DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code

March 8, 1958

Memorandum

To: Kingfield Chamberlaing Statistics Branch
Division of Operation Contract and Statistics

From: Director, Division of Base Metals

Subject: Report of the 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-2073	Idm-[illegible]215	Cuba Mining Company
DMEA-2165	Idm-[illegible]312	Silver Heel Mines Company
DMEA-2184	Idm-[illegible]342	Meyer and Thiede Mining Co.
DMEA-2213	Idm-[illegible]294	Silver Underlin
DMEA-2234	Idm-[illegible]317	Sam Knight Mining Lease, Inc.
DMEA-2257	Idm-[illegible]442	Walker Corporation
DMEA-2358	Idm-[illegible]271	Belle Aldridge Gold Mines, Inc.
DMEA-2399	Idm-[illegible]339	The Eagle Fisher Company
DMEA-2452	Idm-[illegible]409	Raymond Combined Mines Company
DMEA-2495	Idm-[illegible]331	Copper Hill Mine Venutre, R.E. Fitzgerald
DMEA-2713	Idm-[illegible]566	Robert F. Blum
DMEA-2843	Idm-[illegible]615	Richard [illegible]. Chilson
DMEA-2929	Idm-[illegible]587	Grandview Mines
DMEA-2991	Idm-[illegible]556	Shenandoah-Dives Mining Company
DMEA-3510	Idm-[illegible]755	Paul Gills
DMEA-3428	Idm-[illegible]774	Mt. Wheeler Mines, Inc.

[illegible] E. Griswold

8623

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

Base Metals Division Date February 13, 1958

Semi-Annual Report - Certified Project Date

DMEA No. 2495 Operator Copper Hill Mine Venture Contract No. Idm-E 331

Ore Reserves

Ore Estimates	Tons	Analysis
Original (DMEA)	5,400	Zn. 18.2, Cu. .4; Ag. 8.1; Au. .045
Increase (Operator)		
Total		
Decrease (Production)		
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

W. R. Griswold/er

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

August 22, 1962

Re: DMEA-2495 (Zinc-Copper)
Copper Hill Mine Venture,
R. E. Fitzgerald, Trustee
Copper Hill Mine
Amador County, California
Contract Idm-E331

RECEIVED SEP 24 1962

DATE	INITIALS	CODE
9/24	WG	800
9/25	JG	110
"	[illegible]	500
		220

Mr. Stanley L. Van Vleck
Mr. Gordon K. Van Vleck
General Delivery
Michigan Bar, California

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

MME Form 63
Revised 3-62

REQUEST FOR INFORMATION ON CERTIFIED PROJECT AND PROJECT UNDER ROYALTY AGREEMENT

1. Since September 19, 1960, 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 19, 1960, 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 Gordon Van Vleck Title Partner

Address Moughhouse Date Sept. 20, 1962

4511

EST FOR INFORMATION
OPERATOR ON CERTIFIED PROJECT
PROJECT UNDER ROYALTY AGREEMENT

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

220

From: Field Officer, OME
Custom Building, 555 Battery Street
San Francisco 11, California

Concerning:
Docket No. DMEA-2495, Idm-E-331
Property Copper Hill Mine

Location Amador County, California

Date: September 19, 1960

Stanley L. Van Vleck
Gordon K. Van Vleck
General Delivery
Michigan Bar, California

FEB 17 1961
O.M.E.

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 one copy to this office with copies of any pertinent documents.

GLENN G. GENTRY Field Officer, Region II

1. Since 6/30/57, 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 6/30/57, 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		
Concentrates		Tons		
Other		Tons		

Submitted by:

Name _____ Title _____

Address _____ Date _____

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

SEMI-ANNUAL REPORTS OF CERTIFIED PROJECTS

Reporting Period 7/1/57-12/31/57 Date of Examination 12/31/57

Operator Copper Hill Mine Venture, R. E. Fitzgerald (Trustee)

Mine Name Copper Hill Mine

County and State Amador County, California

Docket Number and Commodity DMEA-2495 (Zinc-Copper)

Contract Number Idm-E 331

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DMEA
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DATE	INITIALS	CODE
2/4	C	220
2/6	WRB	500

Date of Contract

Date of Certification

Expiration Date of Royalty Payments

NO CHANGE

Total Amount of Contract

Total Expenditures under Contract

Amount of Government Participation at %

Royalty Payments this Period

Previous Royalty Payments

Total Royalty Payments to Date

Percent Government Participation Repaid

NO CHANGE

Royalty Due on Production to Date

Royalty Remarks:

DMEA-2495 Idm-E 331

				Tons	Analysis
Original Estimate of DMEA Reserves (Field Team Final Report)					
Mines [ ]	Survey [ ]	Joint [ ]			
Revised Estimate of DMEA Reserves (Field Team)					
Mines [ ]	Survey [ ]	Joint [ ]			
Increase of Reserves by work performed subsequent to DMEA project work					
Production DMEA ore	(This Period)				
	(Previous)				
	(To date)				
Operator's ore found subsequent to DMEA work	(This period)				
	(Previous)				
	(To date)				

NO CHANGE

Percent Revised Reserves mined _____

Investment Data

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

NO CHANGE

Facilities

Mine Plant		Mill		Roads	
Description	Cost	Description	Cost	Description	Cost

Remarks

NO CHANGE

Signed B. H. Sheahan (Engineer)

B. H. Sheahan

SEMI-ANNUAL REPORTS OF CERTIFIED PROJECTS

Reporting Period 1/1/57 - 6/30/57 Date of Examination 6/30/57

Operator Copper Hill Mine Venture, R. E. Fitzgerald (Trustee)

Mine Name Copper Hill Mine

County and State Amador County, California

Docket Number and Commodity DMEA-2495 (Zinc-Copper)

Contract Number Idm-E 331

OFFICIAL FILE COPY
DMEA
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DATE	INITIALS	CODE
8/8	[illegible]	[illegible]
8/9	[illegible]	SOC

Date of Contract 6/2/52

Date of Certification 4/30/53

Expiration Date of Royalty Payments 6/2/62

Total Amount of Contract $20,620.00

Total Expenditures under Contract $18,586.80

Amount of Government Participation at 50% $9,293.40

Royalty Payments this Period -0-

Previous Royalty Payments -0-

Total Royalty Payments to Date -0-

Percent Government Participation Repaid -0-

Royalty Due on Production to Date -0-

Royalty Remarks:

Copper Hill Mine DMEA-2495 Idm-E 331

				Tons	Analysis
Original Estimate of DMEA Reserves (Field Team Final Report)					18.2% Zn. 0.4% Cu. 8.1 oz. Ag/T 0.045 oz. Au/T
Mines [X]	Survey [ ]	Joint [ ]		5,400	
Revised Estimate of DMEA Reserves (Field Team)					
Mines [ ]	Survey [ ]	Joint [ ]		No change	
Increase of Reserves by work performed subsequent to DMEA project work					
Production DMEA ore			(This period)	0	
			(Previous)	0	
			(To date)	0	
Operator's ore found subsequent to DMEA work			(This period)	0	
			(Previous)	0	
			(To date)	0	

Percent Revised Reserves mined 0

Investment Data

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

Mining and milling operations in the main shaft area were suspended in July, 1956. Most of the mining equipment has been removed and the property is idle.

Signed B. H. Sheahan (Engineer)

B. H. Sheahan

SEMI-ANNUAL REPORTS OF CERTIFIED PROJECTS

Reporting Period 7/1/56 - 12/31/56 Date of Examination 12/31/56

Operator Copper Hill Mine Venture, R. E. Fitzgerald (Trustee)

RECEIVED JAN 28 1957 D.M.E.A.

Mine Name Copper Hill Mine

County and State Amador County, California

Docket Number and Commodity DMEA-2495 (Zinc-Copper)

Contract Number Idm-E 331

Date of Contract 6/2/52

Date of Certification 4/30/53

Expiration Date of Royalty Payments 6/2/62

Total Amount of Contract $20,620.00

Total Expenditures under Contract $18,586.80

Amount of Government Participation at 50 % $9,293.40

Royalty Payments this Period 0

Previous Royalty Payments 0

Total Royalty Payments to Date 0

Percent Government Participation Repaid 0

Royalty Due on Production to Date 0

Royalty Remarks:

Copp[illegible] Hill Mine Venture Idm-E 33[illegible] DMEA-2495

	Tons	Analysis
Original Estimate of DMEA Reserves (Field Team Final Report) Mines /x/ Survey /___/ Joint /___/	5,400	18.2% Zn. 0.4% Cu. 8.1 oz.Ag/T 0.045 oz.Au/T
Revised Estimate of DMEA Reserves (Field Team) Mines /___/ Survey /___/ Joint /___/		
Increase of Reserves by work performed subsequent to DMEA project work		
Production DMEA ore (This period)	0	
(Previous)	0	
(To date)	0	
Operator's ore found subsequent to DMEA work (This period)	0	
(Previous)	0	
(To date)	0	

Percent Revised Reserves mined 0

Investment Data

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

Mining and milling operations in the main shaft area were suspended in July, 1956 and the property has subsequently been idle.

Signed B. H. Sheahan, (Engineer)

331

SEMI-ANNUAL REPORTS OF CERTIFIED PROJECTS

Reporting Period 1/1/56 - 6/30/56 Date of Examination 6/30/56

Operator Copper Hill Mine Venture, R. E. Fitzgerald (Trustee)

Mine Name Copper Hill Mine

County and State Amador County, California

Docket Number and Commodity DMEA-2495 (Zinc-copper)

Contract Number Idm-E331

Date of Contract 6/2/52

Date of Certification 4/30/53

Expiration Date of Royalty Payments 6/2/62

Total Amount of Contract $20,620.00

Total Expenditures under Contract $18,586.80

Amount of Government Participation at 50% $9,293.40

Royalty Payments this Period -0-

Previous Royalty Payments -0-

Total Royalty Payments to Date -0-

Percent Government Participation Repaid -0-

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Royalty Due on Production to Date -0-

Royalty Remarks:

Original Estimate of Reserves
DMEA Final Report

	Tons	Grade
Measured:	5,400	18.2% Zn 0.4% Cu 8.1 oz. Ag/T 0.045 oz. Au/T
Indicated:		
Inferred:		

Increase (or Decrease) of Reserves
Work performed subsequent to original and last Field Team estimate:

	Tons	Grade
Measured:	-0-	
Indicated:		
Inferred:		
Revised Estimate of Reserves	5,400	5,400
Production this Period	-0-	
Amount of Previous Production	-0-	
Total DMEA Production to Date	-0-	

Production Remarks: Property active during period in area excluded from DMEA royalties. Estimated production during period 550 tons of copper ore. Dump material is now being milled.

Other Remarks: Operations were conducted on the 240, 350, and 500 levels from the main shaft and in the vicinity of old stopes within the copper ore zone.

Signed _____
for John D. Warne

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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FEB 16 1956

Office of
Executive Officer
DMEA Field Team
Region II

1605 Evans Avenue
Reno, Nevada

Date 2/14/56

Memorandum

To: Operating Committee, DMEA, Interior Bldg., Wash., D.C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Interim Inspection Report

Attached are four copies of Interim Report on

Docket No. DMEA-2495

Contract No. Idm-E331

Commodity zinc-copper

Operator R. E. Fitzgerald, Trustee
c/o Dr. E. C. Hartwell

Property Copper Hill Mine,
Amador County, California

By B. H. Sheahan

Dated 2/13/56

S. Ricker
Executive Officer
DMEA Field Team, Region II

Attachments

Copy to: R. M. Smith, USGS (w/copy of report)
Finance Officer, Region II (w/copy of report)
File

RECEIVED
FEB 13 1956

INTERIM REPORT

Docket No.: DMEA-2495 (zinc-copper) February 13, 1956

Name and address of operator: R. E. Fitzgerald, Trustee
c/o Dr. E. C. Hartwell
209 Post Street
San Francisco, California

Name and location of property: Copper Hill Mine
Amador County, California

Contract No.: Idm-E331

Exploration work under contract Idm-E331 at the Jackass shaft was discontinued early in February 1953. Zinc-silver mineralization was cut on the 150foot level and a certificate of discovery was issued April 30, 1953.

The property was inactive until July 1954, when Mr. F. V. Phillips, President, Volo Mining and Milling Company, subleased the mine from R. E. Fitzgerald. Under the supervision of C. E. Howe, the main shaft was reconditioned to the 700-level, and mining operations were conducted on the 240, 350, and 500 levels in the vicinity of old stopes within the copper ore zone. Surface installations included a headframe, ore bin, hoist, a 96 KVA generator, an air compressor (600 c.f.m.), pipe lines, sinking pumps, an office, and two sheds. From 8 to 10 workmen were employed.

Ore produced from the main shaft was hauled 23 miles by truck to the Volo Mill near Eldorado, Calif. for treatment in a flotation plant. Copper concentrates that were recovered averaged about 21 per-

cent and were shipped to the AS&R Co. smelter at Tacoma, Wash. About 2,500 tons of low grade (1.0% copper ore) was reclaimed from the Main shaft and Hobo shaft dumps.

Mr. F. V. Phillips of 464 Main Street, Placerville, California was interviewed on February 7, 1956. He stated that Volo Mining had relinquished their lease to R. E. Fitzgerald; that Volo Mining had recovered most of its capital investment of about $20,000 and paid 10% royalty on about 6,000 tons of ore produced.

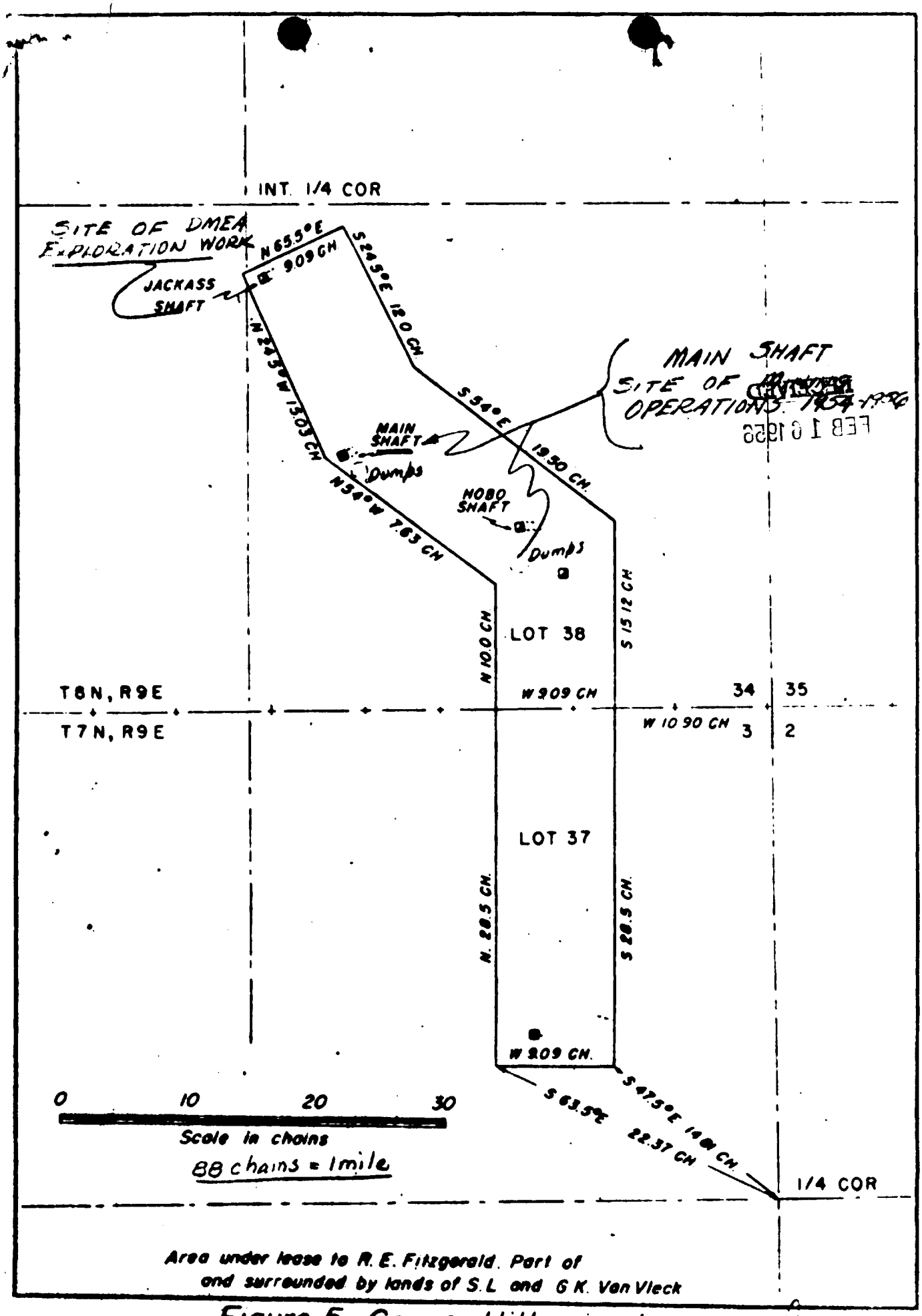
The inspecting engineer revisited the mine on Feb. 9, 1956 with Mr. John W. Maxwell, superintendent. Pumping operations only were being conducted since mining had to be suspended temporarily due to an increase in the flow of underground water resulting from extensive winter rains. No work has been done at the Jackass shaft and no ore was removed from that dump.

Mr. R. E. Fitzgerald conferred with the DMEA Executive Officer, Region II at Reno, Nev., while the property was being inspected. The operator is expected to sign amendment No. 6 to the contract and intends to continue mining copper ore.

A copy of a property map is included with this interim report which shows the location site of DMEA exploration work and the site of recent mining activities.

B. H. Sheahan

B. H. Sheahan
Mining Engineer



Area under lease to R. E. Fitzgerald. Part of and surrounded by lands of S. L and G K. Van Vleck

Figure 5 - Copper Hill mine lease

REGION II
SEMI-ANNUAL REPORT
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Docket No.: DMEA-2495 (Zinc-Copper) Date: 12/31/55

RECEIVED JAN 17 1956

Contract No.: Idm-E331

Operator: R. E. Fitzgerald (Trustee)
Copper Hill Mine Venture
c/o Dr. C. O. Hartwell
209 Post Street
San Francisco, Calif.

Copper Hill Mine
Amador County, California

Date of Contract: 6/2/52 Completion Date: 2/7/53

	Total	Expenditures	Gov't Participation
Amount of Contract:	$20,620.00	$18,586.80	$9,293.40

Date Certified: 4/30/53

Estimated Reserves

DMEA Project	Tons	Grade	Gross Value
Measured:	5,400	18.2% Zn	$290,000.00
Indicated:		0.4% Cu	
Inferred:		8.1 oz. Ag/T	
		0.045 oz Au/T	
January 1, 1956			
Measured:	5,400	18.2% Zn	$290,000.00
Indicated:		0.4% Cu	
Inferred:		8.1 oz. Ag/T	
		0.045 oz. Au/T	

	This Period	Todate	Gross Value
Production:	0	0	See note below

	This Period	Todate	Percent Payment
Royalty:	0	0	0

Status: Property active during period in area excluded from DMEA royalties. Leased to Volo Mining Co., President - Mr. F. V. Phillips, Placerville, Calif. From 1954 to September, 1955, production from the excluded area was as follows:

	Tons	Oz. Au	Oz. Ag	Lbs. Cu	Gross Value
Total	3,659	230	10,000	407,000	$179,850

The Operator has not signed amendment No. 6. — ?

REGION II
SEMI-ANNUAL REPORT
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Docket No.: DMEA-2495 (Zinc-copper) **Date:** June 30, 1955

Contract No.: Idm-E331

Operator: R. E. Fitzgerald (Trustee)
Copper Hill Mine Venture
c/o Dr. C. O. Hartwell
209 Post Street,
San Francisco, Calif.

Date of Contract: June 2, 1952 **Completion Date:** February 7, 1953

	Total	Gov't Participation	Operator
Amount of Contract:	$20,620.00	$10,310.00	$10,310.00
Expenditures:	$18,586.80	$ 9,293.40	$ 9,293.40

Date Certified: April 30, 1953

Status: Property active during period on area excluded from DMEA royalties.

	Tons	Grade	Gross Value	Deductions	Net Value
Production DMEA:	None	-	-	-	-

	This Period	Todate	Percent Payment
Royalty:	None	-	-

Remarks:

The property was leased to the Volo Mining Company in 1954. Mr. F. V. Phillips of Placerville, California is president. No production has been reported from the Jackass shaft area where an ore body was explored by the DMEA contract. Will make routine inspection as soon as engineer is in that vicinity.

REGION II
SEMI-ANNUAL REPORT
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED JUL 1 0 1955

Docket No.: DMEA-2495 (Zinc-copper) **Date:** June 30, 1955

Contract No.: Idm-E331

Operator: R. E. Fitzgerald (Trustee)
Copper Hill Mine Venture
c/o Dr. C. O. Hartwell
209 Post Street
San Francisco, Calif.

Date of Contract: June 2, 1952 **Completion Date:** February 7, 1953

	Total	Gov't Participation	Operator
Amount of Contract:	$20,620.00	$10,310.00	$10,310.00
Expenditures:	$18,586.80	$ 9,293.40	$ 9,293.40

Date Certified: April 30, 1953

Status: Property active during period on area excluded from DMEA royalties.

	Tons	Grade	Gross Value	Deductions	Net Value
Production DMEA:	None	-	-	-	-

	This Period	Todate	Percent Payment
Royalty:	None	-	-

Remarks:

The property was leased to the Volo Mining Company in 1954. Mr. F. V. Phillips of Placerville, California is president. No production has been reported from the Jackass shaft area where an ore body was explored by the DMEA contract. Will make routine inspection as soon as engineer is in that vicinity.

SEMI-ANNUAL DMEA REPORT

Docket No.: DMEA-2495 (Zinc-Copper) December 31, 1954

Contract No.: Idm-E331

Period: (Second) July 1, 1954 to December 31, 1954

Date of contract: June 2, 1952

Exploration work terminated: February 7, 1953

Amendment No. 1 - extended time of completion to 210 days.

Amendment No. 2 - substituted additional drifting and cross-cutting for additional shaft sinking.

Amendment No. 3 - Approved independent contracts.

Amendment No. 4 - extended completion date to May 1, 1953.

Amendment No. 5 - covered work under subcontract.

Name and address of operator: Volo Mining Company (lessee)
Placerville, California

R. E. Fitzgerald, (Trustee)
Copper Hill Mine Venture
c/o Dr. C. O. Hartwell
209 Post Street
San Francisco, Calif.

Name and location of property: Copper Hill mine, Amador County, California

Located 8.6 miles west of Plymouth, Calif.

Date certified:

Certification of a discovery was issued by the Administrator, DMEA, to R. E. Fitzgerald, Trustee, on April 30, 1953.

Expenditures:

Operator	Government	Total
$9,293.40	$9,293.40	$18,586.80

Statement of operations:

There was no production from the Jackass shaft area during the second period of 1954. Copper ore was produced from the Main shaft orebody, but production records have not been furnished to the Mining Section.

Remarks:

During July 1954, the property was leased to the Volo Mining Co., F. V. Phillips, president, of Placerville, Calif. No work was done in the Jackass shaft area where DMEA exploration was conducted. Operations were confined to the Main shaft area, 1,000 feet southwest of the Jackass shaft, and comprised rehabilitation of the old shaft and the 350- and 500-foot levels. Some copper ore has been produced from this area.

The Main shaft orebody was included in the area subject to royalty payments; however, the Executive Officer, DMEA Field Team, Region II, recommended on September 30, 1954, that an amendment to the contract be prepared which would confine royalty payments to the area of DMEA exploration only (Jackson shaft) and excluding the Main shaft area.

A. C. Johnson

A. C. Johnson
Mining Engineer

SEP 20 195

Semi-Annual DMEA Report

Docket No.: DMEA-2495 (Zinc-Copper) Sept. 14, 1954

Contract No.: Idm-E331

Period: (First) Jan. 1, 1954 to June 30, 1954

Date of contract: June 2, 1952

Exploration work terminated: Feb. 7, 1953

Amendment No. 1 extended time of completion to 210 days.

Amendment No. 2 substituted additional drifting and cross-cutting for additional shaft sinking.

Amendment No. 3 approved independent contracts.

Amendment No. 4 extended completion date to May 1, 1953.

Amendment No. 5 covered work under sub-contract.

Name and address of operator: R. E. Fizgerald, (Trustee)
Copper Hill Mine Venture
c/o Dr. C. O. Hartwell
209 Post Street
San Francisco, Calif.

Name and location of property:
Copper Hill mine, 8.6 miles west of Plymouth, Amador County, California.

Date certified:

Certification of a discovery was issued by the Administrator, DMEA, to R. E. Fitzgerald, Trustee, on April 30, 1953.

Expenditures:

Operator	Government	Total
$9,293.40	$9,293.40	$18,586.80

Statement of operations:

There was no production from the property during the first period of 1954.

Remarks:

During July 1954, the Copper Hill property was leased to the Volo Mining Co., F. V. Phillips, president, of Placerville, California. Work has been started on the rehabilitation of the Main Shaft to the 500-foot level and rehabilitation of the 350-foot level. No work is being done in the Jackass Shaft area.

Under the DMEA exploration contract, all production from the Jackass and Main Shaft areas is subject to the Government's percentage royalty. Data relative to production since July 1954 will be given in the Semi-Annual DMEA report of the second period.

A. C. Johnson

A. C. Johnson

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. [illegible]
Approval expires 6-30-53.

Grunwald
Betty

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of January February 1953 Docket No. DMEA Contract No. Idm - 1301
Operator's Name R. E. Fitzgerald, Trustee, Copperhill Inc Minerals Zinc & Copper
Address c/o Mr. E. C. Hartwell, 209 Post St., San Francisco, Calif.
Contract Amount, $ 20,620.00 Government Participation: 50 % Amount, $ 10,310.00

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		1,500.00	1,500.00			
Drifting	2,507.09		2,507.09			
Sinking & Timbering	(25.21)	5,300.40	(a) 5,010.00			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services	436.00	64.00	500.00			
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental	409.95	1,591.05	2,001.00			
Purchase	175.16	805.97	981.13			
Depreciation						
(5) Initial Rehabilitation and Repairs	146.96	2,929.97	3,076.93			
(6) New Bldgs., Improvements, etc.	(13.74)	1,270.00	1,256.26			
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	97.50	57.00	154.50			
Payroll Taxes	117.29	335.86	453.15			
Liability Insurance	154.40	480.78	635.18			
Accounting	72.03	83.33	155.36			
Sales Tax		68.12	68.12			
(8) Contingencies (specify):						
Concrete Collar of Shaft			(a) 265.28			
TOTALS	4,079.45	14,507.57	18,566.60			

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

Date 3/20/53 *Payee R. E. Fitzgerald

Per R. E. Fitzgerald Title Trustee

*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:

$ 2039 71

Signature A. J. Renner
Authorized Certifying Officer
(Authorized Certifying Officer)

Date APR 6 1953 Vou. No. SF-DMEA-39

(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. [illegible] in accordance with the terms of the contract.

Signature A. C. Johnson Title Chief, Mining Div. Date March 26, 1953.

A. C. Johnson

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature W. C. Miller Title DMEA Reg. Exec. Officer Date March 26, 1953

W. C. Miller

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.

U. S. GOVERNMENT PRINTING OFFICE 205675

Form MF-101A
(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 ~~February~~ January 1953 Docket No. DMEA _____ Contract No. Idm - E331

Operator's Name R. E. Fitzgerald, Trustee, Copperhill Mine Mineral Zinc & Copper

Address c/o Dr. E. C. Hartwell, 200 Post St., San Francisco, Calif.

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	67	2,507.09		2,507.09	✓			
Crosscutting	60			1,500.00	✓			
Raising								
Shafts	60	(25.21)		5,010.00	✓			
Winzes Concrete Shaft Collar				265.28	✓			
Drilling: Cor Tech. Serv.		436.00		500.00	✓			
Churn Assay		97.50		154.50				
Auger Rental		409.95		2,001.80	✓			
Stripping S. Tax				88.12	✓			
Trenching Liab. Ins.		154.40		635.18	✓			
Test Pits Accounting		72.03		155.36	✓			
Roads and Trails P/R Tax		117.29		453.15	✓			
TOTAL DISTRIBUTED COSTS		3,769.05		13,270.48				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased		175.16		981.13	✓			
Initial Rehabilitation and Repairs		148.96		3,078.93	✓			
New Buildings, Improvements, etc.		(13.74)		1,256.26	✓			
TOTAL COSTS		4,079.43		18,586.80				

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 3/20/53 Operator R. E. Fitzgerald

Per R. E. Fitzgerald Title Trustee

REMARKS: Drifting cost includes Long Hole Drilling $109.75 and preparation for drifting Oct. 1952 Labor and Material $633.95. Credits under shafts and new buildings are audit adjustments.

→ 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.

U. S. GOVERNMENT PRINTING OFFICE 205676

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Office of
Executive Officer
DMEA Field Team
Region III

1012 Flood Building
870 Market Street
San Francisco 2, Calif.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 24 1953

Date: February 17, 1953

Memorandum

To: Operating Committee, DMEA, Interior Bldg., Washington 25, D.C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Interim Inspection Report

Attached are four copies of Interim Report on -

Docket DMEA 2495

Contract Idm-E 331

Commodity (Zinc-Copper)

Operator - Copper Hill Mine Venture, c/o Dr. C. O. Hartwell
209 Post Street, San Francisco, California

Property - Copper Hill Mine, Amador County, California

By Benjamin H. Sheahan, Mining Engineer

Dated February 5, 1953

H. C. Miller
Executive Officer
DMEA Field Team, Region III

Attachment

Copy to: Finance Officer, Region III (With one copy of report)

E. H. Bailey, USGS (With one copy of report)

INTERIM REPORT

Docket No.: DMEA-2495 (zinc-copper) February 5, 1953

Name and address of operator: Copper Hill Mine Venture
c/o Dr. C. O. Hartwell
209 Post Street
San Francisco, California

Name and location of property: Copper Hill Mine, Amador County, Calif.
Located 8.6 miles via Latrobe road west
from Plymouth, Calif.

Contract No.: Idm-E331

SUMMARY

The property was inspected on January 27 and 28, 1953 by an engineer of the Bureau of Mines accompanied by Mr. Ed Bloyed, subcontractor of Jackson, Calif.

Zinc-silver mineralization was encountered by crosscutting and drifting from the 150-foot level. The mineralization was similar to that found by a Bureau of Mines project (diamond drill hole) at the property.

Amendments to the contract permit subcontracting the exploration work, extending the completion date to May 1, 1953, and allows crosscutting and drifting at the 150-foot level without sinking the shaft to the depth of the ore found by diamond drill hole CH-4. On January 28, 134 feet of drifting remained to be completed on the 150-foot level, and approximately 75 percent of the exploration loan was expended.

CONCLUSIONS

1. Mineralization recently exposed by exploration work on the 150-foot level was idential with that found by diamond drill hole CH-4.

2. The strike length of the mineralization exposed is approximately 40 feet with a width of 10 feet.

RECOMMENDATIONS

(a) For improvement of operations.

The operator should observe the work being conducted by his subcontractor and should make decisions regarding the exploration operation when necessary.

(b) Changes in project or target.

No changes are recommended.

(c) Other recommendations.

The operator should observe that he has extended his dump over the end line of his lease. Property lines are shown on Figure 5 attached to the contract, and the end line is also shown on Figure 1 attached to this interim report.

STATEMENT OF WORK COMPLETED

The shaft was advanced from a starting depth of 106 feet to a depth of 166 feet as described by interim report of Oct. 6, 1952. Exploration work was temporarily stopped soon after this date.

Amendments 2, 3, and 4 to the contract permit the operator to discontinue shaft sinking operations and to commence crosscutting from the shaft by subcontract.

Dewatering operations were started on Nov. 17, 1952. A bulkhead was placed in the shaft at the 150-foot level and crosscutting was started on Nov. 24, 1952. On Jan. 28, 1953, a 60-foot crosscut was

completed from the shaft, and 66 feet of drifting as shown by map (figure 2). Total advance of crosscutting and drifting was 126 feet, while 134 feet of drifting remain to be completed as authorized by amendments to the contract.

COMMENTS ON PROGRESS MADE

Mr. Ed Bloyed contracted to do the crosscutting and drifting at a price of $20.00 per lineal foot for labor and supervision. The operator agreed to furnish equipment and necessary material to conduct the exploration work.

Efficiency of the operation has improved since the exploration work has been put on a footage basis by subcontract.

Operating conditions are good. The subcontractor and his workmen are skilled in their occupation. The subcontractor has advanced drifts and crosscuts at the rate of 2.5 feet to 5 feet per shift depending upon the size of the crew.

OPERATOR'S MONTHLY REPORTS

The operator's monthly narrative report for November-December was good. The MF-104 form shows total expenditures prior to the start of crosscutting and drifting operations as $12,671.25. Monthly total costs shown on MF-104 form November-December, which includes 60 feet of crosscutting, lists $1,836.12, however this figure is subject to revision.

GEOLOGY AND MINERALIZATION ENCOUNTERED

Exploration work on the 150-foot level exposed massive sulfides containing zinc, silver mineralization with some lesser amounts of

copper, lead and gold. The mineralization exposed in the crosscut is similar to that found by a U. S. Bureau of Mines diamond drill hole CH-4 as described by Report of Investigations 4760.

Drifting on the 150-foot level and results obtained from diamond drill hole CH-5 indicates that the mineralized section has a short strike length. (see figs. 1 and 2).

Silver-gold values are apparently associated with iron pyrite mineralization, judging from sample analyses.

RESULTS OF CHECK SAMPLING AND ASSAYS

Analyses determined by the Hydrometallurgical and Ore Dressing Branch of the U. S. Bureau of Mines:

Sample No.	Width Feet	%,Cu	%,Pb	%,Zn	Oz Au/T	Oz Ag/T	Remarks
S-173	-	0.69	0.2	11.5	0.09	23.10	Dump sample
174	-	0.09	0.1	2.3	0.01	1.80	Dump sample
175	4.0	0.09	0.2	2.1	0.08	12.10	Face southeast drift
176	3.0	0.23	0.6	7.5	0.02	2.80	
177	4.0	0.41	2.6	19.8	0.025	4.20	
178	5.0	0.39	0.1	40.7	0.025	2.80	Massive sulfides
179	5.0	0.48	0.1	22.6	0.04	3.15	Massive sulfides
180	6.0	0.32	0.8	8.6	0.02	8.60	
181	4.0	0.18	0.2	2.4	0.01	0.70	
182	3.0	0.57	0.2	35.0	0.025	3.40	Massive sulfides
183	3.0	0.22	0.2	4.7	0.68	1.00	
184	4.0	0.07	0.2	0.3	Trace	0.20	Face northwest drift
185	4.0	0.03	0.1	0.3	0.02	0.20	Hanging wall
186	2.0	0.12	0.3	4.3	0.03	2.60	Vein in shaft

Note:- Sample locations are shown on figure 1.

OTHER INFORMATION

Although the exploration work has exposed the mineralization discovered by diamond drill hole CH-4, existing low zinc prices, high mining, transportation and treatment costs would influence the cut

off grade of the ore to such an extent that exploitation might be economically impossible.

A preliminary metallurgical ore dressing test on composites of samples S-173 to S-186 has been made by the Hydrometallurgical and Ore Dressing Branch of the U. S. Bureau of Mines, and their report follows:

"Project Re-0-2.57 "C"

"A composite was made of 14 small mine samples for flotation tests. The material contained:

Zn	-	14.0 percent		Au	-	0.07 oz/T
Cu	-	0.4 "		Ag	-	7.0 " "
Pb	-	0.9 "				

"The minerals present were sphalerite and pyrite, and small amounts of chalcopyrite and galena, in an altered talcy serpentine gangue. The sulfides occurred in thin bands and disseminated grains, all of very fine size. Part of the sphalerite and chalcopyrite was locked in pyrite grains.

"The ore was ground to minus 150-mesh, the resulting pulp being about 70 percent minus 200-mesh.

"To prevent flotation of talcy slimes, the pulp was conditioned with 0.5 pound of caustic starch per ton of ore. To prevent flotation of pyrite, 2.5 pounds of soda ash was used per ton of ore, giving a pH of 10.0. It was necessary to add 1.0 pound of $CuSO_4$ per ton of ore to activate the sphalerite. Thereafter, 0.2 pound of potassium ethyl xanthate, Z-3, was added in small increments as collector reagent, with 0.15 pound of Dowfroth as frother. Zinc rougher concentrates were made, and set aside for cleaning.

"A secondary concentrate was then made by adding 0.1 pound Z-3, and three increments of 0.05 pound aerofloat 25. These produced pyrite rougher concentrates which were not cleaned.

"The zinc rougher concentrates were cleaned once, using 0.5 pound soda ash, and 0.1 pound Dowfroth, per ton of original ore.

"The cleaner zinc concentrates contained 52.8 percent Zn, 1.25 percent Cu, 3.4 percent Pb, and 2.76 percent Insol., and 30.45 percent S, with 0.24 oz/T gold and 23.35 oz/T Silver, representing recoveries of 84.2 percent of the zinc, 72.1 percent of the copper, 82.1 percent of the lead, 67.4 percent of the gold, and 77.0 percent of the silver, in 21.9 percent of the original weight of ore. Most of the pyrite in this product was in locked grains with sphalerite.

"The pyrite rougher concentrates contained 0.09 oz/T gold, 6.50 oz/T silver, as well as 5.5 percent Zn, 0.3 percent Cu, 0.4 percent Pb, and 21.10 percent S, representing 15.1 percent of the total gold and 12.8 percent of the total silver.

"Much of the pyrite in these concentrates was extremely fine-grained and locked with the other sulfides and gangue minerals.

"These test results are indicative of what may be expected from treatment of this type of ore in a small plant with simple flow-sheet. It might be possible to increase the grade of zinc concentrates, at some sacrifice in recovery, by multiple stage cleaning. It might also be possible to produce a cleaner pyrite concentrate if desirable, or if not economical, pyrite concentrates need not be produced at all.

"Details of the test data are shown in the following tabulation:

Product	Weight, percent	Analyses - percent Zn	Cu	Pb	Ounces per ton Au	Ag
Zinc Concentrates	21.9	52.8	1.25	3.4	0.24	23.35
Zinc Cleaner Tails	6.6	8.6	.58	.8	.12	8.90
Pyrite Concentrates	13.1	5.5	.30	.4	.09	6.50
Final Tailings	58.4	1.5	.05	.1	.01	.15
Composite	100.0	13.7	.38	0.9	.08	6.64

Distribution - Percent

Product	Zn	Cu	Pb	Au	Ag
Zinc Concentrate	84.2	72.1	82.1	67.4	77.0
Zinc Cleaner Tailings	4.2	10.0	5.8	10.1	8.9
Pyrite Concentrates	5.2	10.3	5.7	15.1	12.8
Final Tailings	6.4	7.6	6.4	7.4	1.3
Composite	100.0	100.0	100.0	100.0	100.0

Flotation tests on this ore recovered 84 percent of the zinc in concentrates containing 52.8 percent zinc. No attempt was made to produce separate lead or copper concentrates, as these metals were present in only small amounts. Sixty seven percent of the gold in the ore and 77 percent of the silver were recovered in the zinc concentrate, along with 72 percent of the copper and 82 percent of the lead. A secondary pyrite concentrate was also made which contained an additional 15 percent of the gold and 13 percent of the silver.

The ore was very fine-grained and was ground to minus 150-mesh for treatment. The methods described would be suitable for use in a

simple small-scale mill.

Hazardous conditions observed at the property were brought to the attention of the subcontractor and he was advised that corrective measures should be taken.

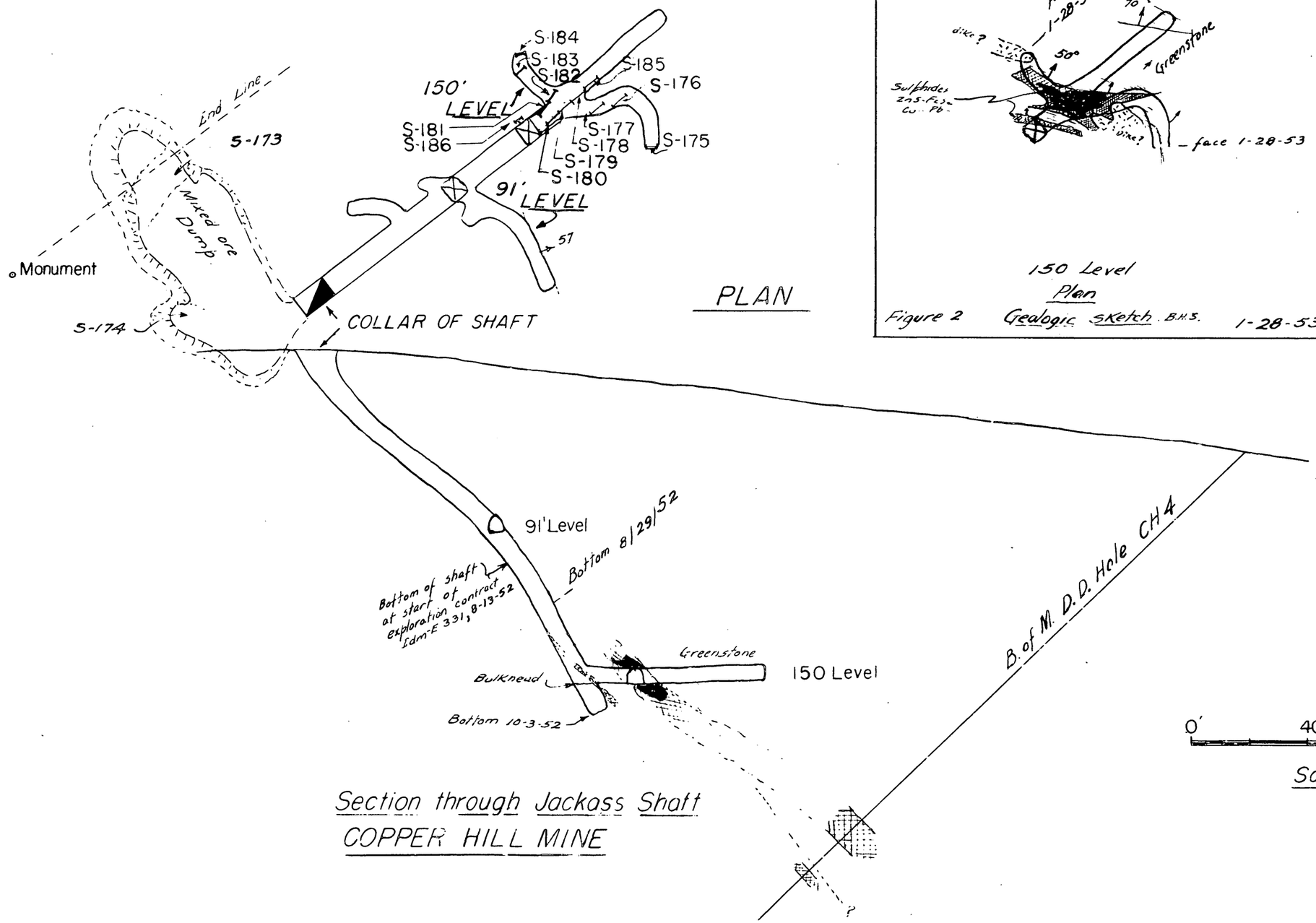
A track switch placed by the operator to separate mill ore and waste should be paid for by the operator since the expenditure for labor and materials was not a part of the exploration contract.

Benjamin H. Sheahan
Mining Engineer

DEPARTMENT OF INTERIOR
BUREAU OF MINES
REGION III
RECEIVED

19[illegible] FEB 15 AM 8:3[illegible]

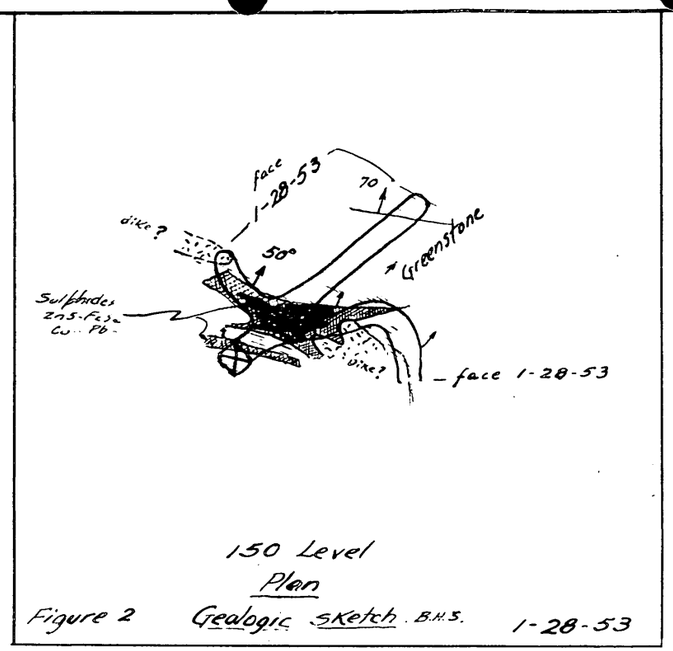
SAN FRANCISCO, CALIFORNIA



Section through Jackass Shaft
COPPER HILL MINE

Map to accompany
Interim report 2-4-53

Figure 1



150 Level
Plan
Figure 2 Geologic sketch. B.H.S. 1-28-53

COPPER HILL MINE, AMADOR County, CALIFORNIA - DMEA 2495, Contract Idm-E 331

Form MF-304 (Rev.)
(April 1952)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

ACCOUNTS JAN 26 1953

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of ~~December~~ November, 1952 Docket No. DMEA 2495 Contract No. 331
Operator's Name R. E. Fitzgerald, Trustee, Copperhill Mine Minerals Zinc & Copper
Address c/o Dr. E. C. Hartwell, 209 Post St., San Francisco, California
Contract Amount, $ Government Participation: % Amount, $

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:						~~[illegible]~~ Keating Betty
Drilling						
Bulldozing						
Crosscutting 60 ft.	1500.00		1500.00			
~~[illegible]~~ Sinking-Timbering, concreting shaft collar		5300.49	5300.49			
See Remarks on Unit Cost Sheet			-290.49			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental	125.00	1466.85	1591.85			
Purchase	26.04	779.93	805.97			
Depreciation						
(5) Initial Rehabilitation and Repairs		2929.97	2929.97			
(6) New Bldgs., Improvements, etc.		1270.00	1270.00			
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	23.00	34.00	57.00			
Payroll Taxes	31.88	303.98	335.86			
Liability Insurance	120.84	359.94	480.78			
Accounting		83.33	83.33			
Sales Tax	9.36	78.76	88.12			
(8) Contingencies (specify):						
Engineering		64.00	64.00			
Dec. Bill not received						
			14507.37			
TOTALS	$1836.12	12671.25	-290.49			

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

Date 1/14/53 *Payee R. E. Fitzgerald (Trustee)

Per R. E. Fitzgerald Title

*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:

$ 918.06

Signature Wm. H. Sjolander Authorized Certifying Officer
(Authorized Certifying Officer)

Date JAN 2 8 1953 Vou. No. SF-DMEA-32

(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. [illegible] in accordance with the terms of the contract.

Signature [illegible] Title [illegible] Date [illegible]

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature H. O. Miller Title Executive Officer DMEA Field Team Region III Date January 26, 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.

U. S. GOVERNMENT PRINTING OFFICE 205675

Form MF-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

ACCOUNTS JAN 26 1953

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of ~~December~~ November 1952 Docket No. DMEA 2499 Contract No. 331
Operator's Name R. E. Fitzgerald, Trustee, Copperhill Mine Minerals Zinc & Copper
Address c/o Dr. E. C. Hartwell, 202 Post Street, San Francisco, Calif.

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	0 ft	1500.00		1500.00				
Raising								
Shafts	0 ft			5300.40				
Winzes				[illegible]				
~~Drilling~~ One Assay		23.00		57.00				
Churn Rental		122.00		1501.05				
Auger S. Tax		9.00		69.12				
Stripping Liability Ins.		122.64		426.75				
Trenching Accounting				89.33				
Test Pits Engr.				94.00				
Roads and Trails Tax Payroll		31.68		333.80				
Total Distributed Costs								Total Costs Authorized by Contract
Operating Equipment Purchased		22.04		803.97				
Initial Rehabilitation and Repairs				2929.97				
New Buildings, Improvements, etc.				1270.00				
Total Costs		1882.12		14216.89				

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 1/14/53 Operator R. E. Fitzgerald (Trustee)
Per R. E. Fitzgerald Title

Remarks: Amendment #2 granted after costs were turned in allows $5,010 for sinking, $250.49 over on shaft sinking caused by delays, labor problems and necessity of concreting collar of shaft which was not included in estimate of costs.

→ 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.

U. S. GOVERNMENT PRINTING OFFICE 205676

NARRATIVE OF COPPER HILL OPERATIONS

DURING NOVEMBER AND DECEMBER

1952

A crosscut was run 60 feet from the bottom of the shaft cutting the ore disclosed by the Bureau of Mines drilling at approximately 75 feet up on the dip from the drill hole. (Investigation #4760 Manuscript completed October 1950)

Enclosed are copies of assays taken by Francis Frederick, Geologist; also copy of grab car sample assay taken by the miners as work progressed.

Now drifting both ways on the vein to determine the length of the ore body.

R. E. Fitzgerald (Trustee)

Zinc-silver ore
Put in X-cut
allowed under Lumb. #2

DEPARTMENT OF INTERIOR
BUREAU OF MINES
REGION III
RECEIVED

1977 JAN 23 AM 9:3

SAN FRANCISCO, CALIFORNIA

COPY.

REPORT OF ASSAY

ABBOT A. HANKS, Inc.
Assayers, Chemists, Engineers
624 Sacramento Street

San Francisco, December 9, 1952

Deposited by R. B. Fitzgerald
c/o Dr. Everett C. Hartwell
209 Post Street
San Francisco, California

Sample of O R B

Labty. no.	Mark	Gold, per ton of 2,000 lbs Troy Ounces	Value @ $35.00 oz.	Silver, per ton of 2,000 lbs. Troy Ounces	Value @ $	Percentages	
50343	X Cut 8' in - on to 18'	.05	1.75	17.15	15.43	Zinc	11.64%
						Copper	0.41

Abbot A. Hanks, Inc.
Original signed by
Martin P. Quist

bob (Seal)

DEPARTMENT OF INTERIOR
BUREAU OF MINES
REGION III
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1977 JAN 23 AM 9:3

SAN FRANCISCO, CALIFORNIA

COPY

Phone AShberry 3-5854

ASSAY CERTIFICATE
C. M. BALL

911 University Avenue
Berkeley 2, California

Successor to

George R. De Groot
George A. Moore & Co.

DEC. 26, 1952

Copper Hill Mine

Our Number	Your description of sample	Ounces gold per ton	Ounces silver per ton	Gross value per ton Gold at	Silver at	% Cu	% Pb	% Zn
				$35	$0.90			
22212	J A 13' S Side	0.01	4.30	$0.35	$3.87	0.55	0.50	221
22213	" ~~$~~ 6' S Side	0.03	12.80	1.05	11.52	0.55	1.45	8.9

STAMP

/s/ C. M. Ball

DEPARTMENT OF INTERIOR
BUREAU OF MINES
REGION III
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1951 JAN 23 AM 9:3

SAN FRANCISCO, CALIFORNIA

[illegible] 1952

INTERIM REPORT

Docket No.: DMEA-2495 (zinc-copper) November 10, 1952

Name and address of operator: Copper Hill Mine Venture
c/o Dr. G. O. Hartwell
209 Post Street
San Francisco, Calif.

Name and location of property: Copper Hill Mine, Amador County, Calif.
Located 8.6 miles via Latrobe road
west from Plymouth, Calif.

Contract No.: Idm-E331

SUMMARY

The property was idle when inspected on October 29, 1952 by an engineer[1] of the U. S. Bureau of Mines. A previous inspection was made of the exploration work on October 2 and 3, 1952.

Mr. R. E. Fitzgerald, Trustee of the Copper Hill Mine Venture, informed the Executive Officer, DMEA Field Team, Region III, that the company was having difficulty in hiring miners. When a good crew is obtained, Mr. Fitzgerald plans to resume exploration work, operating with two shifts per day in order to complete his contract.

Fence gates to the property were locked; however, the engineer walked in to the mine from the highway. Equipment used on the exploration project was at the property and rentals will possibly continue even though the property is idle. The operator has evidently had considerable trouble with his pumps.

The exploration work was temporarily discontinued some time in October. The operator's marrative reports, Mf-104 and Mf-104A for the month of October have not been received by this office. Judging from the slight increase in the size of the dump, only a few shifts

1/ Benjamin H. Sheahan.

were worked in the shaft during October. Underground workings were not examined since the property was idle.

SAMPLING

A grab sample taken from the dump on October 3, 1952, which represented the approximate grade of the muck removed from the shaft sinking operation, assayed as follows:

Sample No.	%,Cu	%,Zn	Oz/T, Au	Oz/T,Ag
S-134	1.18	1.8	0.02	0.70

A sample taken by the operator and assayed by Smith Emery analyzed:

3.4	15.86	0.08	5.12

The sample probably was taken from a narrow streak.

CONCLUSIONS

Exploration work should be resumed when an efficient shaft sinking crew is obtained; and should be started as soon as practical.

RECOMMENDATIONS

1. When operations are resumed, close supervision will be necessary.
2. A suitable sinking pump should be obtained by the operator.
3. The construction of a warm change room for the mine crew will be needed during cold weather.

Benjamin H. Sheahan

Benjamin H. Sheahan
Mining Engineer

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
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DEC 12 1952

Office of
Executive Officer
DMEA Field Team
Region III

1012 Flood Bldg.
870 Market St.
San Francisco 2, Calif.

December 9, 1952

Memorandum

To: Operating Committee, DMEA, Interior Bldg., Washington 25, D.C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Operators' Monthly Progress Reports - Forms MF-104 & 104A

Enclosed herewith are two copies of each of the subject reports received from the following operators as listed below. These reports have been audited and passed to the Treasury for payment.

Contract No.	Operator	Report dated	Period covered
~~Idm-E44~~ ~~DMA-1377X~~	~~Black Rock Mining Corp.~~	~~April 15, '52~~	March 1952
~~Idm-E64~~ ~~DMA-1165X~~	~~Cordero Mining Company~~	~~Nov. 14, '52~~	~~October 1952~~
~~Idm-E248~~ ~~DMEA-2082~~	~~Mt. Wheeler Mines, Inc.~~	~~Nov. 15, '52~~	October 1952
~~Idm-E295~~ ~~DMEA-2309~~	~~Comet Mines, Inc.~~	~~Nov. 21, '52~~	October 1952
~~Idm-E322~~ ~~DMEA-1949~~	~~Geo. W. Snyder & Geo. W. Snyder, Jr.~~	~~Nov. 15, '52~~	October 1952
Idm-E331 DMEA-2495	Copper Hill Mine (R.E.Fitzgerald)	Nov. 15, '52	October 1952

H. C. Miller
Executive Officer, DMEA Field Team
Region III

Attachments

Copy to: E. H. Bailey, USGS

(Rev.)
(52)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
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OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of October, 1952 Docket No. DMEA 2495 Contract No. E 331
Operator's Name R. E. Fitzgerald, Trustee, Copper Hill Mine Minerals Zinc & Copper
Address c/o Dr. E. G. Hartwell, 209 Post Street, San Francisco, Calif.
Contract Amount, $ Government Participation: % Amount, $

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						
(2) Labor and Supervision:						
Labor Sinking & Timbering		5300.49	5300.49			
Supervision Concreting Shaft.						
Technical Services Collar						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental	66.35	1400.50	1466.85			
Purchase	47.98	731.95	779.93			
Depreciation						
(5) Initial Rehabilitation and Repairs		2929.97	2929.97			
(6) New Bldgs., Improvements, etc.		1270.00	1270.00			
(7) Miscellaneous: Sales Tax	5.73					
Repairs to Equipment		73.03	78.76			
Sampling and Analysis	25.00	9.00	34.00			
Payroll Taxes		303.98	303.98			
Liability Insurance Sept.	159.34	200.60	359.94			
Accounting		83.33	83.33			
All Insurance Bills not Received						
(8) Contingencies (specify):						
Engineering	64.00		64.00			
See Narrative						
TOTALS	368.40	12302.85	12671.25			

I certify that the above bill is correct and just and that payment therefor has not been received.
Date Nov 15/52 *Payee R. E. Fitzgerald (Trustee)
Per R. E. Fitzgerald Title Trustee

*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:
$184.20
Signature A. C. Reimer (Authorized Certifying Officer)
(Authorized Certifying Officer)
Date DEC 3 Vou. No. SF-DMEA-28
(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. [illegible] in accordance with the terms of the contract.

Signature [illegible] Title [illegible] Date [illegible]

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature [illegible] Title Executive Officer, W. A. Field Team, Region III Date Dec. 2, 1952

N. C. Miller

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.

U. S. GOVERNMENT PRINTING OFFICE 205675

[redacted]04A
[redacted]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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 1 2 1952

Month of October 195 2 Docket No. DMEA Contract No. E 531
Operator's Name R. E. Fitzgerald, Trustee, Copper Hill Mine Minerals Zinc & Copper
Address c/o Dr. E.C.Hartwell, 209 Post St., San Francisco, California

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				5300.49				
Winzes								
[redacted] Assaying		$25.00		34.00				
[redacted] Rentals		60.35		1466.85				
[redacted] S.Tax		5.73		78.76				
Stripping Pay Roll Tax				303.98				
Trenching Liability Ins. (Sept)		159.34		359.94				
Test Pits Accounting				80.30				
Roads and Trails Engr.		64.00		90.00				
TOTAL DISTRIBUTED COSTS								TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased		47.98		779.98				
Initial Rehabilitation and Repairs				2929.97				
New Buildings, Improvements, etc.				1270.00				
TOTAL COSTS		3[illegible]8.40		12671.25				

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 15/52 Operator R. E. Fitzgerald (Trustee)
Per R. E. Fitzgerald Title Trustee

REMARKS: Waiting for authorization of change of program per amendment No.2, dated November 10, 1952. Labor and most other costs incurred in October not charged to the Exploration Project Contract.

→ 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)

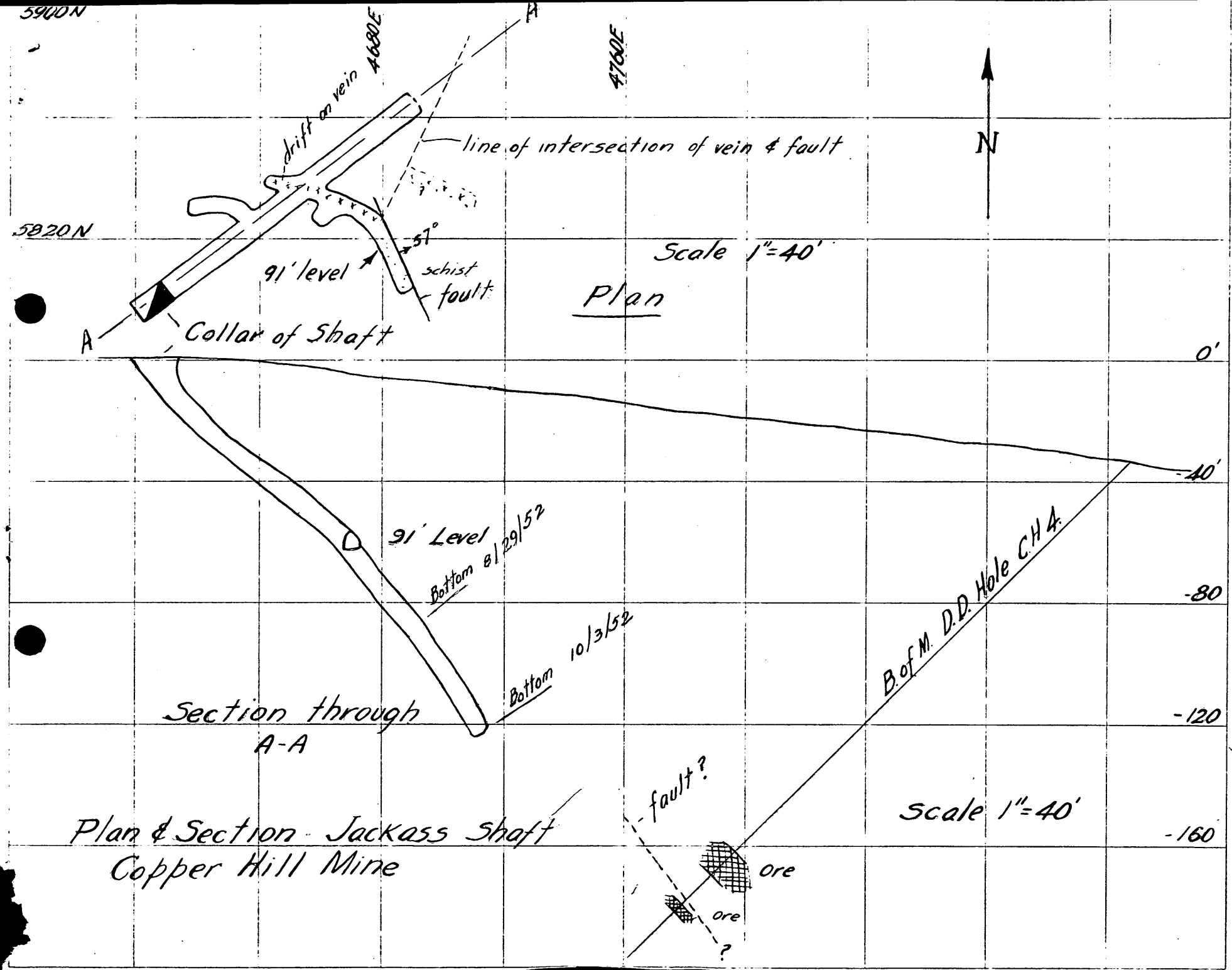
INSTRUCTIONS

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.

U. S. GOVERNMENT PRINTING OFFICE 205676



"ALBANENE" NO. 100M K&E CO., N.Y.
REG. U.S. PAT. OFF.

NARRATIVE COVERING OCTOBER 1952

OPERATION OF COPPER HILL MINE

Waiting for authorization of change of program per amendment No. 2, dated November 10, 1952.

Labor and most other costs incurred in October not charged to the Exploration Project Contract.

Amendment of Nov. 10, 1952 permitted change of program

#6

2495

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
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OCT 27 1952

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

Yes

Corbett
Betty

Office of
Executive Officer
DMEA Field Team
Region III

1012 Flood Building
870 Market Street
San Francisco 2, Calif.

Date: Oct. 23, 1952

Memorandum

To: Operating Committee, DMEA, Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Interim Inspection Report

Attached are four copies of Interim Report on -

Docket DMEA 2495

Contract Idm-E 331

Commodity Zinc-copper

Operator - Copper Hill Mine (R. E. Fitzgerald)

Property - Copper Hill Mine, Amador County, Calif.

By Benj. H. Sheahan, Mining Engr.

Dated October 8, 1952

H. C. Miller
Executive Officer
DMEA Field Team, Region III

Attachment

Copy to: Finance Officer, Region III (with one copy of report)
E. H. Bailey, USGS (with one copy of report)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 27 1952

INTERIM REPORT

Docket No.: DMEA-2495 (zinc-copper) October 6, 1952

Name and address of operator: Copper Hill Mine Venture
%Dr. C. O. Hartwell, 209 Post Street,
San Francisco, Calif.

Name and location of property: Copper Hill Mine, Amador Co., Calif., 8.6 miles via the Latrobe road west from Plymouth.

Contract No.: Idm-E331

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

The property was inspected on Oct. 2 and 3, 1952 by an engineer[1] of the Bureau of Mines, A previous inspection of the property was made by an engineer[2] of the Bureau of Mines on Aug. 28 and 29, 1952. The shaft was sunk from 128 feet as previously reported to a depth of 166 feet. Total advance amounted to 38 feet in 30 working days.

There was approximately 7 feet of water in the shaft at the time of the inspection. Although only a few gallons of water per minute has flowed into the shaft, the operator has had mechanical trouble with his sinking pump. Repair work was being undertaken on the air compressor which was reported to be leaking oil fumes into the air line.

The operator added a night shift to the operating crew during the early part of September. The normal crew consists of a superintendent, foreman, two hoistmen, two miners, and two muckers.

The operator is not getting a full honest days work out of his workmen and the operation is not efficient.

1/ Benjamin H. Sheahan.
2/ Frank J. Wiebelt.

Recommendations:

a. For improvement of operation.

The operator should be informed that his operation is not efficient and every man on the crew should be notified through the proper authority that a full shifts work is required.

b. Unless the operator can make a reasonable rate of advance in the exploration operation, the contract should be terminated.

STATEMENT OF WORK COMPLETED

Work completed since the August 28th inspection includes sinking the shaft 38 feet. Some repairs were made to the compressor and sinker pump. During August a drift on the 91 foot level was utilized as a water storage sump and a small piston pump was installed.

COMMENTS ON PROGRESS MADE,
UNUSUAL CIRCUMSTANCES, OPERATING CONDITIONS

The operator has made a very poor showing. Operating conditions are fairly good. The shaft has required but little timbering, the rock is fairly hard, ventilation is good, and water although troublesome only amounts to a few gallons per minute.

The efficiency of the operation is poor. The operator has already used up about one-half of the loan and has only advanced the shaft 60 feet or from a starting depth of 106 feet to 166 feet.

OPERATOR'S MONTHLY REPORTS

The MF-104 and MF-104A forms have not been received by the Mining Division of Region III. When compared with the small amount of advance made in shaft sinking, an unusually high unit cost figure would be obtained.

GEOLOGY AND MINERALIZATION

The shaft is, following low grade copper-zinc mineralization. The bottom of the shaft was not accessible because of the water.

RESULTS OF ANY CHECK SAMPLING AND ASSAYING

A sample 4 feet across the vein taken by an engineer[3/] of the Bureau of Mines at a depth of 120 feet analyzed as follows: 1.68% Cu, 3.9% Zn, 0.01 oz. Au and 1.50 oz. Ag.

A grab sample was taken from the dump and represents the approximate grade of the material removed from the shaft sinking exploration work. The analyses will be given in the next report.

Benjamin H. Sheahan
Mining Engineer

3/ Frank J. Wiebelt.

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.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 28 1952

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of September, 1952 Docket No. DMEA 2495 Contract No. E-231
Operator's Name R. E. FITZGERALD (TRUSTEE) COPPER HILL MINE Minerals ZINC & COPPER
Address C/O DR. E.C.HARTWELL, 209 POST ST., SAN FRANCISCO, CALIF.
Contract Amount, $ Government Participation 50 % Amount, $

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						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor: Sinking & Timbering & Concreting Shaft Collar	2878.90	2421.59	5300.49			
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental	500.50	900.00	1400.50			
Purchase	60.90	671.05	731.95			
Depreciation						
(5) Initial Rehabilitation and Repairs	55.18	2874.79	2929.97			
(6) New Bldgs., Improvements, etc.		1270.00	1270.00			
(7) Miscellaneous:						
Repairs to Equipment S.Tax	13.27	59.76	73.03			
Sampling and Analysis		9.00	9.00			
Payroll Taxes	102.79	201.19	303.98			
Liability Insurance	137.83	62.77	200.60			
Accounting	50.00	33.33	83.33			
All Ins.Bills not yet received						
(8) Contingencies (specify):						
TOTALS	3799.37	8503.48	12302.85			

I certify that the above bill is correct and just and that payment therefor has not been received.
Date 10/15/52 *Payee R E Fitzgerald Trustee
Per R E Fitzgerald Title Trustee

*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:
$ 1899.69
A. J. Renner
Signature Authorized Certifying Officer
(Authorized Certifying Officer)
Date OCT 24 1952 Vou. No. SF-DMCa-23
(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. [illegible] in accordance with the terms of the contract.

Signature A. G. Johnson Title Chief, Mining Div., Region III Date Oct. 21, 1952.

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature S. Picker for U. C. Miller Title Executive Officer Field Team Region III Date Oct. 23, 1952

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.

U. S. GOVERNMENT PRINTING OFFICE 205675

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 20 1952

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of September 1952 Docket No. DMEA 2195 Contract No. E-331
Operator's Name R. L. FITZGERALD (TRUSTEE) CORP. & MINE MGR. Minerals ZINC & COPPER
Address C/O MR. L. MA T[illegible], 209 POST STREET, SAN FRANCISCO, CALIF.

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		2878.90		5300.19				
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Assaying				9.00				
Rentals		500.50		1100.50				
Total Distributed Costs								
S. Tax		13.27		73.03				
Payroll Tax		102.79		303.98				
Operating Equipment Purchased		60.90		731.95				
Initial Rehabilitation and Repairs		55.18		2929.97				
New Buildings, Improvements, etc.				1270.00				
Liability Insurance		137.83		200.00				
Accounting		50.00		83.33				
Total Costs		3799.37		12302.85				

Total Costs Authorized by Contract

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 10/15/52 Operator R. L. Fitzgerald Trustee

Per R. L. Fitzgerald Title Trustee

Remarks: See Narrative

→ 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.

U. S. GOVERNMENT PRINTING OFFICE 205676

Narrative covering September 1952

Operation of Copper Hill Mine

Extended shaft 34 feet in depth

R E Fitzgerald Trustee

Corbett

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
SEP 9 1952

Office of
Executive Officer
DMEA Field Team
Region III

1012 Flood Building
870 Market Street
San Francisco 2, Calif.

Date: September 5, 1952

Memorandum

To: Operating Committee, DMEA, Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Interim Inspection Report

Attached are four copies of Interim Report on -

Docket DMEA 2495

Contract Idw-E 331

Commodity Zinc-copper

Operator - Copper Hill Mine

Property - Plymouth, Amador County, California

By Frank J. Wiebelt

Dated September 3, 1952

H. C. Miller
Executive Officer
DMEA Field Team, Region III

Attachment

Copy to: Finance Officer, Region III (with one copy of report)
E. H. Bailey, USGS (with one copy of report)

Posted 9/10/53

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
SEP 9 1952

INTERIM REPORT
(First)

September 3, 1952

DOcket No. DMEA-2495 (zinc-copper)

Name and address of operator and location of property: Copper Hill Mine Venture, c/o Dr. C. O. Hartwell, 209 Post Street, San Francisco, Calif. The property is known as The Copper Hill Mine and is located 8.6 miles via the Latrobe road from Plymouth, Amador County, California.

Contract No. Idm-E331

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

The property was inspected on Aug. 28 and 29, 1952, by an engineer of the Bureau of Mines.

Rehabilitation and repairs and installation of head frame, hoist, compressor, skids in shaft and ventilation system for shaft have been completed and on Aug. 13 actual shaft sinking operations were started on a one 8-hour shift, six days per week basis. Shaft has advanced from a starting depth of 106 feet to 128 feet.

Recommendations:

a. For improvement of operations:

Operator should add an additional shift to speed operations and cut down overhead expenses.

b. Changes in project or target:

No change is recommended. The bottom of the shaft is in low grade ore throughout its entire width. Material from shaft sinking operations appear to be milling grade ore.

c. Amendments to contract:

An amendment to the contract should be requested by the operator to allow costs of $682.68 incurred in concreting the collar of the shaft which work was required by the State Safety engineer.

d. Other recommendations:

None.

STATEMENT OF WORK COMPLETED

The hoist was moved from the main shaft and placed on concrete foundation at collar of Jackass shaft. A compressor was moved and connected to shaft with 100 feet of 2-inch airline. A headframe, sufficient for operations, was built and a 1,000 lb. capacity bucket with runners was installed to handle shaft muck. A concrete shaft collar was placed around collar of shaft (by order of State Mine Inspector), and the shaft was unwatered and cleared of debris to bottom of shaft at 106 feet depth. A 15-foot drift extending northerly at 71 foot depth and a 43 foot drift and a 4-foot drift were encountered extending southerly and northerly respectively at a depth of 91 feet. The advance to date has been 22 feet to a depth of 128 feet. One 8-hour shift per day, six days per week is operated. A Coppus Ventair blower with 8-inch ventilating pipe has been installed for shaft ventilation.

COMMENTS ON PROGRESS MADE, UNUSUAL CIRCUMSTANCES, OPERATING CONDITIONS, ETC.

Progress in sinking of shaft has been slow (one 4-foot round every 3 days) on account of operating one shift only.

Unusual circumstances: Rock is considerably harder than predicted and some time is lost at start of shift while pumping water. A second shift will eliminate some loss due to pumping out shaft.

Operating conditions: Good.

Efficiency of operations: Satisfactory but second shift should make efficiency of operations good.

Operator's Monthly Reports: Good.

Geology and mineralization or ore encountered: The shaft is following copper-zinc vein in silicified amphibolite schist. The entire width of bottom of shaft is in low grade ore of probable milling grade. Chunks of high grade were noticed in dump material from the shaft sinking operation.

RESULTS OF ANY CHECK SAMPLING AND ASSAYING

A sample 4 feet across the vein was taken in the shaft at a depth of 120 feet. The analyses of this sample will be given in the next report.

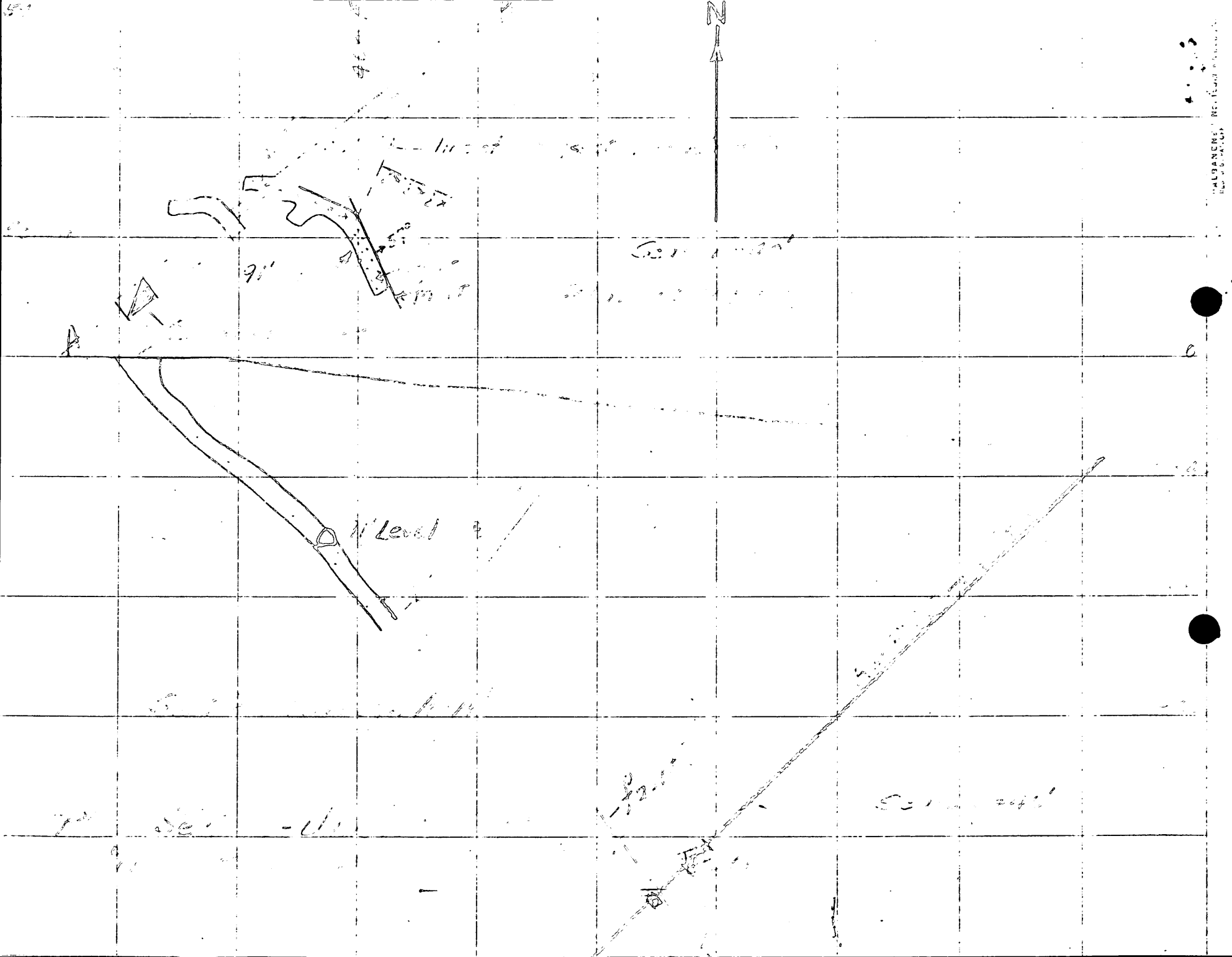
INFORMATION BELIEVED TO BE OF IMPORTANCE IN CONNECTION WITH THE WORK

The two sections of ore cut in Bureau of Mines diamond drill hole CH#4 may be repeated sections of same vein due to the fault shown on the 91-foot level in the attached Plan and Section of the Jackass shaft. Later work will determine if this is the case.

The operator intends to add a second shift as soon as miners can be obtained. Good miners are hard to obtain and competition for labor is very keen throughout the district on account of lumbering operations.

Frank J. Wiebelt

Frank J. Wiebelt
Mining Engineer


N
A
C
1' Level

Form M[illegible]-104 (Rev.)
(April 1952)

Budge[illegible]. 42-R1036.3.
Approv[illegible]-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of August 1952 Docket No. DMEA 2495 Contract No. E-331
Operator's Name R.E.FITZGERALD(TRUSTEE) COPPER HILL MINE Minerals ZINC & COPPER
Address C/O DR. E. C. HARTWELL, 209 POST ST., SAN FRANCISCO, CALIF.
Contract Amount, $ Government Participation 50 % Amount, $

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						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Sinking & Timbering Concreting Shaft Collar	1635.44	786.15	2421.59			
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental	485.00	415.00	900.00			
Purchase	474.84	196.21	671.05			
Depreciation						
(5) Initial Rehabilitation and Repairs	1403.48	1471.31	2874.79			
(6) New Bldgs., Improvements, etc.		1273.42	1273.42	-342	1273.42	1270.00
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	9.00		9.00			
Sales tax Payroll Taxes	32.20	27.56	59.76			
Liability Insurance	97.13	104.06	201.19			
	62.77		62.77			
Acctg		33.33	33.33			
All Ins. Bill not yet received						
(8) Contingencies (specify):						
TOTALS	4199.86	4307.04	8506.90	4196.44	4307.04	8503.48

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

Date Sept 1/52 *Payee R.E. Fitzgerald

Per R.E. Fitzgerald Title Trustee

*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:

$ 2098.22

Signature
(Authorized Certifying Officer)

Date 10/2/52 Vou. No. SE-0[illegible]

(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. [illegible] in accordance with the terms of the contract.

Signature A. G. Johnson Title Chief, Mining Br., Region III Date Sept. 22, 1952.

A. G. Johnson

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature H. C. Miller Title Executive Officer DMEA Field Team Region III Date Sept. 24, 1952

H. C. Miller

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.

U. S. GOVERNMENT PRINTING OFFICE 205675

Form MF-104A
(April 1952)

Bud[illegible] No. 42-R1151
Ap[illegible]es 6-30-53.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of August 195 2 Docket No. DMEA 2495 Contract No. E 331

Operator's Name R. E. FITZGERALD, TRUST E Minerals COPPER & ZINC

Address C/O DR. [illegible].C.HARTWELL, 209 POST ST., SAN FRANCISCO, CALIF.

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 Timbering		1635.44		2421.59				
Winzes Concreting Shaft								
Drilling: Core Collar & Build-								
Churning Dam								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS				33.33				TOTAL COSTS AUTHORIZED BY CONTRACT
Assay		9.00		9.00				
Rentals		485.00		900.00				
Operating Equipment Purchased		474.84		671.05				
Initial Rehabilitation and Repairs		1403.48		2874.79				
New Buildings, Improvements, etc.		2		1273.42				
Taxes Payroll & Sales		179.33		260.95				
Insurance		62.77		62.77				
TOTAL COSTS		4199.86 -3.42 - 4196.44		8506.90 -3.42 - 8503.48				

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 17, 1952 Operator R E Fitzgerald

Per R E Fitzgerald Title Trustee

REMARKS: See Narrative

→ 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.

U. S. GOVERNMENT PRINTING OFFICE 205676

NARRATIVE COVERING AUGUST 1952 OPERATIONS OF COPPER HILL MINE

Preparations for sinking shaft were made.

A concrete dam was constructed on the 91 foot level and a station pump installed. A sump pump is used to keep the shaft dry lifting the water into this dam and then the water is pumped to the surface by the station pump.

Installed a coppus blower and pipe for ventilation while sinking.

Extended shaft 25 feet in depth.

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.

Defense Minerals Administration
RECEIVED
SEP 15 1952

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of JULY 1952 Docket No. DMEA 2495 Contract No. E 331
Operator's Name R. E. FITZGERALD, TRUSTEE Minerals Copper & Zinc
Address % DR. E. C. HARTWELL, 209 POST ST., SAN FRANCISCO, CALIF.
Contract Amount, $ Government Participation: 50 % Amount, $

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						
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services					25.00	25.00
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental	376.00	116.28	492.28		39.00	415.00
Purchase	125.70		125.70			125.70
Depreciation						
(5) Initial Rehabilitation and Repairs	1972.63	536.29	2508.92		633.57	2606.20
(6) New Bldgs., Improvements, etc.	1004.43		1004.43			1004.43
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						104.06
Payroll Taxes	85.73	18.33	104.06			
Liability Insurance						
Sales Tax	26.65		26.65			26.65
(8) Contingencies (specify): Insurance bills not received.						
TOTALS	3591.14	670.90	4262.04		715.90	4307.04

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

Date AUG. 13/52 *Payee R. E. FITZGERALD, TRUSTEE

Per R. E. Fitzgerald Title Trustee

*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:

$ 1,795.57

Lloyd L. Norvell
Authorized Certifying Officer

Signature (Authorized Certifying Officer)

Date SEP 8 1952 Vou. No. SF-DMEA-12

(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. Ich-E331 in accordance with the terms of the contract.

Signature A. G. Johnson Title Chief, Mining Div. Region III Date September 3, 1952.

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature S.Ricker, acting for H.C. Miller Title DMEA Field Team Executive Officer Region III Date Sept. 4, 1952

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.

U. S. GOVERNMENT PRINTING OFFICE 205675

Form MF-104A
(April 1952)

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

Department of the Interior
Defense Minerals Administration
RECEIVED
SEP 15 1952

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of [illegible] 195[illegible] Docket No. DMEA [illegible] Contract No. [illegible]
Operator's Name [illegible] Minerals [illegible]
Address [illegible]

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								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Total Distributed Costs		[illegible]		[illegible]	25.00 415.00			Total Costs Authorized by Contract
Operating Equipment Purchased		186.70		186.70				
Initial Rehabilitation and Repairs		1972.65		1365.02	2606.20			
New Buildings, Improvements, etc.		1004.43		1004.43				
[illegible]		112.30		230.71				
Total Costs		[illegible]		[illegible]	4307.40			

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 [illegible] Operator [illegible]

Per R. A. Fitzgerald Title Trustee

Remarks: [illegible]

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.

U. S. GOVERNMENT PRINTING OFFICE 205676

NARRATIVE COVERING JULY 1952 OPERATIONS OF COPPER HILL MINE

A head frame suitable for the operation was built. The hoist foundation was poured, using 5 yards of concrete and some coarse rock. The hoist was then installed.

The State safety engineer, considering the fire hazard, insisted that the collar of the shaft be concreted, making it necessary to tear out the top wooden sets; so forms were placed, and 16 yards of concrete were poured. This concrete collar is 18 ft. by 13 ft. by 2 ft. thick to solid footing. This operation was not in the original estimate. The added cost for this concrete collar amounted to $682.68.

A bulkhead was placed in the upper part of the shaft, and the old timbers were removed.

The shaft was cleared of muck, old timbers and loose rock to the water level, which stood at 60 ft. below the collar. Skids for the bucket were placed.

The water was pumped out and the bottom was reached at 106 ft. below the collar, instead of 125 ft. as had been reported and as had been shown on old maps. At the 71 ft. level a drift was found, extending 15 ft. north. At 91 ft. below the collar of the shaft a drift was found, extending southerly for 43 ft. and northerly for 4 ft. At a point 11 ft. from the shaft, an X-cut was found, running into the footwall. Old timbers and muck had been piled into the drifts, and these were hoisted to the surface. The additional water pumped from these workings taxed our small pump units, as these additional workings were unknown.

This extra pumping and the cleaning out of the drifts were not included in the original cost estimate. However, this additional expense was balanced off by the estimated cost of pumping and rehabilitation of the shaft to the anticipated 125 ft. level.

R. E. Fitzgerald (Trustee)
Copper Hill Mine

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
SEP 9 1952

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of June, 1952 Docket No. DMEA 2495 Contract No. E 331
Operator's Name R. R. FITZGERALD (TRUSTEE) COPPER HILL MINE Minerals ZINC & COPPER
Address c/o DR. R. C. HARTWELL, 209 POST ST., SAN FRANCISCO, CALIF.
Contract Amount, $ Government Participation: 50% Amount, $

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						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services	25.00		25.00	25.00		25.00
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental	116.28		116.28	39.00		39.00
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs	558.29		558.29	633.57		633.57
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes	16.33		16.33	18.33		18.33
Liability Insurance						
(8) Contingencies (specify): Insurance not received.						
TOTALS	715.90		715.90	715.90		715.90

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

Date Aug. 6, 1952 Payee R. R. FITZGERALD

For R. R. Fitzgerald Title TRUSTEE

*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:

$ 357.95

Lloyd L. Norvell
Authorized Certifying Officer

Signature
(Authorized Certifying Officer)

Date SEP 3 1952 Vou. No. SF-DMEA-12

(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. [illegible] in accordance with the terms of the contract.

Signature [illegible] Title [illegible] Date August 8, 1952

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature [illegible] Title Executive Officer DMEA Field Team Region III Date August 12, 1952

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.

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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.

U. S. GOVERNMENT PRINTING OFFICE 205675

Form MF-104A
(April 1952)

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
SEP 9 1952

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of June 1952 Docket No. DMEA 2495 Contract No. E 331
Operator's Name R. E. FITZGERALD, TRUSTEE, COPPER HILL MINE Minerals Z INC & COPPER
Address c/o DR. E. C. HARTWELL, 209 POST ST., SAN FRANCISCO, CALIF.

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								
TOTAL DISTRIBUTED COSTS								TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs		715.90		715.90				
New Buildings, Improvements, etc.								
TOTAL COSTS		715.90		715.90				

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. 6, 1952 Operator R. E. FITZGERALD

Per R. E. Fitzgerald Title TRUSTEE

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: Insurance bills not received.

(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.

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NARRATIVE DESCRIPTION OF PROGRESS

COPPER HILL MINE

JUNE 30, 1952

Distribution of Labor

General Mine, Bookkeeping, Engineering & Preliminary Expense	$ 333.33
Hoist; foundation sketch, excavation, dismantling	56.25
Cleaning around shaft	5.06
Cutting down trees	12.93
Hauling	10.13
Reclaiming Pipe	19.13
	$ 436.83

The area around the Jackass Shaft was cleared of old timbers, fallen trees and underbrush.

The large air hoist was dismantled for moving from the Main shaft to the Jackass Shaft. Foundation sketches were made. The loose soil was excavated for the concrete foundation .

Sketches were made of a Head Frame suitable for the work to be undertaken.

Sketches were made of the plan for concrete collar of the shaft, as required by the State Engineer.