPARTMENT OF THE INTERIOR

MOVED, LEFT NO ADDRESS ☐
MOVED, NOT FORWARDABLE ☐
ADDRESSEE UNKNOWN ☐
NO SUCH NUMBER ☐
UNCLAIMED ☐
REFUSED ☐

330

Wrong address
for this company

RETUR
TO WR
CLAIM

wrong address

Reg. mail

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
WASHINGTON 25, D. C.

November 9, 1964

Mr. [illegible]
Western States Copper
and Uranium Corporation
2366 East Lake E
Seattle, Washington

Re: DMEA-2341 (Copper)
Western States Copper Corp.
Rainy Mine
King County, Washington
Contract Idm-E436

Gentlemen:

After the completion of the approved exploration work under the contract identified above, we asked to be informed about changes in the status of the property and production from it during the period of royalty obligation.

To assist you to furnish this information and to assure the accuracy of our records, please answer the questions on the back of this letter and return two copies to this office with copies of any pertinent documents.

Sincerely yours,

George C. Selfridge

George C. Selfridge, Chief
Division of Exploration Operations

MME Form 63
Revised 3-62

DMEA-2341
Idm-E436

REQUEST FOR INFORMATION ON CERTIFIED PROJECT AND PROJECT UNDER ROYALTY AGREEMENT

1. Since September 1963 , has there been a change in ownership, lease, or sublease? If yes, please state details of the transaction below and provide a true or signed copy of the pertinent documents, unless they have been provided before. Yes ☐ No ☐

2. Since September 1963 , has there been any production from the land subject to the contract? Yes ☐ No ☐

   A. If so and it was shipped, give quantity, value, and name and address of purchaser.

	Quantity	Value
_____	_____	_____

   B. If stockpiled awaiting sale, state quantity, grade, and location.

Type	Quantity		Estimated Grade	Location
Ore	_____	Tons	_____	_____
Concentrates	_____	Tons	_____	_____
Other	_____	Tons	_____	_____

3. Since , has any production been transported through workings (see of contract)? Yes ☐ No ☐

   A. If so, state quantity, value, and disposition of material.

Disposition of Material	Quantity	Value
_____	_____	_____

Submitted by:

Name _____ Title _____

Address _____ Date _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
WASHINGTON 25, D. C.

November 9, 1964

Re: DMEA-2341 (Copper)
Western States Copper Corp.
Rainy Mine
King County, Washington
Contract Idm-E436

Western States Copper
and Uranium Corporation
2366 East Lake E
Seattle, Washington

Gentlemen:

After the completion of the approved exploration work under the contract identified above, we asked to be informed about changes in the status of the property and production from it during the period of royalty obligation.

To assist you to furnish this information and to assure the accuracy of our records, please answer the questions on the back of this letter and return two copies to this office with copies of any pertinent documents.

Sincerely yours,

George C. Selfridge

George C. Selfridge, Chief
Division of Exploration Operations

MME Form 63
Revised 3-62

DMEA-2341
Idm-E436

REQUEST FOR INFORMATION ON CERTIFIED PROJECT AND PROJECT UNDER ROYALTY AGREEMENT

1. Since September 1963, has there been a change in ownership, lease, or sublease? If yes, please state details of the transaction below and provide a true or signed copy of the pertinent documents, unless they have been provided before. Yes ☐ No ☐

2. Since September 1963, has there been any production from the land subject to the contract? Yes ☐ No ☐

   A. If so and it was shipped, give quantity, value, and name and address of purchaser.

	Quantity	Value
_____	_____	_____
_____	_____	_____

   B. If stockpiled awaiting sale, state quantity, grade, and location.

Type	Quantity		Estimated Grade	Location
Ore	_____	Tons	_____	_____
Concentrates	_____	Tons	_____	_____
Other	_____	Tons	_____	_____

3. Since , has any production been transported through workings (see of contract)? Yes ☐ No ☐

   A. If so, state quantity, value, and disposition of material.

Disposition of Material	Quantity	Value
_____	_____	_____

Submitted by:

Name _____ Title _____

Address _____ Date _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
WASHINGTON 25, D. C.

November 9, 1964

Re: DMEA-2341 (Copper)
Western States Copper Corp.
Rainy Mine
King County, Washington
Contract Idm-E436

Western States Copper
and Uranium Corporation
2366 East Lake E
Seattle, Washington

Gentlemen:

After the completion of the approved exploration work under the contract identified above, we asked to be informed about changes in the status of the property and production from it during the period of royalty obligation.

To assist you to furnish this information and to assure the accuracy of our records, please answer the questions on the back of this letter and return two copies to this office with copies of any pertinent documents.

Sincerely yours,

George C. Selfridge

George C. Selfridge, Chief
Division of Exploration Operations

MME Form 63
Revised 3-62

DMEA-2341
Idm-E436

REQUEST FOR INFORMATION ON CERTIFIED PROJECT AND PROJECT UNDER ROYALTY AGREEMENT

1. Since September 1963 , has there been a change in ownership, lease, or sublease? If yes, please state details of the transaction below and provide a true or signed copy of the pertinent documents, unless they have been provided before. Yes ☐ No ☐

2. Since September 1963 , has there been any production from the land subject to the contract? Yes ☐ No ☐

   A. If so and it was shipped, give quantity, value, and name and address of purchaser.

	Quantity	Value
_____		
_____	_____	_____

   B. If stockpiled awaiting sale, state quantity, grade, and location.

Type	Quantity		Estimated Grade	Location
Ore	_____	Tons	_____	_____
Concentrates	_____	Tons	_____	_____
Other	_____	Tons	_____	_____

3. Since , has any production been transported through workings (see of contract)? Yes ☐ No ☐

   A. If so, state quantity, value, and disposition of material.

Disposition of Material	Quantity	Value
_____	_____	_____

Submitted by:

Name _____ Title _____

Address _____ Date _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
WASHINGTON 25, D. C.

September 3, 1963

Re: DMEA-2341 (Copper)
Western States Copper Corp.
Rainy Mine
King County, Washington
Contract Idm-E436

Mr. Charles Sisenvine
Manager
Western States Copper Corp.
2366 East Lake E.
Seattle, Washington

Dear Sir:

After the completion of the approved exploration work under the contract identified above, we asked to be informed about changes in the status of the property and production from it during the period of royalty obligation.

To assist you to furnish this information and to assure the accuracy of our records, please answer the questions on the back of this letter and return two copies to this office with copies of any pertinent documents.

Sincerely yours,

W. R. Griswold

W. R. Griswold, Chief
Division of Minerals

OFFICIAL FILE COPY
O. M. E
RECEIVE SEP 13 1963

DATE		
9/17		800
	Griswold	500
		220

MME Form 63
Revised 3-62

REQUEST FOR INFORMATION ON CERTIFIED PROJECT AND PROJECT UNDER ROYALTY AGREEMENT

1. Since August 28, 1962, has there been a change in ownership, lease, or sublease? If yes, please state details of the transaction below and provide a true or signed copy of the pertinent documents, unless they have been provided before. Yes ☐ No ☒

2. Since August 28, 1962, has there been any production from the land subject to the contract? Yes ☐ No ☒

   A. If so and it was shipped, give quantity, value, and name and address of purchaser.

	Quantity	Value

   B. If stockpiled awaiting sale, state quantity, grade, and location.

Type	Quantity	Estimated Grade	Location
Ore	Tons		
Concentrates	Tons		
Other	Tons		

3. Since , has any production been transported through workings (see of contract)? Yes ☐ No ☐

   A. If so, state quantity, value, and disposition of material.

Disposition of Material	Quantity	Value

Submitted by:

Name Shirley E. Christopher Title Secy

Address 2366 East Lake E. Date 8/9/63

4512

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
WASHINGTON 25, D. C.

August 24, 1962

Re: DMEA-2341 (Copper)
Western States Copper Corporation
Rainy Mine
King County, Washington
Contract Idm-E436

Mr. Charles Sisenvine
c/o Northwestern Realty Company
500 Wall Street
Seattle 1, Washington

Dear Mr. Sisenvine:

After the completion of the approved exploration work under the contract identified above, we asked to be informed about changes in the status of the property and production from it during the period of royalty obligation.

To assist you to furnish this information and to assure the accuracy of our records, please answer the questions on the back of this letter and return two copies to this office with copies of any pertinent documents.

Sincerely yours,

W. R. Griswold, Chief
Division of Minerals

Written in ink on carbon copy of form:
"There has been no work done whatsoever except that necessary to keep claims - proof of labor has been filed."

MME Form 63
Revised 3-62

DMEA-2341
Idm-E436

OFFICIAL FILE COPY
O. M. E
RECEIVED SEP 4 1962

DATE	INITIALS	CODE
9/5		800
9-8		100
9/5	on leave	110
	~~Planned~~	500
	Yes ☐	No ☒
		220

REQUEST FOR INFORMATION ON CERTIFIED ~~PROJECT~~ AND PROJECT UNDER ROYALTY AGREEMENT

1. Since December 8, 1961, has there been a change in ownership, lease, or sublease? If yes, please state details of the ~~trans~~action below and provide a true or signed copy of the pertinent documents, unless they have been provided before. Yes ☐ No ☒

2. Since December 8, 1961, has there been any production from the land subject to the contract? Yes ☐ No ☒

   A. If so and it was shipped, give quantity, value, and name and address of purchaser.

	Quantity	Value

   B. If stockpiled awaiting sale, state quantity, grade, and location.

Type	Quantity	Estimated Grade	Location
Ore	Tons		
Concentrates	Tons		
Other	Tons		

3. Since , has any production been transported through workings (see of contract)? Yes ☐ No ☒

   A. If so, state quantity, value, and disposition of material.

Disposition of Material	Quantity	Value

Submitted by:

Name Charles Lesemore Title Mgr.

Address 2366 East Lake E. Date 8/28/62

4511

REQUEST FOR INFORMATION
FROM OPERATOR ON CERTIFIED PROJECT
AND PROJECT UNDER ROYALTY AGREEMENT

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

From: Field Officer, OME, Region I
So. 157 Howard Street
Spokane 4, Washington

Concerning:
Docket No. DMEA-2341 (Copper)
Property Rainy Mine
Location King County, Wash.

Date: December 7, 1961

E 436 Copper
Washington

Mr. Charles Sisenvine
% Northwestern Realty Co.
500 Wall Street
Seattle 1, Washington

OFFICIAL FILE COPY
O. M. E
RECEIVED DEC 22 1961
DATE | CODE
110
12/22 800
500
220

With the certification of the exploration project identified above, you were asked to inform our office about changes in the status of the property and production from it.

To assist you to furnish this information and to assure the accuracy of our records, we ask that you answer the questions below and return ~~xxxxxxxx~~ two copies to this office with copies of any pertinent documents.

Donald R. MacLaren
Donald R. MacLaren
Acting Field Officer, OME, Region I

1. Since Jan. 1, 1959, has there been a change in ownership, lease, or sublease about which the OME has not been notified? If yes, please state details of the transaction below and provide a true or signed copy of the pertinent documents. Yes ☐ No ☒

2. Since Jan. 1, 1959, has there been any production from the property?*Yes ☐ No ☒

A. If so and it was shipped, give name and address of purchaser?

	Quantity	Value

B. If stockpiled awaiting sale, state quantity, grade, and location.

Type	Quantity		Estimated Grade	Location
Ore		Tons	none	
Concentrates		Tons	none	
Other		Tons	none	

Submitted by:

Name Charles Sisenvine Title mgr

Address 500 Wall St, Seattle Date Dec 8-1961

MME Form 63 8-60 * Property means land subject to the contract. 79340-60

RECEIVED
DEC 11 1961
U. S. G. S.
SPOKANE, WASH.

OFFICIAL FILE COPY
O. M. E.
RECEIVED FEB 2 1959

DATE	INITIALS	CODE
2-2	G	220
"	[illegible]	110
"	[illegible]	800
2-4	wes	500

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

SEMI-ANNUAL REPORT OF CERTIFIED PROJECT

Reporting period: July 1 to December 31, 1958

Date of report: January 2, 1959

Operator: Western States Copper Corp., 5905 ~~Phinney Ave.,~~ Seattle 3, Washington

Mine name: Rainey

County and State: King County, Washington

Docket number and commodity: DMEA-2341 (copper)

Contract number: Idm-E436

Royalty remarks: Mr. Sisenvine has paid $90.00 in back royalties during this reporting period; two payments of $45.00 each. There remains $258.19 still due.

Production remarks: There has been no production from the property during the reporting period. However, production is expected during 1959.

Western States Copper & Uranium Corp. (formerly Western States Copper Corp.) has entered into a working agreement with Mr. Brade Knutson, Monroe, Wash. Mr. Knutson intends to crosscut from the shaft to a good intersection of copper ore which was encountered in one of the drill holes by Anaconda Company. This intersection was about 50 feet southwest of the shaft. Mr. Knudson has rehabilitated the mill in anticipation of early production.

Signed: E. A. Magill (Engineer)

Distribution:
OME (4)
USGS (2)
USBM (AD)
USBM (2)

CENTRAL FILE COPY
DMEA
RECEIVED JUL 31 1958

DATE	MINERAL	CODE
7-31	C	220
31	Cu	100
"	Fe	110
		800
		500

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

SEMI-ANNUAL REPORT OF CERTIFIED PROJECT

Reporting period: January 1 to June 30, 1958

Date of report: June 6, 1958

Operator: Western States Copper Corp., 5905 Phinney Avenue, Seattle 3, Washington

Mine name: Rainey

County and State: King County, Washington

Docket number and commodity: DMEA-2341 (copper)

Contract number: Idm-E436

Royalty remarks: Mr. Sisenvine has paid $180.00 in back royalties during this reporting period; four payments of $45.00 each. There remains $348.19 still due.

Production remarks: There has been no production from the property during the reporting period. The property is inactive.

Anaconda Copper Mining Company relinquished its option on the property. Apparently the grade was too low to be of interest to them although the size of the breccia zone was larger than originally believed.

It is rumored that several other large mining companies are interested in the property and plan to examine it this coming summer. The property needs additional diamond drilling to determine its potential.

Distribution:
DMEA (4)
USGS (2)
USBM (AD)
USBM (2)

Signed: E. A. Magill (Engineer)

ACTION ON INFORM
R FINAL FIELD REPORT
[illegible] 1-28

Returned to:

[illegible]

[illegible] Contract Mails and Files Division

[illegible] Contract Mails and Files

7 500

Note comments in report regarding:

1.

2.

3.

4.

and take appropriate action.

Action taken by Division:

Robert E. Adams

FILE COPY
DMEA
JAN 27 1958

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

SEMI-ANNUAL REPORT OF CERTIFIED PROJECT

Reporting period: July 1 to December 31, 1957

Date of report: December 10, 1957

Operator: Western States Copper Corporation
5905 Phinney Avenue
Seattle 3, Washington

Mine name: Rainey

County and State: King County, Washington

Docket number and commodity: DMEA-2341 (copper)

Contract number: Idm-E436

There has been no production from the property during the reporting period. The royalty status remains the same as reported for January 1 to June 30, 1957.

Royalties due amount to $528.19. The matter of unpaid royalties was referred to the Attorney General for action by letter dated August 29, 1956. In a phone conversation on November 20, 1957, Mr. Sisenvine stated that he would start paying the back royalties at an unspecified amount per month. To date no payments have been received.

Anaconda Copper Mining Company drilled six diamond drill holes on the property between June and September 1957. Total footage is believed to be over two thousand feet. Data on the results of this drilling has not as yet been furnished to the Operator. It is understood that the size of the breccia zone is larger than originally believed; however, no information is available on the grade.

Distribution:
DMEA (4) USBM (2)
USGS (2) USBM (AD)

Signed: E. A. Magill (Engineer)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

SEMI-ANNUAL REPORT OF CERTIFIED PROJECT

Reporting period: July 1 to December 31, 1957

Date of report: December 10, 1957

Operator: Western States Copper Corporation
5905 Phinney Avenue
Seattle 3, Washington

Mine name: Rainey

County and State: King County, Washington

Docket number and commodity: DMEA-2341 (copper)

Contract number: Idm-2436

There has been no production from the property during the reporting period. The royalty status remains the same as reported for January 1 to June 30, 1957.

Royalties due amount to $528.19. The matter of unpaid royalties was referred to the Attorney General for action by letter dated August 29, 1956. In a phone conversation on November 20, 1957, Mr. Simonsine stated that he would start paying the back royalties at an unspecified amount per month. To date no payments have been received.

Anaconda Copper Mining Company drilled six diamond drill holes on the property between June and September 1957. Total footage is believed to be over two thousand feet. Data on the results of this drilling has not as yet been furnished to the Operator. It is understood that the size of the breccia zone is larger than originally believed; however, no information is available on the grade.

Signed: E. A. Magill (Engineer)

Distribution:
DMEA (4) USBM (2)
USGS (2) USBM (AD)

ACTION ON INTERIM
OR FINAL FIELD TEAM REPORT

Date /11

Referred to:

1. ~~Mr. Mittendorf~~
2. ~~Mr. Johnson~~
3. ~~Mr. Chambers~~
4. Docket Control Mails and Files
5. ~~Division~~
6. ~~Docket Control Mails and Files~~
7. 500

Note comments in report regarding:

1. Royalties due
Follow-up
2.
Matter of collecting $528.19
3. royalty was referred to attorney General on August 29, 1956
4.
C.E.F
7/12/57

and take appropriate action.

- - - - - - - - - -

Action taken by Division:

Robert E. Adams

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

SEMI-ANNUAL REPORT OF CERTIFIED PROJECT

Reporting period: January 1 to June 30, 1957 Date of exam: June 19, 1957

Operator: Western States Copper Corp., 5905 Phinney Ave., Seattle 3, Wash.

Mine name: Rainey

County and State: King County, Washington

Docket number and commodity: DMEA-2341 (copper)

Contract number: Idm-E436

7/11	P	220
11	Cere	100
~~3/15~~	~~Pbz~~	~~500~~

Date of contract: November 6, 1952

Date of certification: October 3, 1955

Expiration date of royalty payments: November 6, 1965

Total amount of contract: $22,300.00

Total expenditures under contract: 10,830.00

Amount of Government participation at 50%: 5,415.00

Royalty payments this period: $ 304.75 *

Previous royalty payments: 1,171.72

Total royalty payments to date: 1,476.47

Percent Government participation repaid: 27%

Royalty due on production to date: $528.19 (due on royalties from 9/23/53 to 9/12/55 incl.)

Royalty remarks: Royalty audit by C. E. Fisher, dated May 21, 1956.

*Payment of $304.75 was overlooked by lessee during the previous reporting period; it does not represent production during this period.

	Tons	Analysis
Original estimate of DMEA reserves (from Field Team final report) Mines ___ Survey ___ Joint X	8,333,333	1.0% Cu
Revised estimate of DMEA reserves (Field Team) Mines __ Survey___ Joint ___		
Increase of reserves by work performed subsequent to DMEA project work	none	
Production of DMEA concentrates (this period)	none	
(previous)	368.2875	
(to date)	368.2875	
Production of Operator's ore found subsequent to DMEA work (this period)		
(previous)		
(to date)		

Percent of revised reserves mined:

Production remarks: The H & R Corp., Everett, Wash. who have a sublease on the property from Western States Copper Co. have not operated the property so far this season. There has been no production from the property during the reporting period.

Other remarks: Anaconda Copper Mining Co., who has an option on the property from the owners and from the lessees (Western States Copper Corp.) commenced diamond drilling on the property early in June. Drilling is under contract to Boyles Bros. Diamond Drill Contractors. One surface drill is operating on a double shift basis. At the time of the visit (June 19) the first hole was down to a depth of 260 feet and was still in the breccia zone. The hole is being drilled approximately due south from the portal of the main adit at minus 45 degrees.

Distribution:
DMEA (4) USBM (AD)
USGS (2) USBM (2)

Signed: E. A. Magill (Engineer)

ACTION ON INTERIM
OR FINAL FIELD TEAM REPORT

Date 22 JAN 1957

Referred to:

1. ~~Mr. Mittendorf~~
2. ~~Mr. Johnson~~
3. ~~Mr. Chambers~~
4. ~~Docket Control Mails and Files~~
5. ~~Mr. Johnson~~ ~~Division~~
6. Docket Control Mails and Files

Note comments in report regarding:

1. [illegible]

2.

3.

4.

and take appropriate action.

- - - - - - - -

Action taken by Division:

Sent to Atty Gen 8/29/56
Talbert

Robert L. Adams

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

SEMI-ANNUAL REPORT OF CERTIFIED PROJECT

Reporting period: July 1 to December 31, 1956 Date of exam: Dec. 6, 1956

Operator: Western States Copper Corp., 5905 Phinney Ave., Seattle 3, Wash.

Mine name: Rainey

County and State: King County, Washington

Docket number and commodity: DMEA-2341 (copper)

Contract number: Idm-E436

Date of contract: November 6, 1952

Date of certification: October 3, 1955

Expiration date of royalty payments: November 6, 1965

Total amount of contract: $22,300.00

Total expenditures under contract: $10,830.00

Amount of Government participation at 50%: $ 5,415.00

Royalty payments this period: $ 961.39

Previous royalty payments: $ 210.33

Total royalty payments to date: $ 1,171.72

Percent Government participation repaid: 21.6%

Royalty due on production to date: $528.19 (due on royalties from 9/23/53 to 9/12/55 incl.)

Royalty remarks: Royalty audit by C. E. Fisher, dated May 21, 1956.

Semi-annual report
Contract No. Idm-E436

	Tons	Analysis
Original estimate of DMEA reserves (from Field Team final report) Mines ___ Survey___ Joint ___	Report in preparation.	
Revised estimate of DMEA reserves (Field Team) Mines ___ Survey___ Joint ___		
Increase of reserves by work performed subsequent to DMEA project work		
Production of DMEA ore (this period)	126.1630 SDT	
(previous)	208.7235	
(to date)	334.8865	
Production of Operator's ore found subsequent to DMEA work (this period)		
(previous)		
(to date)		
Percent of revised reserves mined		

Production remarks: H & R Corp., Box 472, Monroe, Washington, operated from May 1956 until late in November when heavy snow curtailed operations. During the latter part of the summer the mill was operated on a 24-hour basis. Ore for the mill was obtained from the lens exposed on the 100-foot level. According to reports this lens of ore has now been mined out above the 100-foot level. Further mining on this particular ore shoot would entail further sinking.

Other remarks: It is reported that Anaconda Copper Mining Company has optioned the property. Reportedly they intend to carry out a diamond drilling program on the property during the 1957 season.

Distribution:
DMEA (4)
USGS (2)
USBM (AD)
USBM (2)

Signed: E. A. Magill (Engineer)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

RECEIVED
JUL 15 1955

July 8, 1955

Memorandum

To: DMEA Field Team, Region I, Northwest District

From: Donald F. Kellum, Geologist, U. S. Geological Survey, and E. A. Magill, Engineer, U. S. Bureau of Mines

Subject: Progress examination, Docket No. DMEA-2341 (copper), Western States Copper Corporation, King County, Washington, Contract No. Idm-E436

A visit was made to the subject property on June 10, 1955. This is the first visit made to this property in the 1955 season. Mr. Knudson, superintendent, and three miners were working at the property.

At the time of the visit everyone was working to prepare the mill for operation. Stoping is also being carried on underground. Unfortunately they had just blasted before we arrived at the property, and we were unable to inspect the underground workings. However, according to Mr. Knudson no work had been carried out this year on the DMEA project. All work had been toward placing the property in production.

The present status of the work is as follows:

Work	Allowed	Completed
Drift on Main Level	100'	none
Shaft sinking	100'	100'
Drift on 100' level	350'	52'
Excavate skip pocket 100' level		Completed

Mr. Knudson was questioned as to when work was expected to recommence on the DMEA program. He stated that at the present time they were anxious to get the mill in operation, and as soon as that was accomplished they hoped to commence drifting on the 100-foot level. The direction of the drifting was discussed, and it was agreed that following the structure exposed on the 100-foot level to the northwest was the best alternative.

Mr. Sisenvine, president of Western States Copper, was contacted in Seattle by phone on June 14th. He stated that they hoped to be able to commence work under the DMEA program in the

near future. He was advised that according to Amendment No. 4 royalties were due on any shipments made, even though a certificate of discovery had not been made.

No shipments of ore or concentrates have been made to the smelter this year to date.

Distribution:
DMEA (orig. & 3)
USBM (2)
USBM (AD)
Docket
Kellum

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D.C.~~

1201 N. Division St.
Spokane 2, Washington
July 7, 1955

MEMORANDUM

To: DMEA Field Team, Region I, NW District

From: E. A. Magill, Mining Engineer, Bureau of Mines

Subject: Routine report, Docket No. DMEA 2341 (copper), Western States Copper Corp., King County, Wash., Contract Idm-E436

Mr. Charles Sisenvine, president of the subject company, was contacted by phone on July 6, 1955. He stated that no work had been carried out under the DMEA project during the month of June. Work has been concentrated on mining and milling in order to improve the company's finances.

Mr. Sisenvine stated that he hoped to be able to continue the DMEA work in the near future but because of the strike at the A.S. & R. smelter at Tacoma (where his concentrates are shipped) he could give no definite date.

E. A. Magill

Orig. & 3 cys - Wash.
USGS (2)
DMEA
M/D
AD
EAM/he

[illegible]

Date: [illegible]

Referred to:

1. ~~[illegible]~~
2. ~~[illegible]~~
3. ~~[illegible]~~
4. ~~[illegible]~~
5. ~~[illegible]~~
6. Doctor Control Mells and Files

Note comments in report regarding:

1. ~~Preliminary~~
~~the reserves est~~
2. F.T. final report
3. Approaching long
4. ~~[illegible]~~

and take appropriate action.

- - - - - -

Action taken by Division:

Comments noted

Initials

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

SEMI-ANNUAL REPORT OF CERTIFIED PROJECT

Reporting period: January 1 to June 30, 1956 Date of exam: June 21, 1956

Operator: Western States Copper Corp., 5905 Phinney Ave., Seattle 3, Wash.

Mine name: Rainey

County and State: King County, Washington

Docket number and commodity: DMEA-2341 (copper)

Contract number: Idm-E436

Date of contract: November 6, 1952

Date of certification: October 3, 1955

Expiration date of royalty payments: November 6, 1965

Total amount of contract: $22,300.00

Total expenditures under contract: $10,830.00

Amount of Government participation at 50%: $ 5,415.00

Royalty payments this period: none

Previous royalty payments: $210.33

Total royalty payments to date: $210.33

Percent Government participation repaid: 3.88%

Royalty due on production to date: $528.19

RECEIVED
JUL 12 1956

Royalty remarks: Royalty audit by C. E. Fisher, dated May 21, 1956. Letter to the Operator, dated June 8, 1956, from the Administrator regarding back royalties. In letter of June 14, 1956, the Operator stated his intention to make payment before July 31, 1956.

Original estimate of reserves (from final Engr.-Geol. report):	Report in preparation. See "Other Remarks".
Increase (or decrease) of reserves by work performed subsequent to original and last Field Team estimates:	none
Revised estimate of reserves:	none
Production this period:	none shipped
Amount of previous production (since date of contract):	83.03 tons crude ore 125.693 " concentrates
Total DMEA production to date:	Same as above
Percent of revised reserves mined:	Unknown

Production remarks:

The property was closed down by winter weather in November 1955. A sublease was granted to H and R Corp., Box 472, Monroe, Washington early in the spring of 1956, with work at the property beginning in May. Considerable rehabilitation of the buildings (due to winter snow damage) was necessary before mining and milling could be commenced. The mill was started on a one shift basis on June 17, milling ore broken last fall. At the time of a visit on June 21, 1956 they had about 10 tons of concentrates containing approximately 15 percent copper stored awaiting shipment. Mr. Barde Knudson, superintendent, stated that they did not intend to make any shipments to the smelter before July 1.

Other remarks:

At the present stage of development no intelligent estimate of reserves can be made. However, on the basis of present exposures which are limited and far apart, an estimate of 8,000,000 tons of inferred ore with a grade of about 1 percent copper has been made. Future work will undoubtedly change this figure greatly.

Distribution:
DMEA (4)
USGS (2)
USBM (AD)
USBM (2)

Signed: E. A. Magill (Engineer)

2341

ACTION ON INTER[illegible]

[illegible]

Date MAR 3 [illegible]

Referred to:

1. ~~Mr. Hammond~~
2. ~~Mr. Johnson~~
2. Mr. Chambers
4. Docket Control Mails and Files
5. _____ Division
6. Docket Control Mails and Files

Note comments in report regarding:

1. Contains some new info
2.
3.
4.

and take appropriate action.

- - - - - -

Action taken by Division:

[illegible]

_____

Initials

ADDENDUM TO
SEMI-ANNUAL REPORT OF CERTIFIED PROJECT
March 15, 1956

Reporting period: July 1, 1955 to December 31, 1955

Operator: Western States Copper Corporation

Mine name: Rainey mine

County and State: King County, Washington

Docket No. and Commodity: DMEA-2341 (copper)

Contract No.: Idm-E436

Ore Reserves:

Work at the property is insufficient to make any intelligent estimate of ore reserves or grade. The Operator estimates that he has 500 tons of 5.0% copper ore broken in the stope on the 100-foot level. It is possible that the property may contain an inferred tonnage of 8,000,000 tons of 1.0 ± percent copper ore. This figure is based on three exposures; additional work might change this estimate substantially.

It will not be possible to tell what the potential of the property is until a substantial amount (10,000 feet plus) of diamond drilling is carried out on the property. The work completed under the DMEA contract has disclosed a breccia zone which warrants sufficient additional work to determine its limits and grade.

Royalty Payment Projections:

(a) Production potential.

(1) Immediate future. - Production will very likely be on same scale as past year, i.e., royalty payments of about $500.

(2) Long term. - Property has potential of repaying loan in full if placed in full time production.

(b) Factors affecting production potential.
  (1) Poor management.
  (2) Operator short of operating capital.
  (3) High production costs due to the small operation and finances allow a crew of only 3 or 4 men to mine and operate the mill.

Investment of Private Capital:

The encouraging results of the DMEA project have centered some interest in the district.

Anaconda Copper Mining Company has optioned another property in the district from the owners of the Rainey mine. It is expected that they will carry out an extensive exploration program on this property in the next two years.

Signed: E. A. Magill (Engr.)

Distribution:
DMEA (4)
USGS (2)
USBM (AD)
USBM (2)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
JAN 9 1956

SEMI-ANNUAL REPORT OF CERTIFIED PROJECT

Period: July 1, 1955 to December 31, 1955

Docket No.: DMEA-2341
Contract No.: Idm-E436

Operator: Western States Copper Corp., 5905 Phinney Ave., Seattle 3, Wash.

Commodity: Copper

Mine name: Rainey

County: King
State: Washington

Date of contract: November 6, 1952

Date of certification: October 3, 1955

Expiration date of royalty payments: November 6, 1965

Date of examination for this report: June 10, 1955

Total amount of contract: $22,300.00

Total expenditures under contract: $10,830.00

Amount of Government participation at 50%: $ 5,415.00

Royalty payments this period: $210.33

Previous royalty payments: none

Total royalty payments to date: $210.33

% Loan repayment completed: 3.88%

Amount of royalty due: $528.19

Royalty remarks: A list of the shipments made is attached to a memorandum by E. A. Magill, dated November 22, 1955. This list has been verified by the Division of Mineral Industries, Bureau of Mines, Albany, Oregon.

Original estimate of reserves
(from final Engr.-Geol. Report): Insufficient work done to make estimate.

Increase (or decrease) of reserves
by work performed subsequent to
expiration or termination of
contract:

Revised estimate of reserves:

Production this period (ore or concentrates):	27.4 tons crude ore 63.799 tons concentrates
Amount of previous production (since date of contract):	55.63 tons crude ore 61.894 tons concentrates
Total DMEA production to date:	83,03 tons crude ore 125.693 tons concentrates
% of revised reserves mined:	Not known

Production remarks:

The Operator carried out no work under the DMEA contract during 1955. Activity was entirely on mining and milling the ore exposed on the 100-foot level. The project was terminated by mutual agreement on November 18, 1955.

Other remarks: (Investments, etc.)

On the basis of an unexplored ore intersection discovered by DMEA work the Operator constructed a 50 t.p.d. flotation mill. # ?

Signed: E. A. Magill (Engr.)

Distribution:
DMEA (4)
USGS (2)
USBM (AD)
USBM (2)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

INTERIOR DEPT.
DEC 9 - 1954
SOLICITOR

~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

November 23, 1954

Memorandum

To: DMEA Field Team, Region II

From: Willard P. Puffett, Geological Survey, and E. A. Magill, Bureau of Mines

Subject: Docket No. DMEA-2341 (copper), Progress examination, Western States Copper Corporation, King County, Washington Contract Idm-E436

A visit was made to the subject property on November 10, 1954. Mr. Knudson, superintendent, and two miners were working at the property.

At the time of the visit the two miners were preparing to drill in the stope above the 100-foot level. The mill was temporarily shut down for repairs, but apparently it has been run whenever in condition during the last few months.

According to Mr. Knudson there has been no work under the DMEA contract since Mr. Puffett's last visit on September 22, 1954. We were unable to check this statement as the 100-foot level was flooded at the time of our current visit. However, it was possible to get into the stope above the 100-foot level. This stope is up about 30 feet above the 100 level and alongside the shaft on the south and east sides.

Total work completed under the exploration project contract consists of 100 feet of shaft sinking, cutting of shaft station and pocket on 100-foot level, and 52 feet of drifting and crosscutting on the 100-foot level. This leaves 100 feet of drifting on the main level and 298 feet of drifting on the 100-foot level uncompleted. The operator has been paid for all work excepting for one foot of drifting on the 100-foot level.

An extension of the exploration project contract would not appear warranted from an operational standpoint inasmuch as the operator has only completed 14 feet of shaft, cut the skip pocket and carried out 52 feet of drifting in the last seven months. Most of his efforts during this period have been toward putting his mill in production. About 10 truckloads of concentrates have been shipped to the A.S. & R. Smelter at Tacoma during the last three months. A certificate of discovery has not been made on the property as yet

and no royalties have been received from this production.

This property appears to have a chance with the proper exploration program of developing into a large low-grade deposit. It is possible, though rather doubtful with the present milling set up, that the operator may selectively mine the richer portions of the deposit profitably.

Distribution:
DMEA (Orig. & 3)
USBM (2)
Docket
Puffett
EAM/fw

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
1201 N. Division St.
Spokane 2, Washington
September 27, 1954

MEMORANDUM

To: DMEA Field Team, Region II

From: E. A. Magill, Mining Engineer, Bureau of Mines

Subject: Routine report, Docket No. DMEA 2341 (copper), Western States Copper Corporation, King County, Washington, Contract Idm-E436

Mr. Charles Sisenvine was contacted by telephone on September 24, 1954 regarding the results of the recent shipments of concentrates made to the A. S. & R. smelter at Tacoma, Washington. The only shipment which he has received returns on is the first one made this year; the data on it is as follows:

Date of shipment - September 7, 1954 (settlement sheet date)
Weight (dry) - 20167 pounds
Net value received from smelter - $409.86

Assay data:

Gold	0.14 oz. per ton	0.015
Silver	5.01 " " "	0.56
Copper	9.11 percent	~ 1.01
Zinc	0.20 "	
Arsenic	0.15 "	
Silica	4.8 "	

The Operator is apparently concentrating his efforts on mining at the present time and plans on making regular shipments of concentrates to the smelter.

It is recommended that a certificate of discovery be issued on the property so that the Government will receive its royalty from production. The Operator is producing from the 100 foot level which was driven under the DMEA exploration contract.

E. A. Magill

Orig. & 3 cys - Wash.
USGS (2)
DMEA
M/D
AD
EAM/he

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

September 23, 1954

Memorandum

To: DMEA Field Team, Region II

From: Willard P. Puffett, Geologist, U. S. Geological Survey

Subject: Docket No. DMEA 2341 (copper), Routine inspection of Western States Copper Corporation property, King County, Washington, Contract No. Idm-E436

Don Kellum, geologist, Geological Survey, and I made a routine inspection of the Western States Copper Corporation property on Wednesday, September 22, 1954. Mr. Knudsen, superintendent, and three miners were at the property. We made a map of the 100 level, a copy of which is attached to this report.

The work on the 100-level has explored the breccia zone to 19 feet south and 32 feet east of the shaft. In the east workings, the ground has been stoped to nearly 18 feet above the level for a length of approximately 15 feet. The miners report that good sulphide ore still remains in the top of this stoped area. This mined-out area is aligned along the hanging wall of a definite sharp fracture which strikes N. 46° W., and dips 72° S. In the west end of the workings, fair concentrations of sulphides occur near this fracture; whereas in the east end of the workings, the mineralized zone is very narrow and sparsely mineralized with sulphides.

Sharp fractures bound a large mass of unbrecciated diorite in the east end of the level, and there are some indications that the eastern margin of the breccia zone is nearly reached. One more round is to be drilled to the east to determine if the brecciated rock persists in this direction.

In the south face of the workings, the rock is weakly brecciated and contains sparse pyrite. Some of the rock is much bleached and sericitized near small lenses of tourmaline, but other than this there does not appear to be much promise of finding ore by continuing to the south.

The better mineralized areas seem to be parallel to the prominent northwest-trending fracture. It is also known from exposures on the surface, that the zone containing brecciated rock persists to the northwest. Consequently, after consultation with Mr. Knudsen, it was decided that if the next round to the east did not find any more promising evidence of ore, a drift should be driven to the northwest along the strong, prominent fracture.

Mr. Knudsen reported that three truckloads of concentrates, aggregating about 22 tons, had been shipped to the smelter at Tacoma, Washington. He did not have any information regarding the metallic content or the value received from the sale of these concentrates.

The total amount of drift and crosscut on the 100 level is measured as 52 feet. To obtain this figure, I considered there to be 19 feet of crosscutting south from the shaft, 17 feet of drifting to the southeast, and 16 feet of crosscutting on the east end of the level. There has been considerable slabbing along the walls, which makes for very irregular ground outlines. As the operator has been conducting mining operations on the level, it is believed that only the central part of the workings, disregarding slab rounds into the walls, should be considered as allowable under the contract.

Distribution:
DMEA (Orig. & 3)
USBM (2)
Docket
Puffett

Pocket (if under applicable)

Explanation

UNBRECCIATED DIORITE

WEAKLY BRECCIATED DIORITE

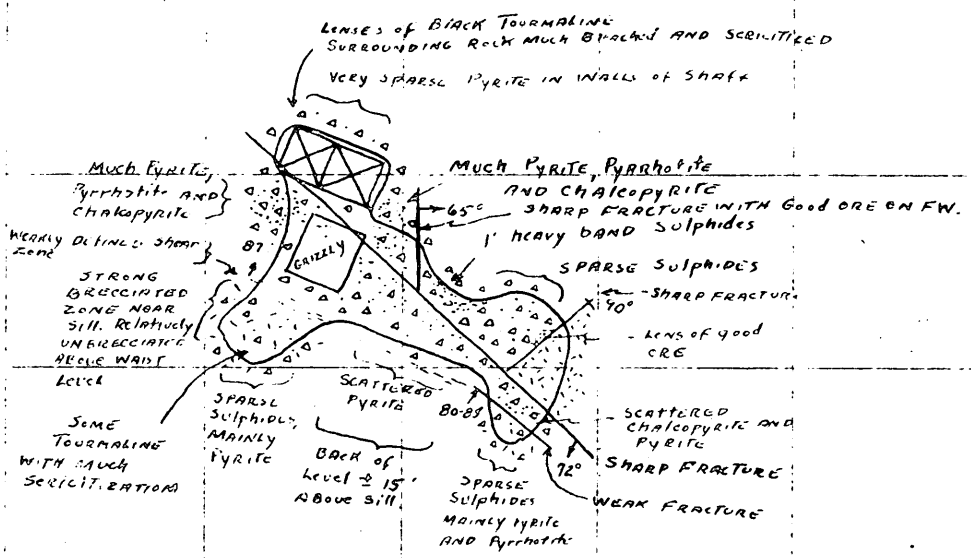
STRONGLY BRECCIATED DIORITE

MINERALIZED BRECCIA
DOTS SHOW RELATIVE CONCENTRATION OF SULPHIDES

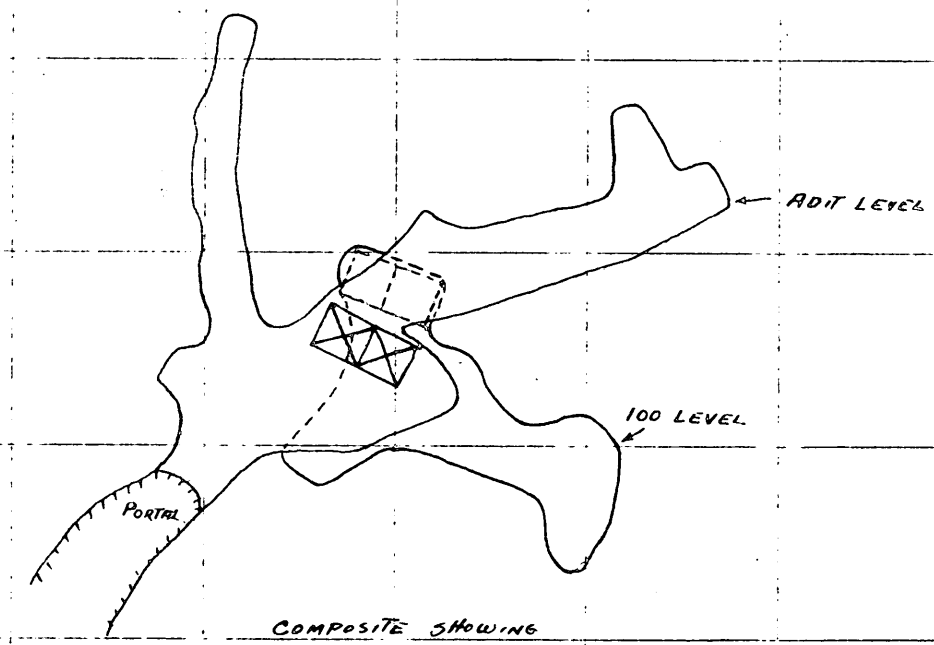
60° WEAK SHEAR ZONE

70° PROMINENT, SHARP FRACTURE

NORTH



GEOLOGY ON 100 LEVEL



COMPOSITE SHOWING
ADIT LEVEL AND 100 LEVEL

Tape & Compass Traverse 9/22/54
D. Kollum, USGS
W. Duffer, USGS

WESTERN STATES COPPER CORPORATION MINE
KING COUNTY, WASHINGTON
1" = 20'

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D. C.~~

1201 N. Division St.
Spokane 2, Washington
September 13, 1954

MEMORANDUM

To: DMEA Field Team, Region II

From: E. A. Magill, Mining Engineer, Bureau of Mines

Subject: Progress examination, Western States Copper Corporation, King County, Washington, Contract Idm-E436, Docket No. DMEA 2541 (copper)

A visit was made to the subject property on September 3, 1954. Mr. Knudson, superintendent, two miners, and one mill man were working at the property.

Amendment No. 3, dated August 2, 1954, was made to the contract allowing an extension of the completion date to 24 months, i.e., to November 6, 1954. This amendment was made to give the Operator additional time to complete his contract.

The Operators have been running their flotation mill on a one-shift basis for the last several weeks. The mill has a capacity of 15 - 20 tons per 8-hour shift. Two truckloads (about 15 ton) of copper concentrates were shipped to the A. S. & R. Smelter at Tacoma late in August. At the time of the visit there was another truckload (about 7 ton) awaiting shipment. No data could be obtained on the grade of the mill heads or tails; apparently the Operators take no systematic samples. Assay results on the shipment have not as yet been returned from the smelter.

Very little work has been carried out underground since my last visit to the property. The Operators have driven two headings on the 100 foot level (see attached map); these headings extend 16 feet to the southwest and 23 feet southeast. The southeast heading has been widened out into a T-shape. A single compartment ore pocket has been completed in the southwest heading with a chute in the shaft below the 100 level for loading the bucket, which is used for hoisting ore and waste. Water flow in the shaft has diminished considerably because of the season and the shaft now fills up only to the 100 foot level in a 24-hour period. An air-driven piston type pump has been installed in the manway compartment on the 100 level to handle the water.

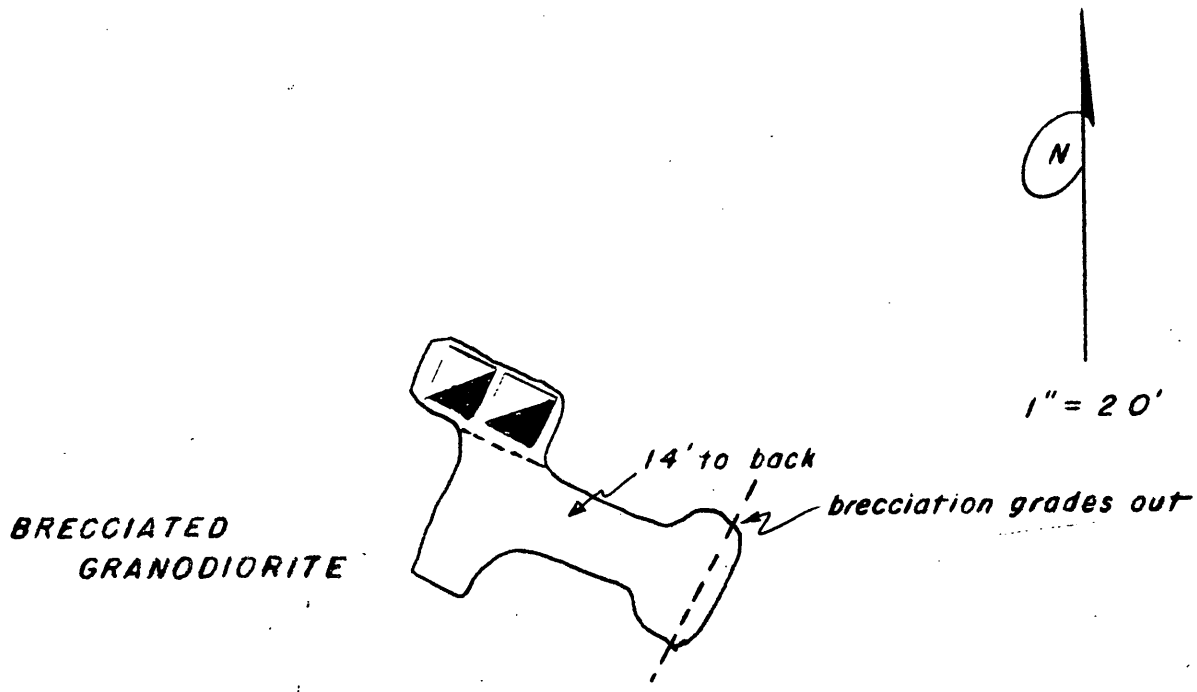
In order to produce ore for the mill the southeast heading has been stoped up from 8 to 14 feet above the level. This is an open stope with the broken ore being hand mucked into the ore pocket. This stoping is being carried on much too close to the shaft, and if such a practice is continued it may make future work on the 100 foot level difficult. Mr. Sisenvine, president of the Western States Copper Corporation, was questioned as to why stoping had been started rather than continuing the drift work under the DMEA contract. He stated that the company wished to mill some ore so as to defray their expenses. It was pointed out to him that work under the DMEA program might be much more advantageous, especially from a future operating standpoint.

The workings on the 100 foot level are still within the brecciated granodiorite excepting for the face of the southeast heading where brecciation is not predominant. Sulfides and quartz act as cementing material with pyrite, pyrrhotite, chalcopyrite and black tourmaline predominating.

It is obvious that the Operator will not complete the DMEA contract within the two-year period allowed.

E. A. Magill

Orig. & 3 cys - Wash.
USGS (2)
DMEA
M/D
AD
EAM/he



PLAN

100 FOOT LEVEL

Rainy Claims, King County, Washington, Western States Copper Corp.
DMEA — Docket No. 2314 (Cu)
Contract Idm E - 436

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

August 3, 1954

Memorandum

To: DMEA Field Team, Region II

From: Willard P. Puffett, Geologist, U. S. Geological Survey

Subject: Docket No. DMEA-2341 (copper), Routine inspection of Western States Copper Corporation property, King County, Washington, Contract No. Idm-E436.

On Tuesday, July 20, Don Kellum, geologist, Geological Survey, and I visited the Western States Copper Corporation property. Mr. Knudsen, superintendent, and a miner were at the property. They had just returned to the mine from a week end layoff and had just begun dewatering the shaft. Mr. Knudsen reported there was nearly 50 feet of water in the shaft, and thus an examination of any new work was impossible.

Mr. Knudsen stated the shaft station was completed and drifting on the 100 level would soon be recommenced.

A sample was taken of some recent mill concentrates of development rock produced from the shaft sinking. This sample yielded an assay of 0.060 ounces per ton gold, 4.2 ounces per ton silver, and 7.82 percent copper. Curiously these concentrates do not contain as much metal as did a shipment of high-grade ore that was shipped last summer. This high-grade ore assayed 0.11 ounces per ton gold, 4.0 ounces per ton silver, and 7.9 percent copper.

Distribution:
DMEA (orig & 3)
USBM (2)
Docket
Puffett

Form MF-104 (Rev.)
(April 1952)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.5

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 18 1954

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of July, 1954 Docket No. DMEA 2341 Contract No. DM-P-436
Operator's Name Western Lates Copper Corp Minerals copper
Address 5305 Rainier Ave, Seattle Wash
Contract Amount, $ 22,200.00 Government Participation: 50 % Amount, $ 11,100.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
~~Bulldozing~~ Shaft					8800.00	8800.00
Crosscutting						
6 ft at 30.00 ft Drifting	180.00	1350.00	1530.00	180.00	1350.00	1530.00
Pocket & station					500.00	500.00
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	180.00	1350.00	$ 1530.00	180.00	10650.00	10830.00

I certify that the above bill is correct and just and that payment therefor has not been received.

Date Aug 15, 1954 *Payee Western Lates Copper Corp

Per [signature] Title Pres.

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 90 00

Signature [signature] (Authorized Certifying Officer)

Date 10/14/54 Vou. No. 1319

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. 436 in accordance with the terms of the contract.

Signature Elmer A. Magill Title Mining Engr Date Oct 8, 1954

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature (S) Thomas E. Howard Title Mining Engr Date 10/13/54

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

GPO 872893

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 18 1954

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of July 195 4 Docket No. DMEA #2341 Contract No. IDM-E-436

Operator's Name Western States Copper Corp Minerals copper

Address 5905 Phinney Ave, Seattle Wash.

OPERATION	Unit	Costs This Month	Units This Month	Costs to Date	Units to Date	Unit Costs to Date	Authorized by Contract: Units	Authorized by Contract: Unit Costs
Drifting 6 feet	ft	$180.00	6	$1530.00	51	$30.00	350	$30.00
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Total Distributed Costs								Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc								
Total Costs		~~180.00~~		~~$1530.00~~				

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date Aug 15, 1954 Operator Western States Copper Co.

Per [signature] Title Pres.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Remarks: The 6 ft of drifting done was thru good sulfides, with a decrease in the pyrite previously encountered. Ore will probably assay 5% copper. The pocket & station were enlarged and improved, etc. Our mill was run considerably and most of our effort in July was directed toward preparation for production. Most of this work was above ground.

(For Government use only)

INSTRUCTIONS

Preparation of Form MF–104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF–104A has been designed to tie in with Form MF–104 for both monthly and cumulative costs. The "Total Costs" on Form MF–104A for each month should equal the monthly "Total Costs" as reported on Form MF–104. This is also true of the "Total Costs To Date".

In preparing Form MF–104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 872894

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of June, 1954 Docket No. DMEA #2341 Contract No. IDM-E-436
Operator's Name Western States Copper Corp Minerals Cooper
Address 5905 Phinney Ave, Seattle Wash
Contract Amount, $ 22,300 Government Participation: 50% Amount, $ 11,150.

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
~~Bulldozing~~ Shaft					8800.00	8800.00
Crosscutting						
Drifting					1350.00	1350.00
Pocket & Station at 100 ft.	500.	0	$500.00	500.00	-0-	500.00
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	500.00	0	500.00	500.00	10150.00	10650.00

I certify that the above bill is correct and just and that payment therefor has not been received.

Date July 3rd 1954 Vee Western States Copper Corp

Per [signature] Title President

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 250.00

Signature MAP
(Authorized Certifying Officer)

Date 7/9/54 Vou. No. 1214
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E436 in accordance with the terms of the contract.

Signature /S/ Elwin A. Magill Title Mining Engr Date 7/6/54

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Stephen W Zoldok Title Mining Engr Date 7/7/54

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of June 195 4 Docket No. DMEA 2341 Contract No. ID[illegible]-0-436
Operator's Name Western States Copper Corp Minerals Copper
Address 5905 Phinney Ave, Seattle

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Pocket & Station at 100 ft.		500.00	-	500.00		500.00		$500.00
TOTAL DISTRIBUTED COSTS		500.00	-	500.00		500.00		TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		500.00		-				

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date July 3rd 1954 Operator Western States Copper Corp

Per [signature] Title President

REMARKS: see seperate sheet

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 872894

WESTERN STATES COPPER CORP.

July 1st 1954
DMEA 2341
IDM-K-436

PROGRESS REPORT

~~Bunkers~~
pocket and loading sation was cut at the 100 ft level in the shaft as per DMEA contract. No additional drifting was done this month. The new road was completed and considerable surfacing etc of same was done. It is now possible to drive a car or truck directly into the portal of the mine, under the new bunkers, for quick and easy loading of ore or concentrates. The mill was test run, certain minor changes made and we are now ready to continue on our drifting program and operation of the mill.

Very Truly Yours,

Western States Copper Corp
by Charles Sigenvine, Pres.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

1201 N. Division St.
Spokane 2, Washington
June 23, 1954

MEMORANDUM

To: DMEA Field Team, Region II

From: E. A. Magill, Mining Engineer, Bureau of Mines

Subject: Progress examination, Western States Copper Corporation, King County, Washington, Contract Idm-E436, Docket No. DMEA 2341 (copper)

The subject property was visited on June 11, 1954, in company with Willard Puffett, U. S. Geological Survey. Mr. Knudsen, superintendent, two miners and one surface laborer were working on the property.

The shaft has been completed to a depth of 119 feet below the adit level. At the time of the visit the miners had just completed drilling out a round in the south wall of the shaft near the bottom, preparatory to cutting the skip pocket.

A small, two-compartment bunker has been constructed over the mouth of the adit. A spur road has been constructed from the main Quartz Creek road to this bunker; it also services the mill. It is proposed to use one section of the bunker for waste and the other section for direct shipping ore. The Operator plans to spread some of the waste on the road as surfacing material. A late model Ford dump truck of about 8-ton capacity has been purchased for handling ore and waste.

Work appears to be progressing in a satisfactory manner although the rate of progress is not all that could be desired.

E. A. Magill

Orig. & 3 cys - Wash.
USGS (2)
DMEA
M/D
AD
EAM/he

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.4
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of May, 1954 Docket No. DMEA 2341 Contract No. IDM-E-436
Operator's Name Western States Copper Corp Minerals Copper
Address
Contract Amount, $ 22,300.00 Government Participation: 50 % Amount, $ 11,150.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting						
Drifting					1350.00	1350.00
4 ft shaft at $88.00	352.00	8448.00	$8800.00	352.00	8448.00	8800.00
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	352.00	8448.00	$8800.00	352.00	9798.00	10150.00

I certify that the above bill is correct and just and that payment therefor has not been received.

Date June 1 1954 *Payee Western States Copper Corp

Per [signature] Title Pres.

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

→ NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 176 00

Signature [signature] (Authorized Certifying Officer)

Date 6/15/54 Vou. No. 1180
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E436 in accordance with the terms of the contract.

Signature /S/ Elwin A. Magill Title Mining Engr. Date 6/8/54

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Stephen W. Zoldok Title Mining Engr. Date 6/9/54

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

GPO 83-38476

MF-104A
(April 1952)

Budget Bureau No. 42-R1151.1
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of May 1954 Docket No. DMEA 2341 Contract No. IDM-E-436
Operator's Name Western States Copper Corp Minerals Copper
Address 5905 Phinney Ave, Seattle Wash.

OPERATION	Unit	Costs This Month	Units This Month	Costs to Date	Units to Date	Unit Costs to Date	Authorized by Contract	
							Units	Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts sinking	ft	352.00	4	$8800.00	100	$88.00	100	$88.00
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Total Distributed Costs		352.00	4	$8800.00				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs		352.00		$8800.00				

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date June 1st 1954 Operator Western States Copper Corp

Per [signature] Title Pres.

Remarks: see separate sheet

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

Preparation of Form MF–104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF–104A has been designed to tie in with Form MF–104 for both monthly and cumulative costs. The "Total Costs" on Form MF–104A for each month should equal the monthly "Total Costs" as reported on Form MF–104. This is also true of the "Total Costs To Date".

In preparing Form MF–104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 83-38475

WESTERN STATES COPPER CORP.

June 1st 1954
DMEA #2341
IDM-E-436, Copper

PROGRESS REPORT

During the month of May 1954, the shaft work authorized under contract was completed. This contract for 100 feet gives us a total shaft depth now of 119 feet from the collar at the first level, or roughly 150 feet from the surface of the hillside. Very little mineralization was encountered in the final ten feet of the shaft, but the working was still in the brecciated zone. Work was started on the pocket and station. Numerous other jobs, mostly on the surface, occupied the greater part of the crews time. This included construction of new storage bins, etc.

Very Truly Your s,

Western States Copper Corp.
Charles Sisenvine, Pres.

Charles Sisenvine

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.4
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of APRIL 195 4 Docket No. DMEA #2341 Contract No. IDM-B-436
Operator's Name Western States Copper Corp. Minerals Copper
Address 5905 Phinney Ave , Seattle 3 Wash.
Contract Amount, $ 22,300.00 Government Participation: 50 % Amount, $ 11,150.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting						
Drifting at $30.00	-	$ 1350.	$1350.			
10 ft shaft at $88.00	$880.	7568.	8448.			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	$880.	$ 8918.00	$9798.00	880.00	8918.00	9798.00

I certify that the above bill is correct and just and that payment therefor has not been received.
Date May 2-1954 *Payee Western States Copper Corp.
Per Charles Swanson Title Pres.

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 440.00

Signature
(Authorized Certifying Officer)

Date 5/14/54 Vou. No. 1164
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. 436 in accordance with the terms of the contract.

Signature Elmer A Mazzill Title Mining Engineer Date May 6, 1954

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Stephen W Zoldok Title Mining Engr Date 5/10/54

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

GPO 83-38476

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.1
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of April 195 4 Docket No. DMEA #2341 Contract No. IDM-E-436
Operator's Name Western States Copper Corp. Minerals copper
Address 5905 Phinney Ave, Seattle 3 Wash.

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting ft		-	-	$1350.	45	30.00	350	30.00
Crosscutting								
Raising								
Shafts	ft	880.00	10	8448.[illegible]	96	88.00	100	88.00
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		880.00	10	$9798.00				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		880.00		$9798.00				

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date May 2, 1954 Operator Western States Copper Corp.

Per [signature] Title Pres.

REMARKS: see separate sheet

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

Preparation of Form MF–104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF–104A has been designed to tie in with Form MF–104 for both monthly and cumulative costs. The "Total Costs" on Form MF–104A for each month should equal the monthly "Total Costs" as reported on Form MF–104. This is also true of the "Total Costs To Date".

In preparing Form MF–104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 83-38475

May 2nd 1954
DMEA #2341
IDM-E-436

WESTERN STATES COPPER CORP.

PROGRESS REPORT

Work was resumed in early April after winter shutdown. Considerable damage was done to buildings and surface improvements on account of one of the heaviest winter snowfalls in a number of years. Crew of four or five men was engaged in this work for of repairing damage for a week or more. Our old bunker and loading platform on the logging road about 500 feet above the workings were dismantled and the timbers and lumber used for construction of a new bunker of about 50 tons capacity located over the portal and below the headframe so that in the future, ore removed from underground may be dumped by gravity directly into the new storage facilities. Some road work was done and crew went underground about April 20th. The shaft was pumped and sinking work was started, in order to complete the sump and thereby complete the shaft portion of our Contract. A depth of 96 feet was reached per Contract, this being about 115 feet below the collar on the 1st level. The mineral showing is fair, with considerable sulfides present. On completion of the shaft work will be started on the pocket and station.

Very Truly Yours,

Western States Copper Corp
Charles Sisenvine, Pres.

Chas Sisenvine

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

1201 N. Division St.
Spokane 2, Washington
March 23, 1954

MEMORANDUM

To: DMEA Field Team, Region II

From: E. A. Magill, Mining Engineer, Bureau of Mines

Subject: Interim report, Western States Copper Corporation, King County, Washington, Contract Idm-E436, Docket No. DMEA 2341 (copper)

Mr. Sisenvine of the subject company has been contacted by telephone. He stated that there was two feet of snow still on the ground at the property, but that he expected to commence work again this week. The first work is to be the construction of an ore bin for truck loading so that some of the higher grade ore from the exploration work can be shipped crude to the smelter.

He expects to dewater the shaft and continue the work on the DMEA contact in about two weeks. Under the contract there still remains 10 feet of shaft sinking for a sump, 305 feet of drifting and crosscutting on the 100-foot level, and 100 feet of drifting on the main level. The Operator claims to have sufficient funds available to start operations on a two-shift basis.

E. A. Magill

Orig. & 3 cys - Wash.
USGS (2)
DMEA
M/D
AD
EAM/he

Form MF-104 (Rev.)
(April 1952)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.3.
Approval expires 6-30-53.

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of November 3 195 Docket No. DMEA #2341 Contract No. IDM-E-436
Operator's Name Western States Copper Corp. Minerals copper
Address 5905 Phinney Ave, Seattle 3 Wash
Contract Amount, $ 22,300.00 Government Participation: ____% Amount, $ 11,150.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting 40 ft at $30.	$1200.	$150.00	$1350.00			
Drifting 4 ft start sinking at $88.00 *	$352.	$7568.00	$7920.00			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	$1552.00	$7718.00	$9270.00	1200.00	7718.00	8918.00

I certify that the above bill is correct and just and that payment therefor has not been received.
Date Dec 1st 1953 *Payee Western States Copper Corp.
Per Charles Lisenmme Title Pres.

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:
600 00
$ 600.00

Signature [illegible] (Authorized Certifying Officer)
Date 12/28/53 Vou. No. 1028
(See other side)

* Measurement of shaft in dispute

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. 436 in accordance with the terms of the contract.

Signature Elmer R. Magill Title Mining Engr Date Dec 7, 1953

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature 151 Stephen W. Zoldok Title Mining Engr Date 12/17/53

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

GPO 83-38476

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of November 3 195 Docket No. DMEA #2343 Contract No. IDM-2-436
Operator's Name Western States Copper Corp. Minerals copper
Address 5905 Phinney Ave., Seattle Wash

OPERATION	Unit	Costs This Month	Units This Month	Costs to Date	Units to Date	Unit Costs to Date	Authorized by Contract: Units	Authorized by Contract: Unit Costs
Drifting	feet	$1200.	40	$1350.00	45	$30.00	350	$30.00
Crosscutting								
Raising								
Shafts	feet	$352.	4	$7920.00	90	$88.00	100	$88.00
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Total Distributed Costs		$1552.	44	$9270.00				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs		$ 1552.		$9270.00				

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date Dec 1st 1953 Operator Western States Copper Corp.

Per Gladys Lesemore Title Pres.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Remarks: see separate sheet

(For Government use only)

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 83-38475

WESTERN STATES COPPER CORP.

Dec 1st 1953
DMEA #2341
IDM-E-436

PROGRESS REPORT

No additional shaft work was done except the four feet previously reported in the Nov 1st report. (This item is re-entered for payment on the December 1st report accompanying.) Drifting was started at the 100 foot level, using a single shift. A total of 45 feet has now been accomplished on the drift which is 5x7. Sulfide minerals appear thru practically all of the drift in varying quantities. Some high grade chalcopyrite appears in substantial gobs, some deposited in strata. The drift work is still entirely in the brecciated zone and our superintendent considers the showing to be very satisfactory. The station and skip pocket will be put in early in December. Our crew was used considerably during the month to assist the logger who is putting in our spur road to the portal. Water in the shaft was held easily under control by our new pump mentioned in the Nov 1st report. Bulldozer work on the new road exposed several sulfide outcropts, one particularly interesting about 150 feet upstream from our shaft. Work progressed rather slowly but in a routine manner.

Very Truly Yours,

Charles Sisenvine

Western States Copper Corp.
by Charles Sisenvine, Pres.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

November 10, 1953

Memorandum

To: DMEA Field Team, Region II

From: Willard P. Puffett, Geologist, U. S. Geological Survey

Subject: Routine inspection, Docket No. DMEA 2341 (copper)
Western States Copper Corporation, King County, Washington
Contract No. Idm-E436

A routine inspection of the Western States Copper Corporation shaft was made on Tuesday, November 3, 1953. Mr. Knudsen, superintendent, and five miners were at the property.

Current work at the mine was in advancing a drift southeastward from the 100-foot level in the shaft. One round of advance had been accomplished and preparations were being made to drill the second round. The drift was to be advanced a few feet and then the shaft was to be continued to a depth of 119 feet, after which a regular shaft station was to be excavated. Progress has been slow and Mr. Knudsen was of the opinion that progress would continue to be slow because of the inexperienced labor crew retained at the mine.

The drift is being advanced on a strong pyrite showing. Just above this pyrite is a fair concentration of chalcopyrite in the southeast corner of the shaft. Upward from the 100-foot level there are sporadic concentrations of chalcopyrite confined mostly to the south and east walls. At the 75-foot level there is a promising appearing ore zone from which the recent shipment containing 7.92 percent copper had been produced. At the 75-foot level there are a number of strong fractures, mostly quite flat dipping, which apparently limit the ore zone, or more probably around which the most mineralization has taken place. Generally there is considerable sericite near the chalcopyrite concentrations but the converse is not true, as near the 100-foot level there is a sericitized zone on the west and north wall, in which scarcely any sulphide minerals are found, although some black tourmaline is present.

An attempt was made to make a detailed geologic map of the four walls of the shaft but excessive water so soaked things after mapping the lower 28 feet that I did not conclude the mapping.

There had been considerable heavy rain during the week previous to the examination and these rains had created bad road conditions to the property. According to Mr. Knudsen, if these rains continue or if heavy snow occurs, there is a probability that work will be curtailed for the season.

DISTRIBUTION:
DMEA (Orig. & 3)
USBM (2)
Docket
Puffett

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.
N. 1201 Division Street
Spokane 2, Washington

RECEIVED
NOV 16 1953

November 2, 1953

MEMORANDUM

To: DMEA Field Team, Region II

From: E. A. Magill, Mining Engineer, U. S. Bureau of Mines

Subject: Progress examination, Western States Copper Corporation, King County, Washington, Contract Idm-E436, Docket No. DMEA 2341 (copper)

The subject property was visited on October 29, 1953. Mr. Knudsen, superintendent, along with two miners and one surface man were working on the property.

The shaft has reached a depth of 105 feet below the adit level, making total sinking under the contract 86 feet. At the time of the visit the initial crosscut round was being drilled on the 100-foot level. This crosscut will tie in the footwall (south) side of the shaft. It is planned to advance it about 20 feet and then come back and complete the shaft to 119 feet and cut out for a pocket and station.

The pumping situation has been improved by the installation of an air driven piston type pump on the 55-foot level. The air driven sump pump is used to pump from the bottom to the 55-foot level where the piston pump acts as a booster to the surface. The shaft is currently making about 1 foot of water per hour or about 10 gallons per minute, according to Mr. Knudsen.

The shaft is still in the breccia zone; however, sulfides are not as predominant as previously. Mr. Knudsen believes that the zone of predominant sulfides lies 10 or 15 feet to the south of the shaft.

At the time of the visit a logger was in the process of constructing a road down to the main adit level. Disseminated sulfides along with molybdenum had been opened up in a cut near the small stream above and west of the shaft. These sulfides were exposed partially by an outcrop and were examined at the time of the original examination by Magill and Puffett in 1952.

Distribution:
Orig. & 3 cys - Wash.
USGS (2)
DMEA
MD
AD
EAM/fw

Form MR-204 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.3.
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of October, 1953 Docket No. DMEA #2341 Contract No. IDM-E-436
Operator's Name Western States Copper Corp. Minerals copper
Address 5905 Phinney Ave, Seattle 3 Wash.
Contract Amount, $ 22,300.00 Government Participation: 50 % Amount, $ 11,150.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) ~~Independent~~ Contracts: Short Form ~~Drilling~~ Drift 5 feet at $30.00	$ 150.	0,	$ 150.00	150.00		150.00
~~Bulldozing~~						
Crosscutting						
~~xxxx~~ 4 feet shaft sinking at $88.00	$352.	$7568.00	$7920.00	-0-	7568.00	7568.00
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	$502.00	$7568.00	$8070.00	150.00	7568.00	7718.00

I certify that the above bill is correct and just and that payment therefor has not been received.
Date Nov 1st 1953 *Payee Western States Copper Corp.
Per [signature] Title President

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 75.00

Signature [signature] (Authorized Certifying Officer)

Date 11/19/53 Vou. No. 981
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E436 in accordance with the terms of the contract.

Signature /S/ Elvin A. Magill Title Mining Eng. Date Nov 4-53

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Thomas E. Howard Title Mining Eng. Date Nov 12-1953

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

GPO 83-38476

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of October 195 3 Docket No. DMEA #2341 Contract No. IDM-E-436

Operator's Name Western States Copper Corp Minerals copper

Address 5905 Phinney Ave, Seattle, 3 Wash.

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting	ft	$150.00	5	150.00	5	$30.00	350	$30.00
Crosscutting								
Raising								
Shafts	ft	352.00	4	7920.00	90	88.00	100	$88.00
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		502.00	9	$ 8070.00				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		502.00		$ 8070.00				

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date Nov 1st 1953 Operator Western States Copper Corp

Per [signature] Title pres.

REMARKS: Separate sheet

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 83-38475

DEPARTMENT OF THE INTERIOR
Bureau of Mines Information
RECEIVED
NOV 3 - 1953

WESTERN STATES COPPER CORP.

Nov.1st, 1953.
DMEA #2341
IDM # E - 436, Copper

PROGRESS REPORT.

Sh aft sinking continued early in October but only an additional four feet of depth was attained. Great difficulty was encountered in keeping down the water in the shaft with our small lim ited capacity sump pump. This pump finally broke down completely at just about the same point where it had reached its pumping height limit. We were compelled to lay off the crew and start looking for a suitable replacement. We acquired fina lly a reciprocating piston type pump which could handle about 125 gallons per m inute at our depth without difficulty. This equipment was installed and all water can now be handled in about five minutes of each hour.
An extension of the existing road was started by a logging contractor and the crew wa s put on the jo b to assist in this operation. When this new road is completed which will be in about ten days, it will be possible to drive a truck or car directly below the ore bin. Drifting at the 100 ft. level as per contract was started during the last week of October. No assays or detailed report on the mineral has been made yet. Fair to good sulfide showings were present at the bottom of the shaft. The shaft will be deepened during November and an additional ten feet for sump.

Very truly yours,

WESTERN STATES COPPER CORP.
by Charles Eisenvine, President.

Charles Eisenvine

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

1201 N. Division St.
Spokane 2, Washington
October 19, 1953

MEMORANDUM

To: DMEA Field Team, Region II

From: E. A. Magill, Mining Engineer, Bureau of Mines

Subject: Western States Copper Corp., King County, Washington, Contract No. Idm-E436, Docket No. DMEA 2341 (copper)

The subject Operators made a shipment in September 1953 of hand-sorted ore to the American Smelting & Refining Company smelter at Tacoma, Washington. The ore came from the shaft and from a short drift which they drove on the 55-foot level.

The following data on the shipment was given to me over the telephone by Mr. Sisenvine, president of the company.

Date of shipment: September 1953
Shipment number: 2 (Shipment No. 1 was made in fall of 1952 prior to exploration contract)
Weight: Wet 63680 pounds
Dry 62375 pounds
Percent moisutre 2.05

Assay:		
	Copper	7.92 percent
	Gold	0.12 oz. per ton
	Silver	4.72 oz. per ton
	Zinc	0.30 percent
	Arsenic	0.15 percent
	Silica	30.0 percent

Gross value: $1378.15
Net value: 988.31 (after smelter charges, deductions, etc. but before royalty to property owner)
Freight: Freight of $162.04 on 40-ton minimum car prepaid by shipper and not included in above figure.

The Operators have been informed that if and when a Certification of Discovery is made, a 5% royalty on the above shipment will be due the Government.

It is to be noted that this exploration project contract expires on November 6, 1953. The Operators have been plagued by labor and financial difficulties which have made progress slow. However, they have kept working steadily since a late start due to winter weather. It is recommended that, due to the promising showings which have been exposed so far, an amendment be made to extend the contract for an additional 9 months. Although it should not take an additional 9 months to complete the work under the contract, such a period is recommended to take care of the lost time if it is necessary to suspend operations for several months on account of weather.

agree

E. A. Magill

Orig. & 3 cys -Wash.
USGS (2)
DMEA
M/D
AD
EAM/he

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.3.
Approval Expires 6-30-52

Department of the Interior
Defense Minerals Administration
RECEIVED

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of September, 1953 Docket No. DMEA #2341 Contract No. DM-E-436
Operator's Name Western States Copper Corp. Minerals copper
Address 5905 Phinney Ave, Seattle,3,Wash.
Contract Amount, $ 22,300.00 Government Participation: 50% Amount, $ 11,150.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) ~~Independent~~ Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting						
~~[illegible]~~ 16 feet shaft sinking at $88.00	$1408.	$6160.00	$7568.00	1408.00	6160.00	7568.00
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	$ 1408.	$6160.00	$7568.00	1408.00	6160.00	7568.00

I certify that the above bill is correct and just and that payment therefor has not been received.
Date Oct 1st 1953 Payee Western States Copper Corp.
Per [signature] Title President.

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 704.00

Signature [signature]
(Authorized Certifying Officer)

Date 10/6/53 Vou. No. 935
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E436 in accordance with the terms of the contract.

Signature /S/ Elwin A Magill Title Mining Engr Date 10/2/53

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Thomas E Howard Title Mining Engr Date 10/5/53

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

GPO 83-38476

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151
Approval expires 6-30-53

Department of the Interior
Defense Minerals Administration
RECEIVED
OCT 16 1953

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of September 195 3 Docket No. DMEA #2341 Contract No. IDM-E-436
Operator's Name Western States Copper Corp. Minerals Copper
Address 5905 Phinney Ave, Seattle, Wash.

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts feet		$1408.	16	$7568.00	86	$88.00	100	$88.00
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		$1408.	16	$7568.00				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		$1408.		$7568.00				

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date Oct 1st, 1953 Operator Western States Copper Corp.

Per Charles Lesevine Title Pres.

REMARKS: See Separate sheet

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

Preparation of Form MF–104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF–104A has been designed to tie in with Form MF–104 for both monthly and cumulative costs. The "Total Costs" on Form MF–104A for each month should equal the monthly "Total Costs" as reported on Form MF–104. This is also true of the "Total Costs To Date".

In preparing Form MF–104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 83-38475

Western States Copper Corp.

Oct 1st, 1953
DMEA #2341
IDM-E-436, Copper

PROGRESS REPORT.

Sinking of shaft continued in more or less routine manner. About the middle of September an extra shift was put to work and our work day is now about eighteen hours. This is not directly reflected in the footage made this month, as it was necessary to use the extra labor in part for finishing up bunkhouse facilities, which are now in use. The shaft was making considerable more water than previous, the water coming from several fairly large fissures in the side of the shaft. Our sump pump is easily able to handle the water, the pump working perhaps eight to ten minutes per hour. The sulfide showing diminished considerably during the month but there are still frequent intrusions of chalcopyrite and pyrite into the shaft, the mineral at such times showing on two or more walls rather than being confined to the east wall as was previously the case. A shipment of 31 tons of more or less selected ore from the shaft which was on the dump was shipped to the Tacoma Smelter. The copper assay on same was 7.92%, silver 4.50 oz and gold .11... We are requesting an umpire assay on the gold, as our own assay made from Smelter samples showed .16 oz.

Very Truly Yours,

Western States Copper Corp
by Charles Sisenvine, Pres.
Charles Sisenvine

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

1201 N. Division St.
Spokane 2, Washington
September 1, 1953

MEMORANDUM

To: DMEA Field Team, Region II

From: E. A. Magill, Mining Engineer, Bureau of Mines

Subject: Progress examination, Western States Copper Corporation, King County, Wash., Contract No. Idm-E436, Docket No. DMEA 2341 (copper)

The subject property was visited on August 27, 1953, in company with Willard Puffett, USGS. Mr. Knudsen, superintendent, and two miners were working on the property.

At the time of the visit the miners were mucking out in the shaft. The shaft measured 76 feet from the collar to the top of the muck pile; there was an estimated 3 feet of muck in the shaft. This represents a total of 60 feet of sinking under the DMEA contract. Progress since the previous visit on July 24 has amounted to 15 feet.

Using the tape as a plumb line it appears that the shaft has an incline of about 6 feet to the north at 75 feet. The Operator has done this in order that he may use skids. It was suggested to the Operator several times, before it was too late to straighten up the shaft, that from a future operating standpoint it would be much more feasible to sink a vertical shaft. However, the Operator did not see fit to follow this suggestion.

From about 70 feet to the bottom of the shaft all four walls expose heavy sulfides. It appears that almost 50 percent of the brecciated wall rock is sulfides (pyrite, pyrrhotite and chalcopyrite). Assay results have been received for the sample (EAM W-1) cut in similar rock on the 55-foot level (see memo dated June 30, 1953). This sample assayed:

Width	Copper %	Gold oz/ton	Silver oz/ton
4.5'	10.9	0.07	7.26

(Assay by USBM, Albany, Oregon)

Two samples were taken on this inspection trip. One was a grab sample of the muck from the bottom of the shaft; the other a chip sample across 6.0 feet on the east wall, 72.5 feet below the collar. Several minute specks of scheelite were noted by the use of a mineral lamp near the bottom of the shaft.

The Operator is hand sorting the higher grade ore from the shaft and plans on shipping it to the A. S. & R. Smelter at Tacoma, Washington. Two truckloads have already been hauled to the railhead at North Bend preparatory to loading on a railroad car.

E. A. Magill

E. A. Magill

Orig. & 3 cys - Wash.
USGS (2)
DMEA
M/D
EAM/he

Form MR-104 (Rev.)
(April 1952)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.3.
Approval expires 6-30-53

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of August 1953 Docket No. DMEA #2341 Contract No. IDM-16-436
Operator's Name Western States Copper Corp. Minerals copper
Address 5905 Phinney Ave, Seattle, 3, Wash.
Contract Amount, $ 22,300.00 Government Participation: 50 % Amount, $ 11,150.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent / Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting						
~~Drifting~~ 9 feet shaft sinking at $88.00	792.00	$5368.00	$6160.00	792.00	5368.00	6160.00
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	792.00	5368.00	6160.00	792.00	5368.00	6160.00

I certify that the above bill is correct and just and that payment therefor has not been received.

Date Sept 1, 1953 *Payee Western States Copper Corp.

Per [signature] Title President.

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

→ NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 396.00

Signature [signature] (Authorized Certifying Officer)

Date 9/4/53 Vou. No. 897
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E 436 in accordance with the terms of the contract.

Signature /s/ Elvin A. Mogiel Title Mining Engr. Date 9/3/53

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ Thomas E. Howard Title Mining Engr. Date 9/4/53

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

GPO 83-38476

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of August 1953 Docket No. DMEA 2341 Contract No. DMEA-435
Operator's Name Western States Copper Corp. Minerals Copper
Address 5905 Pilmay Ave, Seattle, 3 Wash.

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts	feet	$792.00	9	$6160.00	70	$88.00	100	$88.00
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		$792.00	9	$6160.00				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		$792.00		$6160.00				$22,300.00

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date Sept 1st, 1953 Operator Western States Copper Corp.
Per [signature] Title President

REMARKS: See separate sheet.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 83-38475

WESTERN STATES COPPER CORP
5905 Phinney Ave
Seattle, Wash.

September 1st , 1953

U.S.BUREAU OF MINES
Federal Office Bldg
Seattle, Wash.
Attn; Mr Magill.

DMEA 2341
IDM-E-436

NARRATIVE OF WORK
AUGUST, 1953

Shaft sinking work was carried on in a single shift. However, several unavoid able delays resulted in very small progress for the month. Our two key shaftmen were injured in separate incidents but on the same day, one with crushed finger, the other with a badly wrenched back. This resulted in their having to lay-off for approximately ten days. We were unable to replace them with competent help on short notice. One round was run into the 57 foot level drift mentioned in June report to remove ore for an anticipated shipment to the smelter. This ore was a good looking chalcopyrite mixed with pyrrotite and pyrite in lesser quantities. A certain amount of time was consumed separating ore from waste on the dump, same to be added to that above mentioned, for shipment purposes. Additional time was consumed in finishing up as far as possible our new bunkhouse, digging cesspool, etc. All this work plus other surface improvementsn resulted in the small shaft footage for the month. The first round in the shaft this month exposed good sulphides across the whole area of the shaft for the first time. However, the following round showed the ore only part way across again, extending into the shaft from the east wall, as has been the case during the whole course of this work. Timbering in the shaft was done as xxxx usual. The bearing rock continues as granite and quartz.

****

In our report for the month of July, I asked about a contingency setup for funds but have received no reply to this inquiry. Would you please read over the July "Narrative of Work" and give me a formal reply?

Very Truly Yours,
Charles Lessmore
Western States Copper Corp.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

August 28, 1953

Memorandum

To: DMEA Field Team, Region II

From: Willard P. Puffett, Geologist, U. S. Geological Survey

Subject: Routine inspection, Docket No. DMEA-2341 (copper), Western States Copper Corporation, King County, Washington, Contract No. Idm-E436.

A routine inspection of the Western States property was made on Thursday morning, August 27, 1953. I was accompanied by E. A. Magill, U. S. Bureau of Mines.

The shaft had been sunk to a depth of 78 feet beneath the tunnel level. This represents 59 feet of advance under terms of the contract. Near the bottom of the shaft a well-mineralized zone has been intersected. This zone is at least 6 feet thick and contains an estimated 5 to 8 percent copper. Much pyrrhotite and pyrite accompanies the chalcopyrite, thus creating difficulty in making a reliable estimate of the grade of the rock. The diorite is much less brecciated in the ore zone. Some tourmaline occurs with the ore, but other than this and some white quartz, no other minerals occur. On the tunnel level scattered molybdenite occurs but none has been seen in the lower portions of the shaft. Examination with a Geiger counter failed to disclose any radioactive material. A few specks of fluorescent mineral, possibly scheelite, were observed.

As yet there is no definitely outlined trend to the ore. Two samples were taken of the ore zone, the assay results of which will be submitted when received.

Distribution:
DMEA (Orig. & 3)
USBM (2)
Docket
Puffett

Form MF-104 (Rev.)
(April 1952)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.3.
Approval expires 6-30-53.

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of July, 1953 Docket No. DMEA 2341 Contract No. IDM-E-436
Operator's Name Western States Copper Corp. Minerals Copper
Address 5905 Phinney Ave, Seattle Wash.
Contract Amount, $ 22,300.00 Government Participation: 50 % Amount, $ 11,150.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) [redacted]t Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting						
[redacted] 16 feet shaft sinking at $88.00	1408.00	$3960.00	$ 5368.00			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	1408.00	$ 3960.00	$5368.00	1408.00	3960.00	5368.00

I certify that the above bill is correct and just and that payment therefor has not been received.

Date August 1, 1953 payee Western States Copper Corp.

Per [signature] Title President.

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 704.00

Signature [signature] (Authorized Certifying Officer)

Date 8/19/53 Vou. No. 863

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. 436 in accordance with the terms of the contract.

Signature E. C. Magill Title M. Eng. Date 8/3/53

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature P. E. Howard Title M. Eng. Date 8/4/53

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(*a*) *Form MF–104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(*b*) *Form MF–104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(*c*) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF–104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF–104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF–200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF–200; and delete word "Independent" if the contract reported is on Form MF–200 (A). Also, report work paid for on a unit basis under contract Form MF–200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF–104 when submitted for reimbursable expenses incurred under contract Form MF–200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF–200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF–104 is required to be documented. The four copies of Form MF–104 are not to be thus supported.

Form MF–104 submitted for reimbursement under fixed price contracts on Form MF–200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF–104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

GPO 83-38476

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of July 1953 195 Docket No. DMEA 2041 Contract No. DMA-R-436
Operator's Name Western States Copper Corp. Minerals copper
Address 5905 Phinney Ave, Seattle, Wash.

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts								
Winzes	feet	$1[illegible]8.00	16	$3363.00	61	$[illegible].00	100	$[illegible].00
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		$1[illegible]		$[illegible]				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		$1[illegible]		$[illegible]				$22,300.00

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date August 1st 1953 Operator Western States Copper Corp.

Per [signature] Title President.

REMARKS: Work progressed in routine manner on single shift. Partial interruption for some drifting and necessary surface work.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

Preparation of Form MF–104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF–104A has been designed to tie in with Form MF–104 for both monthly and cumulative costs. The "Total Costs" on Form MF–104A for each month should equal the monthly "Total Costs" as reported on Form MF–104. This is also true of the "Total Costs To Date".

In preparing Form MF–104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 83-38475

[illegible]

UNITED STATES COPPER CORP.
5905 Phinney Ave
Seattle, Wash.

August 1st 1953

U.S.Bureau of Mines
Federal Office Bldg
Seattle, Wash.
Attn; Mr Magill.

DMEA 2341
DMC-2-436

NARRATIVE OF WORK
JULY 1953.

Shaft sinking program was carried on in a single shift. Work was subject to some interruptions on account of necessary surface work on equipment and buildings. Shaft incline was continued same as previously, timbering, etc continued in same manner and specifications as previously noted. Rock continues as granite and quartz, medium hard to hard. The mineralized zone continued to appear on the east wall of the shaft with occasional intrusions into the shaft itself down to about the 70 foot level. At this point the sulfides became considerably more pronounced in the shaft proper and on the last work day of this month heavy mineralization extended about half way across the shaft starting from the east wall.
The short drift mentioned in last months report was run in about 12 feet into the east wall . Very rich chalcopyrite with some pyrrotite was found on all walls of this drift. An average assay was not taken of this area but a random sample taken from one of the better appearing spots assayed 22/3% copper and 16.10 oz. silver. Shaft work was resumed after this drift was discontinued and the drift will probably later be made into a sump if two water pumping stations are required.

[illegible]

I would like to ask if there is any contingency setup under this DMEA program that would make available to us a certain amount of extra and immediate funds, same to be deducted from the amount of the contract. We have an almost completed bunkhouse with good facilities for a dozen men and would like very much to put on a second

shift immediately. Of course this will require outfitting the bunkhouse with supplies, engaging a cook and finishing up the plumbing and certain other expenditures. It would also be necessary to have a certain cash reserve for payroll for the extra men. Our present financial situation is such that we are able to take care of payroll for one shift only. On two shifts our DMEA check would be twice as large each month and I am certain that we can cover the other 50% ourselves, once we have gotten over the hurdle of the first months payroll for the extra men. I estimate that $2500.00 will be adequate for all purposes required, including the living facilities and payroll. I do not want this request to in any way affect the present monthly payment basis. However, if there are any provisions for a situation such as ours, I would like to know how it may be done. I believe we have a very worthwhile discovery here and it is a shame that the work is not going faster. We are exceptionally well set-up as far as equipment is concerned and it is only the matter of extra labor that has slowed us up. Please let me know if anything can be done.

Very Truly Yours,

Charles Lisenvine

Charles Lisenvine, Pres.
Western States Copper Corp.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

1201 N. Division St.
Spokane 2, Washington
July 30, 1953

MEMORANDUM

To: DMEA Field Team, Region II

From: E. A. Magill, Mining Engineer, Bureau of Mines

Subject: Progress examination, Western States Copper Corp., King County, Wash., Contract Idm-E436, Docket No. DMEA 2341 (copper)

In company with Willard Puffett, U. S. Geological Survey, the subject property was visited on July 24, 1953. The superintendent, Mr. Knudsen, and three miners were working on the property. Mr. Sisenvine, president of the Company, was encountered on the road while returning from the property.

At the time of the visit the shaft was mucked out and the miners were preparing to drill. The shaft measured 64 feet in depth from the collar. This represents a total of 45 feet of sinking under the DMEA contract. Progress since the last visit on June 26 has amounted to only about 5 feet. This can be partially accounted for by the fact that the Operator is experiencing difficulty in obtaining shaft miners, and operations during the last month have been carried on at times with only two men. The Operator has also enlarged the drift on the 55-foot level (at his own expense) so that its face is 10 feet in width about 10 feet from the east wall of the shaft. Operations have been suspended on this level with all efforts now concentrated on sinking.

The shaft is making an estimated 2 to 3 gallons of water per minute. This water is handled by a Model 35 Ingersoll Rand air-driven sump pump with a 1½-inch discharge line. A shaft round consists of 24 holes 4 feet in depth. Electric primers are used. Average breakage is between 3½ and 4 feet. The Operator has installed an electrically-driven ventilation fan using 10-inch vent tube to force air to the bottom of the shaft.

The bottom of the shaft is still in the breccia zone with quartz and sulfides making up the cementing material.

The assay results of the sample (EAM W-1) cut on the 55-foot level during the previous visit have not as yet been received. No samples were cut on this visit.

The Operator's attention was drawn to the fact that the project could not be completed prior to its expiration date unless the work is speeded up. He stated he would like to put on two shifts but that shortage of miners and finances had prevented it so far.

E. A. Magill

Orig. & 3 cys - Wash.
USGS (2)
DMEA
M/D
EAM/he

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

July 27, 1953

Memorandum

To: DMEA Field Team, Region II

From: Willard P. Puffett, Geologist, U. S. Geological Survey

Subject: Docket No. DMEA-2341 (copper), Routine inspection of Western States Copper Corporation, King County, Washington, Contract No. Idm-E436.

A routine examination was made of the shaft at the Western States prospect on Friday, July 24, with Mr. E. A. Magill, U. S. Bureau of Mines.

The shaft had been sunk to a depth of 64 feet beneath the sill level of the adit. Coarsely brecciated diorite is exposed in all walls of the shaft. Ore minerals are more concentrated along the south and east walls and at the bottom of the shaft, but the zone containing ore minerals is apparently widening across the area of the entire shaft.

Approximately 7 feet above the bottom of the shaft a short drift has been driven into the east wall. On the south and north walls of this drift, a well mineralized zone is exposed. The face of the drift is apparently in barren breccia.

No samples were taken. The ore in the bottom of the shaft is probably of sub-marginal grade with the higher grade concentrations approaching an estimated 4 or 5 percent copper. Considerable pyrite and pyrrhotite occur with the chalcopyrite, thus it is difficult to estimate the grade of the ore very closely.

Mr. Sissenvine, president of the company, arrived at the property during the examination. He stated that the company is experiencing difficulty in obtaining financing for their share of the exploration costs and consequently advance in sinking the shaft has been slowed considerably.

Distribution:
DMEA (Orig. & 3)
USBM (2)
Docket
Puffett

Form MF-104 (Rev.)
(Apr. 1952)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.3.
Approval expires 6-30-53.

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of June, 1953 Docket No. DMEA 2341 Contract No. IDM-E-436
Operator's Name Western States Copper Corp. Minerals Copper
Address 5905 Phinney Ave, Seattle, Wash.
Contract Amount, $ 22,300.00 Government Participation: 50 % Amount, $ 11,150.

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting						
12 ft shaft skinking at $88.00	1056.00	2904.00	3960.00			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	1056.00	2904.00	3960.00	1056.00	2904.00	3960.00

I certify that the above bill is correct and just and that payment therefor has not been received.

Date July 1st 1953 *Payee Western States Copper Corp.

Per [signature] Title President.

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 528.00

Signature [signature] (Authorized Certifying Officer)

Date 7/6/53 Vou. No. 824

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E436 in accordance with the terms of the contract.

Signature /S/ Elwin A. Magill Title Mining Eng Date 7/3/53

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /S/ Thomas E. Howard Title Mining Eng Date 7/6/53

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

GPO 83-38476

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of June 195 3 Docket No. DMEA 2341 Contract No. IDM-E-436

Operator's Name Western States Copper Corp Minerals copper

Address 5905 Phinney Ave, Seattle, 3 Wash.

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts	feet	$1056.00	12	$ 3960.00	62	$88.00	100	$88.00
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS								TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		$1056.00		$3960.00				$22,300.00

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date July 1st 1953 Operator Western States Copper Corp

Per C. Lesemann Title President.

REMARKS: Work progressed in routine manner on single shift, partial interruption for some drifting.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

Preparation of Form MF–104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF–104A has been designed to tie in with Form MF–104 for both monthly and cumulative costs. The "Total Costs" on Form MF–104A for each month should equal the monthly "Total Costs" as reported on Form MF–104. This is also true of the "Total Costs To Date".

In preparing Form MF–104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 83-38475

WESTERN STATES COPPER CORP.
5905 Phinney Ave.
Seattle, Wash.

July 1st. 1953.

U. S. Bureau of Mines
Federal Office Bldg.
Seattle, Wash.
Attn. Mr. Magill.

FMA 2341
EDT 436

NARRATIVE OF WORK.
JUNE 1953

Shaft sinking program was carried on in a single shift. Work was subject to some interruptions on account of pump difficulties and certain necessary surface work. Shaft incline was continued same as previously, timbering, etc. also the same. Rock continues as granite and quartz, medium hard to hard. Same drilling equipment was used. Occasional intrusions of mineral were noted in the shaft with sulfides continuing mostly on the east wall. The 22 ft. test holes at the 15 ft. level mentioned in the May report were assayed (the drillings) and showed 4.85% copper and 10% gold. Similar test holes were run in at about 50 ft. depth, these assaying 4.65% copper and .10% gold. It was decided to run a short drift into the east wall at the 57 ft. level. This work is now being done, size 5 ft. by 7 ft. Heavy sulfide mineralization was encountered almost immediately in the drift, mostly in the form of Chalcopyrite and Pyrrotite with some Pyrite. 6 ft. in, this heavy sulfide showing appeared to be 4 ft. wide. No definite trend or strike has been determined. We are working in the brecciated zone. Assays on the drift mineralization have not yet come back. Drift work has of course reduced our shaft footage for the month.

PS. High graded sample from new drift assayed 22.33% copper, 15 oz silver.
(Assay just received today.)

Elsewhere

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

1201 N. Division St.
Spokane 2, Washington
June 30, 1953

MEMORANDUM

To: DMEA Field Team, Region II

From: E. A. Magill, Mining Engineer, Bureau of Mines

Subject: Progress examination, Western States Copper Corp., King County, Wash., Contract No. Idm-E436, Docket No. DMEA 2341 (copper)

The subject property was visited on June 26, 1953. The superintendent, Mr. Knudsen, and three miners were working on the property. The president of the company, Mr. Sisenvine, was encountered on the road while returning from the property.

The exact depth of the shaft could not be determined because the Operators have started a drift to the southeast at the 55-foot level. The superintendent claims that the bottom of the shaft is about 5 feet below this sublevel. Muck fills the shaft to the sublevel. The drift at the 55-foot level has been advanced S. 55° E. about 6 feet from the southeast wall of the shaft.

The shaft is still in the coarsely brecciated granodiorite with sparse sulfides. The short drift, however, discloses masses of sulfides up to a foot or more in diameter. Pyrite, chalcopyrite, and pyrrhotite can be recognized. However, there is difficulty in differentiating between the pyrite and the chalcopyrite. It is estimated that the face of the drift is 50 percent sulfides. There does not appear to be any structural control to the sulfides but the granodiorite is bleached and much softer than that exposed in the shaft. The quartz cementing the breccia has vugs in it which are filled with pyrite. A 4.5-foot channel sample, EAM W-1, was taken across the face of the drift 6 feet from the southeast wall of the shaft. It is estimated that this sample was made up of at least 50 percent sulfides. Sulfides are exposed in both walls of the drift, so the width of the heavy sulfide zone could not be determined.

The Operator is very anxious to provide some ore for his mill. The muck from the shaft itself has not been worth milling. Consequently, he has inquired as to the possibility of having some

of the footage allowed for drifting on the main level diverted to the work on the 55-foot level. A drift on this level would give valuable information as to the shape of the ore body. However, the interval between levels would be too small. The Operator was advised that it would be necessary to amend the contract to allow any work on the 55-foot level.

E. A. Magill

Orig. & 3 cys - Wash.
USGS (2)
DMEA
M/D
EAM/he

Form MMT-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.3.
Approval expires 6-30-53

Wash

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of May 1953 Docket No. DMEA 2341 Contract No. IDM-E-436
Operator's Name Western States Copper Corp. Minerals Copper
Address 5905 Phinney Ave, Seattle Wash.
Contract Amount, $ 22,300.00 Government Participation: 50 % Amount, $ 11,150.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) ~~Independent~~ Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting						
~~Drifting~~ 17 ft shaft sinking at $88.00	$1496.	$1406.	$2904.00			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	$1496.	$1406.00	$2904.00	1496.00	1408.00	2904.00

I certify that the above bill is correct and just and that payment therefor has not been received.

Date June 1st 1953 *Payee Western States Copper Corp.

Per Charles Lessenverne Title President.

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 748.00

Signature [illegible]
(Authorized Certifying Officer)

Date 6/15/53 Vou. No. 789
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. 436 in accordance with the terms of the contract.

Signature S/ E. A. Krogh Title M. Eng. Date 6/3/53

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature S/ T. E. Howard Title M. Eng. Date 6/4/53

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

GPO 83-38476

Form MP-104A
(April 1952)

Budget Bureau No. 42-R1151
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of May 1953 Docket No. DMEA #2341 Contract No. IDM-E-436
Operator's Name Western States Copper Corp. Minerals Copper
Address 5905 Phinney Ave, Seattle, Wash.

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts	feet	$1496	17	$2904.00	33	$88.00	100	$88.00
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS								TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc								
TOTAL COSTS		$1496.		$2904.00				$22,300.00

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date June 1st 1953 Operator Western States Copper Corp.

Per Charles Lesemann Title President

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

REMARKS: Work progressed in routine manner on single shift.

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

Preparation of Form MF–104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF–104A has been designed to tie in with Form MF–104 for both monthly and cumulative costs. The "Total Costs" on Form MF–104A for each month should equal the monthly "Total Costs" as reported on Form MF–104. This is also true of the "Total Costs To Date".

In preparing Form MF–104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 83-38475

WESTERN STATES COPPER CORP.
5905 Whitney Ave
Seattle, Wash.

June 1st 1953

U.S.Bureau of Mines
Federal Office Bldg
Seattle, Wash.
Att; Mr Nagill.

DMSA 2941
EDX-E-436

NARRATIVE OF WORK (~~[illegible]~~
MAY 1953

Shaft sinking program was carried on in a single shift. Work was subject to some interruptions on account of necessary surface work. Shaft incline was continued at approximately 4 inches in 6 feet. Timbering was done with rough fir lagg's, with 6 foot sets. Rock continues as granite and quartz, medium hardness. Two jackhammers were used, drilling 6 foot rounds with 28 holes, and pulling around 5 feet. Mineralization decreased on the last round. Previously it had improved considerably in quality, with quite an intrusion into the shaft at about 40 foot. The sulfides continued to run mostly in the east wall and it appears that we are sinking just alongside the ore body. At around 40 feet the chalcopyrite was of higher quality, fine and granular. The usual pyrite associated with it appeared mostly changed to pyrrhotite. However, we appeared to run out of this the last five feet. Several 12 foot test holes were drilled into the east wall at about 15 feet below the collar of the shaft and the drilling appeared to be well mineralized. These drillings are now being assayed. The job is progressing in a routine manner, but rather slowly. Actual costs appear to be running about $100.00 per foot, due to the heavy, wet and sticky muck.

Charles Lessmann Pres

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D. C.~~

1201 North Division Street
Spokane 2, Washington

May 11, 1953

MEMORANDUM

To: DMEA Field Team, Region II

From: E. A. Magill, Mining Engineer, Bureau of Mines

Subject: Progress examination Western States Copper Corp., King County, Washington, Contract Idm-E436, Docket No. DMEA 2341 (copper)

The subject property was visited on April 24, 1953 in company with Willard Puffett, USGS, and Lewis Chichester, USBM. Mr. Knudsen, superintendent, was on the property at the time of the visit.

Work for the 1953 season started on March 11, but has been hampered by inclement weather. It was necessary to curtail operations completely during the week of April 5 - 11 when several feet of snow fell and the miners were unable to return to the property after the weekend. At the time of the visit the ground was clear of snow and the road to the property was in good condition. Operations are being carried on a single shift, 5 days a week basis with a crew of 3 men on underground work and one man on completing construction of the bunkhouse.

Work under the exploration project contract at present consists of shaft sinking. The shaft is being sunk on a slight incline toward the northeast. Rock dimensions of the shaft are approximately 6' x 12' with 4' x 9' inside the timbers. The shaft has two compartments, each 4' x 4-1/4' in the clear. Timbers are 8" x 8" with sets on about 6' centers, hanging bolts are being used. The shaft is not lagged; the ground stands very well.

A bucket (about 1/2 ton capacity) is being used in shaft sinking, the bucket rides on skids. A gasoline engine-driven, single drum friction type hoist is used for hoisting. The Operator has built a chute so that the waste which is now being encountered in the shaft sinking may be dumped to one side rather than into the ore bin.

At the beginning of the project the shaft was measured while full of water, (see memo of December 4, 1952), to be 19 feet deep from the collar on the main level. It measured 25 feet to the top of about a half round of muck at the time of the visit, making an advance of 6 feet under the exploration project contract. The shaft makes about 5 feet of water per day which is handled by air driven sump pumps. The Operator plans to commence a double shift operation in the near future now that the weather has improved.

No attempt has been made to operate the mill this spring. The Operator hoped that the muck from the shaft sinking operations would be of sufficient value to mill, however the sulfides in the bottom of the shaft are predominantly pyrite. It appears that the sulfide zone is raking to the eastward out of the shaft, but this may be only a local feature as the bottom of the shaft is still in a brecciated zone. No samples were taken in the shaft inasmuch as the Operator was having difficulty with his pump and some two feet of water remained in the shaft.

E. A. Magill

Orig. & 3 - Wash.
USGS - 2
DMEA
M/D
EAM/vf

Form MF-174 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.3.
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of April 1953 Docket No. DMEA 2341 Contract No. DMEA-436
Operator's Name Western States Copper Corp. Minerals Copper
Address 5905-Phinney Ave, Seattle, Wash.
Contract Amount, $ 22,300.00 Government Participation 50 % Amount, $ 11,150.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
Bulldozing						
16 ft. Prospecting shaft	$1408.	0.	$1408.			
[redacted]						
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	$ 1408.	0.0	$ 1408.00	1408.00	—	1408.00

I certify that the above bill is correct and just and that payment therefor has not been received.

Date May 1st, 1953 *Payee Western States Copper Corp.

Per Charles Greenwood Title President.

*When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

704 00

$ 704 00

Signature (Authorized Certifying Officer)

Date 5/8/53 Vou. No. 752

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E436 in accordance with the terms of the contract.

Signature Elvin A Magill Title Mining Engr Date 5/4/53

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature /s/ Thomas E Howard Title Mining Engr Date 5/5/53

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

GPO 83-38476

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151
Approval expires 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of April 1953 Docket No. DMEA 2341 Contract No. IDM-E-436

Operator's Name Western States Copper Corp. Minerals Copper

Address 5905 Phinney Ave, Seattle, Wash.

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts	feet	$1408.	16	$1408.00	16	$88.00	100	$88.00
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
								TOTAL COSTS AUTHORIZED BY CONTRACT
TOTAL DISTRIBUTED COSTS								
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		$1408.		$1408.00				$22,300.00

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date May 1st 1953 Operator Western States Copper Corp.

Per Charles Seeewum Title President

REMARKS: Work was delayed one week by heavy snowfall. Otherwise work progressed in routine manner on single shift.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 83-38475

COPPER STATES COPPER CORPORATION
5905 Phinney Avenue
Seattle, Washington
May 6, 1953

U. S. Bureau of Mines
Mr. Magill
Federal Office Building
Seattle, 1, Washington

MRM 2341
MM-3 436

NARRATIVE OF WORK

Shaft sinking was carried on in one shift. Shaft incline being about 4" in 5 feet. Extreme shaft dementions 6'x12', with 4'x9' in the clear, (inside timbers). Timbering was done with rough fir, 8x8's, with 6' sets. Rock encountered was of medium hardness, granite and quartz. The east side of the shaft continues to show heavy sulphide mineralization. No assays were run during April, but the Copper Sulphide appeared to be similar to ~~xxxxxxx~~ that previously encountered.

Work was conducted using Jack Hamer, drilling 6' holes and using Tungsten-Carbide Bits. The shaft is apparently making water at the rate of about 5' per day, but this is easily handeled by our Air Pumps. The job in general is progressing at an average rate.

Erral Eisenvine
(Sgd) Erral Eisenvine
Sec'y-Treas.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D. C.~~
So. 157 Howard Street
Spokane 4, Washington

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 5 1953

April 24, 1953

Memorandum

To: DMEA Field Team, Region II

From: Willard P. Puffett, Geologist, U. S. Geological Survey

Subject: Routine Inspection, Docket No. DMEA-2341 (Copper), Western States Copper Corporation, Rainy Claims, King County, Washington, Contract No. Idm-E436.

A routine inspection of the above-captioned property was made on Friday, April 24, 1953, with E. A. Magill and L. Chichester, U. S. Bureau of Mines. A Mr. Jones (?), member of the corporation, was at the property as were a number of workmen.

Work at the property had been resumed early in April. As of the date of the inspection, the shaft had been sunk to a depth of 25 feet below the sill level of the tunnel. Only two rounds had been broken this spring. The camp is still in a rather unorganized state and it is believed by the foreman that faster progress in sinking the shaft will result soon after a bunkhouse and various other facilities have been constructed.

Coarsely brecciated granodiorite is in all walls of the shaft. These angular chunks of breccia, 6 to 12 inches thick, have been cemented by white quartz, pyrite, and chalcopyrite. A considerable quantity of chalcopyrite occurs in the upper part of the shaft, but at the bottom of the shaft the main sulphide mineral is pyrite. There is some evidence to show that the main chalcopyrite-bearing zone is dipping to the east and the shaft has cut completely through the zone. Insufficient work has been completed to definitely prove this. In the main part of the chalcopyrite zone, much clear, crystalline quartz (high temperature?) occurs, and inspection by a geiger counter shows that some radioactive mineral is present. This radioactivity is probably caused by minute grains of brannerite, which has previously been identified in samples taken from the property.

Distribution:
DMEA (Orig. & 3)
USBM (2)
Docket
Puffett

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
~~WASHINGTON 25, D. C.~~

1201 North Division St.
Spokane 2, Washington

December 4, 1952

MEMORANDUM

To: DMA Field Team, Region II

From: W. A. Magill, Mining Engineer, Bureau of Mines

Subject: Progress examination Western States Copper Corp., King County, Washington, Contract Idm-E436, Docket No. DMA 2341 (copper)

The subject property was visited on November 29, 1952. Mr. Charles Sisemvine, president of the Western States Copper Corp. was the only one on the property at the time of the visit.

No work has been done under the exploration project contract, operations having been suspended just prior to the time the operator received notice of his contract. Weather conditions permitting, the operator plans to commence work under the exploration program within a few weeks. He was advised to notify us of his plans before the 60 day starting period expired.

The shaft is full of water to the main level, consequently it was impossible to get an accurate measurement of its depth. A tape with a rock tied on its end gave a depth of 19 feet to the collar on the main level. The operator claims that the last round in the shaft was muked out.

Since the examining team's visit in April the operator has completed his mill and has test run a few tons of ore from development work in the shaft and from clean up operations on the main level. A small truck load of concentrates was shipped to the A. S. and R. Smelter at Tacoma, Washington; reportedly this shipment of concentrates ran 14% copper. The operator has had difficulty in separating the pyrite and chalcopyrite in his mill. The mill is a one product flotation concentrator of about 50 tons daily capacity. It is powered by a gasoline engine driving the jaw crusher and a diesel engine driving

the ball mill. The diesel engine also drives an electric generator which furnishes power for the flotation cells and filter. The mill is roofed but is only partially closed in on the sides.

The operator is in the process of constructing a bunk house, the floor, roof and walls being completed.

E. A. Nagill

Orig. & 3 - Wash.
EEE - 2
DMEA
M/D
EAN/vf