United States Department of the Interior

GEOLOGICAL SURVEY
BOX 25046 M.S. 922
DENVER FEDERAL CENTER
DENVER, COLORADO 80225

BRANCH OF CENTRAL MINERAL RESOURCES

IN REPLY REFER TO:
(303) 236-5607

March 6, 1989

Re: DMEA 4850 (zinc)
The New Jersey Zinc Co.
Little War Creek Area
Hancock Co., Tenn.
Contract Idm E-1174

Mr. T. J. Montgomery
Property Superintendent
Inspiration Mines, Inc.
P.O. Box "S"
Claypool, Arizona 85532

Dear Mr. Montgomery:

Under the terms of the contract and the Certification of Possible Production, the certification period and royalty due if there had been production, has expired as of February 26, 1989.

According to present records, the Government retains no claims or liens against the property subject to the contract or any production therefrom. Therefore, we are closing our books and records on this contract.

Sincerely yours,

David A. Lindsey

David A. Lindsey, for
J. William Hasler, Chief
Office of Minerals Exploration

DALindsey:js

Copies to: G. H. Allcott
H. A. Tourtelot
D. A. Lindsey
Robert Edwards
J. W. Hasler

United States Department of the Interior
GEOLOGICAL SURVEY
BOX 25046 M.S. 922
DENVER FEDERAL CENTER
DENVER, COLORADO 80225

September 24, 1987

Re: DMEA 4850 (zinc)
The New Jersey Zinc Co.
Little War Creek Area.
Hancock Co., Tenn.
Contract Idm E-1174

Mr. T. J. Montgomery
Property Superintendent
Inspiration Mines, Inc.
P.O. Box S
Claypool, AZ 85532

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,

J. William Hasler

J. William Hasler, Chief
Office of Minerals Exploration

Rec'd 10/8/87
OmE

Form MME 63
(May 1970)

REQUEST FOR INFORMATION ON CERTIFIED PROJECT OR PROJECT UNDER ROYALTY AGREEMENT

1. Since June 4, 1986, 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 ☒

Has any interest been acquired since July 20, 1981 in the land wityin 1500 feet of the land described in the contract? (See Item 1, "Special Agreenent Concerning Land" on page 2 of Annex 1 of the contract.) -NO-

2. Since June 4, 1986, 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.

Purchaser (*name and address*)	Quantity	Value

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

Type	Quantity (*tons*)	Estimated Grade	Location
Ore			
Concentrates			
Other			

3. Since June 4, 1986, has any production been transported through workings (*see of contract*)? Yes ☐ No ☒

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

Disposition of Material	Quantity	Value

Submitted by:

Name Thomas J. Montgomery	*Title* Property Superintendent
Address P. O. Box "S" Claypool, Arizona 85532	*Date* 06 October 1987

United States Department of the Interior

GEOLOGICAL SURVEY
BOX 25046 M.S. 922
DENVER FEDERAL CENTER
DENVER, COLORADO 80225

September 24, 1987

Re: DMEA 4850 (zinc)
The New Jersey Zinc Co.
Little War Creek Area
Hancock Co., Tenn.
Contract Idm E-1174

Mr. T. J. Montgomery
Property Superintendent
Inspiration Mines, Inc.
P.O. Box 5
Claypool, AZ 85532

Dear Mr. Montgomery:

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,

J. William Hasler

J. William Hasler, Chief
Office of Minerals Exploration

Form MME 63
(May 1970)

REQUEST FOR INFORMATION ON CERTIFIED PROJECT OR PROJECT UNDER ROYALTY AGREEMENT

1. Since June 4, 1986, 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 ☒

Has any interest been acquired since July 20, 1981 in the land within 1500 feet of the land described in the contract? (See Item 1, "Special Agreement Concerning Land" on page 2 of Annex 1 of the contract.) -NO-

2. Since June 4, 1986, 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.

Purchaser (name and address)	Quantity	Value

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

Type	Quantity (tons)	Estimated Grade	Location
Ore			
Concentrates			
Other			

3. Since June 4, 1986, has any production been transported through workings (see of contract)? Yes ☐ No ☒

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

Disposition of Material	Quantity	Value

Submitted by:

Name Thomas J. Montgomery	*Title* Property Superintendent
Address P. O. Box "S" Claypool, Arizona 85532	*Date* 06 October 1987

United States Department of the Interior

GEOLOGICAL SURVEY
BOX 25046 M.S. 939
DENVER FEDERAL CENTER
DENVER, COLORADO 80225

Sept 24, 1987

~~August 6~~, 1986

Re: DMEA 4850 (zinc)
The New Jersey Zinc Co.
Little War Creek Area
Hancock Co., Tenn.
Contract Idm E-1174

Mr. T. J. Montgomery
Property Superintendent
Inspiration Mines, Inc.
P.O. Box ~~1559~~ 5
Claypool, AZ 85532

AUG 21 1986

Dear Mr. Montgomery:

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,

J. William Hasler

J. William Hasler, Chief
Office of Minerals Exploration

JWH:js

Form MME 63
(May 1970)

REQUEST FOR INFORMATION ON CERTIFIED PROJECT OR PROJECT UNDER ROYALTY AGREEMENT

1. Since June 4, 1985, 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 ☒

Has any interest been acquired since July 20, 1981 in the land within 1500 feet of the land described in the contract? (See Item 1, "Special Agreement Concerning Land" on page 2 of Annex 1 of the contract.)

2. Since June 4, 1985, 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.

Purchaser *(name and address)*	Quantity	Value

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

Type	Quantity *(tons)*	Estimated Grade	Location
Ore			
Concentrates			
Other			

3. Since June 4, 1985 workings *(see* , has any production been transported through *of contract)*? Yes ☐ No ☒

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

Disposition of Material	Quantity	Value

Submitted by:

Name	Title
Thomas J. Montgomery	Property Supt
Address	**Date**
Box S Claypool Ariz 85532	Aug 19, 1986

United States Department of the Interior

GEOLOGICAL SURVEY
BOX 25046 M.S. 939
DENVER FEDERAL CENTER
DENVER, COLORADO 80225

August 6, 1986

Re: DMEA 4850 (zinc)
The New Jersey Zinc Co.
Little War Creek Area
Hancock Co., Tenn.
Contract Idm E-1174

Mr. T. J. Montgomery
Property Superintendent
Inspiration Mines, Inc.
P.O. Box 1559
Claypool, AZ 85532

RECEIVED
AUG 21 1986

Dear Mr. Montgomery:

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,

J. William Hasler

J. William Hasler, Chief
Office of Minerals Exploration

JWH:js

Form MME 63
(May 1970)

REQUEST FOR INFORMATION ON CERTIFIED PROJECT OR PROJECT UNDER ROYALTY AGREEMENT

1. Since June 4, 1985, 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 ☒

Has any interest been acquired since July 20, 1981 in the land within 1500 feet of the land described in the contract? (See Item 1, "Special Agreement Concerning Land" on page 2 of Annex 1 of the contract.)

2. Since June 4, 1985, 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.

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

Type	Quantity (*tons*)	Estimated Grade	Location
Ore			
Concentrates			
Other			

3. Since June 4, 1985, has any production been transported through workings (*see of contract*)? Yes ☐ No ☒

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

Disposition of Material	Quantity	Value

Submitted by:

Name	Title
Thomas J. Montgomery	Property Supt
Address	**Date**
Box S Claypool Ariz 85532	Aug 19, 1986

OFFICE OF MINERALS EXPLORATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

REPORT OF ROYALTY REVIEW

I have reviewed the files of the Washington office pertaining to Contract Idm-E1174, Docket DMEA-4850 (zinc), dated February 26, 1958, with

The New Jersey Zinc Company
160 Front Street
New York 38, New York
and
Jefferson City, Tennessee

for the purpose of determining the amount of royalty payable to the U. S. Government on sales of minerals from property referred to as the Little War Creek Area of the Copper Ridge Belt located in Hancock County, Tennessee, during the period February 26, 1958, through October 10, 1960.

A certification of discovery or development was issued on December 6, 1960, and, in accordance with Article 8, Annexes I and II, and Amendment No. 1 of the contract, royalty is payable on all minerals produced from the land described in Article 2 of the contract for a period of 31 years from the date of the contract or until the total net amount contributed by the Government without interest is fully repaid, whichever occurs first. A Report of Review dated November 16, 1960, indicated accepted costs under the exploration contract amounting to $105,505.50 with the Government's contribution on a 50 percent basis being $52,752.75.

The status of the project, the scope of review, and the reasons therefor are stated on page 2.

This review established no sales subject to the Government's royalty for the period. Accordingly, as of October 10, 1960, the royalty account of this project was found to be:

Total Royalty Payable	$ -0-
Total Royalty Paid	-0-
Balance of Royalty Due	$ -0-

June 8, 1962

E. D. Talbert, OME Auditor

STATUS OF PROJECT, SCOPE OF REVIEW
AND REASONS THEREFOR

The contract provides that the Operator, as principal if the producer or as surety if not the producer, shall pay to the Government a percentage royalty on all minerals produced for a maximum of 31 years from (1) the lands thereunder and (2) any lands within 1500 feet of such land, if the Operator or any subsidiary acquires an interest therein before February 26, 1968. The term "minerals" includes limestone and dolomite products derived from processing ores.

At the time this contract was executed, the land thereunder consisted of 14 tracts aggregating about 1,069 acres held by the Operator under options to purchase the minerals and mining rights from private owners. Consents to Lien were waived.

Exploration work under the contract was completed during May 1960. No minerals were produced from the property during the exploration period. Examinations of the property and conferences with the Operator's officials have disclosed no production during the period covered by this review.

The Operator's final report dated October 10, 1960, indicates that 660 acres of the subordinated land were still under option, 20 acres were owned in fee, and mining and mineral rights had been purchased in the balance of the acreage.

This review was made in lieu of an on-site audit of the Operator's accounts and records for the following reasons:

(1) The files disclose no evidence of production from the lands under the contract during the period covered by this review; and

(2) The administrative cost to the Government of an on-site royalty audit at this time would be excessive in relation to the amount of possible royalty which might be disclosed.

JUN 8 1962

Memorandum

To: Chief, Fiscal Section, Division of Administrative Services, Office of the Secretary

From: Chief, Division of Field Operations, ONE

Subject: DMEA-4850 (Zinc)
The New Jersey Zinc Company
Little War Creek Area
Hancock County, Tennessee
Contract Idm-41174

Enclosed for your files is the original of a Report of Royalty Review on the subject contract.

George C. Selfridge

Enclosure

G.C.Selfridge/bih (6-8-62)

cc to: Docket
Dir. reading file
✓CA & A Division
G. S. Selfridge
R. A. Laurence, USGS, Reg. IV, w/cy of Report of Royalty Review dtd 6/8/62 & orig. cy of memo dtd 6/8/62 to Chief, Div. of Field Operations from CA&A Division.
Avery Reed, USBM, Reg. IV, w/cy of ea. item sent to Mr. Laurence.

JUN 8 1962

Memorandum

To: Chief, Division of Field Operations

From: E. D. Talbert, Acting Chief (Signed) E. D. Talbert
Contract Administration and Audit Division

Subject: DMSA-4850 (Zinc)
The New Jersey Zinc Company
Little War Creek Area
Hancock County, Tennessee
Contract Idm-51174

Enclosed are the original and two copies of a Report of Royalty Review covering the subject Region IV contract. If you concur in the facts stated therein, please make the following distribution:

(a) Original to the Fiscal Section, Division of Administrative Services, Office of the Secretary; and

(b) Two copies to Region IV files.

This report is for OMB record purposes only; therefore, no copy has been provided for the Operator.

As evidence of your concurrence, a copy of your memorandum transmitting the original of the report to the Department's Fiscal Section should be furnished this Division. If for any reason you do not concur, the original and both copies should be returned to this Division with your comments.

Enclosures

EDTalbert/ama 6-8-62

cc:
Docket
Director's Reading File
CA & A Division
Mr. Rothrock

OFFICE OF MINERALS EXPLORATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

REPORT OF REVIEW

I have reviewed the Monthly Reports of:

The New Jersey Zinc Company
Jeffersen City, Tennessee

pertaining to Exploration Project Contract Idm-81174, DMEA-4850, including Amendments Nos. 1 and 2, for April 1958 to May 1960, inclusive, covering a zinc project in the Little War Creek Area of the Copper Ridge Belt, Hancock County, Tennessee.

My review included an examination of the Monthly Reports (Forms MF-104) and supporting documents, comparison of the claimed costs with the contract and pertinent schedules, verification of work performed by reference to Field Office reports and correspondence, and a determination of the reasonableness and propriety of the costs.

This review was made in lieu of a final audit of the Operator's accounts and records for the reasons given in the attached schedule.

The findings of this review are stated in the following summary and the attached schedule:

Total cost billed by Operator		$106,652.60
Exceptions:		
Prior to this review	$ .80	
Herewith	1,146.30	1,147.10
Total acceptable cost		$105,505.50

The contract calls for a 50 percent contribution of the allowable costs by the Government. Therefore, if the project is otherwise accepted as having met the terms of the contract, payments as follows are valid and proper:

Payable on audited claim	$ 52,752.75
Paid to date	51,348.49
Balance due Operator	$ 1,404.26

E. D. Talbert

E. D. Talbert, OME Auditor

November 16, 1960

Reasons for Report of Review in lieu of a final audit:

(a) the Monthly Reports were supported by documentary proof of that portion ($96,778.50) of the acceptable costs covering work performed at unit rates under independent contract, as well as the costs ($1,027.00) of assays and core boxes;
(b) the balance ($7,700.00) of the acceptable costs was under a contract provision for payment by the Government at fixed unit costs for work performed; and
(c) the administrative cost to the Government of an audit would be excessive in relation to the estimated amount of possible further disallowances.

Exceptions prior to this review:

Overburden and AX drilling claimed in February 1960 MF-104 as 1,024' @ $2.75 being $2,816.80, whereas correct computation is $2,816.00; difference	$ .80

Exceptions by this review:

Category (1), Independent Contract drilling -		
Total costs claimed	$97,775.60	
Less: Exceptions (above)	.80	$ 97,774.80
Acceptable costs (below)		96,778.50
Difference		$ 996.30
Category (7), Core boxes -		
Claimed costs @ $1.80/ea.	$ 1,080.00	
Invoiced costs @ $1.55/ea.	930.00	150.00
Total		$ 1,146.30

Acceptable costs:

Category (1), Independent Contract drilling -			
5,071'	Overburden, NX, & BX	@ $2.85 (Avg.)	$ 14,452.50
29,788'	AX	@ 2.75 (Max.)	81,917.00
28'	BX	@ 2.50 (Max.)	70.00
113'	AX (over 1,000')	@ 3.00 (Max.)	339.00
35,000'			96,778.50*

Category (7), Miscellaneous -			
97	Samples assayed	@ $ 1.00	$ 97.00
600	Core boxes	@ 1.55	930.00
Fixed Unit Costs -			
35,000'	Incidental allowance	@ $ .22	7,700.00
Total			$105,505.50

* Actual costs invoiced by E. J. Longyear Company:

3,476'	Overburden	@ $ 2.75	$ 9,559.00
232'	"	@ 3.10	719.20
51'	NX	@ 3.05	155.55
1,265'	BX	@ 3.05	3,852.15
49'	"	@ 3.40	166.60
27,228'	AX	@ 2.75	74,877.00
2,933'	"	@ 3.10	9,092.30
28'	EX	@ 2.65	74.20
115'	AX (over 1,000')	@ 3.00	339.00
35,373'			98,835.00
98 hrs.	Hauling core	@ 3.25	318.50
53 hrs.	Capping hole	@ 5.25	172.25
11 hrs.	Hole survey	@ 5.00	55.00
8 hrs.	Tro-Pari survey	@ 12.50	100.00
Total			$ 99,480.75

DEC 21 1960

Memorandum

To: Mr. Robert A. Lawrence
U. S. Geological Survey
Room 11, Post Office Building
Knoxville 2, Tennessee

From: Chief, Division of Field Operations

Subject: Records for Region IV, OME Knoxville official file
DMEA-4850 (Zinc)
The New Jersey Zinc Company
Little War Creek Area - Sector II
Hancock County, Tennessee
Contract Idm-21174

Attached are a Report of Review with original transmittal memorandum of November 16, 1960, a copy of the Operator's final voucher with narrative for May 1960, a copy of a memorandum dated November 22, 1960, to the Chief, Fiscal Section, Division of Administrative Services, Office of the Secretary, approving payment of the final voucher, and a copy of a letter dated November 22, 1960, to the Operator from the Chief, Division of Field Operations.

George C. Selfridge

Attachments

GCSelfridge/hb (12/20/60)
Copy to: Docket DMEA-4850
Director's Reading File
CA&A Division
G. C. Selfridge
Chron (500)

NOV 22 1960

Mr. Johnson Crawford
General Superintendent
The New Jersey Zinc Company
Jefferson City, Tennessee

Re: RMA-4650 (Zinc)
The New Jersey Zinc Company
Little War Creek Area - Sector II
Hancock County, Tennessee
Contract Idm-21174

Dear Mr. Crawford:

Enclosed for your information is a copy of a Report of Review on the project costs under the subject contract. The balance due of $1404.36 will be paid shortly.

Sincerely yours,

George O. Hamilton

Chief, Division of Field Operations

Enclosure

LGHouk/fw-11/15/60

cc: Docket
Director's Read. File
CA&A Division
Reg. IV (2)
Fiscal Section, Div. Admin. Services
Mr. Houk
Mr. Selfridge
Chron.

NOV 22 1960

Memorandum

To: Chief, Fiscal Section
Division of Administrative Services
Office of the Secretary

From: Chief, Division of Field Operations

Subject: DMSA-4890 (Zinc)
The New Jersey Zinc Company
Little War Creek Area - Sector II
Hancock County, Tennessee
Contract Ism-41174

Attached is the original of a Report of Review by the Contract Administration and Audit Division, DMS, on the above-noted project in which we concur. The original (with supporting documents) and two copies of the May 1960 voucher are attached.

The indicated balance due the Operator may be paid.

Attachments

LGHouk/fw-11/15/60
cc: Docket
Director's Read.File
CA&A Division
Reg. IV (2)
Mr. Houk
~~Mr. Selfridge~~
Chron.

NOV 16 1960

Memorandum

To: Chief, Division of Field Operations

From: E. D. Talbert, Acting Chief (Signed) E. D. Talbert
Contract Administration and Audit Division

Subject: DMEA-4850 (Zinc)
The New Jersey Zinc Company
Little War Creek Area
Hancock County, Tennessee
Contract Idm-E1174

As requested by your November 15 memorandum a Report of Review in lieu of a final audit of the subject contract has been prepared. The original and two copies are attached.

If you concur in the facts as stated in this Report of Review, distribution should be made in accordance with section 4 of OME Circular 2, dated February 17, 1960. If for any reason you do not concur, please return the original and both copies to this Division with your comments.

It is to be noted that the total amount paid to date to the Operator under this contract is $51,348.49 and not $47,409.01 as stated in your memorandum.

Attachments

EDTalbert/ama
November 16, 1960

Copy to: Docket
Director's Reading File
CA & A Division
Mr. Rothrock

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

NOV 15 1960

Memorandum

To: Contract Administration and Audit Division

From: Chief, Division of Field Operations

Subject: Request for Report of Review
DMEA-4850 (Zinc)
The New Jersey Zinc Company
Little War Creek Area - Sector II
Hancock County, Tennessee
Contract Idm-E1174

Work was completed on May 20, 1960.

The following units of work were completed and are accepted:

(1) 35,375 feet of DD
(2) 600 core boxes
(3) 97 assays.

The Operator's final report was received on November 14, 1960, and it is acceptable.

The total amount paid to date is $47,409.01.

A Report of Review is in order and requested. The original and copies of the May (final) voucher with supporting documents previously furnished you are being held by the Division of Field Operations.

George C. Selfridge

Attachment

AUG 5 1980

Memorandum

To: Mr. Victor Lynch, Region IV

From: Lawrence G. Hook, Acting Field Officer, Region IV

Subject: Documentation of costs

Attached is a copy of a self-explanatory memorandum from the Division of Contract Administration and Audit, and a prepared letter to the New Jersey Zinc Company which should be forwarded if the documents are not in Knoxville.

Lawrence G. Hook

LGHook/gla
Attachments
cc to: Washington Office
CA&A Division
Mr. Lawrence
Mr. Wadow
Chron

AUG 3 1960

Memorandum

To: Acting Field Officer, Region IV

From: E. D. Talbert, Acting Chief (Signed) E. D. Talbert
Contract Administration and Audit Division

Subject: EMGA-4850 (Zinc)
The New Jersey Zinc Company
Little War Creek Area
Hancock County, Tennessee
Contract Idm-E1174

An audit review, preliminary to the preparation of a Report of Review on the subject contract, has disclosed that the total of $106,652.60 claimed on the final (May 1960) MF-104 includes $1,177.00 in undocumented costs. These undocumented costs are:

97 Assays	@ $1.00	$ 97.00
800 Core boxes	@ 1.30	1,080.00

The contract provides for contribution by the Government on the basis of actual costs at not to exceed the unit costs of $1.00 for each sample assayed and $1.30 for each core box purchased. In accordance with the instructions on the reverse of the Operator's Monthly Report and Voucher, Form MF-104 (Rev.) these items must be supported by original documentation (priced assay reports and invoices) or certified copies thereof.

It is suggested that you advise the Operator of this requirement in order that he may furnish the required documentation and thereby avoid a disallowance in the settlement of the account.

EDTalbert/ama
August 3, 1960

Copy to: Docket
Director's Reading File
CA & A Division
Mr. Talbert
Mr. Rothrock

Room 11, Post Office Bldg.,
Knoxville 2, Tennessee

AUG 8 1960

Mr. Johnson Crawford
Assistant Manager of Mines
New Jersey Zinc Company
Jefferson City, Tennessee

Re: RMKA-4850 (Zinc)
New Jersey Zinc Company
Little War Creek Area
Hancock County, Tennessee
Contract Lim-81174

Dear Mr. Crawford:

The total costs claimed on the final (May 1960) MF-104 include undocumented costs of $1,177.00 for 97 assays and 600 core boxes. The contract provides for Government contribution to the actual costs of these items, but not in excess of $1.00 for each sample assayed and $1.50 for each core box purchased. Thus, these items require support by original documentation (Inter-Departmental memoranda, invoices, assay reports, etc.) or certified copies thereof. In order to avoid an audit disallowance of these costs, it is suggested that the supporting documentation be submitted.

Sincerely yours,

Lawrence G. Houk

Lawrence G. Houk
Acting Field Officer
Region IV

LGHouk/gla
8-5-60
cc to: Region IV (2)
Washington Office
CA&A Division
Mr. Lawrence
Mr. Wedow
Chron

Sent. by Lynch

FINAL

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

Sch. 779

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of May, 1960 Docket No. DMEA 4850 Contract No. Idm B 1174
Operator's Name The New Jersey Zinc Company Minerals Zinc
Address Jefferson City, Tennessee
Contract Amount, $106,780.00 Government Participation: 50 % Amount, $53,390.00

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	3,650.20	94,116.00	97,775.60			
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor						
Supervision	207.02	7,492.98	7,700.00			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment	-	97.00	97.00			
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
Core Boxes	88.20	991.80	1,080.00			
(8) Contingencies (specify):						
				2808.52		
TOTALS	3,945.42	102,697.78	106,652.60		102,696.98	105,505.56

EXTRA COPY
O. M. E
RECEIVED DEC 6 1960
DATE | INITIALS | CODE

I certify that the above bill is correct and just and that payment therefor has not been received.
Date 6-3-60 *Payee The New Jersey Zinc Company
Per [signature] Title Chief Geologist

*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:
$ 1404.26
Per Report of Review 11/16/60
Signature [signature]
(Authorized Certifying Officer)
Date 12/6/60 Vou. No. 2257
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E-1174 in accordance with the terms of the contract.

Signature N. J. Lynch Title MINING ENGINEER U. S. BUREAU OF MINES Date JUN 22 1960

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature ..... Title ..... Date .....

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of May 195 60 Docket No. DMEA 4850 Contract No. Idm E 1174

Operator's Name The New Jersey Zinc Company Minerals Zinc

Address Jefferson City, Tennessee

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 0-1000 BX	Ft.	317.20	104	4,809.85	1,577	3.05	1,000	3.05
Drilling: Core 0-1000 AX	"	3,333.00	1,212	92,556.75	33,657	2.75	29,000	2.75
Drilling: Churn 0-1000 EX	"		-	70.00	28	2.50		2.50
Drilling: Auger 1000 + AX	"			339.00	113	3.00	5,000	3.00
Stripping 1000 + BX	"		-					
Trenching Assays	Ea.			97.00	97	1.00	200	1.00
Test Pits Core Bxs.	"	88.20	49	1,080.00	600	1.80	600	1.80
Roads and Trails Sup.& Tech. Ser.	Ft.	207.02	941	7,700.00	35,000	0.22	35,000	0.22
TOTAL DISTRIBUTED COSTS		3,945.42		106,652.60				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		3,945.42		106,652.60				

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.

REMARKS: Includes holes LW-104, LW-105 and LW-106

Date 6-8-60 Operator The New Jersey Zinc Co.

Per [signature] Title Chief Geologist

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)

There are errors in Form MF-104 and Invoice No. 56038.

VRZ.

[signature]

JUN 21 1960

GEOLOGIST, U. S. G. S.

INSTRUCTIONS

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

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

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

GPO 872894

Report for May, 1960

Little War Creek Area DMEA 4850

Contract Idm B 1174 (Zinc)

During the month of May, three holes were drilled on the Little War Creek Project. All of these holes are located on the W. M. Brewer property. The footage authorized under the terms of the DMEA contract was used up in Hole LW-106.

Hole LW-104 (W. M. Brewer property)

Hole LW-104 was drilled at a location 200 feet updip from LW-80 in an attempt to intersect the indicated eastward trend of mineralization encountered in holes LW-75 and LW-85. This hole collared in the Kingsport formation and was drilled to a depth of 306 feet.

Coordinates: N 746,357.72; 795,159.43
Elevation: 1661.44

Results:

0-122 - - Overburden
122-282 - - Lower Kingsport dolomite
282-306 - - (Bottom) Longview dolomite

Hole LW-105 (W. M. Brewer property)

Hole LW-105 was drilled half-way between LW-104 and LW-80 in a further attempt to intersect the indicated eastward trend of mineralization encountered in holes LW-75 and LW-85. This hole collared in the Mascot formation and was drilled to a depth of 410 feet.

Coordinates: N 746,056.12; E 795,157.95
Elevation: 1674.80

Results:

0- 40 - - Overburden
40- 60 - - Mascot dolomite
60-249 - - Upper Kingsport dolomite
249 - - TR
249-375 - - Lower Kingsport dolomite
375-410 - - (Bottom) Longview dolomite

Hole LW-106 (W. M. Brewer property)

This hole was drilled 100 feet south of hole LW-80 in order to test for the eastward extension in this area of the mineralization

encountered in holes LW-75 and LW-85. The hole collared in the Mascot formation and was drilled to a depth of 600 feet.

Coordinates: N 746,255.58; E 795,161.21
Elevation: 1667.40

Results:

0- 14	Overburden
14-284	Mascot dolomite
284-440	Upper Kingsport dolomite Sphalerite shines 390-390½, 399 403-404, 1' @ 1% Zn Estimated Traces of sphalerite @ 407,412-413,414,418, 419-421 and 422-424
440	TR
440-586	Lower Kingsport dolomite
586-600	(Bottom) Longview dolomite

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

Sch 1813

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.5

OPERATOR'S MONTHLY REPORT AND VOUCHER

1174

Month of April, 1960 Docket No. DMEA 4850 Contract No. Idm E 1147
Operator's Name The New Jersey Zinc Company Minerals Zinc
Address Jefferson City, Tennessee
Contract Amount, $106,780.00 Government Participation: 50 % Amount, $ 53,390.00

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	6358.55	87,757.45	94,116.00			
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor						
Supervision	507.10	6,985.88	7,492.98			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	4.00	93.00	97.00			
Payroll Taxes						
Liability Insurance						
Core Boxes	59.40	932.40	991.80			
(8) Contingencies (specify):						
					95,767.93	102,696.98
				6929.05	95,768.73	102,697.78
TOTALS	6929.05	95,768.73	102,697.78			

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

Date 5/4/60 *Payee The New Jersey Zinc Company

Per [signature] Title Chief Geologist

*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:

$ 3464.53

Signature [signature]
(Authorized Certifying Officer)

Date 5/27/60 Vou. No. 4906

(See other side)

3464.53

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E-1174 in accordance with the terms of the contract.

Signature W. Lynch Title MINING ENGINEER U. S. BUREAU OF MINES Date MAY 12 1960

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE: ACTING FIELD OFFICER, REGION IV OFFICE OF MINERALS EXPLORATION

Signature Lawrence G. Houk Title Date 5-23-60

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

MAY 27 1960
O.M.E.

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

Month of April 195 60 Docket No. DMEA 4850 Contract No. Idm E 1174
Operator's Name The New Jersey Zinc Company Minerals Zinc
Address Jefferson City, Tennessee

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 0-1000 BX	Ft.	201.30	66	4,492.65	1,473	3.05	1,000	3.05
Core 0-1000 AX	"	6157.25	2239	89,214.35	32,445	2.75	29,000	2.75
Churn 0-1000 EX	"		-	70.00	28	2.50		2.50
Auger 1000 + AX	"		-	339.00	113	3.00	5,000	3.00
Stripping 1000 + BX	"		-		-			
Trenching Assays	Ea.	4.00	4	97.00	97	1.00	200	1.00
Test Pits Core Bxs.	"	59.40	33	991.80	551	1.80	600	1.80
Roads and Trails Sup.& Tech.Ser.	Ft.	507.10	2305	7,492.98	34,059	0.22	35,000	0.22
Total Distributed Costs		6929.05		102,697.78				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs		6929.05		102,697.78				

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 5/4/60 Operator The New Jersey Zinc Co.

Per [signature] Title Chief Geologist

Remarks: Includes holes LW-101, LW-102, and LW-103

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)

[signature]
GEOLOGIST, U. S. G. S.

MAY 18 1960

INSTRUCTIONS

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

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

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

GPO 872894

Report for April 1960

Little War Creek Area DMEA 4850

Contract Idm E 1174 (Zinc)

During the month of April three holes were completed on the Little War Creek Project.

Hole LW-101 (NJZ Co. M & M rights)

Hole LW-101 was drilled on the Lewis Tunmire farm at a location approximately 150 feet south of LW-87 and on a - 50° angle toward holes LW-87, 76 and 75. The purpose of this hole was to intersect the potential ore zones in the Lower Kingsport between holes LW-76 and LW-75 and to test for the presence of a steeply dipping orebody. This hole collared in the Mascot formation and was drilled to a depth of 850 feet.

Coordinates: N 745,384.03; E 794,745.56
Elevation: 1568.15
Inclination: - 50°; Bearing N 1° W

Results:

0- 18 - - Overburden
18-557 - - Mascot dolomite
557 - - Ce Mtx
557-722 - - Upper Kingsport dolomite
722 - - TR
722-850 - - (Bottom) Lower Kingsport dolomite
Shine ZnS @ 724
729-733, 4' @ 2% Zn Est.

Hole LW-102 (NJZ Co. M & M rights)

Hole LW-102 was drilled on the Lewis Tunmire farm at a location 100 feet north of hole LW-100 in an attempt to intersect the indicated westward trend of the mineralization encountered in holes LW-74, LW-75 and LW-85. This hole collared in the Mascot formation and was drilled to a depth of 650 feet.

Coordinates: N 745,852.67; E 793,969.97
Elevation: 1628.69

Results:

0- 90 - - Overburden
90-320 - - Mascot dolomite
320 - - CeMtx
320-490 - - Upper Kingsport dolomite
490 - - TR
490-650 - - (Bottom) Lower Kingsport dolomite
564-583, 19' @ 2% Zn Est.
586-609, 23' @ 1% Zn Est.

Hole LW-103 (NJZ Co. M & M rights)

Hole LW-103 was drilled on the Lewis Tunmire farm about 130 feet south of hole LW-100 in order to explore for ore adjacent to the mineral occurrence in hole LW-100. Hole LW-103 collared in the Mascot formation and was drilled to a depth of 805 feet.

Coordinates: N 745,626.15; E 793,980.76
Elevation: 1621.97

Results:

0- 30	- - Overburden
30-495	- - Mascot dolomite
495	- - CeMtx
495-663	- - Upper Kingsport dolomite
663	- - TR
663-805	- - (Bottom) Lower Kingsport dolomite 684-685, 1' @ 2% Zn Est. Traces of ZnS at 715,718,719,736-738

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

Budget Bureau No. 42-R1036.5

MAY 27 1960

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

Month of March 1960 Docket No. DMEA 4850 Contract No. Idm E 1174
Operator's Name The New Jersey Zinc Company Minerals Zinc
Address Jefferson City, Tennessee
Contract Amount, $106,780.00 Government Participation 50 % Amount, $53,390.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent / Short Form Contracts:						
Drilling	3,386.50	84,370.95	87,757.45			
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services	269.72	6,716.16	6,985.88			
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	8.00	85.00	93.00			
Payroll Taxes						
Liability Insurance						
Core Boxes	32.40	900.00	932.40			
(8) Contingencies (specify):						
					92,071.31	95,767.93
TOTALS	3,696.62	92,072.11	95,768.73	3696.62	92,072.11	95,768.73

I certify that the above bill is correct and just and that payment therefor has not been received.
Date 4/1/60 *Payee The New Jersey Zinc Company
Per [signature] Title Chief Geologist

*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:

$ 1848.31

Signature [signature]
(Authorized Certifying Officer)
Date 5/27/60 Vou. No. 4906
(See other side)

1848.31

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E-1174 in accordance with the terms of the contract.

Signature W. Lynch Title MINING ENGINEER U. S. BUREAU OF MINES Date APR 22 1960

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Lawrence G. Houk Title act. Field off. Date 4/25/60

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 872893

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

MAY 27 1960

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of March 60 195 Docket No. DMEA 4850 Contract No. Idm E 1174
Operator's Name The New Jersey Zinc Company Minerals Zinc
Address Jefferson City, Tennessee

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 0-1000 BX	Ft.	152.50	50	4,291.35	1,407	3.05	1,000	3.05
Core 0-1000 AX	"	3,234.00	1176	83,057.10	30,206	2.75	29,000	2.75
Auger 0-1000 EX	"		-	70.00	28	2.50		2.50
Stripping 1000 + AX	"		-	339.00	113	3.00	3,000	3.00
Trenching 1000 + BX	"		-		-			
Test Pits Assays	Ea.	8.00	8	93.00	93	1.00	200	1.00
Roads and Trails Core Boxes	"	32.40	18	932.40	518	1.80	600	1.80
Sup. & Tech.Ser.	Ft.	869.72	1226	6,985.88	31,754	0.22	33,000	0.22
TOTAL DISTRIBUTED COSTS		3,696.62		95,768.73				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		3,696.62		95,768.73				

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 4/1/60 Operator The New Jersey Zinc Co.

Per [signature] Title Chief Geologist

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:

(Instructions on reverse)

(For Government use only)

Stevedow

APR 21 1960

INSTRUCTIONS

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

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

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

GPO 872894

Report for March 1960

Little War Creek Area DMEA 4850

Contract Idm E 1174 (Zinc)

During the month of March, two holes were completed on the Little War Creek Project.

Hole LW-99 - (NJZ Co. M&M rights)

Hole LW-99 was drilled on the M. C. Tunmire farm approximately 200 feet northeast of LW-57. The hole collared in the Mascot formation and was drilled to a depth of 500 feet.

Coordinates: N 746,317.90; E 799,691.86
Elevation: 1587.56

Results:

0- 36 - - Overburden
36-193 - - Mascot dolomite
139-140, shines
193 - - Ce Mtx
193-385 - - Upper Kingsport dolomite
traces @ 235, 269
385 - - TR
385-500 - - (Bottom) Lower Kingsport dolomite

Hole LW-100 - (NJZ Co. M&M rights)

Hole LW-100 was drilled on the Lewis Tunmire farm at a location 300 feet south of LW-78 in an attempt to intersect the indicated westward trend of the mineralization encountered in holes LW-74, LW-75 and LW-85. This hole collared in the Mascot formation and was drilled to a depth of 726 feet.

Coordinates: N 745,752.65; E 793,971.09
Elevation: 1621.74

Results:

0- 60 - - Overburden
60-400 - - Mascot dolomite
400 - - Ce Mtx
400-584 - - Upper Kingsport dolomite
Trace sphalerite 483, 493
584 - - TR
584-726 - - (Bottom) Lower Kingsport dolomite
Trace sphalerite 644, 648, 658
662-701, 39' @ 1.36% Zn
662-672, 10' @ 2.42% Zn

Review Com.
OME

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
ROOM 1, POST OFFICE BLDG.
KNOXVILLE 2, TENNESSEE

April 22, 1960

EXTRA COPY O. M. E RECEIVED APR 25 1960		
DATE	INITIALS	CODE
		800

Memorandum

To: L. G. Houk, Acting Field Officer, OME - Washington

From: V. J. Lynch, U. S. Bureau of Mines, Knoxville, Tenn.

Subject: Monthly Report on DMEA-4850, Idm-E1174-Zinc (March 1960) The New Jersey Zinc Company.

Enclosed are the original and two copies of the subject monthly report. Government participation $1,848.31.

V. J. Lynch

zm

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

Murphy

Budget Bureau No. 42-R1036.5

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

Idm 1438

Month of February, 1960 Docket No. DMEA 4850 Contract No. Idm E 1174
Operator's Name The New Jersey Zinc Company Minerals Zinc
Address Jefferson City, Tennessee
Contract Amount, $ 106,780.00 Government Participation: 50% Amount, $ 53,390.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling	3094.35	81,276.60	84,370.95	3,093.55	81,276.60	84,370.15
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services	245.30	6,470.86	6,716.16	245.30	6,470.86	6,716.16
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	-	85.00	85.00	-	85.00	85.00
Payroll Taxes						
Liability Insurance						
Core Boxes	28.80	871.20	900.00	28.80	871.20	900.00
(8) Contingencies (specify):						
				3367.65		92,071.31
TOTALS	3368.45	88,703.66	92,072.11	3368.45	88,703.66	92,072.11

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

Date 3/1/60 *Payee The New Jersey Zinc Company

Per [signature] Title Chief Geologist

*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:

$ 1683.83

Signature [signature]
(Authorized Certifying Officer)

Date Vou. No. 3827
(See other side)

* See suspension attached

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E-1174 in accordance with the terms of the contract.

Signature [illegible] Title GEOLOGIST, U. S. G. S. Date MAR 22 1960

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature V. J. Lynch Title ACTING EXECUTIVE OFFICER OME - REGION V Date MAR 22 1960

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of February 195 60 Docket No. DMEA 4850 Contract No. Idm E 1174

Operator's Name The New Jersey Zinc Company Minerals Zinc

Address Jefferson City, Tennessee

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 0-1000 BX	Ft.	277.55	91	4,138.85	1,351	3.05	1,000	3.05
Core 0-1000 AX	"	2816.80	1024	79,823.10	29,030	2.75	29,000	2.75
Churn 0-1000 EX	"	-	-	70.00	28	2.50		2.50
Auger 1000 + AX	"	-	-	339.00	113	3.00	5,000	3.00
Stripping 1000 + BX	"	-	-	-	-			
Trenching Assays	Ea.	-	-	85.00	85	1.00	200	1.00
Test Pits Core Boxes	"	28.80	16	900.00	500	1.80	600	1.80
Roads and Trails Sup. & Tech. Ser.	Ft.	245.30	1115	6,716.16	30,528	0.22	35,000	0.22
Total Distributed Costs		3368.45		92,072.11				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs		3368.45		92,072.11				

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 3/1/60 Operator The New Jersey Zinc Co.

Per [signature] Title Chief Geologist

Remarks:

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)

MAR 25 1960
O.M.E.

INSTRUCTIONS

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

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

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

GPO 872894

Report for February, 1960

Little War Creek Area DMEA 4850

Contract Idm E 1174 (Zinc)

During the month of February, two holes were completed on the Little War Creek project.

Hole LW-97 - (N.J.Z. Co. M & M rights)

Hole LW-97 was drilled on the James Brewer farm at a location of 200 feet southeast of LW-29. The hole collared in the Mascot formation and was drilled to a depth of 540 feet.

Coordinates: N 746,253.05; E 798,986.43
Elevation: 1630.83

Results:

0- 63	Overburden
63-195	Mascot dolomite
195	Ce MTX
195-405	Upper Kingsport dolomite
	260-261, 1' @ ½% Zn Est.
	264-265, 1' @ 15% Zn Est.
	271-277, 6' @ 1½% Zn Est.
	325-327, 2' shines
	329-332, 3' @ 1½% Zn Est.
	336-370, 34' of traces
405	TR
405-540	(Bottom) Lower Kingsport dolomite

Hole LW-98 - (N.J.Z. Co. M & M Rights)

Hole LW-98 was drilled 100 feet southeast of LW-97. The hole collared in the Mascot formation and was drilled to a depth of 575 feet.

Coordinates: N 746,172.82; E 799,052.25
Elevation: 1617.51

Results:

0-105	RC
105-253	Mascot dolomite
	186-189, 3' @ 3/4% Zn Est.
	216-219, 3' @ 1½% Zn Est.
253	Ce MTX
253-440	Upper Kingsport dolomite
	330-350, 20' @ 2% Zn Est.
	363-369, 6' @ 3% Zn Est.
	370-374, traces
	380-393, 13' @ 1½% Zn Est.
	404-410, 6' @ ½% Zn Est.
440	TR
440-575	(Bottom) Lower Kingsport dolomite

6157
46677

UNITED STATES
DEPARTMENT OF THE INTERIOR
Office of the Secretary
Accounting Unit
Washington

ADMINISTRATIVE SUSPENSION STATEMENT

Name and Address of Payee: The New Jersey Zinc Company
Jefferson City, Tennessee

Amount Claimed:	Differences (Explained Below)	Amount Approved
3,368.45	.80	3,367.65 50% Govt. Part. 1,683.83
Bu. Voucher No.	Payee's Invoice No. Contract No. Idm E 1174	Period February 1960

EXPLANATION

Claimed:		
AX drilling 1024 feet @2.75	2,816.80	(erroneous computation)
Allowed	2,816.00	
Difference	.80	

Any reclaim for items deducted must be supported by the original of this statement and submitted to the office shown above.

Suspension made by:

Opal M. Alexander
Signature

Assistant Chief, Accounting Unit
Title

Copy to: V. J. Lynch
Acting Executive Officer
Region V

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

ROOM 11 POST OFFICE BLDG.
KNOXVILLE 2, TENN.

March 22, 1960

Memorandum

To: Fiscal Section, Division of Administrative Services
Office of the Secretary
Department of the Interior, Washington 25, D.C.

From: Acting Executive Officer, OME - Region V

Subject: Operator's Monthly Report - February 1960
Docket No. DMEA-4850, Idm-E1174
Little War Creek area
Hancock County, Tennessee

Attached are the original and two copies of the subject monthly report. Amount payable to the Operator $1,684.22. If any change is made in the amount to be paid, please notify this office.

W. J. Lynch

wm.
cc
Lynch
Files

Enc:-3

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

FEB 1960 PAID ON VOUCHER & SCHEDULE OF PAYMENTS K-

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of January, 1960 Docket No. DMEA 4850 Contract No. Idm E 1174
Operator's Name The New Jersey Zinc Company Minerals Zinc
Address Jefferson City, Tennessee
Contract Amount, $ 106,780.00 Government Participation: 50 % Amount, $ 53,390.00

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	4603.55	76,673.05	81,276.60			
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services	363.22	6,107.64	6,470.86			
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	-	85.00	85.00			
Payroll Taxes						
Liability Insurance						
Core Boxes	41.40	829.80	871.20			
(8) Contingencies (specify):						
TOTALS	5008.17	83,695.49	88,703.66	5008.17	83,695.49	88,703.66

I certify that the above bill is correct and just and that payment therefor has not been received.
Date 2/1/60 *Payee The New Jersey Zinc Company
Per [signature] Title Chief Geologist

*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:
$ 2504.09
Signature Helen R. Miller
(Authorized Certifying Officer)
Date FEB 25 1960 Vou. No. 42
(See other side)

2504.08

Form MF-104A
(April 1962)

Budget Bureau No. 42-R1151.2

FEB 29 1960
O.M.E.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of January 195 60 Docket No. DMEA 4850 Contract No. Idm E 1174

Operator's Name The New Jersey Zinc Company Minerals Zinc

Address Jefferson City, Tennessee

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 0-1000 BX	Ft.	643.55	211	3,861.30	1,266	3.05	1,000	3.05
Churn 0-1000 AX	"	3960.00	1440	77,006.30	28,006	2.75	29,000	2.75
Auger 0-1000 EX	"	-	-	70.00	28	2.50		2.50
Stripping 1000 + AX	"	-	-	339.00	113	3.00	5,000	3.00
Trenching 1000 + BX	"	-	-	-	-			
Test Pits Assays	Ea.	-	-	85.00	85	1.00	200	1.00
Roads and Trails Core Bxs.	Ea.	41.40	23	871.20	484	1.80	600	1.80
Sup. & Tech. Ser.	Ft.	363.22	1651	6,470.86	29,413	0.22	35,000	0.22
Total Distributed Costs		5008.17		88,703.66				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs		~~5008.17~~		~~88,703.66~~				

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 2/1/60 Operator The New Jersey Zinc Co.

Per [signature] Title Chief Geologist

Remarks:

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)

[signature]

GEOLOGIST, U. S. G. S.

MAR 24 1960

Report for January, 1960

Little War Creek Area DMEA 4850

Contract Idm E 1174 (Zinc)

During the month of January two holes were completed on the Little War Creek project. Hole LW-95, located on the James Brewer farm, was drilled to a depth of 901 feet. The results are as follows:

Hole LW-95 - (NJZ Co. M&M Rights, J. Brewer surface)
Inclined @ -50°, bearing S 37°-23' E

Coordinates: 736,445.21 N; 798,840.62 E
Elevation:, 1651.62

Results:

0-122 - - - Overburden
122-188 - - - Mascot dolomite
188-901 - - - (Bottom) Upper Kingsport dolomite
230-337, 107' of scatt. shines & traces
337-342, 5' of 2½% Est.
357-361, 4' of 2½% Est.
361-523, 162' of ½% Est.
523-532, 9' of 1% Est.
532-545, 13' of traces of ZnS
545-549, 4' of 3% Est.
549-574, 25' - traces of ZnS
622-634, 12' - traces of ZnS
646-689, 43' - traces of ZnS

Hole LW-96, located 170 feet southeast of LW-63, was drilled on a -50° angle, N 36°-53' W to a depth of 750 feet. The results areas follows:

Hole LW-96 (NJZ Co. M&M rights - J. Brewer surface)
Inclined @ -50° bearing N 36°-53' W.

Coordinates: 745,737.55 N; 799,348.87 E
Elevation: 1592.20

Results:

0- 33 - - - Overburden
33-503 - - - Mascot dolomite
381-383, 2' @ 1% Est.
394-401, 7' @ 1/2% Est.
454-459, traces of ZnS
503 - - - Ce MTX
503-654 - - - Upper Kingsport dolomite
523-533, 10' @ ½% Est.
597-598, 1' @ 5% Est.
603-614, 11' @ ½% Est.
614-643, traces of ZnS
654 - - - TR
654-750 - - - (Bottom) Lower Kingsport dolomite

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

PAID ON VOUCHER & SCHEDULE OF PAYMENTS
JAN 25 1960
O.M.E.

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of December, 1959 Docket No. DMEA 4850 Contract No. Idm E 1174
Operator's Name The New Jersey Zinc Company Minerals Zinc
Address Jefferson City, Tennessee
Contract Amount, $ 106,780.00 Government Participation: 50 % Amount, $ 53,390.00

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	1966.55	74,706.50	76,673.05			
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services	156.86	5,950.78	6,107.64			
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	-	85.00	85.00			
Payroll Taxes						
Liability Insurance						
Core Boxes	18.00	811.80	829.80			
(8) Contingencies (specify):						
TOTALS	2141.41	81,554.08	83,695.49	2141.41	81,554.08	83,695.49

I certify that the above bill is correct and just and that payment therefor has not been received.
Date 1-1-60 *Payee The New Jersey Zinc Company
Per [signature] Title Chief Geologist

*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:
$ 1070.70
Signature [signature]
(Authorized Certifying Officer)
Date JAN 21 1960 Vou. No. 37
(See other side)

18th

1070.71

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of December 195 9 Docket No. DMEA 4850 Contract No. Idm E 1174

Operator's Name The New Jersey Zinc Company Minerals Zinc

Address Jefferson City, Tennessee

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 0-1000 BX	Ft.	61.00	20	3,217.75	1,055	3.05	1,000	3.05
Churn 0-1000 AX	"	1905.55	693	73,046.30	26,566	2.75	29,000	2.75
Auger 0-1000 EX	"	-	-	70.00	28	2.50		2.50
Stripping 1000 + AX	"	-	-	339.00	113	3.00	5,000	3.00
Trenching 1000 + EX	"	-	-					
Test Pits Assays	Ea.	-	-	85.00	85	1.00	200	1.00
Roads and Trails CoreBoxes	"	18.00	10	829.80	461	1.80	600	1.80
Sup. & Tech. Serv.	Ft.	156.86	713	6,107.64	27,621	0.22	35,000	0.22
Total Distributed Costs		2141.41		83,695.49				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs		2141.41		83,695.49				

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 1-1-60 Operator The New Jersey Zinc Co.

Per [signature] Title Chief Geologist

Remarks: This report includes LW-94

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)

JAN 25 1960 O.M.E.

[signature]
MINING ENGINEER
U. S. BUREAU OF MINES

Report for December 1959

Little War Creek Area DMEA 4850

Contract Idm E 1174 (Zinc)

During the month of December, one hole was completed on the Little War Creek project. Hole LW-94, located 90 feet southeast of LW-55, was drilled on a 51° angle, N 31-12 W. The hole was bottomed at a depth of 713 feet.

Hole LW-94 - M. C. Tunmire property

Coordinates: 745,830.72 N; 799,770.33 E
Elevation: 1597.69
Bearing: N 31° 12' W
Inclination: - 51°

Results:

0-482 - - - Mascot dolomite
482-663 - - - Upper Kingsport dolomite. Zinc mineralization occurs as follows:
509-512, traces of sphalerite
512-614, 102' @ 5% Estimated
621-627, 6' @ 1% Estimated
633 - - - TR
633-713 - - - (Bottom) Lower Kingsport formation

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEC 21 1959 O.M.E.

VOUCHER & SCHEDULE OF PAYMENTS K- 20

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of November, 1959 Docket No. DMEA 4860 Contract No. Idm E 1174
Operator's Name The New Jersey Zinc Co. Minerals Zinc
Address Jefferson City, Tennessee
Contract Amount, $ 106,780.00 Government Participation: 50 % Amount, $ 53,390.00

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	2,203.50	72,503.00	74,705.50			
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services	176.00	5,774.78	5,950.78			
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	2.00	83.00	85.00			
Payroll Taxes						
Liability Insurance						
Core Boxes	25.20	786.60	811.80			
(8) Contingencies (specify):						
TOTALS	2,406.70	79,147.38	81,554.08	2406.70	79,147.38	81,554.08

I certify that the above bill is correct and just and that payment therefor has not been received.
Date 12/1/59 *Payee The New Jersey Zinc Co.
Per [signature] Title Chief Geologist

*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:
$ 1203.35
Signature Helen R. Miller
(Authorized Certifying Officer)
Date DEC 17 1959 Vou. No. 32
(See other side)

17th)

1203.35

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E-1174 in accordance with the terms of the contract.

Signature W. J. Lynch Title MINING ENGINEER U.S. BUREAU OF MINES Date DEC 16 1959

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Robert H. Laurence Title EXECUTIVE OFFICER OME FIELD TEAM REGION V Date DEC 16 1959

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of November 1959 Docket No. DMEA 4850 Contract No. Idm E 1174
Operator's Name The New Jersey Zinc Co. Minerals Zinc
Address Jefferson City, Tenn.

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 0-1000 Bx		137.25	45	3,156.75	1,035	3.05	1,000	3.05
Churn 0-1000 AX		2,066.25	755	71,140.75	25,873	2.75	29,000	2.75
Auger 0-1000 EX		-	-	70.00	28	2.50		2.50
Stripping 1000+ AX		-	-	339.00	113	3.00	5,000	3.00
Trenching 1000+ EX		-	-					
Test Pits Assays		2.00	2	85.00	85	1.00	200	1.00
Roads and Trails Core Boxes		25.20	14	811.80	451	1.80	600	1.80
Tech. Serv.		176.00	800	5,950.78	27,049	0.22	35,000	0.22
TOTAL DISTRIBUTED COSTS		2,406.70		81,554.08				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		2,406.70		81,554.08				

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.

REMARKS: This report includes LW-93

Date 12/1/59 Operator The New Jersey Zinc Co.

Per [signature] Title Chief Geologist

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)

See errors circled above.

Sh. be. $2076.25 instead of $2066.25

[signature]

DEC 21 1959
O.M.E.

INSTRUCTIONS

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

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

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

GPO 872894

Report for November 1959

Little War Creek Area DMEA 4850

Contract Idm E 1174 (Zinc)

One drill operated on the project during the month and completed one hole for a total of 800 feet. This hole is shown in green on the accompanying map, AX-Tenn-B-1310.

Hole LW-93 - J. Barnard property

Coordinates: 744,953.12 N; 791,602.24 E
Elevation: 1582.23

Results:

0 - 95 - - -	Clay
95 -442 - - -	Mascot dolomite
442 - - -	Chert Matrix
442 -638 - - -	Upper Kingsport dolomite. Trace of sphalerite 626, 636-637
638 - - -	TR
638 -800 - - -	(Bottom) Lower Kingsport dolomite. Shines of sphalerite 677, 690-691

Also included in this report are two assays from Hole LW-92.

Footage	% Zinc
676-681	5' of 3.08% Zinc
681-687	6' of 2.03% Zinc
Weighted Average	
676-687	11' of 2.51% Zinc

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.5

PAID ON VOUCHER & SCHEDULE
NOV 30 1959
DEPARTMENT OF THE INTERIOR

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of October 9 195 Docket No. DMEA 4850 O.M.E. Idm E 1174
Operator's Name The New Jersey Zinc Company Contract No. Minerals Zinc
Address Jefferson City, Tennessee
Contract Amount, $ 106,780.00 Government Participation: 50 % Amount, $ 53,390.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:	3450.20	69,052.80	72,503.00			
Drilling						
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor						
Supervision	274.12	5,500.66	5,774.78			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment	-	83.00	83.00			
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
Core Boxes	36.00	750.60	786.60			
(8) Contingencies (specify):						
TOTALS	3760.32	75,387.06	79,147.38	3760.32	75,387.06	79,147.38

I certify that the above bill is correct and just and that payment therefor has not been received.
Date 11/1/59 *Payee The New Jersey Zinc Company
Per [signature] Title Chief Geologist

*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:
$ 1880.16
Signature Helen R. Millin
(Authorized Certifying Officer)
Date NOV 27 1959 Vou. No. 28
(See other side)

16

1880.16

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E-1174 in accordance with the terms of the contract.

Signature W. L. Lynch Title U. S. BUREAU OF MINES Date NOV 23 1959

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Robert A. Lawrence Title EXECUTIVE OFFICER OME FIELD TEAM REGION V Date NOV 23 1959

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

NOV 30 1959
O.M.E.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of October 1959 Docket No. DMEA 4850 Contract No. Idm E 1174
Operator's Name The New Jersey Zinc Company Minerals Zinc
Address Jefferson City, Tennessee

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 0-1000 BX	Ft.	240.95	79	3,019.50	990	3.05	1,000	3.05
Chu 0-1000 AX	"	3209.25	1167	69,074.50	25,118	2.75	29,000	2.75
Auge 0-1000 EX	"	-	-	70.00	28	2.50		2.50
Stripping 1000 ↓ AX	"	-	-	339.00	113	3.00	5,000	3.00
Trenching 1000 ↓ EX	"	-	-					
Test Pits Assays	Ea.	-	-	83.00	83	1.00	200	1.00
Roads and Trail Coreboxes	"	36.00	20	786.60	437	1.80	600	1.80
Tech. Serv.	Ft.	274.12	1246	5,774.78	26,249	0.22	35,000	0.22
TOTAL DISTRIBUTED COSTS		3760.32		79,147.38				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		3760.32		79,147.38				

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.

REMARKS: LW-91
LW-92

Date 11/1/59 Operator The New Jersey Zinc Co.

Per [signature] Title Chief Geologist

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)

[signature]

GEOLOGIST, U. S. G. S.

NOV 30 1959

INSTRUCTIONS

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

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

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

GPO 872894

Report for October 1959

Little War Creek Area DMEA 4850

Contract Idm E 1174 (Zinc)

One drill operated on the project during the month and completed two holes for a total of 1246 feet of drilling. These holes are shown in green on the accompanying map, AX-TENN-B-1310.

Hole LW-91 - J. Barnard property

Coordinates: 745,610.22 N; 791,982.28 E
Elevation: 1678.52'

Results:

0- 56	Clay
56-143	Mascot dolomite
143	Chert Matrix
143-323	Upper Kingsport dolomite. Trace of sphalerite 218
323	TR ?
323-458	(Bottom) Lower Kingsport dolomite

Hole LW-92 - J. Barnard property

Coordinates: 745,405.77 N; 792,531.91 E
Elevation: 1631.29

Results:

0- 62	Clay
62-397	Mascot dolomite. Traces of sphalerite 116,282,283
397	Chert Matrix
397-582	Upper Kingsport dolomite
582	TR
582-650	Lower Kingsport dolomite Trace of sphalerite 617
650-651	1' - estimated at 2% zinc
651-666	Lower Kingsport dolomite
666-671	5' - estimated at 1% zinc
671-676	Lower Kingsport dolomite
676-687	11' - estimated at 2-3/4% zinc
687-788	(Bottom) Lower Kingsport and Longview dolomite

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OCT 26 1959 O.M.E.

PAID ON VOUCHER & SCHEDULE OF PAYMENTS K-13

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of September, 1959 Docket No. DMEA 4850 Contract No. Idm E 1174
Operator's Name The New Jersey Zinc Company Minerals Zinc
Address Jefferson City, Tennessee
Contract Amount, $ 106,780.00 Government Participation: 50% Amount, $ 53,390.00

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	3789.00	65,263.80	69,052.80			
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services	300.96	5,199.70	5,500.66			
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	-	83.00	83.00			
Payroll Taxes						
Liability Insurance						
Core Boxes	43.20	707.40	750.60			
(8) Contingencies (specify):						
				4133.16	71,253.90	75,387.06
TOTALS	4133.16	71,253.90	75,387.06			

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

Date 10/1/59 *Payee The New Jersey Zinc Company

Per [signature] Title Chief Geologist

*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:

$ 2066.58

Signature Helen R. Miller
(Authorized Certifying Officer)

Date OCT 23 1959 Vou. No. 22
(See other side)

2066.58

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E-1174 in accordance with the terms of the contract.

Signature [signature] Title U. S. BUREAU OF MINES Date OCT 20 1959

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Robert A. Lawrence Title EXECUTIVE OFFICER OME FIELD TEAM REGION V Date OCT 20 1959

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

OCT 26 1959 O.M.E.

Month of Sept. 1959 Docket No. DMEA 4850 Contract No. Idm E 1174
Operator's Name The New Jersey Zinc Company Minerals Zinc
Address Jefferson City, Tennessee

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: Co 0-1000 BX	Ft.	274.50	90	2,778.55	911	3.05	1,000	3.05
Ch 0-1000 AX	"	3514.50	1278	65,865.25	23,951	2.75	29,000	2.75
Au 0-1000 EX	"	-	-	70.00	28	2.50		2.50
Stripping 1000 + AX	"	-	-	339.00	113	3.00	5,000	3.00
Trenching 1000 + EX	"	-	-	-	-	-	-	
Test Pits Assays	Ea.	-	-	83.00	83	1.00	200	1.00
Roads and Trails Core Boxes	"	43.20	24	750.60	417	1.80	600	1.80
Tech. Serv.	Ft.	300.96	1368	5,500.66	25,003	0.22	35,000	0.22
TOTAL DISTRIBUTED COSTS		4133.16		75,387.06				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		4133.16		75,387.06				

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 10/1/59 Operator The New Jersey Zinc Co.

Per [signature] Title Chief Geologist

REMARKS: This report includes
LW-89
LW-90

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)

[signature]
MINING ENGINEER
U. S. BUREAU OF MINES

INSTRUCTIONS

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

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

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

GPO 872894

Report for September 1959

Little War Creek Area DMEA 4850

Contract Idm E 1174 (Zinc)

One drill operated on the project during the month and completed two holes for a total of 1472' of drilling. These holes are shown in green on the accompanying map, AX-TENN-B-1310.

Hole LW-89 - D. Dalton property

Coordinates: 745,829.69 N; 792,746.61 E
Elevation: 1674.93

Results:

0-130	Clay
130-320	Upper Kingsport dolomite
320	TR
320-333	13' - estimated at 2% zinc
333-339	Lower Kingsport dolomite
339-354	15' - estimated at 1/2 to 1% zinc
354-440	Lower Kingsport dolomite
440-455	15' - estimated at 1/4% zinc
455-496	(Bottom) Lower Kingsport dolomite

Hole LW-90 - D. Dalton property

Coordinates: 745,462.15 N; 793,094.12 E
Elevation: 1676.46

Results:

0- 57	Clay
57-525	Mascot dolomite
525	Chert Matrix
525-684	Upper Kingsport dolomite
684	TR
684-763	Lower Kingsport dolomite. Trace of sphalerite 727'
763-765	2' - estimated at 4% Zn
765-872	(Bottom) Lower Kingsport dolomite and limestone

The accompanying section, AX-TENN-B-1466, shows the principal marker beds and the distribution of mineralization in these two holes.

Report for August 1959

Little War Creek Area Copper Ridge Belt

Contract Idm E 1174 (Zinc)

Exploration at Little War Creek was resumed on August 13th with the location of and preparation of drill site for hole LW-89. Because the water supply formerly used for drilling in this area had dried up, it was necessary to establish a water line approximately one mile long from a different source. Preparations for drilling were completed by the end of August but no footage was drilled during the month.

This hole is located on the Dudley Dalton property.

RECEIVED
SEP 8 - 1959
U. S. Geological Survey
Geologic Division
Knoxville, Tenn.

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.5

PAID ON VOUCHER & SCHEDULE OF PAYMENTS K-

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of May, 1959 Docket No. DMEA 4850 Contract No. Idm E 1174
Operator's Name The New Jersey Zinc Company Minerals Zinc
Address Jefferson City, Tennessee
Contract Amount, $ 106,780.00 Government Participation: 50 % Amount, $ 53,390.00

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	4061.20	61,202.60	65,263.80			
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services	323.84	4,875.86	5,199.70			
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	-	83.00	83.00			
Payroll Taxes						
Liability Insurance						
Core Boxes	43.20	664.20	707.40			
(8) Contingencies (specify):						
TOTALS	4428.24	66,825.66	71,253.90	4428.24	66,825.66	71,253.90

SEP 11 1959 O.M.E.

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

Date 6/1/59 *Payee The New Jersey Zinc Company

Per [signature] Title Asst. to Gen. Supt.

*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:

$ 2214.12

Signature Helen R. Miller
(Authorized Certifying Officer)

Date SEP 9 1959 Vou. No. 12

(See other side)

2214.12

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E-1174 in accordance with the terms of the contract.

Signature [signature] Title GEOLOGIST, U. S. G. S. Date JUN 10 1959

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature [signature] Title ACTING EXECUTIVE OFFICER OME - REGION V Date JUN 10 1959

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-164A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of May 1959 Docket No. DMEA 4850 Contract No. Idm E 1174
Operator's Name The New Jersey Zinc Company Minerals Zinc
Address Jefferson City, Tennessee

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 0-1000 BX		134.20	44	2,504.05	821	3.05	1,000	3.05
Drilling: Core 0-1000 AX		3927.00	1428	62,350.75	22,673	2.75	29,000	2.75
Core 0-1000 EX		-	-	70.00	28	2.50		2.50
Churn 1000 + AX		-	-	339.00	113	3.00	5,000	3.00
Auger 1000 + EX		-	-	-	-			
Stripping								
Trenching Assays		-	-	83.00	83	1.00	200	1.00
Test Pits Core Boxes		43.20	24	707.40	393	1.80	600	1.80
Roads and Trails								
Tech. Serv.		323.84	1472	5,199.70	23,635	0.22	35,000	0.22
Total Distributed Costs		4428.24		71,253.90				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs		4428.24		71,253.90				

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 6/1/59 Operator The New Jersey Zinc Co.

Per [signature] Title Asst. to Gen. Supt.

Remarks This report includes
LW-37
LW-83

→ 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)

SEP 11 1959
O.M.E.

[signature]
GEOLOGIST, U. S. G. S.

JUN 10 1959

INSTRUCTIONS

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

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

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

GPO 872894

Report for May, 1959

Little War Creek AHes DMBA 4850

Contract Idm E 1174 (Zinc)

One drill operated on this project during the month and completed two holes for a total of 1472' of drilling. These holes are shown in green on the accompanying map, AX-TENN-B-103.

Hole LW-87 - Lewis Tunmire property

Coordinates: 745,528.69 N; 794,757.64 E
Elevation: 1572.52

Results:

0- 40 - - Clay
40-595 - - Mascot dolomite
595-763 - - Upper Kingsport dolomite
763 - - TR
763-897 - - Lower Kingsport dolomite
897-932 - - (Bottom) Longview dolomite

Hole LW-88 - W. M. Brewer property

Coordinates: 746,184.47 N; 795,554.56 E
Elevation: 1732.35

Results:

0-116 - - Clay
116-181 - - Mascot dolomite
181-371 - - Upper Kingsport dolomite
371 - - TR ?
371-540 - - (Bottom) Lower Kingsport dolomite

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

Budget Bureau No. 42-R1036.5

PAID ON VOUCHER & SCHEDULE
OF PAYMENTS K- 63

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of April, 1959 Docket No. DMEA 4850 Contract No. Idm E 1174
Operator's Name The New Jersey Zinc Company Minerals Zinc
Address Jefferson City, Tennessee
Contract Amount, $106,780.00 Government Participation 50 % Amount, $53,390.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling	5580.30	55,702.30	61,203.60			
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services	438.68	4,437.18	4,875.86			
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	4.00	79.00	83.00			
Payroll Taxes						
Liability Insurance						
Core Boxes	59.40	604.80	664.20			
(8) Contingencies (specify):						
TOTALS	6002.38	60,823.28	66,825.66	6002.38	60,823.28	66,825.66

MAY 21 1959 O.M.E.

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

Date 5/1/59 *Payee The New Jersey Zinc Company

Per [signature] Title Asst. to Gen. Supt.

*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:

$ 3001.19

Signature Helen R. Miller
(Authorized Certifying Officer)

Date MAY 19 1959 Vou. No. 112

(See other side)

3001.19

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E-1174 in accordance with the terms of the contract.

Signature [illegible] Title GEOLOGIST, U. S. G. S. Date MAY 14 1959

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature [illegible] Title ACTING EXECUTIVE OFFICER OME REGION V Date MAY 14 1959

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

MAY 21 1959 O.M.E.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of April 1959 Docket No. DMEA 4850 Contract No. Idm E 1174
Operator's Name The New Jersey Zinc Company Minerals Zinc
Address Jefferson City, Tennessee

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 0-1000 BX	Ft.	170.80	56	2,369.85	777	3.05	1,000	3.05
Drilling: Core 0-1000 AX	"	5329.50	1938	58,423.75	21,245	2.75	29,000	2.75
Drilling: Churn 0-1000 EX	"	-	-	70.00	28	2.50		2.50
Drilling: Auger 1000 ↓ AX	"	-	-	339.00	113	3.00	5,000	3.00
Stripping 1000 ↓ BX	"	-	-	-	-			2.75
Trenching Assays	Ea.	4.00	4	83.00	83	1.00	200	1.00
Test Pits Core Boxes	"	59.40	33	664.20	369	1.80	600	1.80
Roads and Trails								
Tech. Serv.	Ft.	438.68	1994	4,875.86	22,163	0.22	35,000	0.22
Total Distributed Costs		6002.38		66,825.66				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs		6002.38		66,825.66				

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 5/1/59 Operator The New Jersey Zinc Co.

Per [signature] Title Asst. to Gen. Supt.

Remarks: This report covers holes LW-84
LW-85
LW-86

→ 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)

[signature]
GEOLOGIST, U. S. G. S.

INSTRUCTIONS

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

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

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

GPO 872894

Report for April 1959

Little War Creek Area DMEA 4850

Contract Idm E 1174 (Zinc)

One drill operated on this project during the month and completed three holes for a total of 1994' of drilling. These holes are shown in green on the accompanying map, AX-TENN-B-103.

Hole LW-84 - Lewis Tunmire property

Coordinates: 745,821.33 N; 794,548.46 E
Elevation: 1577.10

Results:

0- 84	- - Clay
84-352	- - Mascot dolomite. Scattered traces of sphalerite 234-240, 262-266
352	- - Chert Matrix
352-558	- - Upper Kingsport dolomite
558-724	- - (Bottom) Lower Kingsport dolomite

Hole LW-85 - Lewis Tunmire property

Coordinates: 745,946.14 N; 794,348.99 E
Elevation: 1594.19'

Results:

0- 90	- - Clay
90-265	- - Mascot dolomite
265	- - Chert Matrix
265-438	- - Upper Kingsport dolomite
438	- - TR
438-515	- - Lower Kingsport dolomite Trace of sphalerite 486, 506
515-523	- - 8' - 4.19% zinc
523-541	- - Lower Kingsport dolomite. Weak traces of sphalerite 523-533
541-551	- - 10' - 2.34% zinc
551-610	- - (Bottom) Lower Kingsport dolomite. Traces of sphalerite 551-557

Hole LW-86 - Lewis Tunmire property

Coordinates: 745,834.51 N; 794,348.93 E
Elevation: 1574.58

Results:

0- 51	- -	Clay
51-364	- -	Mascot dolomite. Shine of sphalerite in chert 240
364	- -	Chert Matrix ?
364-500	- -	Upper Kingsport dolomite
500	- -	TR
500-651	- -	Lower Kingsport dolomite. Scattered traces of sphalerite 581-620
651-660	- -	(Bottom) Longview dolomite

Note: Listed below is a tabulation of samples assayed in LW-85:

515-519 - 4' - 1.30% zinc

519-523 - 5' - 7.08% zinc

541-546 - 5' - 3.23% zinc

546-551 - 5' - 1.45% zinc

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

APR 22 1959 O.M.E.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.5

PAID ON VOUCHER & SCHEDULE OF PAYMENTS K- 883

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of March, 1959 Docket No. DMEA 4850 Contract No. Idm E 1174

Operator's Name The New Jersey Zinc Company Minerals Zinc

Address Jefferson City, Tennessee

Contract Amount, $ 106,780.00 Government Participation: 50 % Amount, $ 53,390.00

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	5816.95	49,885.35	55,702.30			
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services	464.42	3,972.76	4,437.18			
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	-	79.00	79.00			
Payroll Taxes						
Liability Insurance						
Core Boxes	64.80	540.00	604.80			
(8) Contingencies (specify):						
TOTALS	6346.17	54,477.11	60,823.28	6346.17	54,477.11	60,823.28

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

Date 4/1/59 *Payee The New Jersey Zinc Company

Per [signature] Title Asst. to Gen. Supt.

*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:

$ 3173.09

Signature Helen R. Mellin (Authorized Certifying Officer)

Date APR 20 1959 Vou. No. 103

(See other side)

12

3173.08

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E-1174 in accordance with the terms of the contract.

Signature [illegible] Title GEOLOGIST, U. S. G. S. Date APR 16 1959

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE: ACTING EXECUTIVE OFFICER

Signature [illegible] Title OME - REGION V Date APR 16 1959

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of March 195 9 Docket No. DMEA 4850 Contract No. Idm E 1174

Operator's Name The New Jersey Zinc Company Minerals Zinc

Address Jefferson City, Tennessee

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 0-1000 BX	Ft.	118.95	39	2,199.05	721	3.05	1,000	3.05
Core 0-1000 AX	"	5698.00	2072	53,094.25	19,307	2.75	29,000	2.75
Churn 0-1000 EX	"	-	-	70.00	28	2.50		2.50
Auger 1000 + AX	"	-	-	339.00	113	3.00	5,000	3.00
Stripping 1000 + EX	"	-	-	-		-	-	2.75
Trenching Assays	Ea.	-	-	79.00	79	1.00	200	1.00
Test Pits Core Boxes	"	64.80	36	604.80	336	1.80	600	1.80
Roads and Trails Tech. Serv.	Ft.	464.42	2111	4,437.18	20,169	0.22	35,000	0.22
Total Distributed Costs		6346.17		60,823.28				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs		6346.17		60,823.28				

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 4/1/59 Operator The New Jersey Zinc Co.

Per [signature] Title Asst. to Gen. Supt.

Remarks: This report covers holes LW-81, LW-82, LW-83

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)

[signature]
GEOLOGIST, U. S. G. S.

INSTRUCTIONS

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

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

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

GPO 872894

Report for March 1959

Little War Creek Area DMEA 4850

Contract Idm-1174 (Zinc)

One drill operated on this project during the month and completed three holes for a total of 2111' of drilling. These holes are shown in green on the accompanying map, AX-TENN-B-103. Also included are strike and rake sections showing these holes.

Hole LW-81 - Lewis Tunmire property

Coordinates: 745,824.61 N; 794,648.79 E
Elevation: 1587.22

Results:

0-100	Clay
100-362	Mascot dolomite. Shine of sphalerite at 264
362	Chert Matrix
362-546	Upper Kingsport dolomite
546	TR ?
546-715	Lower Kingsport dolomite and limestone
715-740	(Bottom) Longview dolomite

Hole LW-82 - W. M. Brewer property

Coordinates: 745,834.77 N; 794,852.00 E
Elevation: 1592.63

Results:

0- 94	Clay
94-358	Mascot dolomite
358	Chert Matrix
358-547	Upper Kingsport. Trace of sphalerite 500'
547	TR ?
547-590	Lower Kingsport dolomite
590-595	5' - estimated at 2% zinc
595-705	Lower Kingsport dolomite Traces of sphalerite 608-662
705-731	(Bottom) Longview dolomite

Hole LW-83 - W. M. Brewer property

Coordinates: 745,934.81 N; 794,950.60
Elevation: 1616.62'

Results:

0- 19	- -	Clay
19-257	- -	Mascot dolomite
257	- -	Chert Matrix
257-476	- -	Upper Kingsport dolomite
476	- -	TR
476-477	- -	Lower Kingsport dolomite
477-480	- -	3' - estimated at 3% zinc
480-640	- -	(Bottom) Lower Kingsport dolomite. Scattered traces and shines of sphalerite 485-494.

F-104 (Rev.)
April 1952)

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

PAID ON VOUCHER & SCHEDULE OF PAYMENTS K- 53

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of February, 1959 Docket No. DMEA 4850 Contract No. Idm E 1174

Operator's Name The New Jersey Zinc Company Minerals Zinc

Address Jefferson City, Tennessee

Contract Amount, $106,780.00 Government Participation: 50 % Amount, $ 53,390.00

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	2831.90	47,053.45	49,885.35			
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services	225.28	3,747.48	3,972.76			
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	-	79.00	79.00			
Payroll Taxes						
Liability Insurance						
Core Boxes	30.60	509.40	540.00			
(8) Contingencies (specify):						
TOTALS	3087.78	51,389.33	54,477.11	3087.78	51,389.33	54,477.11

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

Date 3/1/59 *Payee The New Jersey Zinc Company

Per [signature] Title Asst. to Gen. Supt.

*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:

$ 1543.89

Signature Helen R. Miller
(Authorized Certifying Officer)

Date MAR 20 1959 Vou. No. 98
(See other side)

1543.89

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E-1174 in accordance with the terms of the contract.

Signature W. J. Lynch Title U. S. BUREAU OF MINES Date MAR 19 1959

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Robert F. Lawrence Title EXECUTIVE OFFICER OME FIELD TEAM REGION V Date MAR 19 1959

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.

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of February 1959 Docket No. DMEA 4850 Contract No. Idm E 1174

Operator's Name The New Jersey Zinc Company Minerals Zinc

Address Jefferson City, Tennessee

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 -1000 BX	Ft	161.65	53	2,080.10	682	3.05	1,000	3.05
Drilling: Core -1000 AX	"	2670.25	971	47,396.25	17235	2.75	29,000	2.75
Churn -1000 EX	"		-	70.00	28	2.50		2.50
Auger 1000 +AX	"		-	339.00	113	3.00	5,000	3.00
1000 +EX	"		-	-	-	-		2.75
Stripping								
Trenching Assays	Ea		-	79.00	79	1.00	200	1.00
Test Pits Core Boxes	"	30.60	17	540.00	300		600	1.80
Roads and Trails								
Sup. & Tech. Serv.	Ft.	225.28	1024	3,972.76	18058	0.22	35,000	0.22
Total Distributed Costs		3087.78		54,477.11				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs		3087.78		54,477.11				

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.

Remarks: This report includes Holes LW-79 & LW-80.

Date 3/1/59 Operator The New Jersey Zinc Co.

Per [signature] Title Asst. to Gen. Supt.

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)

[signature]
MINING ENGINEER
U. S. BUREAU OF MINES

INSTRUCTIONS

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

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

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

GPO 872894

Report for February 1959

Little War Creek Area DMEA 4850

Contract Idm 1174 (Zinc)

One drill operated on this project during the month and completed two holes for a total of 1024' of drilling. The accompanying map, AX-Tenn-B-103 shows these holes in green.

Hole LW-79 - D. Dalton property

Coordinates: 746,002.03 N; 793,614.92 E
Elevation: 1635.20

Results:

0 - 131	Clay and boulders
131 - 179	Mascot dolomite. Trace of sphalerite 175
179	Chert Matrix
179 - 347	Upper Kingsport dolomite
347	TR
347 - 500	(Bottom) Lower Kingsport dolomite and limestone. Scattered traces and shines of sphalerite 366 - 458 93% dolomite in R & S Beds

Hole LW-80 - W. M. Brewer property

Coordinates: 746,147.63N; 795,163.91 E
Elevation: 1671.17

Results:

0 - 131	Clay and boulders
131 - 201	Mascot dolomite
201	Chert Matrix
201 - 358	Upper Kingsport dolomite. Scattered traces and shines of sphalerite 320 - 356
358	TR
358 - 507	Lower Kingsport dolomite. Scattered traces of sphalerite 356, 387, 458-465
507 - 524	(Bottom) Longview dolomite 100% dolomite in R & S Beds

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

FEB 18 1959
PAID ON VOUCHER & SCHEDULE OF PAYMENTS K-47
D.M.E.

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of January 9 1959 Docket No. DMEA 4850 Contract No. Dm E 1174

Operator's Name The New Jersey Zinc Company Minerals Zinc

Address Jefferson City, Tennessee

Contract Amount, $ 106,780.00 Government Participation: 50 % Amount, $ 53,390.00

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:	4854.85	42,199.40	47,053.45			
Drilling						
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor						
Supervision	385.66	3,361.82	3,747.48			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment	-	79.00	79.00			
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
Core Boxes	52.20	457.20	509.40			
(8) Contingencies (specify):						
TOTALS	5291.91	46,097.42	51,389.33	5291.91	46,097.42	51 389.33

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

Date 2/1/59 *Payee The New Jersey Zinc Company

Per [signature] Title Asst. to Gen. Supt.

*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:

$ 2645.95

Signature [signature]
(Authorized Certifying Officer)

Date FEB 16 1959 Vou. No. 88

(See other side)

2645.96

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E-1174 in accordance with the terms of the contract.

Signature [illegible] Title GEOLOGIST, U.S.G.S. MINING ENGINEER U. S. BUREAU OF MINES Date FEB 13 1959

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature V. J. Lynch Title ACTING EXECUTIVE OFFICER OME FIELD TEAM REGION V Date FEB 13 1959

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

FEB 18 1959
O.M.E.

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

Month of January 195 9 Docket No. DMEA 4850 Contract No. Idm E 1174
Operator's Name The New Jersey Zinc Company Minerals Zinc
Address Jefferson City, Tennessee

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 -1000 BX	Ft.	338.55	111	1,918.45	629	3.05	1,000	3.05
Drilling: Core -1000 AX	"	4515.50	1642	44,726.00	16,264	2.75	29,000	2.75
Churn -1000 EX	"	-	-	70.00	28	2.50		2.50
Auger 1000+AX	"	-	-	339.00	113	3.00	5,000	3.00
1000+EX	"	-	-	-	-			2.75
Stripping Assays	Ea.	-	-	79.00	79	1.00	200	1.00
Trenching Coreboxes	"	52.20	29	509.40	283		600	1.80
Test Pits								
Roads and Trails								
Sup.& Tech.Serv.	Ft.	385.66	1753	3,747.48	17,034	0.22	35,000	0.22
Total Distributed Costs		5291.91		51,389.33				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs		5291.91		51,389.33				

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 2/1/59 Operator The New Jersey Zinc Co.

Per [signature] Title Asst. to Gen. Supt.

Remarks: This report includes LW-76, LW-77, LW-78

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)

[signature]
MINING ENGINEER
U. S. BUREAU OF MINES

INSTRUCTIONS

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

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

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

GPO 872894

Report for January 1959

Little War Creek Area DMEA 4850

Contract Idm E 1174 (Zinc)

One drill operated on this project during the month and completed three holes for a total of 1753 feet. The accompanying map, AX-TENN B 103 shows these holes in green.

Hole LW-76 - Lewis Tunmire property

Coordinates: 745,734.30 E; 794,742.82 E
Elevation: 1582.88'

Results:

0-100	Clay
100-466	Mascot dolomite. Shine of sphalerite and pyrite 367
466	Chert Matrix
466-596	Upper Kingsport dolomite Scattered shines and traces of sphalerite 553-590
596-612	16' - estimated at 1-2% zinc
612-657	Upper Kingsport dolomite
657	TR
657-800	Lower Kingsport dolomite. Shines of sphalerite 764-768
800-805	(Bottom) Longview dolomite R and S beds 100% dolomite

Hole LW-77 - Lewis Tunmire property

Coordinates: 746,099.42 N; 794,350.87 E
Elevation: 1615.94'

Results:

0- 83	Clay
83-160	Mascot dolomite
160	Chert Matrix ?
160-286	Upper Kingsport dolomite
286	TR
286-400	Lower Kingsport dolomite
400-420	20' - estimated at 1/2% zinc
420-430	Lower Kingsport dolomite
430-446	(Bottom) Longview dolomite R and S beds 100% dolomite

Hole LW-78 - Lewis Tunmire property

Approx. Coord: 746,057 N; 793,961 E
Approx. Elev: 1635'

Results:

0- 92	- - Clay
92-341	- - Mascot and Upper Kingsport dolomite Shine of sphalerite 309'
341	- - TR
341-498	- - Lower Kingsport dolomite. Scattered shines and traces 355-437
498-502	- - (Bottom) Longview dolomite R and S beds 100% dolomite

Form MF-114 (Rev. 3-April 1952)

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

PAID ON VOUCHER & SCHEDULE OF PAYMENTS K- 39

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of December, 1958 Docket No. DMEA 4850 Contract No. Idm E 1174

Operator's Name The New Jersey Zinc Company Minerals Zinc

Address Jefferson City, Tennessee

Contract Amount, $106,780.00 Government Participation: 50 % Amount, $ 53,390.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling	3159.15	39,040.25	42,199.40			
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	251.46	3,110.36	3,361.82			
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	9.00	70.00	79.00			
Payroll Taxes						
Liability Insurance						
Core Boxes	34.20	423.00	457.20			
(8) Contingencies (specify):						
TOTALS	3453.81	42,643.61	46,097.42	$3,453.81	$42,643.61	$46,097.42

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

Date Jan. 1, 1959 Payee The New Jersey Zinc Company

Per [signature] Title Asst. to Gen. Supt.

*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)

1,726.90

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

$1,726.91

Signature [signature] (Authorized Certifying Officer)

Date JAN 19 1959 Vou. No. 78

(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. 14m-E-1174 in accordance with the terms of the contract.

Signature W. G. Beck Title MINING ENGINEER U. S. BUREAU OF MINES Date JAN 16 1959

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Robert A. Lemmer Title EXECUTIVE OFFICER DMEA FIELD TEAM REGION V Date JAN 16 1959

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of December 195 8 Docket No. DMEA 4850 Contract No. Idm E 1174

Operator's Name The New Jersey Zinc Company Minerals Zinc

Address Jefferson City, Tennessee

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 EX		-	-	70.00	28	2.50		
Winzes 0-1000 BX	Ft.	161.65	53	1,579.90	518	3.05		
Drilling: Core 0-1000 AX	"	2997.50	1090	40,210.50	14,622	2.75		
Churn -1000 BX	"							
Auger 1000 ↓ AX	"		-	339.00	113	3.00		
Stripping Assays	Ea.	9.00	9	79.00	79	1.00		
Trenching Core Boxes	"	34.20	19	457.20	254	1.80		
Test Pits								
Roads and Trails								
Sup. & Tech. Serv.	Ft.	251.46	1143	3,361.82		0.22		
Total Distributed Costs		3453.81		46,097.42				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs		3453.81		46,097.42				

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 Jan.1,1959 Operator The New Jersey Zinc Co.

Per [signature] Title Asst. to Gen. Supt.

Remarks: This report includes holes LW-74 LW-75

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)

[signature]

MINING ENGINEER
U. S. BUREAU OF MINES

JAN 16 1959

INSTRUCTIONS

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

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

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

GPO 872894

Report for December 1958

Little War Creek Area DMEA 4850

Contract Idm E 1174 (Zinc)

One drill operated on this project during the month and completed two holes for a total of 1143 feet. The accompanying map, AX-TENN-B-1310 shows these holes in green. Sections AX-TENN C 1387, B-1407 and B-1415 show all holes drilled on the project during the last quarter.

Hole LW-74 - Lewis Tunmire property

Coordinates: 746,032.50 N; 794,746.21 E
Elevation: 1605.75

Results:

0- 99 - - Clay
99-215 - - Mascot dolomite
215 - - Chert matrix marker
215-371 - - Upper Kingsport dolomite
371 - - TR marker
371-474 - - Lower Kingsport dolomite
474-492 - - 18' ore averaging 9.55% zinc
474-478 - 4' @ 4.60% zinc
478-483 - 5' @ 7.22% zinc
483-487 - 4' @ 11.18% zinc
487-492 - 5' @ 14.52% zinc
492-519 - - Lower Kingsport dolomite
Scattered traces sphalerite 492-504
519-540 - - (Bottom) Longview dolomite
100% dolomite in the R & S beds

Hole LW-75 - Lewis Tunmire property

Coordinates: 745,932.52 N; 794,748.84 E
Elevation: 1599.51

Results:

0-110 - - Clay
110-304 --- Mascot dolomite. Shine sphalerite @ 164
304 - - Chert matrix marker
304-363 - - Upper Kingsport dolomite
363-385 - - 22' mineralization estimated @ 1% zinc
385-448 - - Upper Kingsport dolomite. Trace sphalerite @ 447'
448 - - TR marker
448-513 - - Lower Kingsport dolomite
Traces & shines sphalerite @ 502-506,510
513-529 - - 16' ore averaging 5.96% zinc
513-517 - 4' @ 3.76% zinc
517-520 - 3' @ 0.10% zinc
520-525 - 5' @ 15.10% zinc
525-529 - 4' @ 1.13% zinc

529-560 - - Lower Kingsport dolomite. Traces sphalerite 542,544,549, Shine sphalerite 553

560-562 - - 2' mineralization averaging 2.16% zinc

562-603 - - (Bottom) Lower Kingsport dolomite 100% dolomite in R & S beds

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED DEC 22 1958

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of November 195 8 Docket No. DMEA 4850 Contract No. D.M.E. Idm E 1174

Operator's Name The New Jersey Zinc Company Minerals Zinc

Address Jefferson City, Tennessee

Contract Amount, $ 106,780.00 Government Participation: 50 % Amount, $ 53,390.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling	2,884.40	36,160.05	39,044.45	2880.20		
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	229.68	2,880.68	3,110.36			
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	5.00	65.00	70.00			
Payroll Taxes						
Liability Insurance						
Core Boxes	30.60	392.40	423.00			
(8) Contingencies (specify):						
				3,145.48		42,643.61 ann
TOTALS	3,149.68	39,498.13	42,647.81	3149.68	39498.13	42647.81

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

Date 12/1/58 *Payee The New Jersey Zinc Company

Per [signature] Title Asst. to Gen. Supt.

*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:

$ 1572.74 ~~1574.84~~

Signature Helen R. Moeller
(Authorized Certifying Officer)

Date DEC 17 1958 Vou. No. 71

(See other side)

1574.84

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E-1174 in accordance with the terms of the contract.

Signature [signature] Title MINING ENGINEER U. S. BUREAU OF MINES Date DEC 17 1958

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature [signature] Title ACTING EXECUTIVE OFFICER DME - REGION V Date DEC 17 1958

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

RECEIVED
DEC 22 1958
O.M.E.

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

Month of November 195 8 Docket No. DMEA 4850 Contract No. Ism E 1174
Operator's Name The New Jersey Zinc Company Minerals Zinc
Address Jefferson City, Tennessee

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 EX		74.20	28	74.20	28	2.65		
Drilling: Core 0-1000 BX	Ft.	164.70	54	1,418.25	465	3.05		
Churn 0-1000 AX	"	2,645.50	962	37,213.00	13,532	2.75		
Auger 1000 BX	"							
Stripping 1000 + AX	"	-	-	339.00	113	3.00		
Trenching Assays	Ea.	5.00	5	70.00	70	1.00		
Test Pits Core Boxes	"	30.60	17	423.00	235	1.80		
Roads and Trails								
Tech. Serv.	Ft.	229.68	1044	3,110.36		0.22		
Total Distributed Costs		3,149.68		42,647.81				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs		3,149.68		42,647.81				

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 12/1/58 Operator The New Jersey Zinc Co.

Per [signature] Title Asst. to Gen. Supt.

Remarks: This report includes holes LW-71
LW-72
LW-73

→ 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)

[signature]
MINING ENGINEER
U. S. BUREAU OF MINES

INSTRUCTIONS

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

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

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

GPO 872894

Report for November, 1958

Little War Creek Area DMEA 4850

Contract Idm E 1174 (Zinc)

One drill operated on this project during the month and completed three holes for a total of 1044'. The accompanying map, AX-TENN-B-~~1310~~ 103, shows these holes in green.

Hole LW-71 - Lewis Tunmire property

Coordinates: 746,232.71 N; 794,750.50 E
Elevation: 1612.67

Results:

0- 120	- -	Clay
120- 184	- -	Upper Kingsport dolomite
184	- -	TR
184- 284	- -	Lower Kingsport dolomite
284- 310	- -	26' - estimated at 1% zinc
310- 354	- -	(Bottom) Lower Kingsport dolomite 100% dolomite in R and S beds

Hole LW-72 - Lewis Tunmire property

Coordinates: 746,237.03 N; 794,653.16 E
Elevation: 1609.02

Results:

0-106	- -	Clay
106-155	- -	Upper Kingsport dolomite
155	- -	TR
155-271	- -	Lower Kingsport dolomite
271-274	- -	3' - 1.10% zinc
274-279	- -	5' - 1.00% zinc
279-283	- -	4' - 0.78% zinc
271-283	- -	12' - 0.95% zinc
283-286	- -	Lower Kingsport dolomite
286-292	- -	Longview dolomite
292-296	- -	4' - 1.65% zinc
296-300	- -	4' - 0.50% zinc
292-300	- -	8' - 1.07% zinc
300-340	- -	(Bottom) Longview dolomite 100% dolomite in R & S beds

Hole LW-73 - W. M. Brewer property

Coordinates: 746,236.15 N; 794,848.40 E
Elevation: 1625.81

Results

0-110	- - Clay
110-183	- - Uppwr Kingsport dolomite
183	- - TR ?
183-273	- - Lower Kingsport dolomite
273-280	- - Estimated 1/2% zinc (2' core recovered)
280-318	- - Lower Kingsport dolomite
318-350	- - (Bottom) Longview dolomite 100% dolomite in R & S beds.

General Comment:

The ore horizon in each of the three holes reported above was characterized by considerable leached and weathered ground and an unusual thickness of overburden was found in these holes. Some impoverishment of zinc by leaching has taken place, but the extent of this process here cannot be determined. It is possible that before leaching, some of the ground penetrated by these holes may have been of ore grade. This can best be determined by following this zone down dip into the unweathered zone.

EXTRA COPY
O. M. E.
RECEIVED DEC 22 1958
DATE INITIALS CODE

December 17, 1958

The New Jersey Zinc Company

Jefferson City, Tennessee

Attention: Mr. A. G. Hoagland

Gentlemen:

An adjustment has been made on your November voucher covering Contract 16m-F1174, Docket No. DMEA-4850 as follows:

EX Size Drilling 28 feet changed from $74.20 to $70.00

The November voucher claims EX size drilling at $2.65/ft., overburden drilling and diamond drilling to 1,000-foot depth. However, the contract calls for EX size at $2.50/ft.

Please correct your records as follows:

	Monthly Totals	Totals Previously Reported	Totals to Date
Drilling	$ 2,880.20	$ 36,160.05	$ 39,040.25
Tech. Services Supervision	229.68	2,880.68	3,110.36
Samples, Etc.	5.00	65.00	70.00
Core Boxes	30.60	392.40	423.00
Totals	$ 3,145.48	$ 39,498.13	$ 42,643.61

Your voucher is being processed today for payment in the amount of $1,572.74, which is 50% of the $3,145.48 Monthly Total.

Sincerely yours,

Helen R. Miller
Administrative Assistant

/hbm
Copies to R. A. Laurence
V. J. Lynch
J. L. Chambers
Morris files
Day files

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

PAID ON VOUCHER & SCHEDULE OF PAYMENTS K- 30

RECEIVED NOV 26 1958 O.M.E.

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of October 1958 Docket No. DMEA 4850 Contract No. Idm E 1174
Operator's Name The New Jersey Zinc Company Minerals Zinc
Address Jefferson City, Tennessee
Contract Amount, $106,780.00 Government Participation: 50 % Amount, $53,390.00

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	3856.50	32,303.55	36,160.05			
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor						
Supervision	306.46	2,574.22	2,880.68			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	4.00	61.00	65.00			
Payroll Taxes						
Liability Insurance						
Core Boxes	41.40	351.00	392.40			
(8) Contingencies (specify):						
TOTALS	4208.36	35,289.77	39,498.13	4,208.36	35,289.77	39,498.13

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

Date 11/1/58 *Payee The New Jersey Zinc Company

Per [signature] Title Asst. to Gen. Supt.

*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)

2104.18

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

$2,104.18

Signature Helen R. Miller
(Authorized Certifying Officer)

Date NOV 24 1958 Vou. No. 59
(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. Idm E1174 in accordance with the terms of the contract.

Signature W. W. Beck Title MINING ENGINEER U. S. BUREAU OF MINES Date NOV 21 1958

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Robert A. Lemen Title EXECUTIVE OFFICER OME FIELD TEAM REGION V Date NOV 21 1958

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

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

RECEIVED NOV 26 1958 D.M.E.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of October 1958 Docket No. DMEA 4850 Contract No. Idm E 1174

Operator's Name The New Jersey Zinc Company Minerals Zinc

Address Jefferson City, Tennessee

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 0-1000 BX	Ft.	61.00	20	1,253.55	411	3.05	1,000	3.05
Churn 0-1000 AX	"	3,558.50	1298	34,567.50	12,570	2.75	29,000	2.75
Auger 0-1000 EX	"	-	-	-	-			2.50
Stripping 1000 + AX	"	237.00	79	339.00	113	3.00	5,000	3.00
Trenching Assays	Ea.	4.00	4	65.00	65	1.00	200	1.00
Test Pits Core Boxes	"	41.40	23	392.40	218	1.80	600	1.80
Roads and Trails								
Tech. Serv.	Ft.	306.46	1393	2,880.68	15094	0.22	35,000	0.22
TOTAL DISTRIBUTED COSTS		4,208.36		39,498.13				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		4,208.36		39,498.13				

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.

REMARKS: This report covers LW-69 LW-70

Date 11/1/58 Operator The New Jersey Zinc Co.

Per [signature] Title Asst. to Gen. Supt.

→ 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)

[signature]
GEOLOGIST, U. S. G. S.
NOV 21 1958

INSTRUCTIONS

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

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

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

GPO 83-38475

Report for October 1958

Little War Creek Area DMEA 4850

Contract Idm E 1174 (Zinc)

One drill operated on this project during the month and completed two holes for a total of 1393'. The accompanying map, AX-TENN-B-1310 shows these holes in green.

Hole LW-69 - James Brewer property

Coordinates: 745,644.88 N; 798,948.63 E
Elevation: 1605.64

Results:

0- 42	Clay
42- 732	Mascot dolomite
732	Chert Matrix
732- 951	Upper Kingsport dolomite
951	TR
951-1079	(Bottom) Silicified lower Kingsport dolomite 100% dolomite and silica in R & S beds

Hole LW-70 - Lewis Tunmire property

Coordinates: 746,333.29 N; 794,752.17 E
Elevations: 1616.32

Results:

0-108	Clay
108-188	Lower Kingsport dolomite
188-191	3' - 1.02% zinc
191-196	4' - 3.49% zinc
196-201	5' - 3.35% zinc
201-207	5' - 3.61% zinc
188-207	19' - 3.10% zinc
207-294	Lower Kingsport dolomite
294-314	(Bottom) Longview dolomite 100% dolomite in R & S beds

Form NF-104 (Rev. April 1952)

RECEIVED OCT 17 1958 O.M.E.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.5

PAID ON VOUCHER & SCHEDULE OF PAYMENTS K- 23

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of September, 1958 Docket No. DMEA 4850 Contract No. Idm E 1174
Operator's Name The New Jersey Zinc Company Minerals Zinc
Address Jefferson City, Tennessee
Contract Amount, $ 106,780.00 Government Participation: 50% Amount, $ 53,390.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling	4967.70	27,335.85	32,303.55			
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor						
Supervision	395.56	2,178.66	2,574.22			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	-	61.00	61.00			
Payroll Taxes						
Liability Insurance						
Core Boxes	54.00	297.00	351.00			
(8) Contingencies (specify):						
TOTALS	5417.26	29,872.51	35,289.77	5417.26	29,872.51	35,289.77

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

Date 10/1/58 *Payee The New Jersey Zinc Company

Per [signature] Title Asst. to Gen. Supt.

*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:

$ 2708.63

Signature [signature]
(Authorized Certifying Officer)

Date OCT 17 1958 Vou. No. 49

(See other side)

2708.63

(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. Idm-E 1178 in accordance with the terms of the contract.

Signature Laurence E. Shirley Title MINING ENGINEER U. S. BUREAU OF MINES Date OCT 16 1958

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Robert A. Lawrence Title EXECUTIVE OFFICER OME FIELD TEAM REGION V Date OCT 16 1958

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of September 1953 Docket No. DMEA 4050 Contract No. Idm E 1174

Operator's Name The New Jersey Zinc Company Minerals Zinc

Address Jefferson City, Tennessee

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 0-1000 BX	Ft.	164.70	54	1,192.55	391	3.05	1,000	3.05
Churn 0-1000 AX	"	4719.00	1716	31,009.00	11,276	2.75	29,000	2.75
Auger 0-1000 EX	"							2.50
Stripping 1000 ↓ AX	"	84.00	28	102.00	34	3.00	5,000	3.00
Trenching Assays	Ea.	-	-	61.00	61	1.00	200	1.00
Test Pits Core Boxes	"	54.00	30	351.00	195	1.80	600	1.80
Roads and Trails								
Tech. Serv.	Ft.	395.56	1793	2,574.22	11,701	0.22	35,000	0.22
TOTAL DISTRIBUTED COSTS		5417.26		35,289.77				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		5417.26		35,289.77				

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.

REMARKS: This report covers LW-67 LW-68

Date 10/1/53 Operator The New Jersey Zinc Co.

Per [signature] Title Asst. to Gen. Supt.

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)

[signature]
MINING ENGINEER
U. S. BUREAU OF MINES

INSTRUCTIONS

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

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

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

GPO 872894

Report for September 1958

Little War Creek Area DMEA 4850

Contract Idm E 1174 (Zinc)

One drill operated on this project during the month and completed two holes for a total of 1798. The accompanying map, AX-TENN-1309 shows these holes in green.

Hole LW-67 - M. C. Tunmire property

Coordinates: 745,681.70 N; 800,238.75 E
Elevation: 1509.50

Results:

0- 10	- - Clay
10- 696	- - Mascot dolomite
696	- - Chert Matrix
696- 850	- - Upper Kingsport dolomite Trace sphalerite 807
850	- - TR
850-1006	- - Lower Kingsport limestone and dolomite
1006-1028	- - (Bottom) Longview limestone and dolomite R & S beds 45% dolomite

Hole LW-68 - M. C. Tunmire property

Coordinates: 746,035.21 N; 799,772.17 E
Elevation: 1584.07

Results:

0- 10	- - Clay
10-420	- - Mascot dolomite
420	- - Chert Matrix
420-501	- - Upper Kingsport dolomite Scattered traces of sphalerite 453-493
501-508	- - Estimated 1-1% zinc
508-602	- - Upper Kingsport dolomite Scattered traces of sphalerite 508-569
602	- - TR
602-762	- - Lower Kingsport limestone and dolomite
762-770	- - (Bottom) Longview dolomite R & S beds 66% dolomite

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED SEP 26 1958 PAID ON VOUCHER & SCHEDULE OF PAYMENTS K-

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of August 195 8 Docket No. DMEA 4850 Contract No. Idm E 1174
Operator's Name The New Jersey Zinc Company Minerals Zinc
Address Jefferson City, Tennessee
Contract Amount, $ 106,780.00 Government Participation: 50 % Amount, $ 53,390.00

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	10,073.80	17,262.05	27,335.85			
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor						
Supervision	804.32	1,374.34	2,178.66			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	23.00	38.00	61.00			
Payroll Taxes						
Liability Insurance						
Core Boxes	109.80	187.20	297.00			
(8) Contingencies (specify):						
TOTALS	11,010.92	18,861.59	29,872.51	11010.92	18861.59	29872.51

I certify that the above bill is correct and just and that payment therefor has not been received.
Date 9-1-58 *Payee The New Jersey Zinc Company
Per [signature] Title Asst. to Gen. Supt.

*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:
$ 5505.46
Signature [signature]
(Authorized Certifying Officer)
Date SEP 26 1958 Vou. No. 37
(See other side)

5505.46

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E-1174 in accordance with the terms of the contract.

Signature [signature] Title MINING ENGINEER U. S. BUREAU OF MINES Date SEP 25 1958

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Robert A. Lawrence Title EXECUTIVE OFFICER OME FIELD TEAM REGION V Date SEP 25 1958

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED SEP 29 1958

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of August 1958 Docket No. DMEA 4850 Contract No. Idm P 1174
Operator's Name The New Jersey Zinc Company Minerals Zinc
Address Jefferson City, Tennessee

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 0-1000 BX	Ft.	201.30	66	1,027.85	337	3.05	1,000	3.05
Churn 0-1000 AX	"	9,872.50	3590	26,290.00	9560	2.75	20,000	2.75
Auger 0-1000 BX	"							2.50
Stripping 1000 + AX	"	-	-	18.00	6	3.00	5,000	3.00
Trenching Assays	Ea.	23.00	23	61.00	61	1.00	200	1.00
Test Pits Core Boxes	"	109.80	61	297.00	165	1.80	600	1.80
Roads and Trails								
Tech. Serv.	Ft.	804.32	3656	2,178.66	9903	0.22	35,000	0.22
TOTAL DISTRIBUTED COSTS		11,010.92		29,872.51				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		11,010.92		29,872.51				

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 9-1-58 Operator The New Jersey Zinc Co.

Per [signature] Title Asst. to Gen. Supt.

REMARKS: This report covers holes LW-61
63
64
65
66

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)

[signature]
MINING ENGINEER
U. S. BUREAU OF MINES

INSTRUCTIONS

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

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

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

GPO 872894

Report for August 1958

Little War Creek Area DMEA 4350

Contract Idm E 1174 (Zinc)

Two drills operated on this project during the month and completed five holes for a total of 3656'. The accompanying maps AX-TENN-1309 and 1310 show these holes in green.

Hole LW-61 - James Brewer property
430' S 79° W from hole LW-60

Coordinates: 745,889.58 N; 798,781.65 E
Elevation: 1605.29

Results:

0- 69 - - Clay
69-510 - - Mascot dolomite. Scattered traces of sphalerite 265-435
510 - - Chert Matrix
510-709 - - Upper Kingsport dolomite Scattered traces of sphalerite 531-684
709 - - TR
709-875 - - (Bottom) Lower Kingsport dolomite Scattered 715-811. 100% dolomite in R & S beds

Hole LW-63 - James Brewer property

Coordinates: 745,969.77 N; 799,193.03 E
Elevation: 1609.62

0- 51 - - Clay
51-507 - - Mascot dolomite. Shines of sphalerite 261,277,301,364
507 - - Chert Matrix
507-737 - - Upper Kingsport dolomite
737 - - TR
737-885 - - (Bottom) Lower Kingsport limestone and dolomite. 91% dolomite in R & S beds

Hole LW-64 - James Brewer property - 200' updip from LW-61

Coordinates: 746,048.88 N; 798,655.23 E
Elevation: 1618.60

Results:

0- 40 - - Clay
40-328 - - Mascot dolomite. Scattered shines and traces of sphalerite 72,106-117, 255-256
328 - - Chert Matrix
328-534 - - Upper Kingsport dolomite
534 - - TR ?

534-676 - - (Bottom) Lower Kingsport limestone
and dolomite
61% dolomite in R & S beds

Hole LW-65 - James Brewer property - 200' updip from LW-64

Coordinates: 746,215.36 N; 798,549.47 E
Elevation: 1683.85

Results:

0- 91 - - Clay
91-247 - - Mascot dolomite. Rare scattered traces of sphalerite 120-157
247- - Chert Matrix
247-423 - - Upper Kingsport dolomite
423 - - TR ?
423-580 - - (Bottom) Lower Kingsport dolomite
100% dolomite in R &S beds

Hole LW-66 - W. C. Tummire property - 100' S 66° W from LW-58

Coordinates: 746,194.53 N; 799,414.89 E
Elevation: 1616.48'

Results:

0- 100 - - Clay
100- 287 - - Mascot dolomite 223-225 -2' estimated at 5% zinc
287 - - Chert Matrix
287- 366 - - Upper Kingsport dolomite
366- 370 - - 4' - 3.37% zinc
370- 387 - - Scattered traces of sphalerite
387- 433 - - 46' of 1.32% zinc
433- 446 - - 13' of 3.43% zinc
446- 485 - - 39' of 1.44% zinc
387- 485 - - 98' of 1.65% zinc as detailed below

387-391 - - 2.39
391-397 - - 0.17
397-403 - - 2.31
403-406 - - 0.25
406-411 - - 2.08
411-416 - - 2.50
416-420 - - 0.50
420-425 - - 0.48
425-433 - - 1.00
433-438 - - 4.65
438-443 - - 3.09
443-446 - - 1.98
446-451 - - 0.15
451-454 - - 1.12
454-458 - - Tr
458-461 - - 2.50

461-464 - - 1.18
464-468 - - Tr
468-473 - - 2.70
473-477 - - 3.20
477-480 - - 0.90
480-485 - - 2.40
485-487 - - - Upper Kingsport dolomite
487 - - - TR
487-640 - - - (Bottom) Lower Kingsport limestone and dolomite.
82% dolomite in R & S beds.

[illegible]04 (Rev.)
[illegible] 1952)

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED AUG 18 1958 D.M.E.A.

PAID IN VOUCHER & SCHEDULE OF PAYMENTS K- 10

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of July, 1958 Docket No. DMEA 4850 Contract No. Idm E 1174

Operator's Name The New Jersey Zinc Company Minerals Zinc

Address Jefferson City, Tennessee

Contract Amount, $106,780.00 Government Participation: 50 % Amount, $53,390.00

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	4,264.05	12,998.00	17,262.05			
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor						
Supervision	339.90	1,034.44	1,374.34			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	2.00	36.00	38.00			
Payroll Taxes						
Liability Insurance						
Core Boxes	46.80	140.40	187.20			
(8) Contingencies (specify):						
TOTALS	4,652.75	14,208.84	18,861.59	4652.75	14,208.84	18,861.59

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

Date 8-1-58 *Payee The New Jersey Zinc Company

Per [signature] Title Asst. to Gen. Supt.

*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:

$ ~~4,326.37~~ 2326.37

Signature Helen R. Miller
(Authorized Certifying Officer)

Date AUG 15 1958 Vou. No.

(See other side)

4

4326.37

(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. DmE1174 in accordance with the terms of the contract.

Signature [illegible] Title GEOLOGIST, U. S. G. S. Date AUG 14 1958

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Robert H. Lawrence Title EXECUTIVE OFFICER DMEA REGION V Date AUG 14 1958

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.

:104A
1962)

Budget Bureau No. 42-R1151.2

RECEIVED AUG 8 1958 D.M.E.A.

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

Month of July 1958 Docket No. DMEA 4850 Contract No. Idm E 1174
Operator's Name The New Jersey Zinc Company Minerals Zinc
Address Jefferson City, Tennessee

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 0-1000 BX	Ft.	155.55	51	826.55	271	3.05	1,000	3.05
Chip 0-1000 AX	"	4,108.50	1494	16,417.50	5,970	2.75	29,000	2.75
Auger 0-1000-EX	"							2.50
Stripping 1000 + AX	"			18.00	6	3.00	5,000	3.00
Trenching								
Test Pits Assays	Ea.	2.00	2	38.00	38	1.00	200	1.00
Roads and Trails Core Boxes	"	46.80	26	187.20	104	1.80	600	1.80
Sup. & Tech.Serv.	Ft.	339.90	1545	1,374.34	6,247	0.22	35,000	0.22
TOTAL DISTRIBUTED COSTS		4,652.75		18,861.59				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		4,652.75		18,861.59				

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 8-1-58 Operator The New Jersey Zinc Co.

Per [signature] Title Asst. to Gen.Supt.

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: This report covers holes LW-60
L"-62

2 Assays this month reported late from LW-59

(Instructions on reverse)

(For Government use only)

Henry H. Amos

GEOLOGIST, U. S. G. S. AUG 14 1958

INSTRUCTIONS

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

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

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

GPO 872894

Report for July 1958

Little War Creek Area DMEA 4350

Contract Idm E 1174 (Zinc)

Two drills operated on this project during the month and completed two holes. The accompanying map, AX-TENN-B-95 shows these holes in green.

<u>Hole LW-60</u> - J. Brewer property - 405' S 71°W from LW-57

Coordinates: 745,969.77 N; 799,193.03 E
Elevation: 1609.62

Results:

0- 55	Clay
55-304	Mascot dolomite
304-312	8' estimated @ 2% zinc
312-445	Mascot dolomite. Scattered traces sphalerite 344-375
445	Chert Matrix
445-653	Upper Kingsport dolomite Scattered shines of sphalerite 450-566
653	TR
653-799	Lower Kingsport
799-825	(Bottom) Longview dolomite 100% dolomite in R & S beds

<u>Hole LW-62</u> - J. Brewer property - 100' N 33°W from LW-60

Coordinates: 745,054.19 N; 799,134.52 E
Elevation: 1618.57

Results:

0- 21	Clay
29-351	Mascot dolomite. Sphalerite estimated at 2% zinc 231-233. Shine sphalerite 264
351	Chert Matrix
351-551	Upper Kingsport dolomite. Scattered traces of sphalerite 393-511
551	TR
551-720	(Bottom) Lower Kingsport dolomite and limestone. 94% dolomite in R & S beds

Note: Two samples from LW-59 were split and assayed. They are as follows:

<u>LW-59</u>

543-544 - 1' core - 7.30% zinc
562-567 -4½' core - 1.93% zinc

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

PAID ON VOUCHER & SCHEDULE OF PAYMENTS K-

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of June, 1958 Docket No. DMEA 4850 Contract No. Idm F 1174
Operator's Name The New Jersey Zinc Company Minerals Zinc
Address Jefferson City, Tennessee
Contract Amount, $106,780.00 Government Participation 50 % Amount, $53,390.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling	5,520.50	7,477.50	12,998.00			
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor						
Supervision / Technical Services	439.12	595.32	1,034.44			
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	30.00	6.00	36.00			
Payroll Taxes						
Liability Insurance						
Core Boxes	59.40	81.00	140.40			
(8) Contingencies (specify):						
TOTALS	6,049.02	8,159.82	14,208.84	6049.02	8159.82	14208.84

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

Date 7/1/58 *Payee The New Jersey Zinc Company

Per [signature] Title Asst. to Gen. Supt.

*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:

$ 3024.51

Signature [signature]
(Authorized Certifying Officer)

Date JUL 21 1958 Vou. No. 7

(See other side)

3024.51

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E-1174 in accordance with the terms of the contract.

Signature H. Wedan Title GEOLOGIST, U. S. G. S. Date JUL 14 1958

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature D. J. Lynch Title ACTING EXECUTIVE OFFICER DMEA - REGION V Date JUL 14 1958

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED JUL 28 1958

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of June 195 8 Docket No. DMEA 4850 Contract No. Idm E 1174

Operator's Name The New Jersey Zinc Company Minerals Zinc

Address Jefferson City, Tennessee

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 -1000 BX	Ft.	320.25	105	671.00	220	3.05	1,000	3.05
Churn -1000AX	"	5200.25	1891	12,309.00	4476	2.75	29,000	2.75
Auger -1000 EX	"		-					2.50
1000AX	"			18.00	6	3.00	5,000	3.00
Stripping								
Trenching Assays	Ea.	30.00	30	36.00	36	1.00	200	1.00
Test Pits Core Boxes	"	59.40	33	140.40	78	1.80	600	1.80
Roads and Trails Sup.& Tech. Ser.	Ft.	439.12	1996	1,034.44	4702	0.22	35,000	0.22
Total Distributed Costs		6049.02		14,208.84				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs		6049.02		14,208.84				

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 7/1/58 Operator The New Jersey Zinc Co.

Per [signature] Title Asst. to Gen. Supt.

Remarks: This report covers drill holes LW-57, LW-58, LW-59

→ 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)

[signature]
GEOLOGIST, U. S. G. S.
7/14/58

INSTRUCTIONS

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

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

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

GPO 872894

Report for June 1958

Little War Creek Area DMEA 4350

Contract Idm E 1174 (Zinc)

One drill operated on this project during the month and completed three holes. The accompanying map, AX-TENN-B 95, and section, AX-TENN C 1366, show the general detailed geologic relationships of all holes drilled on the project to date.

Hole LW-57 - M. C. Tunmire property - 200' updip from LW-56

Coordinates: 746,149.37 N; 799,553.29 E
Elevation: 1600.21'

Results:

0- 76	- Clay
76-327	- Mascot dolomite. Shines of sphalerite 303-305
327	- Chert Matrix
327-369	- Upper Kingsport dolomite. Scattered shines of sphalerite
369-384	- 15' mineralization averaging 1.35% Zn
384-422	- 38' ore averaging 12.25% zinc
422-433	- 11' - mineralization avg. 1.10% Zn
433-493	- 60' - ore averaging 4.76% zinc
384-493	- 109' - ore averaging 7.01% zinc
493-505	- 12' - mineralization avg. 1.14% Zn
369-374	- 5' @ 3.38% Zn
374-379	- 5' @ 0.20% Zn
379-384	- 5' @ 0.50% Zn
384-389	- 5' @ 3.25% Zn
389-394	- 5' @ 4.65% Zn
394-399	- 5' @ 17.50% Zn
399-406	- 7' (5' core) @ 15.80% Zn
406-411	- 5' @ 17.75% Zn
411-416	- 5' @ 13.40% Zn
416-419	- 3' @ 10.40% Zn
419-422	- 3' @ 13.40% Zn
422-427	- 5' @ 1.05% Zn
427-433	- 6' @ 1.33% Zn
433-437	- 4' @ 16.60% Zn
437-442	- 5' @ 7.81% Zn
442-446	- 4' @ Tr
446-451	- 5' @ 1.15% Zn
451-457	- 6' @ 0.38% Zn
457-462	- 5' @ 4.48% Zn
462-468	- 6' @ 7.41% Zn

468-473 - - 5' @ 4.06% Zn
473-478 - - 5' @ 6.33% Zn
478-483 - - 5' @ 3.28% Zn
483-488 - - 5' @ 4.53% Zn
488-493 - - 5' @ 2.83% Zn
493-497 - - 4' @ 0.85% Zn
497-501 - - 4' @ 0.75% Zn
501-505 - - 4' @ 1.58% Zn
505-510 - - Upper Kingsport dolomite
510 - - TR marker
510-676 - - (Bottom) Lower Kingsport dolomite and limestone
R and S beds 68% dolomite

Comment: Hole LW-57 has made a penetration of ore that may be significant. Holes 100 feet up dip and down dip found non-commercial mineralization, and additional ore penetrations in the area are required to determine the importance of this discovery.

<u>Hole LW-58</u> - - M. C. Tunmire property - 100' updip from LW-57

Coordinates: 746,234.85 N; 799,498.88
Elevation: 1609.86

Results:

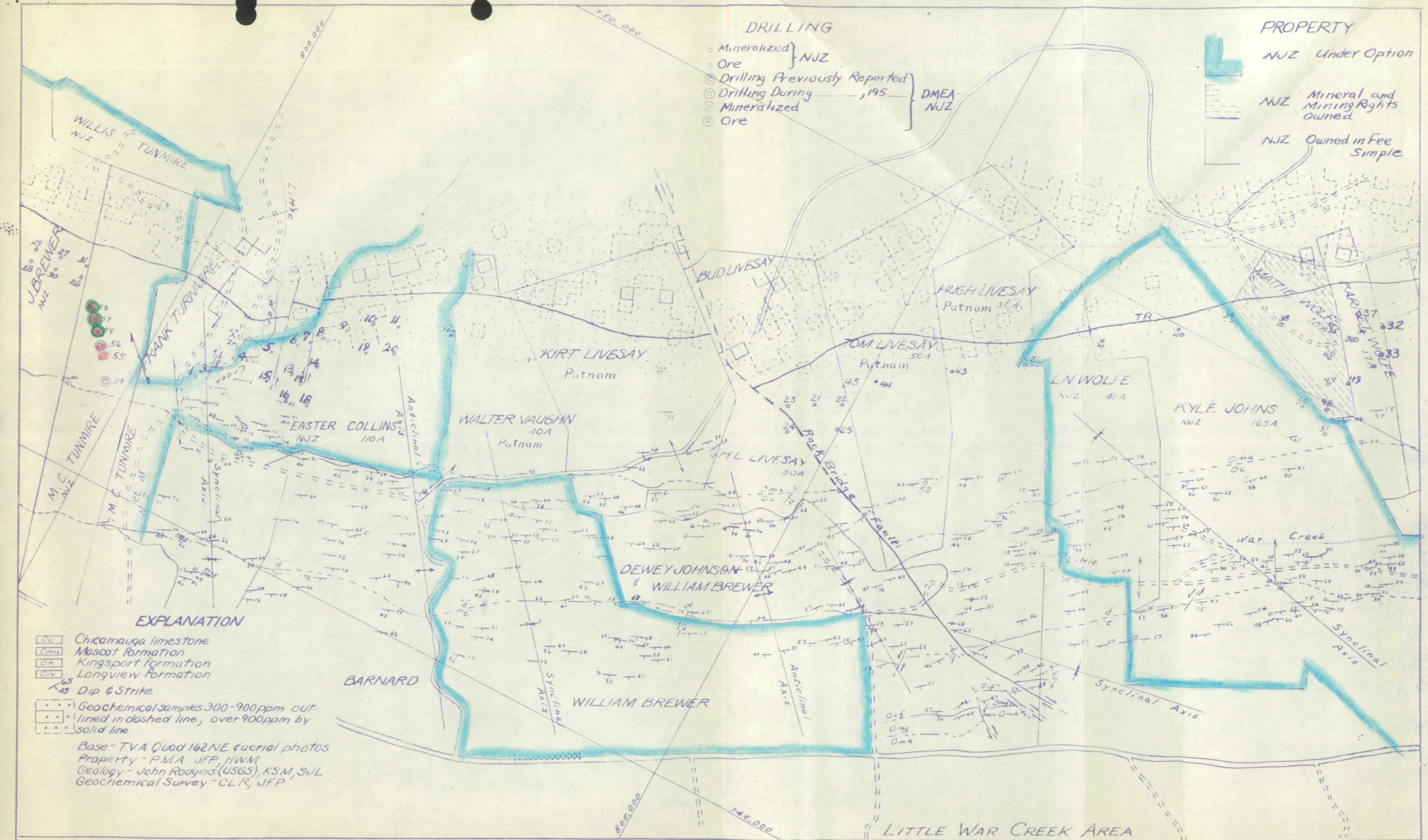
0- 87 - - Clay
87-258 - - Mascot dolomite
258-368 - - Upper Kingsport dolomite.
281-366, Scattered traces and shines sphalerite
368-371 - - 3' mineralization averaging 16.48% Zn
371-401 - - Upper Kingsport dolomite
Scattered shines of sphalerite 380-401
401-406 - - 5' mineralization averaging 1.23% Zn
406-435 - - Upper Kingsport dolomite. Trace sphalerite @ 421
435 - - TR marker
435-562 - - Lower Kingsport dolomite and limestone.
Scattered traces sphalerite 435-475
Trace sphalerite @ 550
562-610 - - (Bottom) Longview dolomite
R and S beds 87% dolomite

Hole LW-59 - M. C. Tunmire property - 100' downdip from LW-57

Coordinates: 746,069.52 N; 799,608.98 E
Elevation: 1588.18

Results:

0- 48	- -	Clay
48-367	- -	Mascot dolomite
367-540	- -	Upper Kingsport dolomite rare scattered traces sphalerite 440-533
540	- -	TR marker
540-543	- -	Lower Kingsport dolomite
543-544	- -	1' mineralization estimated at 15% Zn
544-562	- -	Lower Kingsport dolomite and limestone with scattered traces of sphalerite
562-567	- -	5' mineralization estimated @ 2½% Zn
567-675	- -	Lower Kingsport dolomite and limestone
675-710	- -	(Bottom) Longview dolomite R and S beds 82% dolomite



POSTED TO DATE 5/30/53 7-1-54 TEW; 4-56 TEN; 3/31/54; 3/1/54	THE NEW JERSEY ZINC COMPANY ROGERSVILLE TENNESSEE	DRAWN SJL, JFP DATE 2-11-53 TRACED - SCALE 1"=660'	COPPER RIDGE BELT SECTOR II SHEET I NE	HANCOCK COUNTY, TENN. FILE NO. AX-TENN 95

EXTRA COPY
D M E A
RECEIVED JUL 2

DATE	INITIALS	CODE

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D M E A
RECEIVED JUL 23 1958

DATE	INITIALS	CODE

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

PAID ON VOUCHER & SCHEDULE OF PAYMENTS K

RECEIVED JUN 30 1958 D.M.E.A.

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of May, 195 8 Docket No. DMEA 4850 Contract No. Idm E 1174

Operator's Name The New Jersey Zinc Company Minerals Zinc

Address Jefferson City, Tennessee

Contract Amount, $ 106,780.00 Government Participation: 50 % Amount, $ 53,390.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling	4704.10	2773.40	7477.50			
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor / Supervision / Technical Services	374.00	221.32	595.32			
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	6.00	-	6.00			
Payroll Taxes						
Liability Insurance						
Core Boxes	50.40	30.60	81.00			
(8) Contingencies (specify):						
TOTALS	5134.50	3025.32	8159.82	5134.50	3025.32	8159.82

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

Date 6/1/58 *Payee The New Jersey Zinc Company

Per [signature] Title Asst. to Gen. Supt.

*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:

$ 2567.25

Signature Helen R. Miller
(Authorized Certifying Officer)

Date JUN 26 1958 Vou. No. 182

(See other side)

2567.25

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED JUN 30 1958 DMEA

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of May 195 8 Docket No. DMEA 4850 Contract No. Idm E 1174
Operator's Name The New Jersey Zinc Company Minerals
Address Jefferson City, Tennessee

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 -1000 BX	Ft.	295.85	97	350.75	115	3.05	1,000	3.05
Churn -1000 AX	"	4408.25	1603	7108.75	7585	2.75	29,000	2.75
Auger -1000 EX	"							2.50
Stripping 1000+AX	"	-	-	18.00	6	3.00	5,000	3.00
Trenching 1000+EX	"							2.75
Test Pits Assays	Ea.	6.00	6	6.00	6	2.00	200	1.00
Roads and Trails Core	Ea.	50.40	28	81.00	45	1.80	600	1.80
Boxes	Ft.	374.00	1700	595.32	2706	0.22	35,000	0.22
Sup.& Tech.Ser.								
Total Distributed Costs		5134.50		8159.82				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs		5134.50		8159.82				

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.

Remarks: This report covers drill holes: LW-55, 56

Date 6/1/58 Operator The New Jersey Zinc Co.

Per [signature] Title Asst. to Gen.Supt.

→ 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)

[signature]
MINING ENGINEER
U. S. BUREAU OF MINES

Report for May, 1958

Little War Creek Area DMEA 4350

Contract Idm E 1174 (Zinc)

One drill operated on this project during the month and completed two holes. These holes are shown on the accompanying map, AX-TENN-B-95.

Hole LW-55 - M. C. Tunmire property. 200 feet updip from LW-54

Coordinates: 745,907.05 N; 799,726.45 E
Elevation: 1588.18

0- 11 - - Clay
11-544 - - Mascot dolomite
544-722 - - Upper Kingsport dolomite. Scattered traces sphalerite 662-665
722 - - TR marker
722-794 - - Lower Kingsport dolomite Trace sphalerite 787, 791
794-805 - - 11' mineralization averaging 1.86% Zn
794-798 - 4' - 3.02% zinc
798-802 - 4' - 1.49% zinc
802-805 - 3' - 0.80% zinc
805-818 - - Lower Kingsport dolomite
818-834 - - 16' mineralization averaging 1.75% Zn
818-823 - 5' - 1.10% zinc
823-828 - 5' - 2.36% zinc
828-834 - 6' (5' core) 1.78% zinc
834-870 - - Lower Kingsport dolomite & limestone Shine sphalerite 838 "R" and "S" beds 90% dolomite
870-890 - - (Bottom) Longview dolomite

Hole LW-56 - M. C. Tunmire property. 100 feet updip from LW-55

Coordinates: 745,987.11 N; 799,669.55 E
Elevation: 1587.32

0- 3 - - Clay
3-452 - - Mascot dolomite
452-636 - - Upper Kingsport dolomite. Traces sphalerite 515-518, 533-538, 538-547
636 - - TR marker

636-724 - - Lower Kingsport dolomite.
Scattered traces sphalerite
700-708

724-725 - - 1' mineralization estimated
@ 3% zinc

725-742 - - Lower Kingsport dolomite.
Scattered traces sphalerite 727-728,
732-736, 737-742

742-750 - - 8' mineralization estimated @
1-3/4% zinc

750-793 - - Lower Kingsport dolomite
R and S beds 98% dolomite

793-810 - - (Bottom) Longview dolomite

Comment: Both holes LW-55 and LW-56 show very favorable rock and mineralization characteristics.

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

PAID ON VOUCHER & SCHEDULE
PAYMENTS K- 59

OPERATOR'S MONTHLY REPORT AND VOUCHER

RECEIVED JUN 5 1958

Month of April 1958 Docket No. DMEA 4850 Contract No. Idm E 1174
Operator's Name The New Jersey Zinc Company Minerals Zinc
Address Jefferson City, Tennessee
Contract Amount, $106,780.00 Government Participation: 50 % Amount, $53,390.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling	2773.40	-	2773.40			
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor						
Supervision	221.32	-	221.32			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
Core Boxes	30.60	-	30.60			
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	-	-	-			
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	3025.32		3025.32	3025.32	—	3025.32

I certify that the above bill is correct and just and that payment therefor has not been received.
Date 5/1/58 *Payee The New Jersey Zinc Company
Per [signature] Title Asst. to Gen. Supt.

*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:
$ 1512.66
Signature [signature]
(Authorized Certifying Officer)
Date JUN 2 1958 Vou. No. 174
(See other side)

1st

1512.66

(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. F-1174 in accordance with the terms of the contract.

Signature R. J. Lynch Title MINING ENGINEER U. S. BUREAU OF MINES Date MAY 20 1958

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Robert A. Lawrence Title EXECUTIVE OFFICER DMEA FIELD TEAM REGION V Date MAY 20 1958

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MIE-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of April 8, 1958 Docket No. DMEA 4850 Contract No. Idm E 1174
Operator's Name The New Jersey Zinc Company Minerals Zinc
Address Jefferson City, Tennessee

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 -1000' BX	Ft.	54.90	18	54.90	18	3.05	1,000	3.05
Winzes -1000' AX	"	2700.50	982	2700.50	982	2.75	29,000	2.75
Drilling: Core -1000' EX	"							2.50
Churn 1000'+AX	"	18.00	6	18.00	6	3.00	5,000	3.00
Auger 1000'+EX	"							2.75
Stripping Assays	Ea.						200	1.00
Trenching Core Boxes		30.60	17	30.60			600	1.80
Test Pits								
Roads and Trails								
Sup. & Tech. Serv.	Ft.	221.32	1006	221.32	1006	0.22	35,000	0.22
Total Distributed Costs		3025.32		3025.32				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs		3025.32		3025.32				106,780.00

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

Date 5/1/58 Operator The New Jersey Zinc Co.

Per [signature] Title Asst. to Gen. Supt.

Remarks This report covers LW-54

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)

[signature]
MINING ENGINEER
U. S. BUREAU OF MINES

INSTRUCTIONS

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

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

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

GPO 872894

Report for April 1958

Little War Creek Area DMEA 4850

Contract Idm E 1174 (Zinc)

One drill operated on this project during the month, and completed one hole.

LW-54 - M. C. Tunmire property

Coordinates: 745,945.46N; 799,789.71E
Elevation: 1550.29

0 - 22	Clay
22 -713	Mascot dolomite
713 -845	Upper Kingsport dolomite. Traces sphalerite 753, 801, 804, 809, 835. Shine sphalerite 825.
845	TR marker
845 -965	Lower Kingsport dolomite and limestone. Trace sphalerite 850.
965 -1006	(Bottom) Longview dolomite and limestone.

Contract Division

CERTIFICATION BY THE UNITED STATES OF AMERICA OF A DISCOVERY OR DEVELOPMENT UNDER AN EXPLORATION PROJECT CONTRACT

To: The New Jersey Zinc Company
160 Front Street
New York 38, New York

Pursuant to the provisions of Exploration Project Contract No. Idm-81174, dated February 26, 1958, (Docket No. DMEA-4850), hereinafter called the "contract," between The New Jersey Zinc Company, a New Jersey corporation, and the United States of America, hereinafter called the "Government"; to establish and fix the Government's percentage royalty on production and its lien therefor and on the land described in the contract, the Government considers and therefore certifies that discovery or development from which production may be made has resulted from the exploration work.

The nature of said discovery or development is described broadly or indicated as follows:

Exploratory core drilling from the surface indicated the presence of significant deposits of ore-grade zinc-bearing dolomite breccias in the Ordovician Kingsport formation underlying the project area.

Dated: DEC 6 1960

FMMurphy/gla
11-30-60
cc to: Operator
Clarence A. Fredell, Director
TRDD, DMA, GSA
Contract Adm. & Audit Division
Fiscal Section
Region IV
Director's Reading File
Frank E. Johnson
Review Committee
Harold Kirkemo, USGS
Code 500
Docket
Chron

THE UNITED STATES OF AMERICA

By Frank E. Johnson
Acting Director, Office of
Minerals Exploration

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

DEC 6 1960

Mr. S. S. Goodwin
Vice President
The New Jersey Zinc Company
160 Front Street
New York 38, New York

Re: DMRA-4830 (Zinc)
The New Jersey Zinc Company
Little War Creek Area - Sector II
Hancock County, Tennessee
Contract Idm-21174

Dear Mr. Goodwin:

Enclosed is a certification of discovery or development that covers all the land described in Article 2 of the contract.

By the terms of the Exploration Project Contract, as amended, and the certification, all minerals mined or produced from February 26, 1958, to February 26, 1989, are subject to the Government's percentage royalty as set forth in the contract until the sum of $52,752.75 is repaid to the Government.

Royalty payments should be made to the Field Officer, OME, Region IV, Room 11, Post Office Building, Knoxville 2, Tennessee, by the purchaser, with checks drawn payable to the Office of Minerals Exploration. The purchaser should be advised to deduct royalties from the amount due on each shipment and send the check directly to the Field Officer. Each check should be accompanied by suitable sales evidence - such as copies of settlement sheets - showing the name of the purchaser, the quantity and grade of the products sold, and the price and charges, certified to be correct by the purchaser.

You are requested to notify the Field Officer of any changes in ownership or production rights that may have any effect on the Government's right to its percentage royalty. Your attention is called particularly to Article 2(d) of the contract relating to the preservation of the Government's right to a percentage royalty on production. Also when production starts, please notify the Field Officer. Thereafter, if production ceases for any extended period, please notify him accordingly at six-month intervals.

FMMurphy/gla 11-30-60

Sincerely yours,

Acting Director

cc to: Director's Reading File
Frank E. Johnson
Review Committee
Docket
Contract Division
Region IV
Code 500

Enclosure
Harold Kirkemo, USGS
Chron

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
ROOM 11 POST OFFICE BLDG.
KNOXVILLE 2, TENN.

March 22, 1960

EXTRA COPY
O. M. E
RECEIVED 1960
DATE
800

Mr. A. D. Hoagland
Chief Geologist
The New Jersey Zinc Company
Jefferson City, Tennessee

DMEA-4850, Idm-E1174-Zinc
The New Jersey Zinc Company
Little War Creek area
Grainger County, Tennessee

Dear Mr. Hoagland:

This will confirm approval given by telephone today to drill Hole No.101 as follows:

The hole will be located on the W. M. Brewer property about 130 feet down-dip from D. D. hole No.87. It will be drilled in a north-west direction and inclined -50°. The hole will extend to an inclined depth of about 790 feet.

The purpose of this hole is to explore the area between D.D. Hole Nos. 75 and 76. D.D. Hole No.75 penetrated 16 feet of 6% zinc mineralization and D.D. Hole No. 76 indicated about 65 feet of scattered zinc mineralization.

Sincerely yours,

V. J. Lynch, Acting
Executive Officer, OME
Region V

RAL/zm

cc:
Opr. Com-2
Lynch
Files

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
ROOM 2-B POST OFFICE BLDG.
KNOXVILLE 2, TENN.

EXTRA COPY
O. M. E.
RECEIVED NOV 3 1959

DATE	INITIALS	CODE
		800

October 29, 1959

Mr. Johnson Crawford
Assistant Manager of Mines
The New Jersey Zinc Company
Jefferson City, Tennessee

Re: DMEA-4850, Idm-E1174-zinc
Little War Creek Area
Hancock County, Tennessee

Dear Mr. Crawford:

This will confirm the approval given Mr. Hoagland by telephone today, to drill the first inclined hole on the Little War Creek project.

The hole is to be drilled on the dip fence which includes LW-55 thru LW 59, and will be collared about 75 feet southeast of the collar of LW 55. Inclination, -50°; bearing northwest along the fence; approximate depth 750 feet.

Sincerely yours,

Robert A. Laurence
Executive Officer, OME
Region V

RAL/xm
cc
Opr. Com-2
Lynch
Files

Audit's Copy

EXPLORATION PROJECT CONTRACT
THE NEW JERSEY ZINC COMPANY
DOCKET NO. DMEA-4850

AMENDMENT NO. 2

It is agreed this 29th day of September, 1959, between the United States of America, acting through the Department of the Interior, Office of Minerals Exploration, hereinafter called the "Government", and The New Jersey Zinc Company, hereinafter called the "Operator", that Exploration Project Contract No. Kbn-8117A (Docket No. DMEA-4850), dated February 26, 1958, as amended, hereinafter called the "Contract", is further amended, as follows:

To Exhibit "A" add item 11 as follows:

11. Inclined holes may be drilled at intervals of less than 100 feet from existing holes with prior Government approval. These holes may be drilled to intersect other holes already drilled. The actual locations, directions, inclinations, and depths of all such holes are subject to prior Government approval.

This amendment shall not be construed to increase the estimated total cost of the project, the aggregate amount which the Government may be required to contribute, the amount of any item designated as "maximum", or the fixed unit cost of any item of work.

Executed in quintuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

By Frank E. Johnson
Acting Director, Office of
Minerals Exploration

THE NEW JERSEY ZINC COMPANY

By S. R. Baudwin

Title VICE PRESIDENT

Audit's copy

14 15 1959 O.M.E.

EXPLORATION PROJECT CONTRACT
THE NEW JERSEY ZINC COMPANY
DOCKET NO. DMEA-4850

AMENDMENT NO. 1

It is agreed this 1st day of September, 1959, between the United States of America, acting through the Department of the Interior, Office of Minerals Exploration, hereinafter called the "Government," and The New Jersey Zinc Company, hereinafter called the "Operator," that Exploration Project Contract No. Idm-11174 (Docket No. DMEA-4850), dated February 26, 1958, is amended as follows:

1. The date fixed in the Contract for completion of the work is extended from October 1, 1959, to June 1, 1960.

2. The maximum period for royalty payments provided for in Article 8(b)(2) of the Contract is increased from 30 years to 31 years from the date of the Contract.

3. It is the essence of the Contract that the work be completed before the termination of the period herein fixed for completion and if it is not so completed, in the manner required by the Contract, the following provisions shall thereupon become effective:

(a) The Contract and all obligations of the parties thereunder, except as otherwise herein provided shall be and are hereby terminated, effective June 1, 1960.

(b) The Government will contribute only to the allowable costs of any work performed prior to the relevant date as set forth under 3(a) above.

(c) The Operator shall promptly perform all winding-up and settlement actions provided for in the Contract, including the rendering of the final report and final account.

(d) The Operator, as principal if the Operator is the producer, or as surety if the Operator is not the producer (for example,

if the Operator either transfers or fails to retain its interest in the land), shall pay to the Government the royalty on production provided for in the Contract, in the same manner and amount and for the full period of time provided for in the Contract (as amended herein), as if certification of discovery or development had been made, such certification being hereby waived by the Operator. In addition, all rights of the Government provided for in the Contract, with respect to a certification of discovery or development, and all rights of the Government as to reports (including preservation of the Operator's records), audit, and recovery of any overpayment are hereby preserved.

(e) The Operator hereby releases and agrees to save the Government harmless from all claims and demands under and arising out of the Contract except as otherwise provided in this Amendment No. 1.

This amendment shall not be construed to increase the estimated total cost of the project, the aggregate amount which the Government may be required to contribute, the amount of any item designated as maximum, or the fixed unit cost of any item of work.

Executed in quintuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

By George C. Selfridge
Acting Director, Office of
Minerals Exploration

THE NEW JERSEY ZINC COMPANY

By L F Johnson

Title VICE PRESIDENT

MME Form 14 No. 59
Sept. 1958

Contract No. Idm-E) 14-23) ~~1174~~

Docket No. DMEA) MME) ~~4850~~

Date of Action ~~November 18, 1960~~
Terminated Contract

DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

OBLIGATION DOCUMENT

To: Chief, Accounts Section, Finance Branch, Bureau of Mines

From: Director, Division of Operations Control and Statistics

Please enter the amounts shown below on the accounts of the Office of Minerals Exploration.

Name and Address of Contractor:

New Jersey Zinc Co.
160 Front Street
New York 38, New York

Date of Contract	Region	State	Commodity
February 26, 1958	V	Tennessee	Zinc

	Reserve	Obligation
Prior Amount	0	$53,390.00
Increase	0	0
Decrease	~~0~~	~~637.25~~
Revised Amount	0	52,752.75

Remarks:

cc: 800
210

43244

DMEA Form 14

Contract No. Idm-E 1174

Docket No. 4850

DEPARTMENT OF THE INTERIOR

Executed contract

DEFENSE MINERALS EXPLORATION ADMINISTRATION

Obligation Document

TO: Chief, Finance Section, Budget and Finance Branch, Bureau of Mines

Please make the following entry on the records of the Defense Minerals Exploration Administration under the Strategic and Critical Minerals Exploration Program.

Date of Contract	Region	State	Commodity
February 26, 1958	V	Tennessee	Zinc

Name and Address of Operator: The New Jersey Zinc Co.
160 Front Street
New York 38, New York

	Reserve	Obligation
Prior Amount	53,390.00	0
Increase	0	53,390.00
Decrease	53,390.00	0
Revised Amount	0	53,390.00

Remarks:

(Name)
Allen S. Dakan, Chief
Operations Control and
Statistics Division
(Title)

Date delivered to Bureau of Mines, Washington 3/11/58

22845

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MF-200
(Revised June 1954)

Docket No. DMEA-4850

Commodity Zinc

Contract No. Idm-E 1174

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

EXPLORATION PROJECT CONTRACT[1]

It is agreed this 26 FEB 1958 day of ....., 195..., between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and [2] The New Jersey Zinc Company, a New Jersey Corporation, whose mailing address is 160 Front Street, New York 38, New York, hereinafter called the "Operator," as follows:

ARTICLE 1. *This contract* is entered into under the authority of the Defense Production Act of 1950, as amended. It consists of this form (MF-200), the attached Exhibit "A," Annex I, Annex II, and map (Figure 2).

The Operator shall not transfer or assign this contract or any right thereunder without the written consent of the Government.

ARTICLE 2. *Operator's property rights.*—(a) The land which is the subject of this contract (hereinafter called "the land") is in the State of Tennessee, County of Hancock, and is described in Annex I.[3]

(b) The Operator represents and undertakes that:

(1) The Operator is the [4] See Annex I of [5] See Annex I in the land, in possession and entitled to possession for all of the purposes of this contract, under and by virtue of a [6] See Annex I, [7] ..... recorded in Book ....., page ....., official records of said County; and

(2) The Operator's right, title, or interest (whether as owner, lessee, or otherwise) is subject only to the following claims, liens, or encumbrances: Interests of owners of tracts listed in Annex I

(c) The Subordination Agreement of the holder of any claim, lien, or encumbrance listed above, and (if the Operator does not hold the legal title) the Consent to Lien of any holder of the legal title

[1] If sufficient space is not provided in any blank, use an extra sheet of paper and refer to it in the blank.
[2] Insert name, and if an organization, its nature (corporation and place of incorporation, partnership with names of partners, etc.).
[3] State on a separate sheet marked "Annex I" the legal description or enough to identify the property, particularly excluding any areas from which the production is not to be subject to the Government's percentage royalty.
[4] Insert "owner," "lessee," "contract purchaser," "locator," etc.
[5] Insert "the entire interest," "the mineral rights," "an undivided one-third," etc.
[6] Insert "deed," "lease," "contract," "location notice," "patent," etc.
[7] If not recorded, so indicate by inserting "un."

of the land (lessor, seller, optionor, etc.), are attached, as follows: Consents to lien of owners of optioned tracts are waived.

(d) The Operator shall preserve and maintain his right, title, and interest in the land and his right to the possession thereof for the purposes of this contract, and shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of this contract. Until the lapse of the time within which the Government may make a certification of discovery or development without any such certification having been made, and after any such certification has been made, the Operator shall neither transfer, convey, nor surrender the land nor any right, title, or interest therein, nor permit nor suffer any claim, lien, or encumbrance thereon, without expressly referring to and providing in the instrument of conveyance, lien, or encumbrance for the preservation of the Government's right to a percentage royalty on production and lien for the payment thereof. If the Government makes no certification of discovery or development within the time limited in Article 8, it shall thereafter have no claim against the land or any production therefrom except for any production referred to in Article 8(b)(1).

ARTICLE 3. *The exploration project.*—The project is a search for indicated or undeveloped deposits of Zinc. The work to be performed is described in Exhibit "A." The Operator on or before April 1, 1958 shall commence the work, and on or before October 1, 1959 (unless the Operator's obligation to prosecute the work is terminated—see Article 10) shall ~~either~~ have completed the work ~~or shall have incurred allowable costs (see Article 6) in an amount less than the estimated total allowable costs set forth in Exhibit "A"~~ See Annex II

ARTICLE 4. *Performance of the work.*—(a) *Operator's responsibility.*—The work shall be performed with reasonable diligence, efficiently, expertly, in a workmanlike manner, in accordance with good mining standards and State regulations for health and safety and for liability insurance covering employment; and with suitable and adequate equipment, facilities, materials, supplies, and labor, to bring it to completion within the time fixed.

(b) *Independent contracts.*—To the extent that the allowable costs are estimated in Exhibit "A" with express reference to performance by independent contractors on a unit-price basis (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations), the work may be so performed; but if the reference in Exhibit "A" to any such independent contract requires the Government's approval thereof, payments under such contract will not be allowable costs unless the Government gives its written approval of the contract. Any such independent contract shall refer to some specific and identifiable part of the work, and shall be subject to all of the pertinent terms and conditions of this exploration contract; but the Government shall not be considered a party thereto, and its rights under this contract, including the right to terminate its contributions, shall not be affected thereby. Regardless of the provisions of any such independent contract and regardless of the Government's approval thereof, the Government will participate in payments to the independent contractor only on account of work performed in accordance with the provisions of this exploration project contract, and only to the extent that the Government deems the unit prices for the work under the independent contract to be reasonable.

(c) *Government may inspect.*—The Operator shall consult with and inform the Government on all phases of the work as it progresses. The Government may enter at all reasonable times to inspect the work under the contract, and also after a certification of discovery or development to inspect production operations and underground workings. The operator shall provide the Government with all reasonable means of access for such inspections.

ARTICLE 5. *Contribution by the Government.*—The estimated total allowable cost of the project, set forth in Exhibit "A," is the sum of $106,780.00. The Government shall contribute 50 percent of the allowable costs as they are incurred in a total sum not in excess of $53,390.00: *Provided,* That until the Operator has rendered to the Government his final report, and any final auditing required by the Government has been made, and a final settlement of the contract has been made, the Government may withhold from the last

voucher or vouchers such sums as it sees fit not in excess of 10 percent of the estimated total cost of the work or not in excess of the amount of the Government's contribution to the cost of property which is or may become subject to disposal as provided in Article 9(c), whichever is greater. The Government will make its contribution on the basis of the monthly vouchers referred to in Article 7(b), but all payments by the Government are provisional only, subject to audit, until the account between the Operator and the Government is finally audited and settled. "Costs incurred" mean costs that have been paid or have become due and payable, or that in the opinion of the Government have become an obligation. The Government may make payments directly to independent contractors and suppliers for the account of the Operator rather than to the Operator.

ARTICLE 6. *Estimated costs.*—(a) *Categories of costs.*—The allowable costs of the work to which the Government shall contribute are limited to those that are direct, reasonable, necessary, and that are estimated in Exhibit "A" by categories as specified in this article. If any category or subcategory is omitted from the estimate of costs, or if the word "none" is annexed to the listing thereof, costs under such category or subcategory are not allowable. Any excess over any estimate which is indicated as the maximum of any category, subcategory, or item, either as to requirement or related cost, and any excess over the estimated total allowable cost of the work, shall not be allowable. Any excess over the estimate of any category, subcategory, or item, either as to requirement or related cost, not indicated as a maximum shall be allowable within the limit of the estimated total allowable cost of the work. To the extent that excesses over maximums other than the estimated total allowable cost of the work may be necessary for the performance of the work, the Operator shall incur such excesses for his own account without contribution by the Government; [redacted] See Annex II

To the extent specified in this article or in Exhibit "A" the following categories, subcategories, and elements thereof are maximums; but if not so specified either here or in Exhibit "A" they are not maximums, and may be exceeded within the limit of the estimated total allowable cost of the work:

CATEGORY (1)—INDEPENDENT CONTRACTS.—Work to be performed under independent contracts (see Article 4(b)). The estimated total amount of this category and the estimated cost of each unit of work for performance under an independent contract are maximums. See Annex II

CATEGORY (2)—PERSONAL SERVICES.

Subcategory (a)—Supervision.—All elements of this subcategory (number of supervisors, periods of employment, rates of pay, and total) are maximums.

Subcategory (b)—Technical services.—All elements of this subcategory (number of technicians, periods of employment, rates of pay, and total) are maximums.

Subcategory (c)—Labor.

CATEGORY (3)—OPERATING MATERIALS AND SUPPLIES.—Includes such items as drill bits and steel, explosives, fuel, pipe, power, small tools costing less than $50 each, timber, track.

CATEGORY (4)—OPERATING EQUIPMENT.

Subcategory (a)—Rental.—The number of each object to be rented [6 mine cars, 1 truck], the rate of rental [$100 per month, $5 per hour], and the total of this subcategory are maximums.

Subcategory (b)—Purchases.—The estimated total of this subcategory is a maximum.

Subcategory (c)—Depreciation.—All elements of this subcategory (time periods, rate of depreciation, and subcategory total) are maximums.

CATEGORY (5)—INITIAL REHABILITATION AND REPAIRS.—Estimates under this category include all requirements and related costs, such as labor, materials and supplies, and supervision at a rate not higher than provided for in Category (2), and shall not be duplicated under any other category. The estimated total of this category is a maximum.

Subcategory (a)—Initial rehabilitation and repairs of existing buildings, fixtures, and installations (exclusive of mine workings).—The estimated total of this subcategory is a maximum.

Subcategory (b)—Initial rehabilitation and repairs of operating equipment.—The estimated total of this subcategory is a maximum.

CATEGORY (6)—NEW BUILDINGS, FIXTURES, AND INSTALLATIONS (EXCLUSIVE OF MINE WORKINGS).—Estimates under this category include all requirements and related costs, such as labor, materials and supplies, and supervision at a rate not higher than provided for in Category (2), and shall not be duplicated under any other category. The estimated total of this category is a maximum.

CATEGORY (7)—MISCELLANEOUS.—Repairs and maintenance (other than initial) of operating equipment, analytical work, prints and other reproductions, accounting, Operator's share of payroll taxes, liability insurance covering employment, travel, communications, and any other items of requirement or cost that do not fall within any of the first 6 categories.

THE ESTIMATED TOTAL ALLOWABLE COST of the work is a maximum.

(b) *Nonallowable costs.*—The following costs are not allowable for contribution by the Government:

(1) *Costs of the land,* such as rental, depreciation, depletion, or other cost of acquiring, owning, or holding possession;

(2) *Indirect costs,* such as general overhead, corporate management, interest, taxes (other than payroll and sales taxes), insurance (other than liability insurance covering employment), damages to persons, damages to property (other than necessary repairs or replacements of equipment or other property used in the work);

(3) *Previous work* performed or costs incurred before the date of this contract; and

(4) *Deferred payments.*—Any costs incurred by the Operator under any rental-purchase agreement, installment-purchase agreement, or any agreement for the purchase of goods under the provisions of which payment of the full purchase price is deferred more than 90 days from the delivery of the goods; unless the purchase agreement is approved by the Government in writing.

(c) *Reductions in costs.*—The Operator shall account for and give the Government credit for any incidental benefits, credits, or money received in the ordinary course of business in prosecuting the work (as by salvage or sale of materials or equipment, furnishing of room or board, furnishing of power or services to third persons, rebates or discounts on purchases, etc.), in the same ratio in which the Government contributes to costs; and such amounts shall be treated as a reduction in costs incurred so that they are available for use within the limit of the original estimated total cost. This provision does not apply to receipts from production which are subject to the Government's percentage royalty under the provisions of Article 8. See Annex II

ARTICLE 7. *Reports, accounts, audits.*—(a) *Operator's records.*—The Operator shall keep suitable records and accounts of the work performed and of any production in which the Government may have an interest; and shall preserve those with respect to work performed for at least three years after final payment by the Government, and those with respect to production for at least three years after any obligation to pay royalties to the Government has terminated. The Government may inspect and audit said records and accounts at any time, either by itself or by a certified public accountant. If the Government elects to audit said records and accounts relating to the exploration work by certified public accountant, it may do so as a cost of the work to which the Operator shall contribute. The Comptroller General of the United States or his representative, until the expiration of said three-year periods, shall have access to and the right to examine any pertinent books, documents, papers, and records of the Operator. All of the Operator's vouchers and records and accounts relating thereto and the Government's payments thereof remain subject to adjustment until final audit by the Government. If work under this contract is carried on in conjunction with any other operations, or if labor, supervision, services, materials, supplies, equipment, facilities, or other requirements for carrying on the work are also used in connection with other operations, the costs shall be segregated and accounted for on a basis and by methods and accounts that are satisfactory to and approved by the Government.

(b) *Progress reports and vouchers.*—The Operator shall provide the Government with five copies of monthly progress reports in three sections as follows: (1) Operator's Monthly Report and Voucher showing detailed costs incurred during the reporting period; (2) Operator's Unit Cost and Progress Report showing the various types of work performed during the reporting period and costs incurred for each type of work; and (3) a Narrative Report of the work performed during the reporting period including adequate engineering-geological maps or sketches, drill hole logs and locations, and assay reports on samples taken concurrently with advance in mineralized ground. (Forms for reporting under (1) and (2) above will be provided by the Government.)

(c) *Final report.*—Upon completion of the work or termination of the Government's obligation to contribute to costs, the Operator shall furnish the Government with five copies of a final report (in addition to the final progress report and voucher). This final report shall include a geological and engineering evaluation of the results of the work performed under the contract with an estimate of the ore reserves resulting from such work, complete assay data, adequate geological and engineering maps or sketches, and a summary of the work performed and related costs incurred.

(d) *Report of sales.*—The Operator shall provide the Government with suitable accounting and documentary evidence covering all production to which the Government's percentage royalty relates, such as copies of smelter or concentrator settlement sheets, and certified accounts of production and sale or other disposition of production.

(e) *Compliance with requirements.*—If in the opinion of the Government any of the Operator's reports, records, or accounts are insufficient or incomplete, or if the Operator fails to make them, the Government may procure the making or completion of such with suitable attachments as an expense of the work to which the Operator shall contribute. The Government may withhold approval and payment of any vouchers relating to insufficient or incomplete reports, records, or accounts.

ARTICLE 8. *Repayment by Operator.*—(a) *Certification.*—If the Government considers that a discovery or development from which production may be made has resulted from the work, the Government, at any time not later than six months after a sufficient final report and final account (see Article 7) has been rendered, may so certify in writing to the Operator. Such certification shall describe broadly or indicate the nature of the discovery or development.

(b) *Royalty on production.*—The Operator, as principal if the Operator is the producer, or as surety if the Operator is not the producer, shall pay to the Government a royalty on all minerals mined or produced from the land, as follows: (1) regardless of any certification of discovery or development, from the date of the contract until the lapse of the time within which the Government may make such certification, or until the total net amount contributed by the Government without interest is fully repaid, whichever occurs first; or (2) if the Government makes a certification of discovery or development, within a period of ten years from the date of the contract, or until the total net amount contributed by the Government without interest is fully repaid, whichever occurs first. See Annex II

(c) *Basis for computation.*—The Government's royalty shall be a percentage of the gross proceeds (including any bonuses, premiums, allowances, or other benefits) from the production sold, in the form sold (ore, concentrates, metal, or equivalent), at the point of delivery (the f. o. b. point); *except,* that charges of *the buyer* arising in the regular course of business, and shown as deductions on the buyer's settlement sheets, on account of the cost of treatment processes performed by *the buyer,* sampling and assaying to determine the value of the production sold, and freight paid by *the buyer* to a carrier (not the Operator), shall be allowed as deductions in arriving at the "gross proceeds" as that term is used herein. Any costs of treatment processes, sampling or assaying, or transportation, performed or paid by the Operator or by anyone other than the buyer, are not deductible in arriving at the "gross proceeds" as that term is here used. The term "treatment processes," as here used, means those processes (such as milling, concentrating, smelting, refining, or equivalent) applied to the crude ore or other production after it is extracted from the ground, to put it into a commercially marketable form; excluding fabricating or manufacturing. See Annex II

(d) *Unsold production.*—If any production (ore, concentrates, metal, or equivalent), after the lapse of six months from the date the ore was extracted from the ground, remains neither sold nor used by the Operator in integrated manufacturing or fabricating operations (for instance, if it is stockpiled), the Government, at its option, as long as it so remains, may require the computation and payment of its royalty on the value of such production in the form (ore, concentrates, metal, or equivalent) it is in when the Government elects to require computation and payment. If any production is used by the Operator in integrated manufacturing or fabricating operations before the Government makes its election, the Government's royalty on such production shall be computed on the value therof in the form in which and at the time when it is so used. "Value" as here used means what is or would be gross income from mining operations for percentage depletion purposes in Federal income tax determination, or the market value, whichever is greater.

(e) *Percentages of royalty.*—The percentages of the Government's royalty shall be as follows:

One and one-half (1½) percent of amounts ("gross proceeds" or "value") not in excess of eight dollars ($8.00) per ton of production in the form in which sold, held, or used, plus one-half (½)

percent for each additional full fifty cents ($0.50) by which such amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) percent of such amounts.

(For instance: the royalty on an amount of five dollars ($5.00) per ton would be one and one-half (1½) percent; on an amount of ten dollars ($10.00) per ton, three and one-half (3½) percent.)

(f) *Time for computation and payment.*—The Government's royalty shall be computed and paid currently upon each lot sold, held, or used in integrated operations, as the case may be, as above provided in this article.

(g) *Lien for payment.*—To secure the payment of its percentage royalty, there is hereby granted to the Government a lien upon the land or the Operator's interest in the land and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

(h) *Notice to purchasers.*—The Operator shall give notice of the Government's claim for royalty to any purchaser of the production, and shall authorize and direct such purchaser to pay the royalty directly to the Government and to furnish the Government with copies of the settlement sheets. If the records of any production and sales or other disposition of production, whether the production is by the Operator or by others, are not made available to the Government, the amount of the royalty may be estimated by the Administrator, Defense Minerals Exploration Administration, or his successor, and his estimate thereof shall be final and binding upon the Operator.

(i) *No obligation to produce.*—Nothing in this contract is to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any production operations.

(j) *Government not obligated to buy.*—Nothing in this contract shall be construed as imposing any obligation on the Government to purchase any minerals mined or produced from the land.

ARTICLE 9. *Interests in purchased property.*—(a) *Title and ownership.*—All costs under this contract shall be incurred by the Operator in the Operator's own name and for the Operator's own account; but any property acquired to the cost of which the Government contributes shall belong to the Operator and the Government jointly in proportion to their respective contributions, although title thereto shall be taken in the name of the Operator.

(b) *Preservation of property.*—Until the final disposal of any property in which the Government has an interest the Operator shall preserve and protect same for the best interest of the Government, any reasonable and necessary costs thereof to be treated as an allowable cost of the project. After the completion of the work or termination of the Government's obligation to contribute, or when such property is not in use for or needed for the work, the Operator shall neither use it without the written consent of the Government nor without paying a reasonable rental to be fixed by the Government for its interest.

(c) *Disposal of property.*—Upon the completion of the work or termination of the Government's obligation to contribute to costs, or when the property is no longer needed for the work, the Operator shall promptly dispose of salable or salvageable property in which the Government has an interest for the joint account of the Government and the Operator, either by return to the vendor, by sale to others, or purchase by the Operator or the Government at a price at least as high as could be obtained from others, unless the Government in writing waives its interest in any such property. Without advance approval of the sales price by the Government the Operator shall not sell at any price any item of property the cost of which was more than $500, and shall not sell at less than 25 percent of the purchase price any item of property which cost $500 or less. The Government, in lieu of approving the sales price for any such item, may itself purchase the item at the best price which the Operator is able to obtain or himself cares to give. Property remaining upon any termination of the work shall be considered in groups or categories (such as drill steel, or explosives, or pipe, or rails), and if the original cost of the remaining unexpended portion of any such group or category is less than $50, the Government waives its interest therein. If necessary to accomplish the disposal of any item the Operator shall dismantle and sever it from the land, the cost thereof to be treated as a cost of the project.

(d) *Default of the Operator re disposal.*—If within 90 days after the completion of the work or termination of the Government's obligation to contribute to costs, or after the property is no longer needed for the work, or after such further time as the Government may in writing allow, the Operator has failed to sell or otherwise liquidate or dispose of any property in which the Government has an interest, the Government, at any time prior to final settlement under the contract, may pursue one of the following two courses: (1) the Government, by written notice to the Operator, may place upon such property what in its opinion is a fair valuation thereof, not in excess of the cost less 1.66 percent per month from the

date such property was purchased under this contract to the termination of said 90-day period; and such property shall thereupon be considered and accounted for as having been purchased by the Operator at the valuation so fixed by the Government; or (2) the Government may enter and take possession of such property wherever it may be found, and remove and dispose of it for the joint account of the parties.

ARTICLE 10. *Termination of the Government's obligations.*—(a) If in the opinion of the Government operations at any time have failed to achieve anticipated results that indicate the probability of making a worthwhile discovery, and in the opinion of the Government further operations are not justified, the Government may give the Operator written notice thereof, and thereupon: (1) the Government shall be free of all obligation to contribute to costs not then incurred other than such as may be allowable under the provisions of the contract as necessary and incidental to winding up, reporting, and accounting; and (2) the Operator shall be free of all obligation to prosecute the work other than such as may be necessary and incidental to winding up, reporting, and accounting.

(b) If in the opinion of the Government the Operator is in any manner in default under the terms of the contract, the Government may give the Operator written notice of such default with a specification of reasonable time within which the default must be cured; and if the Operator fails to cure such default as required, thereupon: (1) the Government shall be relieved of all obligation to contribute to costs not incurred when the notice was given, other than such as may be allowable by the provisions of the contract as necessary and incidental to winding up, reporting, and accounting; and (2) the Operator shall be free of all obligation to prosecute the work other than such as may be necessary and incidental to winding up, reporting, and accounting. The remedy provided for the Government in this paragraph "(b)" is in addition to any other remedy provided in this contract, and in addition to any other remedy the law may provide for breach of contract.

(c) The giving of any notice by the Government under the provisions of this Article 10 shall not affect the Government's rights as provided for in the contract with respect to a percentage royalty, and such rights shall be fully preserved.

ARTICLE 11. *Notices to be given by the Government* may be delivered to the Operator, or may be sent by registered mail addressed to the Operator at his mailing address stated in this contract. If mailed, notices are deemed to have been delivered five days after the date of mailing.

ARTICLE 12. *Officials not to benefit.*—No member of or delegate to Congress or resident commissioner shall be admitted to any share or part of this contract or to any benefit that may arise therefrom; but this provision shall not be construed to extend to this contract if made with a corporation for its general benefit.

ARTICLE 13. *Changes and added provisions.*—

See Annex II attached hereto as a part hereof.

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

By C. Mitteendorf

Administrator, Defense Minerals Exploration Administration

THE NEW JERSEY ZINC COMPANY

(Operator)

By S. S. Goodwin

Title VICE PRESIDENT

I, Samuel Riker, Jr., certify that I am the ---------- secretary of the corporation named as Operator herein; that S. S. Goodwin who signed this contract on behalf of the Operator, was then Vice President of said corporation; that said contract was duly signed for and in behalf of said corporation by authority of its governing body, and is within the scope of its corporate powers.

Samuel Riker, Jr.

[CORPORATE SEAL]

U. S. GOVERNMENT PRINTING OFFICE 16—70617-1

EXPLORATION PROJECT CONTRACT
THE NEW JERSEY ZINC COMPANY
DOCKET NO. DMRA-4850

ANNEX I

The land referred to in Article 2 of the contract consists of various tracts of land, totaling approximately 1,069 acres, held by the Operator pursuant to "Contracts and Agreements," which permit it to engage in mineral exploration with the option to purchase all minerals and mining rights in and upon such tracts. Said land is shown outlined in blue color on the map (Fig. 2) entitled "The New Jersey Zinc Company, Copper Ridge Belt, Little War Creek, File No. AX-Tenn B-1309," attached to and made a part of this contract.

The various tracts of land are described in the agreements listed below. Copies of these agreements are contained in Docket No. DMRA-4850 and the descriptions contained in said agreements and the references therein are incorporated herein by reference.

All references to Deeds, Plats, and Will Books are to the official records of Hancock County, Tennessee.

1. Approximately 103 acres described in Contract and Agreement, dated May 11, 1956, between Easter V. Wolfe Collins and husband, Willie Collins, and The New Jersey Zinc Company, the term of which expires May 11, 1959.

2. Approximately 96 acres described in Contract and Agreement, dated March 22, 1956, between James Brewer and wife, Dolly Brewer, and The New Jersey Zinc Company, the term of which expires March 22, 1959. (This agreement also grants the right to purchase 30 acres of surface area.)

3. Approximately 100 acres described in Contract and Agreement, dated March 28, 1956, between H. C. Livesay and wife, Estella Livesay, and The New Jersey Zinc Company, the term of which expires March 28, 1959.

4. Approximately 135 acres described in Contract and Agreement, dated September 12, 1956, between Henry C. Bowlin and wife, Myrtle T. Bowlin, and The New Jersey Zinc Company, the term of which expires September 12, 1959. (This agreement also grants the right to purchase 10 acres of surface area together with a 50-foot right-of-way to the Clinch Valley Road.)

5. Approximately 100 acres described in Contract and Agreement, dated August 31, 1956, between W. M. Brewer and wife, Tener Brewer, and The New Jersey Zinc Company, the term of which expires August 31, 1959.

6. Approximately 92 acres in two tracts described in Contract and Agreement, dated April 10, 1957, between Dudley Dalton and wife, Lola Dalton, and The New Jersey Zinc Company, the term of which expires April 10, 1962.

7. Approximately 240 acres described in Contract and Agreement, dated April 10, 1957, between John Barnard (widower) and The New Jersey Zinc Company, the term of which expires April 10, 1962.

8. Approximately 20 acres described in Contract and Agreement, dated July 18, 1957, between Mack Tunmire et al., and The New Jersey Zinc Company, the term of which expires July 18, 1960. For title reference see Deed Book "CC," pages 481-482.

9. Approximately 30 acres in two tracts, described in Contract and Agreement, dated August 12, 1957, between Mack Tunmire et al., and The New Jersey Zinc Company, the term of which expires August 12, 1960. (This agreement also grants the right to purchase the surface area of 20 acres.)

10. Approximately 17 acres described in Contract and Agreement, dated August 21, 1957, between Willis Tunmire and wife, Pearl Tunmire, and The New Jersey Zinc Company, the term of which expires August 21, 1960.

11. Approximately 136 acres in two tracts described in Contract and Agreement, dated September 30, 1957, between Lewis Tunmire and wife, Maggie Tunmire, and The New Jersey Zinc Company, the term of which expires September 30, 1959.

SPECIAL AGREEMENT CONCERNING LAND

1. In the event the Operator or any subsidiary thereof (whether wholly owned or otherwise), at any time during the period expiring ten years from the date of this contract acquires any interest, title, or equity (exclusive of agreements granting ~~only~~ the rights to explore, purchase, or acquire leases) in or with respect to any land, including minerals therein, situate within 1500 feet of the land described in this contract, at the contract date and the right to make such acquisition postdates this contract, it is agreed that such land shall thereupon become subject to the provisions of this contract, and the

parties hereto shall promptly execute amendments to this contract listing such land as land included in this contract.

2. It is further agreed that the Operator may, at any time prior to furnishing the Government with the final report, request the Government to delete from this contract such land listed in this Annex I, or in any amendments thereto, as has no known value for mineral production. The Government will, if it concurs that the land has no known value for mineral production, promptly prepare amendments removing the specified land from the contract, which amendments shall provide that the Operator:

(a) certifies the land has no known value for mineral production; and

(b) agrees that if the Operator or any subsidiary thereof (whether wholly owned or otherwise) acquires or reacquires any interest, title, or equity (exclusive of agreements granting ~~only~~ rights to explore, purchase, or acquire leases) in such land or any minerals produced therefrom or derives any benefit therefrom, before the expiration of thirty years from the date of this contract, such land shall be deemed subject to this contract and any certification until the expiration of thirty years from the date of this contract, or until the total net amount contributed by the Government without interest is fully repaid, whichever occurs first.

EXPLORATION PROJECT CONTRACT
THE NEW JERSEY ZINC COMPANY
DOCKET NO. DMEA-4850

ANNEX II

Article 13. Changes and Added Provisions--

1. In Article 3, the words following the reference to Article 10 are deleted, and the following words are substituted: "shall have completed the work."

2. In Article 6(a), that part of the last sentence in the first paragraph beginning after the semicolon is deleted.

3. Categories (2) through (6) of Article 6(a) are deleted.

4. In Article 6(c), the words "Article 9" are changed to "Article 8."

5. In Article 8(b): (1) the word "minerals" includes limestone and dolomite products produced in processing ore; and (2) the words "ten years" are changed to "thirty years."

6. The following clause is added to Article 8(c):

> Provided, however, That so long as the Operator operates smelting facilities as an integrated part of its business, the settlement made by the Operator's smelter to its mine or mill on the ore or concentrates subject to the Government's royalty shall be, for the purpose of calculating the royalty payable to the Government under this contract, on the same settlement basis that the said smelter makes to its independent suppliers under the schedule most favorable to any independent supplier, or should gross income from mining operations for percentage depletion purposes in Federal income tax determination show a greater value for ore or concentrate sales than that value which would result from applying the smelter schedule most favorable to an independent supplier, the greater value will be used as the basis for calculating royalty payable to the Government.

7. In addition to the costs of work estimated in Exhibit "A" by categories of actual costs, the costs of work requirements specified in Exhibit "A" as "Fixed Unit Costs" are allowable costs of the project. The Government will contribute to the fixed unit costs as work units are performed. A "Fixed Unit Cost" is an agreed price for each unit of work to be performed regardless of costs incurred by the Operator. Costs set forth in Exhibit "A" include all allowable costs of the work to be performed under the contract.

8. Notwithstanding any other provisions of the contract, the allowable unit cost per foot of a drilling item is the average unit cost per foot computed on the basis of all the actual unit costs of said drilling item incurred by the Operator: Provided, That the Government will not contribute to any portion of an average unit cost of a drilling item that exceeds the estimated unit cost of said item set forth in the contract.

Audit copy

EXPLORATION PROJECT CONTRACT
THE NEW JERSEY ZINC COMPANY
DOCKET NO. DMEA-4850

EXHIBIT "A"

Description of the Work

1. The purpose of the project is to explore for ores of zinc by diamond drilling (and such churn drilling of overburden as may be required). Zinc ores in the Copper Ridge Belt occur in the Kingsport dolomites and limestones of the Knox group. In the area in which the project work is to be performed, the only known outcropping of zinc mineralization is exposed along the southwest side of Little War Creek where it cuts the Kingsport formation in the gap through Copper Ridge. The dip of the Kingsport in this area ranges from 35° to 40° to the southeast. The zinc ore zones are commonly elongated at a small angle to the regional strike, however, ore bodies have been found with the long axis of the ore zone at a high angle or even normal to the strike.

2. A series of widely spaced dip and strike fences shall be drilled, with holes spaced at between 100-and 300-foot intervals on the fences.

3. The space intervals between the various fences shall not be less than 400 feet, except with prior approval of the Government.

4. Drilling shall not be done at locations closer than 200 feet from property lines.

5. It is estimated that approximately 47 holes will be required, having an average depth of between 700 and 800 feet, with a maximum depth for any hole of approximately 1,500 feet. Not more than 35,000 feet of drilling shall be performed.

6. The tentative locations of the initial holes are shown on the attached map, but the actual locations, directions, inclinations, and depths of all holes are subject to prior Government approval.

7. All diamond drilling shall be with AX, or larger, size coring bits, except that when it is not feasible to complete a hole with AX size, with Government approval, the hole may be reduced with EX casing and completed with EX size bits. Drill holes shall be reamed and cased or cemented and redrilled as necessary.

The Government will not contribute to the cost of drilling any hole which is not completed.

8. All drill holes shall be logged and all drill core shall be made available to the Government for examination. All significantly mineralized core shall be split and one half thereof shall be properly sampled and the samples assayed for zinc. The remaining half of all significantly mineralized core samples shall be furnished to the Government upon request.

9. All assays shall be reported monthly to the Government, together with the logs of the drill holes and proper plan maps and sections showing the progress of the work and the sample locations.

10. All work of drilling and sample preparation shall be properly supervised by competent engineers and geologists.

Estimated Cost of the Project

Actual Costs

Category (1) Independent Contracts (See Annex II.)

Overburden drilling and diamond drilling to 1,000-foot depth		
BX size, 1,000 feet @ $3.05/ft.	$ 3,050.00	
AX size, 29,000 feet @ $2.75/ft.	79,750.00	
EX size, @ $2.50/ft.	- - - -	
Diamond drilling in excess of 1,000-foot depth		
AX size, 5,000 feet @ $3.00/ft.	15,000.00	
EX size, @ $2.75/ft.	- - - -	$97,800.00

The above rates include charges for reaming, cementing, water supply, casing, changing of locations, and all other charges by the diamond drill contractor.

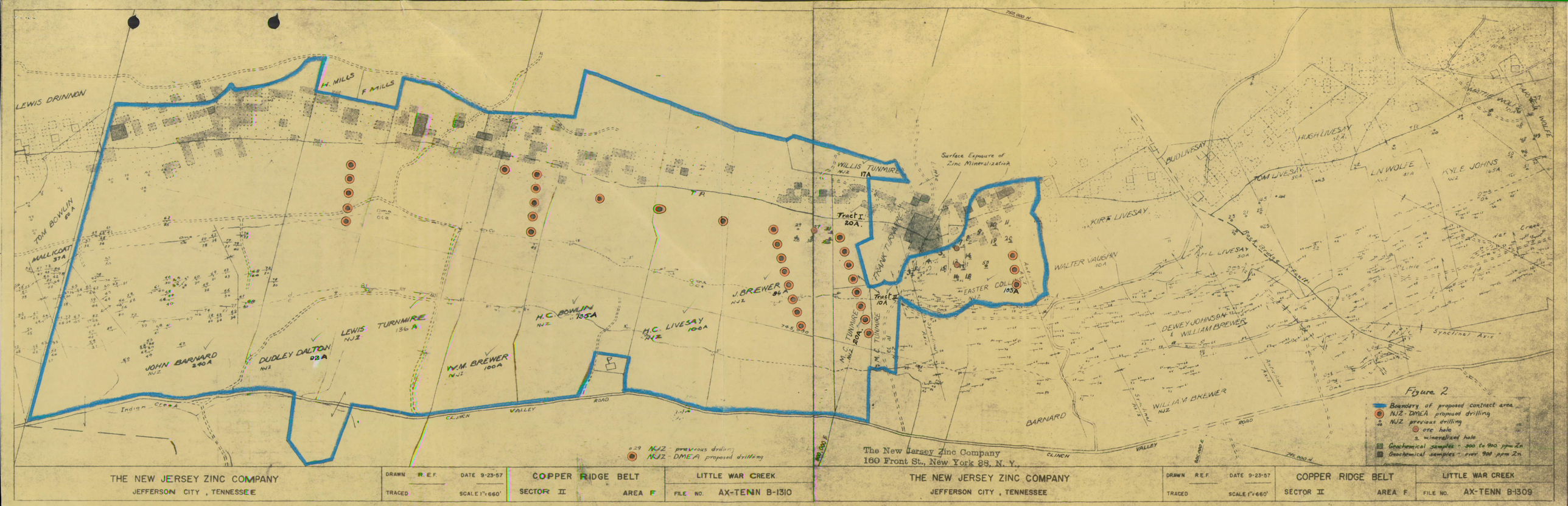
Neither the cost nor the value of the casing left in drill holes at the option of the Operator will be accepted as a charge to the contract.

Categories (2) through (6) None

Category (7) Miscellaneous None except:		
200 samples assayed @ $1.00*/each sample	$ 200.00	
Core boxes - 600 @ $1.80*/each box	1,080.00	$ 1,280.00
Fixed Unit Costs (See Annex II.)		
Incidental allowance 1/ for each foot of drilling completed, 35,000 feet @ $0.22/ft.		7,700.00
Estimated Total Cost of the Project		$106,780.00
Government Participation @ 50%		$ 53,390.00

*In addition to the maximum fixed in the contract form, an asterisk indicates maximum.

1/ Includes all costs that might be allowable costs of the project under categories (1) through (7) of Article 6(a) except as otherwise scheduled in Exhibit "A".


LEWIS DRINNON
H. MILLS
F. MILLS
TOM BOWLIN 60A
MALLICOAT 37A
JOHN BARNARD 240A NJZ
DUDLEY DALTON 92A NJZ
LEWIS TURNMIRE 136A NJZ
WM. BREWER 100A NJZ
H.C. BOWLIN 135A NJZ
H.C. LIVESAY 100A NJZ
J. BREWER 96A NJZ
Indian Creek
CLINCH VALLEY ROAD
TR
WILLIS TUNMIRE NJZ 17A
Tract I. 20A.
FRANK TUNMIRE
Tract II 10A
M.C. TUNMIRE NJZ 20A
J.M.C. TUNMIRE
Surface Exposure of Zinc Mineralization
EASTER COLLINS 105A NJZ
WALTER VAUGHN 10A
KIRK LIVESAY
BUD LIVESAY
TOM LIVESAY 50A
HUGH LIVESAY 35A
L.N. WOLFE 41A NJZ
KYLE JOHNS 165A NJZ
A.L. LIVESAY 50A
DEWEY JOHNSON & WILLIAM BREWER
WILLIAM BREWER NJZ
BARNARD
Syncline Axis
Anticline Axis
Fault Breaks
Creek
29 NJZ previous drilling
NJZ - DMEA proposed drilling
Figure 2
Boundary of proposed contract area
NJZ - DMEA proposed drilling
NJZ previous drilling
ore hole
mineralized hole
Geochemical samples - 300 to 900 ppm Zn
Geochemical samples - over 900 ppm Zn
The New Jersey Zinc Company
160 Front St., New York 38, N. Y.
THE NEW JERSEY ZINC COMPANY
JEFFERSON CITY, TENNESSEE
DRAWN R.E.F. DATE 9-23-57
TRACED SCALE 1"=660'
COPPER RIDGE BELT
SECTOR II AREA F
LITTLE WAR CREEK
FILE NO. AX-TENN B-1310
THE NEW JERSEY ZINC COMPANY
JEFFERSON CITY, TENNESSEE
DRAWN R.E.F. DATE 9-23-57
TRACED SCALE 1"=660'
COPPER RIDGE BELT
SECTOR II AREA F
LITTLE WAR CREEK
FILE NO. AX-TENN B-1309

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RECEIVED DEC 20 1957

DATE	INITIALS	CODE

DMEA Form 14

Contract No. Idm-E 1174

Docket No. 4850

DEPARTMENT OF THE INTERIOR

Approved contract

DEFENSE MINERALS EXPLORATION ADMINISTRATION

Obligation Document

TO: Chief, Finance Section, Budget and Finance Branch, Bureau of Mines

Please make the following entry on the records of the Defense Minerals Exploration Administration under the Strategic and Critical Minerals Exploration Program.

Date of Contract	Region	State	Commodity
February 26, 1958	**V**	**Tennessee**	**Zinc**

Name and Address of Operator: **The New Jersey Zinc Co.**
160 Front Street
New York 38, New York

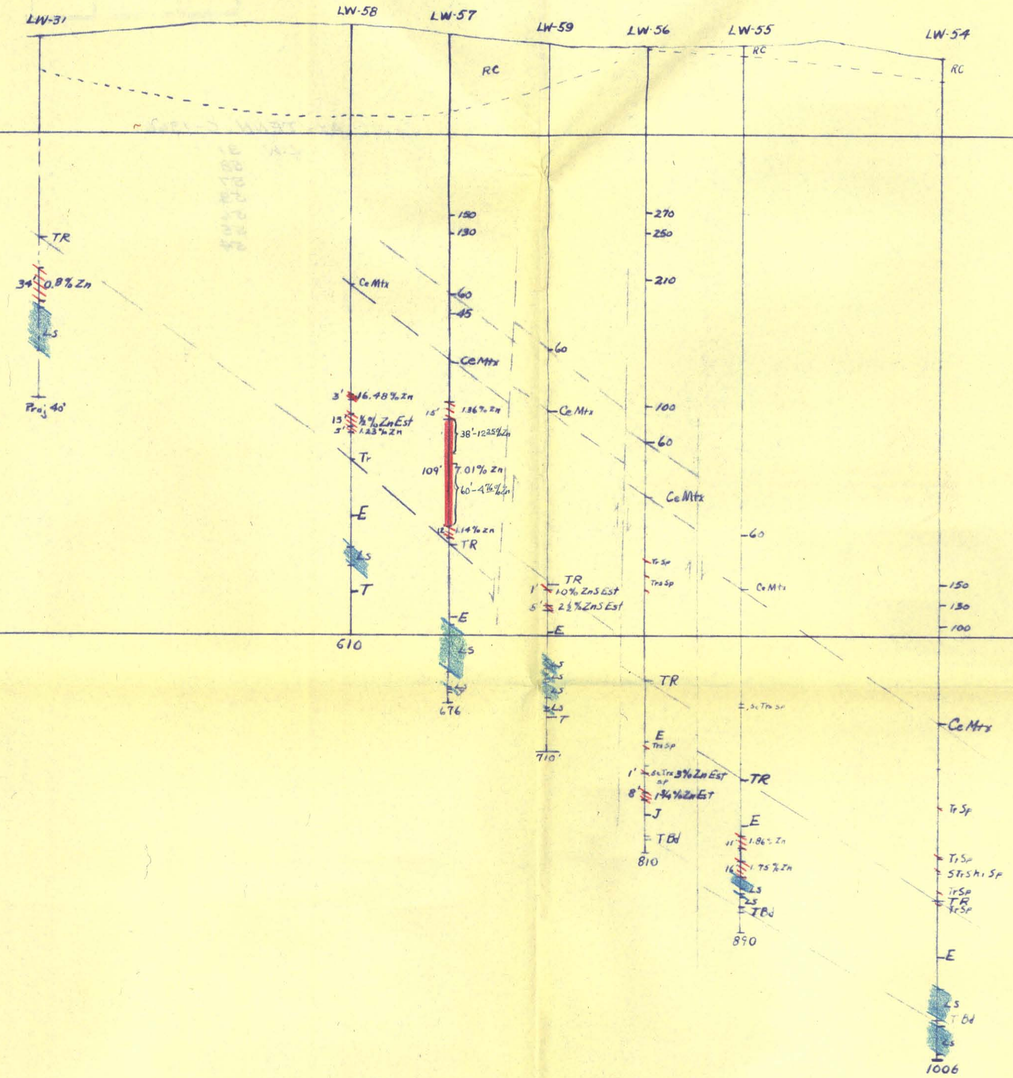
	Reserve	Obligation
Prior Amount	0	0
Increase	53,390.00	0
Decrease	0	0
Revised Amount	53,390.00	0

Remarks:

(Name)
Allen S. Dakan, Chief
Operations Control and
Statistics Division
(Title)

Date delivered to Bureau of Mines, Washington 2/28/58

22845



	DATE ISSUED	REFERENCE DRAWINGS	REVISIONS	THE NEW JERSEY ZINC COMPANY	DRAWN EWR	DIP SECTION LW 54,55,56,57,58,59	DATE 5-22-58
				JEFFERSON CITY, TENNESSEE	TRACED	SECTOR II AREA F	SCALE 1" = 100'
					CHECKED	COPPER RIDGE BELT	AX TENN C-1366
					APPROVED		

AWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE
XCEPT IN CONNECTION WITH OUR WORK. ALL RIGHTS OF DESIGN
VENTION ARE RESERVED. THIS DRAWING MUST BE RETURNED TO
W JERSEY ZINC COMPANY.

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RECEIVED JUL 23 1958

DATE	INITIALS	CODE

AX-TENN C-1366
L.W. 31
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DATE	INITIALS	CODE