United States Department of the Interior
GEOLOGICAL SURVEY
BOX 25046 M.S. 933
DENVER FEDERAL CENTER
DENVER, COLORADO 80225

May 9, 1983

Re: DMEA 4119 (zinc)
New Jersey Zinc Company
Morristown Sector, Talbott Area
Jefferson and Hamblin Counties,
Tennessee - Contract Idm E-936

Mr. Frederic H. Main
Vice President, Mining
G & W Resources Group
One Commerce Place
Nashville, Tennessee 37239

Dear Mr. Main:

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 April 26, 1982, 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 or held in the land once covered by this contract, as amended, or production therefrom including limestone or dolomite? (Please see para. 4 of the Termination Agreement dated April 19, 1957.) If yes, please state details of the transaction on a separate sheet and provide a true or signed copy of the pertinent documents unless they have been provided before.

2. Since April 26, 1982, 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 April 26, 1982, 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 William T Hill

Title V.P. Exploration

Address Natural Resources Group, Ltd
One Commerce Pl.
Nashville, TN. 37329

Date 5/16/83

Sent 4/7

United States Department of the Interior

GEOLOGICAL SURVEY
RESTON, VIRGINIA 22092

IN REPLY REFER TO: Office of Minerals Exploration
Mail Stop 953

March 30, 1978

Re: DMEA-4119 (Zinc)
New Jersey Zinc Company
Morristown Sector
Talbott area
Jefferson & Hamblen Counties,
Tennessee
Contract Idm-E936

Mr. K. R. Winslow
Vice President and
General Manager - Mining
The New Jersey Zinc Company
65 E. Elizabeth Road
Bethlehem, Pennsylvania 18018

Dear Mr. Winslow:

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

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

Sincerely yours,

Harold Kirkemo

Harold Kirkemo, Chief
Office of Minerals Exploration

Form MME 63
(May 1970)

REQUEST FOR INFORMATION ON CERTIFIED PROJECT OR PROJECT UNDER ROYALTY AGREEMENT

1. Since March 28, 1975 ~~, has there been any change of ownership or control of the lessee?~~ Yes ☐ No ☒
~~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.~~

has any interest been reacquired or held in the land once covered by this contract, as amended, or production therefrom including limestone and dolomite? (Please see paragraph 4 of the Termination Agreement dated April 19, 1957).

2. Since March 28, 1975, 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 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 K R Winslow	*Title* Executive Vice President - Mining
Address P. O. Box 32 Jefferson City, Tennessee 37760	*Date* April 5, 1978

United States Department of the Interior

GEOLOGICAL SURVEY
RESTON, VIRGINIA 22092

IN REPLY REFER TO: Office of Minerals Exploration March 25, 1975

Re: DMEA 4119 (Zinc)
New Jersey Zinc Company
Morristown Sector
Talbott area
Jefferson & Hamblen Counties,
Tennessee
Contract Idm-E936

Mr. K. R. Winslow
Manager of Mines
The New Jersey Zinc Company
Jefferson City, Tennessee 37760

Dear Mr. Winslow:

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

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

Sincerely yours,

Harold Kirkemo

Harold Kirkemo, Chief
Office of Minerals Exploration

OFFICIAL
COPY
O. M. E.
RECEIVED
APR 3 1975

INITIALS	CODE
HK	

Form MME 63
(May 1970)

REQUEST FOR INFORMATION ON CERTIFIED PROJECT
OR PROJECT UNDER ROYALTY AGREEMENT

1. Since April 2, 1973 ~~, has there been a change in ownership, lease, or sublease? If yes, please state details of the transaction below and provide a true and signed copy of the pertinent documents, unless they have been provided before.~~ Yes ☐ No ☒

has any interest been reacquired or held in the land once covered by this contract, as amended, or production therefrom including limestone and dolomite? (Please see paragraph 4 of the Termination Agreement dated April 19, 1957).

2. Since , 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 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*
K R Wunlaw	Vice President & Gen'l Mgr-Mining
Address	*Date*
Jefferson City Tenn	8/28/75

United States Department of the Interior

GEOLOGICAL SURVEY
WASHINGTON, D.C. 20242

IN REPLY REFER TO: Office of Minerals Exploration

March 30, 1973

Re:

DMEA 4119 (Zinc)
New Jersey Zinc Company
Morristown Sector
Talbott area
Jefferson & Hamblen Counties
Tennessee
Contract Idm-E936

Mr. K. R. Winslow
~~Divisional~~ Manager of Mines
The New Jersey Zinc Company
Jefferson City, Tennessee 37760

OFFICIAL COPY
O. M. E.
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APR 9 1973
INITIALS | CODE
Cac | 120 M
HK | ~~120~~

Dear Mr. Winslow:

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

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

Sincerely yours,

Harold Kirkemo

Harold Kirkemo
Chief, Office of
Minerals Exploration

Copy to R-IV

Form MME 63
(May 1970)

REQUEST FOR INFORMATION ON CERTIFIED PROJECT
OR PROJECT UNDER ROYALTY AGREEMENT

1. Since April 7, 1972 [redacted] Yes ☐ No ☑
[redacted]
has any interest been reacquired or held in the land once covered by this contract, as amended, or production therefrom including limestone and dolomite? (Please see paragraph 4 of the Termination Agreement dated April 19, 1957.) Yes ☐ No ☑

2. Since , 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 , 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 K. R. Winslow K R Winslow	*Title* Manager of Mines
Address The New Jersey Zinc Company Jefferson City, Tennessee	*Date* April 2, 1973

United States Department of the Interior

GEOLOGICAL SURVEY
WASHINGTON, D.C. 20242

IN REPLY REFER TO: Office of Minerals Exploration

March 30, 1972

OFFICIAL COPY
U. E.
RECEIVED
APR 10 1972
CODE
gla 1/30
HK 1/20
220

Mr. K. R. Winslow
Divisional Manager of Mines
The New Jersey Zinc Company
Jefferson City, Tennessee 37760

Re: DMEA-4119 (Zinc)
New Jersey Zinc Company
Morristown Sector
Talbott area
Jefferson & Hamblen Counties,
Tennessee
Contract Idm-E936

Dear Mr. Winslow:

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

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

Sincerely yours,

Harold Kirkemo

Harold Kirkemo
Chief, Office of
Minerals Exploration

Copy sent to R-IV

Form MME 63
(May 1970)

REQUEST FOR INFORMATION ON CERTIFIED PROJECT OR PROJECT UNDER ROYALTY AGREEMENT

1. Since April 5, 1971 , ~~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.~~ has any interest been reacquired or held in the land once covered by this contract, as amended, or production therefrom including limestone and dolomite? (Please see paragraph 4 of the Termination Agreement dated April 19, 1957.) Yes ☐ No ☒

2. Since , 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 , 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*
K. R. Winslow K R Winslow	Manager of Mines
Address P. O. Box 32 Jefferson City, Tennessee	*Date* April 7, 1972

United States Department of the Interior

GEOLOGICAL SURVEY
WASHINGTON, D.C. 20242

IN REPLY REFER TO: Office of Minerals Exploration

March 30, 1971

Mr. K. R. Winslow
Divisional Manager of Mines
The New Jersey Zinc Company
Jefferson City, Tennessee 37760

Re: DMEA-4119 (Zinc)
New Jersey Zinc Company
Morristown Sector
Talbott Area
Jefferson & Hamblen Counties, Tennessee
Contract Idm-E936

OFFICIAL COPY
O. M. E.
RECEIVED
APR 8 1971
INITIALS | CODE
Gla | 30
HK | 20
| 22c

Dear Mr. Winslow:

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

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

Sincerely yours,

Harold Kirkemo

Harold Kirkemo
Chief, Office of
Minerals Exploration

Copy to R-IV

Form MME 63
(May 1970)

REQUEST FOR INFORMATION ON CERTIFIED PROJECT OR PROJECT UNDER ROYALTY AGREEMENT

1. Since April 6, 1970, [redacted] Yes ☐ No ☒
has any interest been reacquired or held in the land once covered by this contract, as amended, or production therefrom including limestone and dolomite? (Please see paragraph 4 of the Termination Agreement dated April 19, 1957.)

2. Since , 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 , 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 K. R. Winslow	*Title* Manager of Mines
Address P. O. Box 32 Jefferson City, Tennessee	*Date* April 5, 1971

IN REPLY REFER TO:
Office of Minerals Exploration

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

March 30, 1970

Mr. K. R. Winslow
Divisional Manager of Mines
The New Jersey Zinc Company
Jefferson City, Tennessee 37760

Re: DMEA-4119 (Zinc)
New Jersey Zinc Company
Morristown Sector
Talbott Area
Jefferson & Hamblen Counties,
Tennessee
Contract Idm-E936

O. A. E.
RECEIVED
APR 10 1970

INITIALS	CODE
gla	130
HK	120
	120

Copy to R-IV

Dear Mr. Winslow:

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

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

Sincerely yours,

Harold Kirkemo

Harold Kirkemo
Chief, Office of
Minerals Exploration

MME Form 63
Revised 7-65

REQUEST FOR INFORMATION ON CERTIFIED PROJECT AND PROJECT UNDER ROYALTY AGREEMENT

1. Since April 9, 1969 , ~~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~~ has any interest been reacquired or held in the land once covered by this contract, as amended, or production therefrom including limestone and dolomite? (Please see paragraph 4 of the Termination Agreement dated April 19, 1957.) Yes ☐ No ☑

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

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

	Quantity	Value

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

Type	Quantity		Estimated Grade	Location
Ore		Tons		
Concentrates		Tons		
Other		Tons		

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

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

Disposition of Material	Quantity	Value

Submitted by: K R Winslow

Name K. R. Winslow Title Divisional Manager of Mines

Address Jefferson City, Tenn. Date April 6, 1970

Excerpt from Robert A. Laurence's memorandum to Harold Kirkemo, Chief, Office of Minerals Exploration, dated August 7, 1969.

Copy of the Form MME-63, addressed to Johnson Crawford, New Jersey Zinc Company . . . has been received.

Mr. Crawford is retiring in a few months, and is currently convalescing from a severe illness. He has been succeeded at Jefferson City by K. R. Winslow, whose title is Division Manager of Mines. All correspondence concerning DMEA contracts with New Jersey Zinc Company in Tennessee should now be addressed to Mr. Winslow.

DMEA-4119

IN REPLY REFER TO:
Office of Minerals Exploration

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

March 20, 1969

Mr. Johnson Crawford
Manager - Tennessee Operations
The New Jersey Zinc Company
Jefferson City, Tennessee 37760

Re: DMEA-4119 (Zinc)
New Jersey Zinc Company
Morristown Sector
Talbott Area
Jefferson & Hamblen Counties, Tennessee
Contract Idm-E936

Dear Mr. Crawford:

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

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

Sincerely yours,

Harold Kirkemo

Harold Kirkemo
ACTING Chief, Office of
Minerals Exploration

Copy to R-IV

OFFICIAL COPY
O. M. E.
RECEIVED
APR 11 1969

INITIALS	CODE
gla	130
HK	120
	220

MME Form 63
Revised 7-65

REQUEST FOR INFORMATION ON CERTIFIED PROJECT AND PROJECT UNDER ROYALTY AGREEMENT

1. Since April 11, 1968, ~~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.~~ has any interest been reacquired or held in the land once covered by this contract, as amended, or production therefrom including limestone and dolomite? (Please see paragraph 4 of the Termination Agreement dated April 19, 1957.) Yes ☐ No ☑

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

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

	Quantity	Value

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

Type	Quantity		Estimated Grade	Location
Ore		Tons		
Concentrates		Tons		
Other		Tons		

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

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

Disposition of Material	Quantity	Value

Submitted by:

Name Johnson Crawford Title Manager - Tennessee Operation The New Jersey Zinc Company

Address Jefferson City, Tennessee Date April 9, 1969

IN REPLY REFER TO:
Office of Minerals Exploration

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

March 28, 1968

Mr. Johnson Crawford
Manager - Tennessee Operations
The New Jersey Zinc Company
Jefferson City, Tennessee 37760

Re: DMEA-4119 (Zinc)
New Jersey Zinc Company
Morristown Sector
Talbott Area
Jefferson & Hamblen Counties,
Tennessee
Contract Idm-E936

OFFICIAL COPY
O. M. E.
RECEIVED
APR 15 1968

INITIALS	CODE
	130
	110
	130
	220

Dear Mr. Crawford:

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

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

Sincerely yours,

Frank E. Johnson

Frank E. Johnson
Chief, Office of
Minerals Exploration

Copy to R-IV

MME Form 63
Revised 7-65

REQUEST FOR INFORMATION ON CERTIFIED PROJECT AND PROJECT UNDER ROYALTY AGREEMENT

1. Since March 1967, ~~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.~~ has any interest been reacquired or held in the land once covered by this contract, as amended, or production therefrom, including limestone and dolomite? (Please see paragraph 4 of the Termination Agreement dated April 19, 1957.) Yes ☐ No ☒

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

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

	Quantity	Value

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

Type	Quantity		Estimated Grade	Location
Ore		Tons		
Concentrates		Tons		
Other		Tons		

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

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

Disposition of Material	Quantity	Value

Submitted by:

Name Johnson Crawford Title Manager - Tennessee Operations The New Jersey Zinc Company

Address Jefferson City, Tennessee Date April 11, 1968

IN REPLY REFER TO:
Office of Minerals Exploration

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

March 20, 1967

The New Jersey Zinc Company

Jefferson City, Tennessee 37760

Re: DMEA-4119 (Zinc)
New Jersey Zinc Company
Morristown Sector
Talbott Area
Jefferson & Hamblen Counties,
Tennessee
Contract Idm-E936

Gentlemen:

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

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

Sincerely yours,

FRANK E. JOHNSON

Frank E. Johnson
Chief, Office of
Minerals Exploration

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APR 8
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JSA ~~110~~
HK ~~120K~~
~~30~~

MME Form 63
Revised 7-65

REQUEST FOR INFORMATION ON CERTIFIED PROJECT
AND PROJECT UNDER ROYALTY AGREEMENT

1. Since April 1966, [redacted] **has any interest been reacquired or held in the land once covered by this contract, as amended, or production therefrom including limestone and dolomite? (Please see paragraph 4 of the Termination Agreement dated April 19, 1957).** Yes ☐ No ☑

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

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

	Quantity	Value
_____		
_____	_____	_____

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

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

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

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

Disposition of Material	Quantity	Value
_____	_____	_____

Submitted by:

Name Johnson Crawford Title Manager - Tennessee Operations

Address Jefferson City, Tennessee Date March 27, 1967

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

GEOLOGICAL SURVEY

OFFICIAL COPY
C. Y. E.
RECEIVED
APR 18 1966

APR 12 1966

Mr. Johnson Crawford
Manager - Tennessee Operations
The New Jersey Zinc Company
Jefferson City, Tennessee

Re: DMEA-4119 (Zinc)
New Jersey Zinc Company
Morristown Sector
Talbott Area
Jefferson & Hamblen Counties, Tennessee
Contract Idm-E936

Dear Mr. Crawford:

Thank you for completing and returning our Form 63's on various New Jersey Zinc Company projects.

We are returning the Form 63, in duplicate, on the subject property as question No. 1 has not been answered. Will you please check the appropriate box and return the forms to us.

Sincerely yours,

Frank E. Johnson

Frank E. Johnson
Chief, Office of
Minerals Exploration

Enclosures

Mr Johnson:
My failure to check the above question No. 1 was an oversight,

Johnson Crawford

4/14/66

IN REPLY REFER TO:

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

April 1, 1966

OFFICIAL COPY
O. M. E.
RECEIVED
APR 11 1966
INITIALS
4/14/66 110
110
120
120
220

Re: DMEA-4119 (Zinc)
New Jersey Zinc Company
Morristown Sector
Talbott Area
Jefferson & Hamblen Counties
Tennessee
Contract Idm-E936

The New Jersey Zinc Company

Jefferson City, Tennessee

Gentlemen:

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

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

Sincerely yours,

FRANK E. JOHNSON

Frank E. Johnson
Chief, Office of
Minerals Exploration

MME Form 63
Revised 7-65

DMEA-4119
Idm-Z936

REQUEST FOR INFORMATION ON CERTIFIED PROJECT
AND PROJECT UNDER ROYALTY AGREEMENT

1. Since **April 1965**, **has any interest been reacquired or held in** [redacted] Yes ☐ No ☑
the land once covered by this contract, as amended, or production therefrom including limestone and dolomite. (Please see paragraph 4 of the Termination Agreement dated April 19, 1957)

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

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

	Quantity	Value

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

Type	Quantity		Estimated Grade	Location
Ore		Tons		
Concentrates		Tons		
Other		Tons		

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

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

Disposition of Material	Quantity	Value

Submitted by:

Name Johnson Crawford Title Manager - Tennessee Operations
The New Jersey Zinc Co.

Address Jefferson City, Tennessee Date April 7, 1966

OFFICIAL COPY
O. M. E.
RECEIVED
APR 30 1965
INITIALS CODE

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

April 15, 1965

The New Jersey Zinc Company

Jefferson City, Tennessee

Re: DMEA-4119 (Zinc)
New Jersey Zinc Company
Morristown Sector
Talbott Area
Jefferson & Hamblen Counties,
Tennessee
Contract Idm-E936

Gentlemen:

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

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

Sincerely yours,

George C. Selfridge

George C. Selfridge, Chief
Division of Exploration Operations

MME Form 63
Revised 3-62

DMEA-4119
Idm-E936

REQUEST FOR INFORMATION ON CERTIFIED PROJECT AND PROJECT UNDER ROYALTY AGREEMENT

1. Since , 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 ☐

   Since December 1963, has any interest been held or reacquired in the land described in the contract or production therefrom (see paragraph 4 of the Termination Agreement dated April 19, 1957). Yes ☐ No ☑

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

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

	Quantity	Value

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

Type	Quantity		Estimated Grade	Location
Ore		Tons		
Concentrates		Tons		
Other		Tons		

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

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

Disposition of Material	Quantity	Value

Submitted by:

Name [illegible] Title Chief Geologist

Address Jefferson City, Tenn. Date 4/29/65

4511

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

November 14, 1963

Re: DMEA-4119 (Zinc)
New Jersey Zinc Company
Morristown Sector
Talbott Area
Jefferson & Hamblen Counties,
Tennessee
Contract Idm-E936

The New Jersey Zinc Company

Jefferson City, Tennessee

Gentlemen:

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

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

Sincerely yours,

s/F. M. Murphy

F. M. Murphy, Acting Chief
Division of Minerals

OFFICIAL FILE COPY
O M E
RECEIVED DEC 20 1963

DATE	INITIALS	CODE
12/4	[illegible]	

MME Form 63
Revised 3-62

REQUEST FOR INFORMATION ON CERTIFIED PROJECT AND PROJECT UNDER ROYALTY AGREEMENT

1. Since August 14, 1962, has there been a change in ownership, lease, or sublease? If yes, please state details of the transaction below and provide a true or signed copy of the pertinent documents, unless they have been provided before. Yes ☐ No ☒

2. Since August 14, 1962, has there been any production from the land subject to the contract? Yes ☐ No ☒

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

	Quantity	Value

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

Type	Quantity		Estimated Grade	Location
Ore		Tons		
Concentrates		Tons		
Other		Tons		

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

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

Disposition of Material	Quantity	Value

Submitted by:

Name [signature] Title Chief Geologist-Tennessee

Address Jefferson City, Tennessee Date December 2, 1963

4511

THE NEW JERSEY ZINC COMPANY

(ESTABLISHED 1848)

Telephone
JEFFERSON CITY
475-2052

JEFFERSON CITY, TENNESSEE

HORSE HEAD PRODUCTS ®

August 14, 1962

OFFICIAL FILE COPY
O. M. E.
RECEIVED AUG 16 1962

DATE	INITIALS	CODE
8/17	[illegible]	800
8/17	[illegible]	120 (46)
8-20	[illegible]	100
8/21	[illegible]	110
	Answered	500
		220

Mr. W. R. Griswold, Chief
Division of Minerals
Office of Mineral Exploration
United States Department of Interior
Washington 25, D. C.

Dear Mr. Griswold:

4119

Enclosed, herewith, are the data you requested in yours of August 10, 1962 relative to the following:

DMEA 4153 (Zinc)
Independence & Lawson Areas
Idm-E950

DMEA 4177 (Zinc)
Eidson Area
Idm-E956

DMEA 4126 (Zinc)
Strawberry Plains Area
Idm-E937

DMEA 4119 (Zinc)
Talbott Area
Idm-E936.

Yours very truly,

THE NEW JERSEY ZINC COMPANY

Johnson Crawford

Assistant Manager of Mines

A.D.Hoagland/jf

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

August 10, 1962

Re: DMEA-4119 (Zinc)
The New Jersey Zinc Co.
Morristown Sector-
Talbott Area
Jefferson & Hamblen
Counties, Tennessee
Contract Idm-E936

The New Jersey Zinc Company

Jefferson City, Tennessee

Gentlemen:

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

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

Sincerely yours,

W. R. Griswold

W. R. Griswold, Chief
Division of Minerals

OFFICIAL FILE COPY
O. M. E.
RECEIVED AUG 16 1962

DATE	INITIALS	CODE
8/17	[illegible]	800
8-20	[illegible]	120
		100
8/21	[illegible]	110
		500
		220

MME Form 63
Revised 3-62

REQUEST FOR INFORMATION ON CERTIFIED PROJECT AND PROJECT UNDER ROYALTY AGREEMENT

1. Since **July 1, 1960**, has there been a change in ownership, lease, or sublease? If yes, please state details of the transaction below and provide a true or signed copy of the pertinent documents, unless they have been provided before. Yes [x] No [ ]

See attached sheets

2. Since **July 1, 1960**, has there been any production from the land subject to the contract? Yes [ ] No [x]

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

	Quantity	Value

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

Type	Quantity	Estimated Grade	Location
Ore	Tons		
Concentrates	Tons		
Other	Tons		

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

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

Disposition of Material	Quantity	Value

Submitted by:

Name A. D. Hoagland Title Chief Geologist

Address Jefferson City, Tennessee Date August 14, 1962

4511

Options have been acquired by The New Jersey Zinc Company on the properties listed below. These properties were a part of the subject contract prior to its termination.

Name of Property Owner	Approx. Acreage
✓Housley, Mitchell	127
✓Watkins, W. B.	176
✓Burchfiel, J. H. (formerly part of R. V. Coile)	67
✓Knight, Elihu	80
✓Smith, Charlie J. P.	100
✓Knight, Carl (formerly Nellie Carmichael)	40.5
✓Smith, Raymond B.	114
? Smith, Raymond B., Jr. (formerly R. B. Smith)	13.5
✓ Ford, Lyle F. (formerly Mamie Ford)	51

Copies of the short form option contracts are attached hereto.

CONTRACT AND AGREEMENT

THIS CONTRACT AND AGREEMENT made and entered into on this 9th day of March, 1962, by and between MITCHELL HOUSLEY (SINGLE) and PEARL BIBLE HOUSLEY (WIDOW), of Jefferson County, Tennessee, hereinafter called the Owners, parties of the first part, and THE NEW JERSEY ZINC COMPANY, a New Jersey Corporation, authorized to do business in the State of Tennessee, party of the second part, hereinafter called the Zinc Company:

WITNESSETH

That for and in consideration of the sum of ONE ($1.00) DOLLAR and other good and valuable considerations in hand paid, the receipt of which is hereby acknowledged, the parties of the first part grant unto the party of the second part for a period of one year from the date hereof, with the privilege of extension for further periods not to extend beyond March 9, 1967, upon payment of sums of money agreed upon, the exclusive right and option to purchase all minerals, metals, ores, ore-bearing materials, and rocks of any kind, including limestone, in, under or on the following described premises:

SITUATE in the Fourth and Ninth Civil Districts of Jefferson County, Tennessee, consisting of two tracts, adjoining and bounded generally as follows:

On the North by Federal Highway 11-A,
On the East by Davis, Courtney and W. B. Watkins;
On the South by Hubert Miller and Jess Cline; and
On the West by Kyle, Donaldson, James and possibly others, containing 127 acres, more or less.

For title reference see Warranty Deed Book 70, Page 116, and Warranty Deed Book 70, Page 98, in the Register's Office for Jefferson County, Tennessee.

Together with the right to prospect for, mine, mill and remove the same; water rights, the right of ingress and egress, and the right to purchase surface acreage to the extent of twenty acres, in accordance with the terms of an Agreement of even date herewith entered into between the parties hereto. And the parties of the first part also grant to the party of the second part during said periods the right to prospect for, explore, and examine all minerals, metals, ores, ore-bearing materials, and rocks of any kind, including limestone, in, under or on all of said premises, including the right to enter thereupon, to use available water and to remove samples, in accordance with the terms of the last mentioned agreement. The terms of this option Contract and Agreement are fully set out in the Agreement of even date herewith, which is here referred to and made a part hereof as if fully set out at length.

This Contract and agreement and each and every provision thereof shall be binding upon and inure to the benefit of the parties hereto, their heirs, executors, administrators, successors and assigns.

In Witness Whereof, the Owners and parties of the first part have hereunto set their signatures the day and date first above written.

Mitchell Housley
Mitchell Housley

Pearl Bible Housley
Pearl Bible Housley

STATE OF TENNESSEE
JEFFERSON COUNTY

Personally appeared before me, [illegible], a Notary Public in and for said County and State, the within named bargainors, MITCHELL HOUSLEY (SINGLE) AND PEARL BIBLE HOUSLEY (WIDOW), with whom I am personally acquainted and who acknowledged that they executed the foregoing instrument for the purposes therein contained and expressed.

Witness my hand and official seal at office on this 9th day of March, 1962.

[illegible]
Notary Public

Commission Expires: [illegible]

CONTRACT AND AGREEMENT

THIS CONTRACT AND AGREEMENT made and entered into on this 12th day of March, 1962, by and between W. B. WATKINS SR. and wife, WILMA B. WATKINS, and W. B. WATKINS, JR. and wife, BETTY S. WATKINS, of Jefferson County, Tennessee, hereinafter called the Owners, parties of the first part, and THE NEW JERSEY ZINC COMPANY, a New Jersey Corporation, authorized to do business in the State of Tennessee, party of the second part, hereinafter called the Zinc Company:

WITNESSETH:

THAT for and in consideration of the sum of ONE ($1.00) DOLLAR and other good and valuable considerations in hand paid, the receipt of which is hereby acknowledged, the parties of the first part grant unto the party of the second part for a period of one year from the date hereof, with the privilege of extension for further periods not to extend beyond March 12, 1967, upon payment of sums of money agreed upon, the exclusive right and option to purchase all minerals, metals, ores, ore-bearing materials, and rocks of any kind, including limestone, in, under or on the following described premises:

SITUATE IN the Ninth Civil District of Jefferson County, Tennessee, described as follows:

BEGINNING on a rock in the turn of the road, a corner to Julia Rugle, in the line of the Malcom tract; thence with the road and Rugle's line South 2-1/2 East 56 poles to a rock; thence North 82 West 7 poles to a rock a corner to Rugle; thence continued with Rugle South 9 poles to a walnut; thence S. 48 East 27-3/4 poles to a rock; thence South 10 East 39 poles to a rock; thence South 88-1/2 East 17-4/5 poles to a rock, corner to Rugle; thence South 26-1/2 East 70 poles to a rock, old Malcom corner; thence with the old line South 85 West 165 poles to a post oak; thence North 5 East 19 poles to a rock; thence North 24 West 203 poles to a rock on the West side of the Chuckey road; thence South 85 East 70 poles to a rock; thence North 5-1/2 poles to a black oak,

a corner to the J. B. Huff farm; thence with the same South 85 East 45-1/2 poles to a rock, corner to Malcom; thence with the same South 14 West 32-4/5 poles to a rock a corner of the same; thence South 85 East 62 poles to the BEGINNING, containing 176 acres, more or less.

For title reference see Warranty Deed, Book No. 103, Page 189, in the Register's Office, Jefferson County, Tennessee, and Will Book No. 12, Pages 507 and 508, in the Office of the County Court Clerk for Jefferson County, Tennessee.

Together with the right to prospect for, mine, mill and remove the same; water rights, the right of ingress and egress, and the right to purchase surface acreage to the extent of twenty acres, in accordance with the terms of an Agreement of even date herewith entered into between the parties hereto. And the parties of the first part also grant to the party of the second part during said periods the right to prospect for, explore and examine all minerals, metals, ores, ore-bearing materials, and rocks of any kind, including limestone, in, under or on all of said premises, including the right to enter thereupon, to use available water and to remove samples, in accordance with the terms of the last mentioned agreement. The terms of this option Contract and Agreement are fully set out in the Agreement of even date herewith, which is here referred to and made a part hereof as if fully set out at length.

This Contract and Agreement and each and every provision thereof shall be binding upon and enure to the benefit of the parties hereto, their heirs, executors, administrators, successors and assigns.

In Witness Whereof, the Owners and parties of the first part have hereunto set their signatures the day and date first above written.

W. B. Watkins, Sr.
W. B. Watkins, Sr.

Wilma B. Watkins
Wilma B. Watkins

W. B. Watkins, Jr.
W. B. Watkins, Jr.

Betty S. Watkins
Betty S. Watkins

STATE OF TENNESSEE

JEFFERSON COUNTY

Personally appeared before me, Elizabeth A. Neely, a Notary Public in and for said County and State, the within named bargainors, W. B. WATKINS SR. and wife WILMA B. WATKINS and W. B. WATKINS JR. and wife BETTY S. WATKINS, with whom I am personally acquainted and who acknowledged that they executed the foregoing instrument for the purposes therein contained and expressed.

Witness my hand and official seal at office on this 12th day of March, 1962.

Elizabeth A. Neely
Notary Public

Commission Expires: 1-16-66

CONTRACT AND AGREEMENT

THIS CONTRACT AND AGREEMENT made and entered into on this 30th day of March, 1962, by and between JESSE C. BURCHFIEL (SINGLE) and J. H. BURCHFIEL (WIDOWER), of Jefferson County, Tennessee, hereinafter called the Owners, parties of the first part, and THE NEW JERSEY ZINC COMPANY, a New Jersey Corporation authorized to do business in the State of Tennessee, party of the second part, hereinafter called the Zinc Company:

W I T N E S S E T H

That for and in consideration of the sum of ONE ($1.00) DOLLAR and other good and valuable considerations in hand paid, the receipt of which is hereby acknowledged, the parties of the first part grant unto the party of the second part for a period of one year from the date hereof, with the privilege of extension for further periods not to extend beyond March 30, 1967, upon payment of sums of money agreed upon, the exclusive right and optiont to purchase all minerals, metals, ores, ore-bearing materials, and rocks of any kind, including limestone, in, under or on the following described premises:

SITUATE in the Ninth Civil District of Jefferson County, Tennessee, and being a certain tract or parcel of land lying and being about one-half mile South of Talbott, Tennessee, more particularly bounded and described as follows:

> BEGINNING on a stake in the North edge of "Rugel Road" corner with Knight in the line of Robeson; thence S. 10 E. 109 poles, with the line of Knight to a stake, corner with Newman; thence with the line of Newman in an Eastwardly direction 137 poles to a point in the center of the Talbott-Kansas road; thence Northwardly with the meanders of the center of said road 1412 feet to a point in the line of Turner; thence Westwardly with the line of Turner, Burchfiel and Robeson 87 poles to the point of BEGINNING; containing by estimation 67 acres, more or less.

This being the same property which was convcyed to the parties of the first part by deed of Florence Coile, et vir., dated January 30, 1960, of record in the Register's Office for Jefferson County, Tennessee, in Deed Book 117, Page 357 to which reference is here made.

Together with the right to prospect for, mine, mill and remove the same; water rights, the right of ingress and egress, in accordance with the terms of an Agreement of even date herewith entered into between the parties hereto. And the parties of the first part also grant unto the party of the second part during said periods the right to prospect for, explore and examine all minerals, metals, ores, ore-bearing materials, and rocks of any kind, including limestone, in, under or on all of said premises, including the right to enter thereupon, to use available water and to remove samples, in accordance with the terms of the last mentioned agreement. The terms of this option Contract and Agreement are fully set out in the Agreement of even date herewith which is here referred to and made a part hereof as if fully set out at length.

This Contract and Agreement and each and every provision thereof shall be binding upon and enure to the benefit of the parties hereto, their heirs, executors, administrators, successors and assigns.

In Witness Whereof, the Owners and parties of the first part have hereunto set their signatures the day and year first above written.

Jesse C. Burchfiel

Jesse C. Burchfiel

J. H. Burchfiel

J. H. Burchfiel

STATE OF TENNESSEE

KNOX COUNTY

Personally appeared before me, Rhonda Aileen Lirly, a Notary Public in and for said County and State, the within named bargainor, JESSE C. BURCHFIEL (SINGLE) with whom I am personally acquainted, and who acknowledged that he executed the foregoing Contract and Agreement for the purposes therein contained and expressed.

Witness my hand and official seal at office on this 31 day of March, 1962.

Rhonda Aileen Lirly
Notary Public

Commission Expires: July 3, 1962

STATE OF TENNESSEE

JEFFERSON COUNTY

Personally appeared before me, Elizabeth A. Neely, a Notary Public in and for said County and State, the within named bargainor, J. H. BURCHFIEL (WIDOWER), with whom I am personally acquainted, and who acknowledged that he executed the foregoing Contract and Agreement for the purposes therein contained and expressed.

Witness my hand and official seal at office on this 30 day of March, 1962.

Elizabeth A. Neely
Notary Public

Commission Expires: 1-16-66

CONTRACT AND AGREEMENT

THIS CONTRACT AND AGREEMENT made and entered into on this 14th day of March, 1962, by and between ELIHU H. KNIGHT and wife, MAUDE KNIGHT, of Jefferson County, Tennessee, hereinafter called the Owners, parties of the first part, and THE NEW JERSEY ZINC COMPANY, a New Jersey Corporation authorized to do business in the state of Tennessee, party of the second part, hereinafter called the Zinc Company:

WITNESSETH:

That for and in consideration of the sum of ONE ($1.00) DOLLAR and other good and valuable considerations in hand paid, the receipt of which is hereby acknowledged, the parties of the first part grant unto the party of the second part for a period of one year from the date hereof, with the privilege of extension for further periods not to extend beyond March 14, 1967, upon payment of sums of money agreed upon the exclusive right and option to purchase all minerals, metals, ores, ore-bearing materials, and rocks of any kind, including limestone, in, under or on the following described premises:

SITUATE in the Ninth Civil District of Jefferson County, Tennessee, consisting of two separate tracts of land, containing in all 80 acres, more or less and more particularly described as follows:

TRACT ONE: Adjoining the lands of Albert Watkins, R. V. Cole, Hazelwood, Smith and H. H. Oakley, more particularly described as follows:

BEGINNING at a stake in the edge of the public road leading from Talbott to Mrs. Myrtle L. Burnett's home place where the Roy Cole line intersects said road; thence with the Cole line South 4 deg. and 45' West 2011 feet to a stone corner to G. P. Smith; thence South 84 deg. 55' West 1278 feet to a stone corner of

G. P. Smith and Mrs. Myrtle L. Burnett, thence North 3 deg. 30' East 2183 feet with the old A. A. Carter line, now Mrs. Myrtle Burnett to a stone corner of the Mrs. Burnett farm with this tract; thence South 87 East with said old Talbott to Dandridge Road 947 feet to the BEGINNING corner containing 53.9 acres be the same more or less.

There is excepted from the above tract approximately six acres heretofore conveyed by Hal Brown and wife to Karl Rugle, leaving 47.9 acres, more or less conveyed by this instrument.

Owners acquired title to Tract One by Deed of L. L. Millis et ux., dated March 20, 1944, and Recorded in the Register's Office for Jefferson County, Tennessee in Deed Book 93, Page 157.

TRACT TWO: Adjoining the lands of Mary Quarles, Hunter, and J. P. Knowling, more particularly described as follows:

BEGINNING at a post oak stump, Eugene Hunter's line; thence South 71-1/2 West with Quarles line until it strikes the road; thence with said road to Thomas Knowling line; thence South 32" East with his line to a rock, his corner, in J. P. Knowling's original line; thence with same North 61" East 28-2/3 poles to a cedar and post oak, same course continued to Hunter's line and to the BEGINNING, containing 32 acres, more or less.

Owners acquired title to Tract Two by Deed of Mrs. H. G. Williams and husband, dated May 21, 1930, and of record in the Register's Office for Jefferson County, Tennessee in Deed Book 74, Page 341.

Together with the right to prospect for, mine, mill and remove the same; water rights, the right of ingress and egress, in accordance with the terms of an Agreement of even date herewith entered into between the parties hereto. And the parties of the first part also grant to the party of the second part during said periods the right to prospect for, explore and examine all minerals, metals, ores, ore-bearing materials and rocks of any kind, including limestone, in, under or on all of said premises, including the right to enter thereupon, to use available water and to remove samples, in accordance with the terms of the last mentioned agreement.

The terms of this option Contract and Agreement are fully set out in the Agreement of even date herewith, which is here referred to and made a part hereof as if fully set out at length.

This Contract and Agreement and each and every provision thereof shall be binding upon and enure to the benefit of the parties hereto, their

heirs, executors, administrators, successors and assigns.

IN WITNESS WHEREOF, the Owners and parties of the first part have hereunto set their signatures the day and year first above written.

Elihu H. Knight

Elihu H. Knight

Maude Knight

Maude Knight

STATE OF TENNESSEE

JEFFERSON COUNTY

Personally appeared before me, [illegible], a Notary Public in and for said County and State, the within named bargainors, ELIHU H. KNIGHT and wife, MAUDE KNIGHT, with whom I am personally acquainted, and who acknowledged that they executed the foregoing Contract and Agreement for the purposes therein contained and expressed.

WITNESS my hand and official seal at office on this [illegible] day of March, 1962.

[illegible]

Notary Public

Commission expires: [illegible]

CONTRACT AND AGREEMENT

THIS CONTRACT AND AGREEMENT made and entered into on this 14th day of March, 1962, by and between CHARLIE J. P. SMITH and wife, LIZZIE SMITH of Jefferson County, Tennessee, hereinafter called the Owners, parties of the first part, and THE NEW JERSEY ZINC COMPANY, a New Jersey Corporation, authorized to do business in the State of Tennessee, party of the second part, hereinafter called the Zinc Company.

WITNESSETH

That for and in consideration of the sum of ONE ($1.00) DOLLAR and other good and valuable considerations in hand paid, the receipt of which is hereby acknowledged, the parties of the first part grant unto the party of the second part for a period of one year from the date hereof, with the privilege of extension for further periods not to extend beyond March 14, 1967, upon payment of sums of money agreed upon, the exclusive right and option to purchase all minerals, metals, ores, ore-bearing materials, and rocks of any kind, including limestone, in, under or on the following described premises:

SITUATE in the Ninth Civil District of Jefferson County, Tennessee, bounded generally as follows:

On the North by the lands of Welch, Keusler and Cox;
On the East by the lands of Ruth Shaver;
On the South by the lands of Trent and Smith; and
On the West by the lands of Lloyd Burnett, containing 100 acres more or less.

Owners acquired title to the above described property by the following deeds of conveyance of record in the Register's Office for Jefferson County, Tennessee, as follows: (1) Deed of C. P. Smith and wife, dated December 17, 1931, Deed Book 76, Page 403; (2) Deed of Mrs. G. P. Smith, et al., dated July 3, 1933, Deed Book 77, Page 462 and Deed of J. T. Owen, et al., dated August 10, 1921, Deed Book 63, Page 304.

Together with the right to prospect for, mine, mill and remove the same; water rights, the right of ingress and egress, and the right to purchase surface acreage to the extent of twenty acres, in accordance with the terms of an Agreement of even date herewith entered into between the parties hereto. And the parties of the first part also grant to the party of the second part during said periods the right to prospect for, explore and examine all minerals, metals, ores, ore-bearing materials, and rocks of any kind, including limestone, in, under or on all of said premises, including the right to enter thereupon, to use available water and to remove samples, in accordance with the terms of the last mentioned agreement. The terms of this option Contract and agreement are fully set out in the Agreement of even date herewith, which is here referred to and made a part hereof as if fully set out at length.

This Contract and Agreement and each and every provision thereof shall be binding upon and enure to the benefit of the parties hereto, their heirs, executors, administrators, successors and assigns.

In Witness Whereof, the Owners and parties of the first part have hereunto set their signatures the day and date first above written.

Charlie J. P. Smith

Lizzie Smith

STATE OF TENNESSEE
JEFFERSON COUNTY

Personally appeared before me, ELIZABETH A. NEELY, a Notary Public in and for said County and State, the within named bargainors, CHARLIE J. P. SMITH AND WIFE, LIZZIE SMITH, with whom I am personally acquainted and who acknowledged that they executed the foregoing instrument for the purposes therein contained and expressed.

Witness my hand and official seal at office on this 14th day of March, 1962.

Notary Public

Commission Expires: 1-16-66

CONTRACT AND AGREEMENT

THIS CONTRACT AND AGREEMENT made and entered into on this 14th day of March, 1962, by and between CARL H. KNIGHT and wife, PHYLLIS B. KNIGHT, of Jefferson County, Tennessee, hereinafter called the Owners, parties of the first part, and THE NEW JERSEY ZINC COMPANY, a New Jersey Corporation, authorized to do business in the State of Tennessee, party of the second part, hereinafter called the Zinc Company:

W I T N E S S E T H

That for and in consideration of the sum of ONE ($1.00) DOLLAR and other good and valuable considerations in hand paid, the receipt of which is hereby acknowledged, the parties of the first part grant unto the party of the second part for a period of one year from the date hereof, with the privilege of extension for further periods not to extend beyond March 14, 1967, upon payment of sums of money agreed upon, the exclusive right and option to purchase all minerals, metals, ores, ore-bearing materials, and rocks of any kind, including limestone, in, under or on the following described premises:

SITUATE in District No. Nine of Jefferson County, Tennessee, bounded and described as follows:

> BEGINNING on a rock in the junction of the Talbotts road, corner with Burnett and Ingram; thence with the road and Ingrams line N. 45-30 E. 1039 feet to a rock in the road, Ingram's corner; thence S. 58- E. with Bacon and G. P. Smith's line 647 feet to a rock, G. P. Smith's corner; thence with Smith's line S. 45-30 W. 183 feet to a rock, corner of a 16 acre tract and corner of a 23 acre tract; thence continued with G. P. Smith's line S. 52-45 E. 1190 feet to a rock in a sink, near an old well, corner with said Smith and T. O. Breeding; thence with said Breeding Line S. 39-30 W. 967 feet to a rock in the

Talbotts road; thence with the road N. 49-30 W., passing the corner of the 23 acre tract at 1300 feet, in all 1938 feet to the BEGINNING, containing 40.51 acres.

Being the same property conveyed to Carl H. Knight and wife, Phyllis B. Knight by deed of Mrs. Nellie Carmichael, widow, dated April 22, 1957, and of record in the Register's Office for Jefferson County, Tennessee, in Deed Book 111, Page 439.

Together with the right to prospect for, mine, mill and remove the same, water rights, the right of ingress and egress, and the right to purchase surface area in accordance with the terms of an Agreement of even date herewith entered into between the parties hereto. And the parties of the first part also grant to the party of the second part during said periods the right to prospect for, explore, and examine all minerals, metals, ores, ore-bearing materials, and rocks of any kind, including limestone, in, under or on all of said premises, including the right to enter thereupon, to use available water and to remove samples, in accordance with the terms of the last mentioned agreement. The terms of this option Contract and Agreement are fully set out in the Agreement of even date herewith, which is here referred to and made a part hereof as if fully set out at length.

This Contract and Agreement and each and every provision thereof shall be binding upon and enure to the benefit of the parties hereto, their heirs, executors, administrators, successors and assigns.

In Witness Whereof, the Owners and parties of the first part have hereunto set their signatures the day and date first above written.

Carl H. Knight

Carl H. Knight

Phyllis B. Knight

Phyllis B. Knight

STATE OF TENNESSEE

JEFFERSON COUNTY

Personally appeared before me, ELIZABETH A. NEELY, a Notary Public in and for said County and State, the within named bargainors, CARL H. KNIGHT AND WIFE, PHYLLIS B. KNIGHT, with whom I am personally acquainted and who acknowledged that they executed the foregoing instrument for the purposes therein contained and expressed.

Witness my hand and official seal at office on this 6th day of March, 1962.

Elizabeth A. Neely
Notary Public

Commission Expires: 1-15-66

CONTRACT AND AGREEMENT

THIS CONTRACT AND AGREEMENT made and entered into on this 8th day of March, 1962, by and between RAYMOND B. SMITH and wife, FARRIE SMITH of Jefferson County, Tennessee, hereinafter called the Owners, parties of the first part, and THE NEW JERSEY ZINC COMPANY, a New Jersey Corporation, authorized to do business in the State of Tennessee, party of the second part, hereinafter called the Zinc Company.

W I T N E S S E T H:

That for and in consideration of the sum of ONE ($1.00) DOLLAR and other good and valuable considerations in hand paid, the receipt of which is hereby acknowledged, the parties of the first part grant unto the party of the second part for a period of one year from the date hereof, with the privilege of extension for further periods not to extend beyond March 8, 1967, upon payment of sums of money agreed upon the exclusive right and option to purchase all minerals, metals, ores, ore-bearing materials, and rocks of any kind, including limestone, in, under or on the following described premises:

SITUATE in the Ninth Civil District of Jefferson County, Tennessee, consisting of two tracts of land described as follows:

TRACT I: Consisting of Tract I (16 acres) of former contract dated April 17, 1956, plus an additional 14acres acquired from J. S. Walker, totalling 30 acres more or less and generally bounded as follows:

On the North by the lands of Elihu Knight;
On the East by the lands of Ray Hazelwood;
On the South by the lands of Lloyd Burnett, J. S. Walker and Orville Hazelwood; and
On the West by the lands of McElveen and J. S. Walker.

TRACT II: Consisting of southern 84 acres, more or less, of Tracts II and III (totalling 104-1/4 acres) of former contract dated April 17, 1956, and generally bounded as follows:

On the North by the lands of Marshall Hopkins, R. S. Smith, Jr., and White Pine Road;
On the East by the White Pine Road and Mrs. M. Ford;
On the South by the lands of Mrs. M. Ford, Robert Haag and J. M. Roberts; and
On the West by the lands of Melvin Rickard and Bernard Line.

For title reference see the following deeds of conveyance of record in the Register's Office for Jefferson County, Tennessee as follows: (1) Deed of Oma Davis Breeden, et vir, et al, dated October 21, 1944, Deed Book 94, Page 339-40; and (2) Deed of C. C. Line, et ux., dated January 30, 1947, Deed Book 96, Page 410.

Together with the right to prospect for, mine, mill and remove the same; water rights, the right of ingress and egress, in accordance with the terms of an Agreement of even date herewith entered into between the parties hereto. And the parties of the first part also grant to the party of the second part during said periods the right to prospect for, explore and examine all minerals, metals, ores, ore-bearing materials and rocks of any kind, including limestone, in, under or on all of said premises, including the right to enter thereupon, to use available water and to remove samples, in accordance with the terms of the last mentioned agreement.

The terms of this option Contract and Agreement are fully set out in the Agreement of even date herewith, which is here referred to and made a part hereof as if fully set out at length.

This Contract and Agreement and each and every provision thereof shall be binding upon and enure to the benefit of the parties hereto, their heirs, executors, administrators, successors and assigns.

IN WITNESS WHEREOF, the Owners and parties of the first part have hereunto set their signatures the day and year first above written.

Raymond B. Smith

Raymond B. Smith.

Farrie Smith

Farrie Smith.

STATE OF TENNESSEE

JEFFERSON COUNTY

Personally appeared before me, Elizabeth A. Wesley, a Notary Public in and for said County and State, the within named bargainors, RAYMOND B. SMITH AND WIFE, FARRIE SMITH, with whom I am personally acquainted, and who acknowledged that they executed the foregoing Contract and Agreement for the purposes therein contained and expressed.

WITNESS my hand and official seal at office on this 8th day of March, 1962.

Elizabeth A. Wesley
Notary Public

Commission Expires: 1-16-66

CONTRACT AND AGREEMENT

THIS CONTRACT AND AGREEMENT made and entered into on this 13th day of March, 1962, by and between RAYMOND B. SMITH, JR. and wife LILLIE N. SMITH, of Jefferson County, Tennessee, hereinafter called the Owners, parties of the first part, and THE NEW JERSEY ZINC COMPANY, a New Jersey Corporation, authorized to do business in the State of Tennessee, party of the second part, hereinafter called the Zinc Company:

W I T N E S S E T H :

THAT for and in consideration of the sum of ONE ($1.00) DOLLAR and other good and valuable considerations in hand paid, the receipt of which is hereby acknowledged, the parties of the first part grant unto the party of the second part for a period of one year from the date hereof, with the privilege of extension for further periods not to extend beyond March 13, 1967, upon payment of sums of money agreed upon, the exclusive right and option to purchase all minerals, metals, ores, ore-bearing materials, and rocks of any kind, including limestone, in, under or on the following described premises:

SITUATE in the Ninth Civil District of Jefferson County, Tennessee, approximately 1-1/2 miles from Talbott on the White Pine Black Top Road, adjoining the lands of Estes, Knowling, Hopkins, and possibly others, the residence property of the Grantors and where they now reside, more particularly described as follows:

> BEGINNING on an iron pin on the North side of the Talbott and White Pine Black Top Road, a corner to Hopkins; thence with the said road N. 54 deg. 30 min. W. 313 feet to an 8 inch cedar. Continuing with the North side of road N. 73 deg. W. 164 feet to a stake in the center of the private driveway leading to the residence of Raymond B. Smith, Jr.; thence continuing with said road S. 89 deg. W. 266

feet to a stone, a corner to Estes; thence with Estes' line N. 6-1/2 deg. W. 27.5 poles to an iron pin; thence North 53-3/4 deg. E. 27 poles to a rock, a corner to the Smith land and Knowling; thence with Knowling's line S. 77 deg. W. 725 feet to an iron pin, a corner to Hopkins; thence with Hopkins' line S. 17 deg. W. 700 feet to the point of BEGINNING, containing 13.5 acres, more or less.

For Title Reference see Deed of R. B. Smith, et ux., dated April 28, 1960, and of record in the Register's Office for Jefferson County, Tennessee, in Deed Book 117, Page 482.

Together with the right to prospect for, mine, mill and remove the same; water rights, the right of ingress and egress, in accordance with the terms of an Agreement of even date herewith entered into between the parties hereto. And the parties of the first part also grant to the party of the second part during said periods the right to prospect for, explore and examine all minerals, metals, ores, ore-bearing materials, and rocks of any kind, including limestone, in, under or on all of said premises, including the right to enter thereupon, to use available water and to remove samples, in accordance with the terms of the last mentioned agreement. The terms of this option Contract and Agreement are fully set out in the Agreement of even date herewith, which is here referred to and made a part hereof as if fully set out at length.

This Contract and Agreement and eachand every provision thereof shall be binding upon and enure to the benefit of the parties hereto, their heirs, executors, administrators, successors and assigns.

In Witness Whereof, the Owners and parties of the first part have hereunto set their signatures the day and date first above written.

Raymond B. Smith, Jr.

Lillie N. Smith

STATE OF TENNESSEE

JEFFERSON COUNTY

Personally appeared before me, _____, a Notary Public in and for said County and State, the within named bargainors, RAYMOND B. SMITH, JR. and wife, LILLIE N. SMITH, with whom I am personally acquainted and who acknowledged that they executed the foregoing instrument for the purposes therein contained and expressed.

Witness my hand and official seal at office on this _____ day of March, 1962.

_____
Notary Public

Commission Expires:

CONTRACT AND AGREEMENT

THIS CONTRACT AND AGREEMENT made and entered into on this 20th day of March, 1962, by and between LYLE F. FORD and wife, NELLE M. FORD of Jefferson County, Tennessee, hereinafter called the Owners, parties of the first part, and THE NEW JERSEY ZINC COMPANY, a New Jersey Corporation authorized to do business in the State of Tennessee, party of the second part, hereinafter called the Zinc Company:

W I T N E S S E T H :

That for and in consideration of the sum of ONE ($1.00) DOLLAR and other good and valuable considerations in hand paid, the receipt of which is hereby acknowledged, the parties of the first part grant unto the party of the second part for a period of one year from the date hereof, with the privilege of extension for further periods not to extend beyond March 20, 1967, upon payment of sums of money agreed upon, the exclusive right and option to purchase all minerals, metals, ores, ore-bearing materials and rocks of any kind, including limestone, in, under or on the following described premises:

SITUATE in the Ninth Civil District of Jefferson County, Tennessee, On the White Pine Road, adjoining the lands of Oma Breeden, Chambers, Myers, Watkins Quarles, R. B. Smith and possibly others, containing 51 acres, more or less, and bounded generally as follows:

On the North by the lands of Oma Breeden and George Chambers;
On the East by the lands of Joe Myers;
On the South by the lands of Watkins Quarles; and
On the West by the lands of R. B. Smith.

For title reference see the following Deeds, of record in the Register's Office for Jefferson County, Tennessee: (1) Deed of Mayme O. Ford, Widow, Deed Book 120, Page 534; (2) Deed of Mayme O. Ford, Widow, Deed Book 120, Page 533; and (3) Deed of W. F. Ford, et ux., Deed Book 88, Page 577.

Together with the right to prospect for, mine, mill and remove the same; water rights, the right of ingress and egress, in accordance with the terms of an Agreement of even date herewith entered into between the parties hereto. And the parties of the first part also grant unto the party of the second part during said periods the right to prospect for, explore and examine all minerals, metals, ores, ore-bearing materials and rocks of any kind, including limestone, in, under or on all of said premises, including the right to enter thereupon, to use available water and to remove samples, in accordance with the terms of the last mentioned Agreement. The terms of this option Contract and Agreement are fully set out in the Agreement of even date herewith which is here referred to and made a part hereof as if fully set out at length.

This Contract and Agreement and each and every provision thereof shall be binding upon and enure to the benefit of the parties hereto their heirs, executors, administrators, successors and assigns.

IN WITNESS WHEREOF, the Owners and parties of the first part have hereunto set their signatures the day and year first above written.

Lyle F. Ford

Nelle M. Ford

STATE OF TENNESSEE

JEFFERSON COUNTY

Personally appeared before me, _____, a Notary Public in and for said County and State, the within named bargainers, LYLE F. FORD and wife, NELLE M. FORD, with whom I am personally acquainted, and who acknowledged that they executed the foregoing Contract and Agreement for the purposes therein contained and expressed.

Witness my hand and official seal at office in Jefferson County, Tennessee on this the _____ day of March, 1962.

Notary Public.

Commission Expires:

Official

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DMEA EXPLORATION
PROJECT

SEMI-ANNUAL REPORT ON CERTIFIED
AND PSEUDO CERTIFIED PROJECTS

Inactive since last Report

Reporting Period: January 1, 1958 to July 1, 1958.

Commodity: Zinc

DMEA No.	Idm-E	Operator
2546	676	American Zinc Company of Tennessee (West New Market Area)
4119	936	The New Jersey Zinc Co. (Talbot Area) (Pseudo)
4681	1102	The New Jersey Zinc Co. (Williams Property) (Pseudo)

Remarks: The DMEA Field Examiners visit the above Companies periodically and report that there has been no activity on the properties since their termination.

July 8, 1958

Wm. A. Beck, Mining Engineer
Bureau of Mines(DMEA)

RECEIVED APR 21 1958
4/21 Copy
4/22
4/23 copy

DMEA EXPLORATION PROJECT

Semi-Annual Report of Pseudo Certified project

Reporting Period: to January 1, 1958

Operator: The New Jersey Zinc Company

Mine Name: Talbot Area. Counties: Jefferson and Hamblen

State: Tennessee

Docket No. DMEA-4119. Contract No. Idm-E936. Commodity: Zinc.

Date of Contract: March 30, 1956. Terminated: February 28,1957

Expiration Date of Royalty Payments: March 30, 1986.

Total Amount of Contract: $156,250.00

Total Expended under Contract: $71,331.62

Amount of Government Participation at 50%---$35,665.81

Royalty Payments this Period: None

Previously Paid Royalty: None

Total Royalty Paid to date: None

Percent Government Participation Repaid: None

Royalty Due on Production: None

Remarks: The DMEA Field Examiners visited this Company and area periodically and report there has been no activity on the property covered by the contract since its termination.

Wm. A. Beck, Mining Engineer
U. S. Bureau of Mines (DMEA)

April 18, 1958

z

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DATE	INITIALS	CODE
3/21	C	220
122	[illegible]	100

March 19, 1957

Memorandum

To: Operating Committee, DMEA - Washington

From: DMEA Field Team, Region V - Knoxville, Tennessee

Subject: DMEA-4119, Idm-E936(zinc) The New Jersey Zinc Co. N. Y.
Talbot Area, Jefferson & Hamblen Counties, Tennessee

Enclosed are four copies of the latest interim report, and four copies of a letter from the Operator, requesting termination of the project.

Although it is entirely possible that ore-grade material may be present in the areas between the drill holes, it seems unlikely that mineable orebodies would be found by more closely spaced drilling. Attempts by other companies to extend the Jefferson City district eastward, by drilling updip from the Talbot area, have also failed to locate mineable orebodies. Thus, we are in agreement with the recommendation in the interim report, and we request permission to terminate by mutual agreement, effective February 28, 1957.

As it seems possible that a pseudo-certification may be recommended, this termination should be treated as though it might be certified.

Robert A. Laurence, Executive Officer
DMEA Field Team, Region V

RALL/zm
cc:

V. J. Lynch, Member
Bureau of Mines

Opr. Com-2

Lynch
Files

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INTERIM REPORT

DMEA-4119, Idm-E936 - Zinc

Operator: The New Jersey Zinc Company, Jefferson City, Tennessee

Location: Talbot area, Jefferson and Hamblen Counties, Tennessee

Diamond drilling on the Talbot project of the New Jersey Zinc Company was recessed on February 21, 1957 with the completion of Hole T-58. The drilling completed at the time of recess and since the last previous inspection is summarized as follows:

Footage in holes completed since last inspection . . .	1,342
Total footage in holes completed to date	29,306*
Number of holes completed since last inspection . . .	1
Total number of holes completed to date	23
Number of holes showing commercial zinc ore	1**
Number of holes showing non-commercial zinc mineralization	10
Number of barren holes	12

* Last previous total footage was incorrectly reported as 27,962; correct previous total should read 27,964.

** Hole T-48, reported in an earlier interim report as an ore hole, has been reclassified by the Operator as showing only non-commercial mineralization.

Hole T-58 on the Dearing property was bottomed at a depth of 1342 feet after penetrating the base of the Kingsport formation at a depth of 1300 feet. The hole showed only non-commercial zinc mineralization (see interim report of 2/20/57).

The authorized exploration for the Talbot project is 60,000 feet of diamond drilling; thus, the completion of 29,306 feet represents a percentage completion of about 49 percent as of the date of recess. The 29,306 feet were drilled in 23 holes spaced at one-fourth mile or one-half mile intervals in an area about 3.8 miles in length and 0.9 miles in width.

The generally unsuccessful results of this drilling, in the opinion of the writer, has considerably reduced the gross ore potential of the project area. It now appears unlikely that many large favorably situated ore bodies of the type normally found in the Mascot-Jefferson City district will be discovered if the exploration drilling as authorized under the subject contract is carried to completion. Because this view is also held by the Operator, drilling has been recessed and a request has been received to terminate the project as unsuccessful (see Operator's letter of Feb. 27, 1957). The Operator does not plan to renew its property options as they become due.

In light of the above, termination of the Talbot project is herewith recommended. However, in considering the problem of certification, the writer wishes to call attention to the fact that the wide spacing of the holes does not preclude the possibility for the discovery of significant but smaller ore bodies that may be more favorably situated and of commercial grade in the future, particularly if future exploration is based on the results of drilling done under this DMEA contract. It is suggested, therefore, that some type of certification be made for the project area which would relate only to ore discovered and mined by the Operator as a direct result of applying the data gained by the drilling done under the partially completed contract. Such a certification, if made, should be binding on any other company also using the data gained under this contract, but should not bind a company that may develop ore independently and without access to the DMEA drilling data.

The Operator has in preparation a final report on the drilling done to date under this contract. On receipt of this report the Field Team will submit a separate final report and recommendations on certification for the Talbot project.

Inspected: March 6, 1957

Helmuth Wedow, Jr., Geologist
U. S. Geological Survey

4119

3/21

[redacted]

7.500

Big question here re certification

Should prepare careful analysis with checklist showing both directions and actions, also which has to take appropriate action of areas affected to add level under consideration.

Action taken by Divisions:

Possible Pseudo-Code binding only on Gi, Zoic, subsidiaries & affiliates under which right abandoned for 10 yrs.

Rob. E. Adams

Reference to Legal - WRH

Form 17F-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- 58

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of February 1957 Docket No. DMEA 4119 Contract No. E 936

Operator's Name The New Jersey Zinc Company Minerals Zinc

Address Jefferson City, Tennessee

Contract Amount, $ 156,250.00 Government Participation: 50% Amount, $ 78,125.00

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	4,411.50	57,534.20	61,945.70	5/3/57		
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor, Supervision, Technical Services	692.16	8,685.76	9,377.92			
(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	8.00			
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	5103.66	66,227.96	71,331.62	5103.66	66,227.96	71,331.62

RECEIVED MAR 29 1957 D.M.E.A.

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

Date 3/1/57 *Payee The New Jersey Zinc Company

Per [signature] Title Asst. to the 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:

$ 2551.83

Signature [signature] (Authorized Certifying Officer)

Date MAR 27 1957 Vou. No. 155

(See other side)

2551.83

(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-936 in accordance with the terms of the contract.

Signature R. J. Lynch Title MINING ENGINEER U. S. BUREAU OF MINES Date MAR 26 1957

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Robert A. Lawrence Title EXECUTIVE OFFICER DMEA REGION V Date MAR 26 1957

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 7, 195 Docket No. DMEA 4119 Contract No. E 936

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	Ft.	3642.00	1821	44,590.60	21,988		48,000	2.16
Drilling: Core 1000-1500	"	769.50	342	13,217.75	5,752		10,000	2.66
Churn 1500-2000	"		-	4,137.35	1,566	2.642	2,000	3.16
Auger								
Stripping Assays	Ea.	- -	-	8.00	8	1.00	450	1.00
Trenching								
Test Pits								
Roads and Trails								
Supervisory & Tech. Services	Ft.	692.16	2163	9,377.92	29,306	0.32	60,000	0.32
TOTAL DISTRIBUTED COSTS		5103.66		71,331.62				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		5103.66		71,331.62				

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 Mar. 1, 1957 Operator The New Jersey Zinc Co.

Per [signature] Title Asst. to the Supt.

REMARKS: This report includes drill holes T-57 and T-58.

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)

RECEIVED MAR 29 1957 D.M.E.A.

[signature] Jr.
GEOLOGIST, USGS
MARCH 26, 1957

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

Morristown Sector - Talbott Area

DMEA Docket No. 4119

Contract No. E 936

Drilling in the subject area was terminated on February 22, 1957 upon the completion of holes T-57 and T-58.

Details of Drilling

Hole T-57 - C. E. Goodman property

Objective: Eleventh hole on the 1/2 mile face centered grid, testing the area downdip from known mineralization.

Results:

0- 3	- - - Overburden
3-465	- - - Mascot fm.
465-676	- - - Upper Kingsport
676	- - - 28 Bed
676-782	- - - Lower Kingsport
782-821	- - - (Bottom) Longview fm.

Comments: The section below the 28 bed was 27% dolomitized. No mineralization was encountered.

Hole T-58 - L. B. Dearing property

Objective: Twelfth hole on the 1/2 mile face centered grid.

Results:

0- 8	- - - Overburden
8-974	- - - Mascot fm.
974-1202	- - Upper Kingsport
1202	- - 28 Bed
1202-1300	- -- Lower Kingsport
1216-1218	- - 2' - Estimated 2% Zn
1300-1342	- - (Bottom) Longview fm.

Comments: The section below the 28 bed was 100% dolomitized. The dolomitization and brecciation in the lower Kingsport is similar to that encountered in hole T-56. Ground preparation in this hole appeared good, but only one strong shine of sphalerite was cut.

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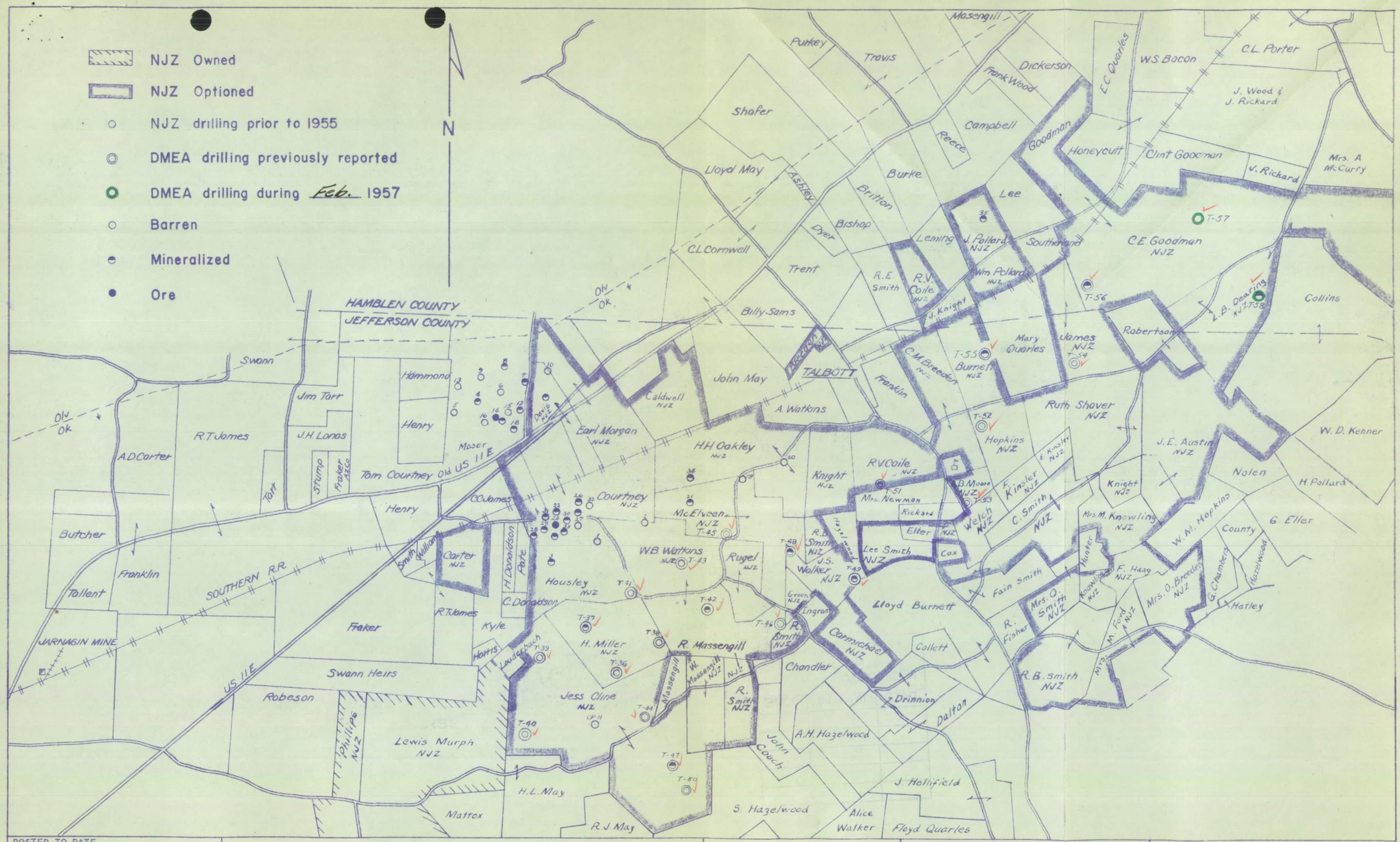
DATE	INITIALS	CODE

The regional office of the DMEA has been advised of our desire to terminate the subject contract. A report on the Talbott project is in preparation.

J.W.P.
J. W. Phillips/jf



POSTED TO DATE 11-1-56	THE NEW JERSEY ZINC COMPANY JEFFERSON CITY TENNESSEE	DRAWN NJZ DATE 6/56 TRACED JWP SCALE 1"=2000'	PROPERTY MAP MORRISTOWN SECTOR - TALBOTT AREA
			JEFFERSON & HAMBLEN Cos., TENN FILE NO. AX-TENN-B 247a

EXTRA COPY
DMEA
RECEIVED MAR 29 1957

DATE	INITIALS	CODE

ACTION ON INTERIM
OR FINAL FIELD TEAM REPORT
Date 3 - 4

Referred to:

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

Note comments in report regarding:

1. Looks sick!
2. Seems we have
3. proved the end of the district.
4.

and take appropriate action.

- - - - - - - -

Action taken by Division

Robert E. Adams

4119

ACTION ON INTERIM
OR FINAL FIELD TEAM REPORT

Date 2-14

Referred to:

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

Note comments in report regarding:

1. Might terminate
2.
3.
4.

and take appropriate action.

- - - - - - - -

Action taken by Division:

Robert E. Adams

INTERIM REPORT

DMEA-4119, Idm-E936 - Zinc

Operator: The New Jersey Zinc Company, Jefferson City, Tennessee

Location: Talbot Area, Jefferson and Hamblen Counties, Tennessee

Diamond drilling on the Talbot project of the New Jersey Zinc Company completed to date and since the last inspection on February 6, 1957 is summarized as follows:

Footage in holes completed since last inspection...	821
Total footage in holes completed to date.....	27,962
Numbers of holes completed since last inspection...	1
Total number of holes completed to date.....	22
Number of holes showing commercial zinc ore.....	1
Number of holes showing non-commercial zinc mineralization.....	9
Number of barren holes.....	12

Hole T-57, located on the Goodman property, was bottomed in the Longview formation at a depth of 821 feet. It showed no evidence of zinc mineralization.

Hole T-58, located on the Dearing property, was drilling at a depth of 1231 feet at the time of inspection. Data on this hole are summarized below:

Hole No.	Depth	Est. depth	Remarks
T-58	1231	1360	Collared in Mascot fm; chert matrix ss @ 974; "108" bed @ 1117; "28" bed @ 1202; 2 ft containing an estimated 2% Zn @ 1216-1218 and traces of Zn @ 1224 and 1228.

Unless zinc mineralization of greater significance than that shown above is encountered in the part of Hole T-58 yet to be drilled, the Operator plans to recess drilling and request termination of the Talbot project as unsuccessful.

ORIGINAL FILE COPY
DMEA
RECEIVED MAR 4 1957

DATE	INITIALS	CODE
3/5	COM	100

Inspected: February 20, 1957

Helmuth Wedow, Jr.
Geologist
U. S. Geological Survey

INTERIM REPORT

DMEA-4119, Idm-E936 (Zinc)

RECEIVED FEB 14 1957 D.M.E.A.

Operator: The New Jersey Zinc Company, Jefferson City, Tennessee

Location: Talbot area, Jefferson and Hamblen Counties, Tennessee

Diamond drilling on the Talbot project of the New Jersey Zinc Company to date and since the last inspection on January 23, 1957 is summarized as follows:

Drilling completed:

Footage in holes completed since last inspection	799
Total footage in holes completed to date	27,143
Number of holes completed since last inspection	1
Total number of holes completed to date	21
Number of holes showing commercial zinc ore	1
Number of holes showing hon-commercial zinc mineralization	9
Number of barren holes	11

Drilling in progress:

Number of holes in progress	2
Footage drilled since last inspection	1,341
Total footage drilled in incompleted holes	1,341

Additional data, obtained since the last time of inspection, on the one hole completed are as follows:

Hole no.	Property	Depth	Remarks
T-56	Goodman	799	Bottomed in Longview fm; estimated zinc as follows: Scattered traces 714-715, 718-723; shine 723-725; scattered traces 725-726, 730, 738, 740

Summary logs of the two holes in progress are given below:

Hole no.	Property	Depth	Est. depth	Remarks
T-57	Goodman	783	830	Collared in Mascot fm; Chert matrix ss @ 465; "108" bed @ 592; "28" bed @ 676; currently drilling in Kingsport
T-58	Dearing	558	1050	Collared and drilling in Mascot fm.

Unless zinc mineralization of significance is revealed in the two holes currently drilling, the operator plans to recess drilling and ask for termination of the project as unsuccessful.

Inspected: February 6, 1957

V. J. Lynch, Mining Engineer
U. S. Bureau of Mines

Helmuth Wedow, Jr., Geologist
U. S. Geological Survey

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

Budget Bureau No. 42-R1036.5

PAID ON VOUCHER & SCHEDULE OF PAYMENTS No. 49

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

Month of January, 1957 Docket No. DMEA 4119 Contract No. E 936

Operator's Name The New Jersey Zinc Company Minerals Zinc

Address Jefferson City, Tennessee

Contract Amount, $ 156,250.00 Government Participation: 50 % Amount, $ 78,125.00

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	7236.70	50,297.50	57,534.20	5/3/57		
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor						
Supervision / Technical Services	1132.16	7,553.60	8,685.76			
(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	-	8.00	8.00			
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	8,368.86	57,859.10	66,227.96	8368.86	57,859.10	66,227.96

RECEIVED FEB 21 1957 D.M.E.A.

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

Date 2/1/57 *Payee The New Jersey Zinc Company

Per [signature] Title Asst. to the 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:

$ 4184.43

Signature [signature] (Authorized Certifying Officer)

Date FEB 19 1957 Vou. No. 134

(See other side)

4184.43.

(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-936 in accordance with the terms of the contract.

Signature [illegible] Title GEOLOGIST, U. S. G. S. Date FEB 13 1957

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature V. J. Lynch Title ACTING EXECUTIVE OFFICER DMEA - REGION V Date FEB 14 1957

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

RECEIVED FEB 11 1957 D.M.E.A.

Month of January 1957 Docket No. DMEA 4119 Contract No. E-936
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	Ft.	6974.50	3,424	40,948.60	20,167	2.030	48,000	2.16
Churn 1000-1500	"	262.20	114	12,448.25	5,410	2.300	10,000	2.66
Auger 1500-2000	"	- -	- -	4,137.35	1,566	2.642	2,000	3.16
Stripping								
Trenching Assays	Ea.	- -	- -	8.00	8	1.00	450	1.00
Test Pits								
Roads and Trails								
Supervisory & Technical Services	Ft.	1132.16	3,538	8,665.76	27,143	0.32	60,000	0.32
Total Distributed Costs		8368.86		66,227.96				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs		8368.86		66,227.96				

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 2/1/57 Operator The New Jersey Zinc Co.

Per [signature] Title Asst. to the Supt.

Remarks: This report includes drill holes T-53, T-54, T-55 and T-56

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)

Kenneth Weaver, Jr.
GEOLOGIST, U. S. G. S.
FEB 13 1957

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

Morristown Sector - Talbott Area

DMEA Docket No. 4119 - Contract No. E-936

Two Longyear drills operated in the subject area during the month. Holes T-53, T-54, T-55 and T-56 were completed.

Details of Drilling

Hole T-53 - A. B. Moore property

Coordinates: 22,726.18 N; 34,136.13 E
Elevation: 1270.26

Objective: Seventh hole on the 1/2 mile face centered grid, testing the area downdip from known mineralization.

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DATE	INITIALS	CODE

Results:

0- 11	Overburden
11-759	Mascot fm.
759-968	Upper Kingsport
968	28 bed
968-1075	Lower Kingsport
1070	"8" sandgrains
1075-1114	(Bottom) Longview fm.

Comments: The section below the 28 bed was 27% dolomitized. No mineralization was encountered.

Hole T-54 - Sam James property

Coordinates: 25,997.41 N; 36,660.49 E
Elevation: 1325.59

Objective: Eighth hole on the 1/2 mile face centered grid, testing the area down dip from known mineralization.

Results:

0- 9	Overburden
9-534	Mascot fm.
534-739	Upper Kingsport
739	28 Bed
739-843	Lower Kingsport
838	"8" sandgrains
843-894	(Bottom) Longview fm.

Comments: The section below the 28 bed was 37% dolomitized. No mineralization was encountered.

Hole T-55 - J. Q. Burnett property

Objective: Ninth hole on the 1/2 mile face centered grid, testing the area down dip from known mineralization.

Results:

0- 44	- - -	Overburden
44-383	- - -	Mascot fm.
383-588	- - -	Upper Kingsport
565-566	- - -	Shine of sphalerite
588	- - -	28 Bed
589-590	- - -	Shine of sphalerite
588-681	- - -	Lower Kingsport
666-669	- - -	Disseminated traces of sphalerite
676	- - -	"9" sandgrains
681-731	- - -	(Bottom) Longview fm.

Comments: The section below the 28 bed was 60% dolomitized. The mineralization, though weak, is encouraging since this hole is in the vicinity of T-35 which encountered 12' of 2-2.5% zinc.

Hole T-56 - O. E. Goodman property

Objective: Tenth hole on the 1/2 mile face centered grid, testing the area down dip from known mineralization.

Results:

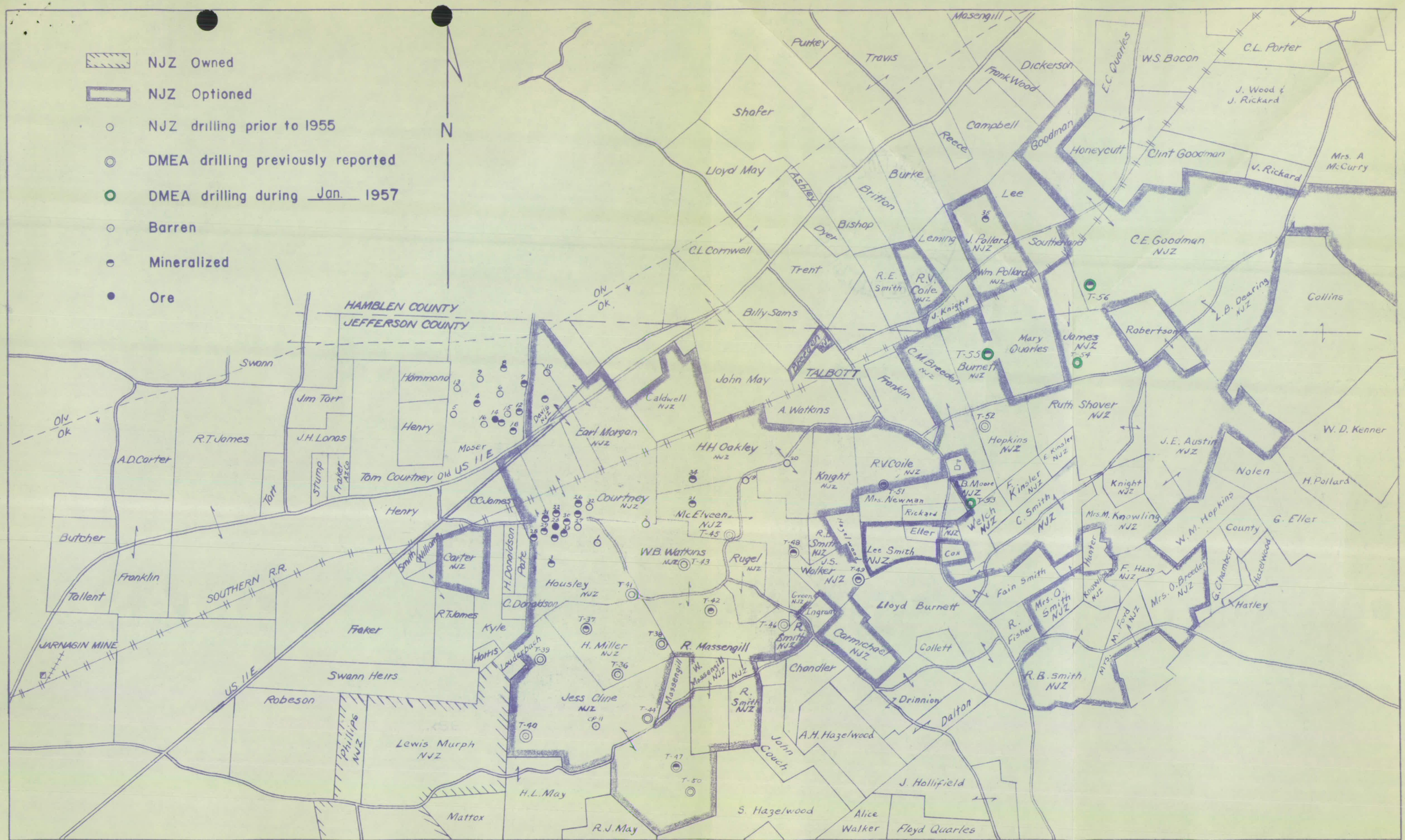
0- 30	- - -	Overburden
30-438	- - -	Mascot fm.
438-653	- - -	Upper Kingsport
653	- - -	28 Bed
653-756	- - -	Lower Kingsport
754	- - -	"9" sandgrains
714-740	- - -	Scattered traces of sphalerite
756-799	- - -	(Bottom) Longview fm.
795	- - -	Trace of sphalerite

Comments: The section below the 28 bed is 97% dolomitized. The strong dolomitization and brecciation in the favorable horizon makes this hole comparable with T-44 and T-47.

Two holes are currently in progress:

Hole No.	Property
T-57	C. E. Goodman
T-58	L. B. Dearing

J. W. Phillips/jf



POSTED TO DATE 11-1-56	THE NEW JERSEY ZINC COMPANY JEFFERSON CITY TENNESSEE	DRAWN NJZ DATE 6/56 TRACED JWP SCALE 1"=2000'	PROPERTY MAP MORRISTOWN SECTOR - TALBOTT AREA
			JEFFERSON & HAMBLEN Cos., TENN FILE NO. AX-TENN-B 247a

RECEIVED
FEB 21 1957
D.M.E.A.

4119

ACTION ON INTERIM
OR FINAL FIELD TEAM REPORT

Date 2/4

Referred to:

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

Note comments in report regarding:

1. Looks like bust!
2. Termination under consideration
3.
4.

and take appropriate action.

- - - - - - - - - -

Action taken by Division:

None

Robert E. Adams

RECEIVED
FEB 4 1957
D.M.E.A.

INTERIM REPORT

DMEA-4119, Idm-E936 (Zinc)

Operator: The New Jersey Zinc Company, Jefferson City, Tennessee

Location: Talbot area, Jefferson and Hamblen Counties, Tennessee

The diamond drilling on the Talbot project of the New Jersey Zinc Company to date and since the last inspection on January 9, 1957, is summarized as follows:

Drilling completed:

Footage in holes completed since last inspection	731
Total footage in holes completed to date	26,344
Number of holes completed since last inspection	1
Number of holes completed to date	20
Number of holes showing commercial zinc ore	1
Number of holes showing non-commercial zinc mineralization	8
Number of barren holes	11

Drilling in progress:

Number of holes in progress	2
Footage drilled since last inspection	610
Total footage drilled in incompleted holes	690

Pertinent information, in addition to that given in previous interim reports, on the holes completed since the last inspection follows:

Hole No.	Property	Depth	Remarks
T-55	Burnett	731	Collared in Mascot fm; chert matrix ss @ 383; "108" bed @ 509; "28" bed @ 588; base of Kingsport fm @ 681; bottomed in Longview fm. Zinc as follows: Shines @ 565-566, 589-590; traces @ 666-669; scattered traces @ 685, 686, 692, 693, 696, and 697.

On holes currently in progress, one was drilling and one was being set up. Available data on these two holes follow:

Hole No.	Property	Depth	Est. depth	Remarks
T-56	Goodman	690	800	Collared in Mascot fm; chert matrix ss @ 438; "108" bed @ 570; "28" bed @ 653; currently drilling near base of Kingsport fm; no zinc mineralization encountered to date.
T-57	Goodman	--	800	Setting up; will collar in Mascot.

With the completion of Hole T-58, also on the Goodman property, the company believes that the initial objective of the project, that is, the testing of the gross ore potential in the Talbot area, will have been achieved. Consequently, unless the holes currently drilling and the one additional hole planned encounter significant zinc mineralization to warrant continuation of drilling, the company has indicated it will request consideration for the termination of the project as unsuccessful.

Inspected: January 23, 1957

V. J. Lynch, Mining Engineer
U. S. Bureau of Mines

Helmuth Wedow, Jr., Geologist
U. S. Geological Survey

RECEIVED JAN 22 1957 D.M.E.A.

INTERIM REPORT
DMEA-4119, Idm-E936 - Zinc

Operator: The New Jersey Zinc Company, Jefferson City, Tennessee

Location: Talbot area, Jefferson and Hamblen Counties, Tennessee

With two rigs drilling in current operations on the New Jersey Zinc Talbot project, the drilling to date is summarized as follows:

Drilling completed:

Footage in holes completed since last inspection	2,870
Total footage in holes completed to date	25,613
Number of holes completed since last inspection	3
Total number of holes completed to date	19
Number of holes showing commercial zinc ore	1
Number of holes showing non-commercial zinc mineralization	7
Number of barren holes	11

Drilling in progress:

Number of holes in progress	2
Footage drilled since last inspection	120
Total footage drilled in incompleted holes	120

Date on the three holes completed since the last inspection on December 12, 1956 are summarized below:

Hole No.	Property	Depth	Remarks
T-52	Hopkins	862	Top of Longview fm @ 822 Barren hole.
T-53	Moore	1114	Collared in Mascot fm; top of Kingsport @ 760; "28" bed @ 968; top of Longview @ 843 Barren hole.
T-54	James	894	Collared in Mascot; top of Kingsport @ 535; "28" bed @ 739; top of Longview @ 843 Barren hole.

Holes T-55 and T-56 are currently drilling and have reached depths of 40 and 80 feet respectively. Both were collared in the Mascot formation and both will be bottomed at approximately 750 feet. Hole T-55 is on the Burnett property and Hole T-56 is located on the Goodman property.

Inspected: January 9, 1957

Helmuth Wedow, Jr.
Geologist
U. S. Geological Survey

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

Budget Bureau No. 42-R1036.5

PAID ON VOUCHER & SCHEDULE OF PAYMENTS K- 44

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

Month of December 195 6 Docket No. DMEA 4119 Contract No. E-936

Operator's Name The New Jersey Zinc Company Minerals Zinc

Address Jefferson City, Tennessee

Contract Amount, $ 156,250.00 Government Participation: 50 % Amount, $ 78,125.00

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	6,173.50	44,124.00	50,297.50	5/3/57		
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	912.04	6,640.96	7,553.60			
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		8.00	8.00			
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	7,086.14	50,772.96	57,859.10	7086.14	50 772.96	57 859.10

RECEIVED D.M.E.A. 1957

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

Date Jan. 1, 1957 *Payee The New Jersey Zinc Company

Per [signature] Title Asst. to the 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:

$ 3543.07

Signature [signature] (Authorized Certifying Officer)

Date FEB 6 1957 Vou. No. 117

(See other side)

3543.07

(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-926 in accordance with the terms of the contract.

Signature S. C. Bergman Title GEOLOGIST, U. S. G. S. Date JAN. 29 1957

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature N. J. Lynch Title ACTING EXECUTIVE OFFICER DMEA - REGION V Date JAN 28 1957

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 FEB 8 1957 D.M.E.A.

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

Month of December 1956 Docket No. DMEA 4119 Contract No. E-936
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	Ft.	3,774.00	1862	33,974.10	16,743	2.029	48,000	2.16
Churn 1000-1500	"	1,150.00	500	12,186.05	5,296	2.300	10,000	2.66
Auger 1500-2000	"	1,249.50	490	4,137.35	1,566	2.642	2,000	3.16
Stripping								
Trenching Assays	Ea.	- -	--	8.00	8	1.00	450	1.00
Test Pits								
Roads and Trails								
Supervisory & Technical	Ft.	912.64	2852	7,553.60	23,605	0.32	60,000	0.32
Total Distributed Costs		7,086.14		57,859.10				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs		7,086.14		57,859.10				

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, 1957 Operator The New Jersey Zinc Co.

Per [signature] Title Asst. to the Supt.

Remarks: This report includes drill holes T-50 and T-52

→ 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

Morristown Sector - Talbott Area

DMEA Docket No. 4119 - Contract No. E 936

Two Longyear drills operated in the subject area during the month. Holes T-50 and T-52 were completed.

Details of Drilling

Hole T-50 - J. T. Cline property

Coordinates: 16,165.32 N; 27,265.14 E
Elevation: 1,387.77

Results

0- 54	- - - Overburden
54- 264	- - - Kingsport fm.
264- 463	- - - Longview fm.
463-1061	- - - Chepultepec fm.
1061-1072	- - - Koppick Knob Fault zone
1072-1620	- - - Mascot fm.
1620-1849	- - - Upper Kingsport
1849	- - - 28 Bed
1849-1920	- - - Lower Kingsport
1917	- - - "S" sandgrains
1920-1990	(Bottom) Longview fm.

Comments: The section below the 28 bed was 53% dolomitized. No mineralization was encountered.

Hole T-52 - Henry Hopkins property

Coordinates: 24,565.25 N; 34,568.82 E
Elevation: 1,300.86

Results

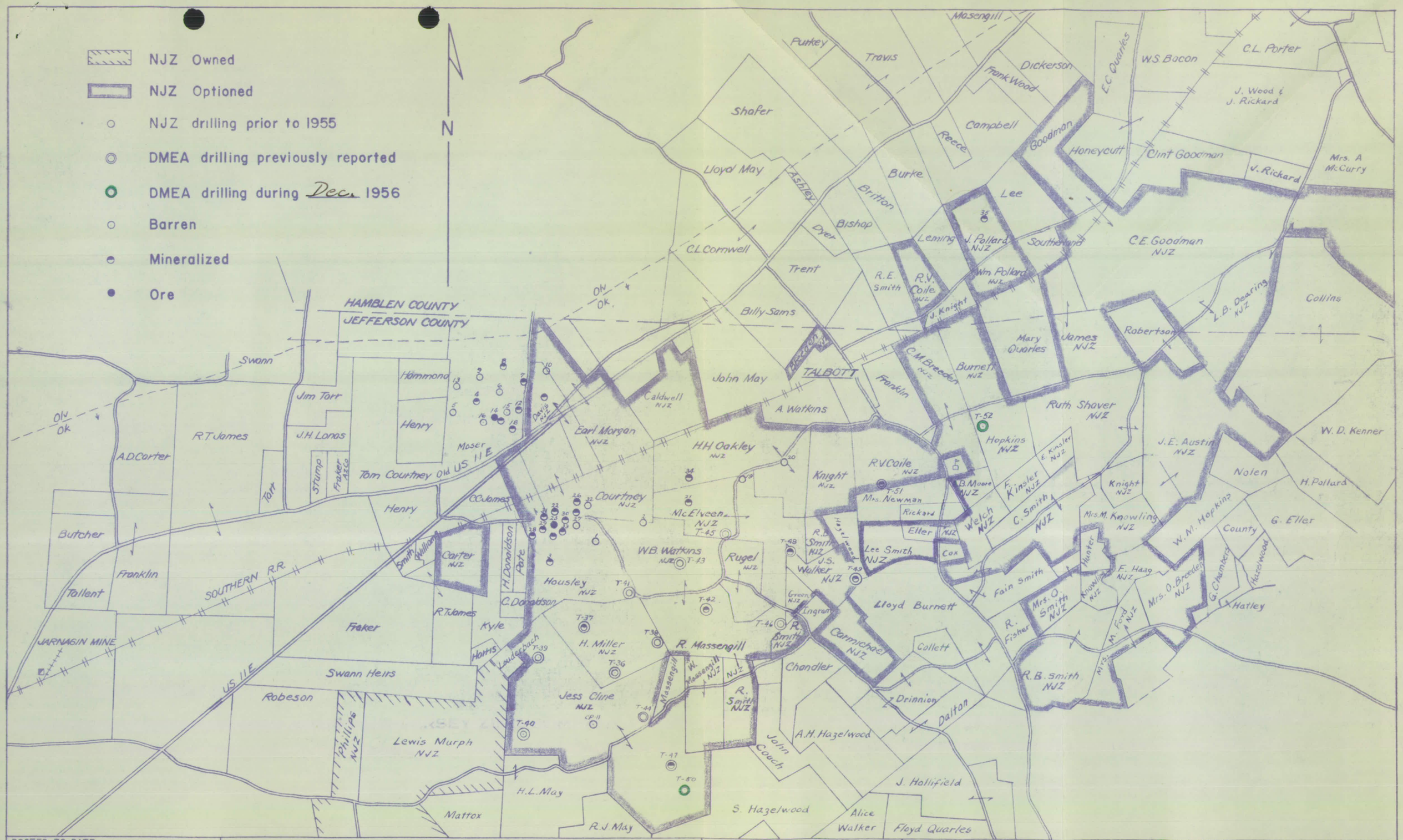
0- 16	- - - Overburden
16-510	- - - Mascot fm.
510-714	- - - Upper Kingsport
714	- - - 28 Bed
714-822	- - - Lower Kingsport
816	- - - "S" sandgrains
822-062	(Bottom) Longview fm.

Comments: The section below the 28 bed was 36% dolomitized. No mineralization was encountered.

Two holes are currently in progress:

Hole No.	Property
T-53	A. B. Moore
T-54	Sam James

J. W. Phillips/jf



POSTED TO DATE 11-1-56	THE NEW JERSEY ZINC COMPANY JEFFERSON CITY TENNESSEE	DRAWN NJZ DATE 6/56 TRACED JWP SCALE 1"=2000'	PROPERTY MAP MORRISTOWN SECTOR - TALBOTT AREA
			JEFFERSON & HAMBLEN Cos., TENN FILE NO. AX-TENN-B 247a

RECEIVED
FEB 8 1957
D.M.E.A.

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 November 1956 Docket No. DMEA 4119 Contract No. E 936
Operator's Name The New Jersey Zinc Company Minerals Zinc
Address Jefferson City, Tennessee
Contract Amount, $ 156,250.00 Government Participation: 50 % Amount, $ 78,125.00

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	1,850.10	42,273.90	44,124.00	1/31/57		
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor						
Supervision	281.92	6,359.04	6,640.96			
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	8.00	-	8.00			
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	2,140.02	48,632.94	50,772.96	2140.02	48632.94	50,772.96

RECEIVED JAN 7 1957 D.M.E.A.

Approved
~~[illegible]~~
Bill

I certify that the above bill is correct and just and that payment therefor has not been received.
Date Dec. 1, 1956 *Payee The New Jersey Zinc Company
Per [signature] Title Asst. to the 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:
$ 1070.01
Signature Helen R. Miller
(Authorized Certifying Officer)
Date JAN 4 1957 Vou. No. 98
(See other side)

1070.01

(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-936 in accordance with the terms of the contract.

Signature Herman Weaver Title GEOLOGIST, U. S. G. S. Date DEC 26 1956

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature V. J. Lynch Title ACTING EXECUTIVE OFFICER DMEA - REGION V Date DEC 27 1956

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 JAN 7 1957 D.M.E.A.

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

Month of November 1956 Docket No. DMEA 4119 Contract No. E 936
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	ft	1,850.10	881	30,200.10	14,881	2.029	48,000	2.16
1000-1500	ft	-	-	11,035.25	4,796	2.300	10,000	2.66
1500-2000	ft	-	-	2,887.85	1,076	2.684	2,000	3.16
Stripping								
Assays	ea	8.00	8	8.00	8	1.00	450	1.00
Test Pits								
Roads and Trails								
Supervisory & Technical	ft	281.92	881	6,640.96	20,753	0.32	60,000	0.32
TOTAL DISTRIBUTED COSTS		2,140.02		50,772.16				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		2,140.02		50,772.16				

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

Date Dec. 1, 1956 Operator The New Jersey Zinc Co.

Per [signature] Title Asst. to the 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)

REMARKS: This report includes drill hole T-51. Assays reported for holes T-47, T-48 and T-51

(For Government use only)

Hermann Lucas
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

Morristown Sector - Talbott Area

DMEA Docket No. 4119 - Contract No. E-936

RECEIVED JAN 7 1957 D.M.E.A.

Two Longyear drills operated in the subject area during the month. Hole T-51 was completed. 2246 feet were drilled.

Details of Drilling

Hole T-51 - R. V. Coile property

Coordinates: 23,204.97 N; 32,210.98 E
Elevation: 1,265.01

Objective: Fifth hole on the 1/2 mile face centered grid testing the area down dip from known mineralization.

Results:

0- 10 - - Overburden
10-595 - - Mascot fm.
595-750 - - Upper Kingsport
750 - - 28 Bed
750-851 - - Lower Kingsport
847 - - "S" sandgrains
851-881 - - (Bottom) Longview fm.

The following mineralization was encountered:

732-735 - 3' - Scattered traces of sphalerite
763-767 - 4' - " " " "
863-867 - 4' - 2.44% Zn

Comments: The section below the 28 bed was 52% dolomitized.

Two holes are currently in progress:

Hole No.	Property
T-50	J. T. Cline
T-52	Henry Hopkins

Assays for holes T-47 and T-48 are as follows:

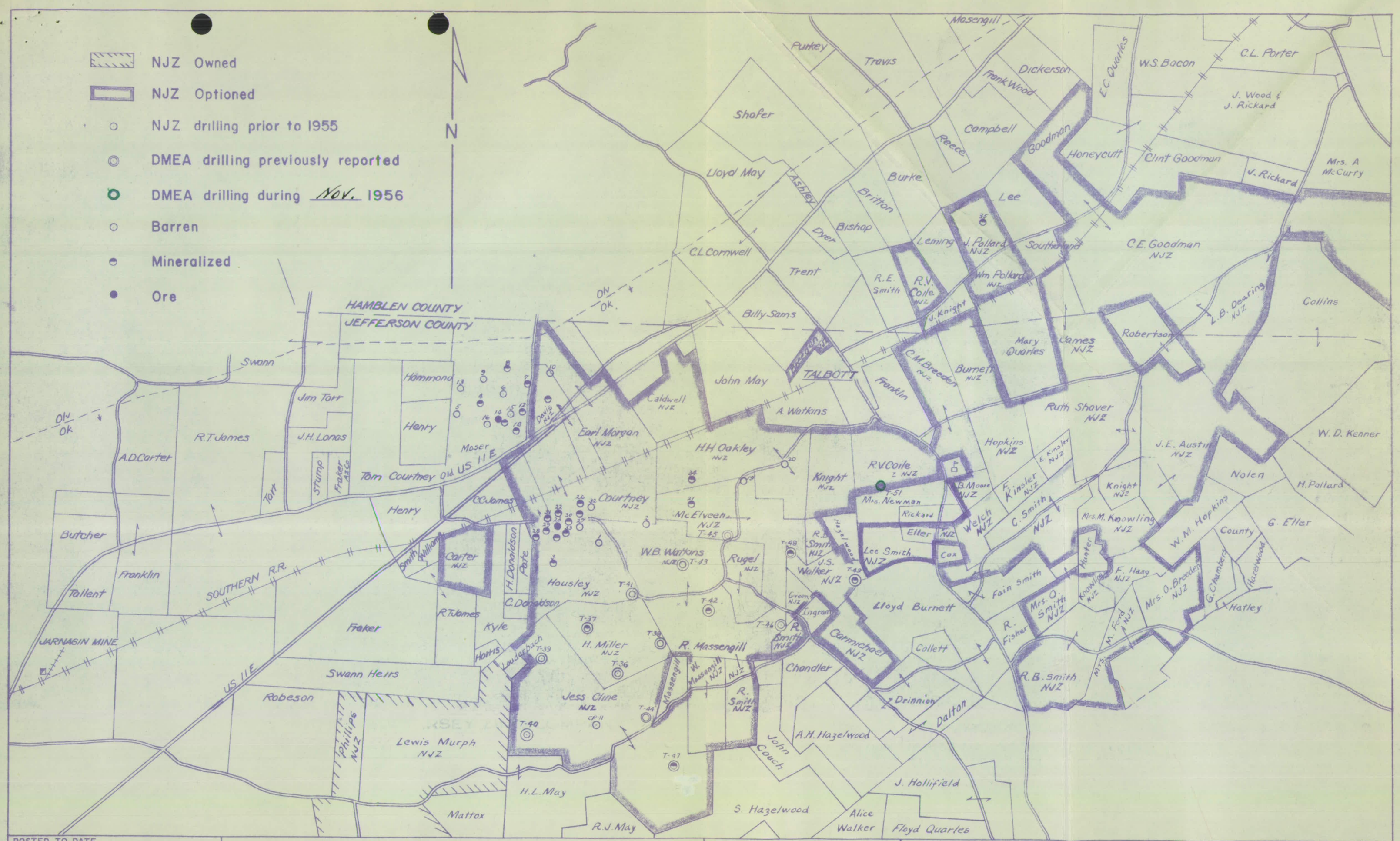
T-47

1778-1782 - 4' - 2.22% Zn)
1782-1787 - 5' - 1.45% Zn) 9' - @ 1.79

T-48

967-968	- 1'	- - 6.72% Zn		
977 -981	- 4'	- - 3.03% Zn)		
981-984	- 3'	- - Nil)	11' @ 2.05% Zn	
984-988	- 4'	- - 2.60% Zn)		
1013-1017	- 4'	- - 3.59% Zn)		
1017-1020	- 3'	- - Nil)	12' @ 1.68% Zn	
1020-1025	- 5'	- - 1.19% Zn)		

J. W. Phillips/jf



POSTED TO DATE 11-1-56	THE NEW JERSEY ZINC COMPANY JEFFERSON CITY TENNESSEE	DRAWN NJZ DATE 6/56 TRACED JWP SCALE 1"=2000'	PROPERTY MAP MORRISTOWN SECTOR - TALBOTT AREA
			JEFFERSON & HAMBLEN Cos., TENN FILE NO. AX-TENN-B 247a

RECEIVED
JAN 7 1957
D.M.E.A.

INTERIM REPORT

DMEA-4119, Idm-E936 - Zinc

RECEIVED DEC 28 1956 D.M.E.A.

Operator: The New Jersey Zinc Company, Jefferson City, Tennessee

Location: Talbot area, Jefferson and Hamblen Counties, Tennessee

The drilling to date on New Jersey Zinc's Talbot project is summarized as follows:

Drilling completed:

Footage in holes completed since last inspection	1,990
Total footage in holes completed to date	22,743
Number of holes completed since last inspection	1
Total number of holes completed to date	16
Number of holes showing commercial zinc ore	1
No. of holes showing non-commercial zinc mineralization	7
Number of barren holes	8

Drilling in progress:

Number of holes in progress	2
Footage drilled since last inspection	815
Total footage drilled in incompleted holes	815

Pertinent data on the hole completed since the last inspection follows:

Hole No.	Property	Depth	Remarks
T-50	J.T.Cline	1990	Kingsport-Longview contact @ 1920' Trace of fluorite @ 1415' Barren hole.

The two holes currently in progress are summarized as follows:

Hole No.	Property	Depth	Estimated depth	Remarks
T-52	Henry Hopkins	762	885	Collared in Mascot and currently drilling in Kingsport fm.
T-53	A. B. Moore	53	1100	Collared and currently drilling in Mascot fm.

Inspected: December 12, 1956

V. J. Lynch, Mining Engineer
U. S. Bureau of Mines

Helmuth Wedow, Geologist
U. S. Geological Survey

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DEC 10 1956
D.M.E.A.

INTERIM REPORT

DMEA-4119, Idm-E936 - Zinc

Operator: The New Jersey Zinc Company, Jefferson City, Tennessee

Location: Talbot Area, Jefferson and Hamblen Counties, Tennessee

Of the two drills operating on this project, one was drilling and the other setting up on a new hole location. A summary of the diamond drilling in completed holes follows:

	This report	Last report
Date of inspection	11/28/56	11/14/56
Total holes completed	15	14
Footage in holes completed	20,753	19,872

Pertinent preliminary data on the one completed hole are listed below:

Hole No.	Depth	Remarks
T-51	881	Bottomed in Longview fm; base of Kingsport fm at 851 ft; zinc occurrences as follows:
		1 ft of esti. 4.0% Zn 732 - 733 ft
		Traces 733 - 735 "
		Local shine 763 - 767 "
		5 " of esti. 2% Zn 862 - 867 "

Of the 15 holes completed to date in the Talbot Area, 7 are blank, 7 have shown non-commercial zinc mineralization, and 1 is considered to have penetrated commercial grade ore.

Two holes are in progress. The total footage drilled in these holes is 1,729, of which 416 feet was drilled since the last inspection date. Data on these holes are summarized below:

Hole No.	Depth	Esti.depth	Remarks
T-50	1,729	2000	In Kingsport fm; Koppick Knob fault @ 1072, Rocktown fault @ 1426, Chert Matrix @ 1620.
T-52	--	800	Setting up.

Inspected: November 28, 1956

Helmuth Wedow, Geologist
U. S. Geological Survey

z

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NOV 23 1956
DMEA

INTERIM REPORT
DMEA-4119, Idm-E936 - Zinc

Operators: The New Jersey Zinc Company, Jefferson City, Tenn.

Location : Talbot Area, Jefferson and Hamblen Counties, Tenn.

Two drills are currently in operation at this project. No holes have been completed since the last interim report.

A summary of the two holes in progress following:

Hole No,	Depth	Esti. Depth	Remarks
T-50	1313	2000	In Mascot fm-below Kopick Knob fault.
T-51	437	1000	In Mascot fm - Rocktown fault @ 373 ft

Inspected: November 14, 1956

V. J. Lynch, Mining Engineer
U. S. Bureau of Mines

Helmuth Wedow, Geologist
U. S. Geological Survey

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INTERIM REPORT

DMEA-4119, Idm-E936-Zinc

Operator: The New Jersey Zinc Company - Jefferson City, Tenn.

Location: Talbot Area, Jefferson & Hamblen Counties, Tennessee

Two drills are operating on this project. On this date one machine was drilling and the other was moving to a new drill site.

Three holes have been completed since the last interim report of October 9, making a grand total of 19,872 feet drilled in 14 holes.

A summary of the last three completed holes follows:

Hole No. & Prop.	Depth	Remarks
T-47, J.T. Cline	1939	9 ft of 2.0% Zn @ 1778 - 1787 ft
T-48, J.S. Walker	1110	1 " " 6.72% Zn @ 967-968 ft 11 " " 2.05% Zn @ 977-988 Ft 12 " " 1.68% Zn @ 1013-1025 ft
T-49, J.S. Walker	1235	Trace of Zn @ 598 ft and 1190 ft

A summary of the hole now in progress follows:

Hole No. & Prop.	Depth	Esti. Depth	Remarks
T-50, J.T. Cline	396	2000	Now in middle Kingsport fm. The 108 bed at 64'

Hole T-48 will probably be called an ore hole, the first hole in the Talbot area to discover commercial ore. Seven other holes have revealed non-commercial zinc mineralization and six have been blank.

Inspected: November 1, 1956

V. J. Lynch, Mining Engineer
U. S. Bureau of Mines

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

Budget Bureau No. 42-R036.5

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 October 1956 Docket No. DMEA 4119 Contract No. E 936
Operator's Name The New Jersey Zinc Company Minerals Zinc
Address Jefferson City, Tennessee
Contract Amount, $ 156,250.00 Government Participation: 50% Amount, $ 78,125.00

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	9,212.95	33,060.95	42,273.90	12/6/56		
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor						
Supervision	1,370.88	4,988.16	6,359.04			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
Totals	10,583.83	38,049.11	48,632.94	10583.83	38049.11	48 632.94

RECEIVED NOV 28 1956 D.M.E.A.

I certify that the above bill is correct and just and that payment therefor has not been received.
Date Nov. 4 1956 *Payee The New Jersey Zinc Company
Per [signature] Title Asst. to the 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:
$ 5291.92
Signature Helen R. Mullin (Authorized Certifying Officer)
Date NOV 21 1956 Vou. No. 77
(See other side)

5291.91

(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. E936 in accordance with the terms of the contract.

Signature V. J. Lynch Title MINING ENGINEER U. S. BUREAU OF MINES Date NOV 20 1956

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Robert A. Lawrence Title EXECUTIVE OFFICER DMEA REGION V Date NOV 20 1956

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 October 1956 Docket No. DMEA 4119 Contract No. B 936

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	Ft.	6,150.00	3,000	28,350.00	14,000	2.025	48,000	2.16
Chu 1000-1500	"	1,943.50	845	11,035.25	4,796	2,300	10,000	2.66
Aug 1500-2000	"	1,119.45	439	2,887.85	1,076	2,684	2,000	3.16
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Supervisory and Technical	"	1,370.88	4,281	6,359.04	19,872	0.32	60,000	0.32
TOTAL DISTRIBUTED COSTS		10,583.83		48,632.14				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS								

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 drill holes T-47, 48, & 49

Date Nov. 1, 1956 Operator The New Jersey Zinc Co.

Per [signature] Title Asst. to the 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)

W. J. Lynch
MINING E...
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

MORRISTOWN SECTOR - TALBOT AREA

DMEA Docket No. 4119 - Contract No. E936

Two drills operated in the subject area during the month. Three holes T-47, T-48 and T-49, located on maps AX-TENN-B-247a, were completed. A summary of these holes follows:

Hole T-47

Coordinates: 16,655.03 N; 26,957.20 E
Collar Elevation: 1333.91

Received 1956 DMEA

Depth	Remarks
0- 33	Overburden
33- 406	Disturbed Lower Mascot and Upper Kingsport
406- 507	Lower Kingsport limestone
507- 788	Longview dolomite
788-1221	Chepultepec formation
1221	Koppick Knob thrust fault
1221-1532	Mascot dolomite
1532-1756	Upper Kingsport
1756	28 Bed
1756-1854	Lower Kingsport "Dry breccia"
1854-1939 (Bottom)	Longview dolomite

The following mineralization was encountered:

1774 - - - - - - - - - Trace of sphalerite
1778-1787 - 9' - 1.79% Zn
1794,1797,1815,1828,1859,1860 - Traces of sphalerite

The section from 1730-1843 feet consisted of a "dry breccia" identical to that found in hole T-44. The section below the 28 bed was 100% dolomitized.

Hole T-48

Coordinates: 21,720.91 N; 30,050.78 E
Collar Elevation: 1236.29

Depth	Remarks
0- 5	Overburden
5-758	Mascot dolomite
758-966	Upper Kingsport
886	108 Bed
966	28 Bed
966-1047	Lower Kingsport
1047-1110 (Bottom)	Longview dolomite

The section below the 28 bed was 56% dolomitized. The following mineralization was encountered:

967-968 - - 1' - - 6.72% Zn
977-988 - 11' - - 2.05% Zn
1013-1025 - 12' - - 1.68% Zn

This is the most encouraging mineralization encountered in the present Talbott area drilling program.

Hole T-49

Coordinates: 21,245.00 N; 31,676.49 E
Collar Elevation: 1253.95

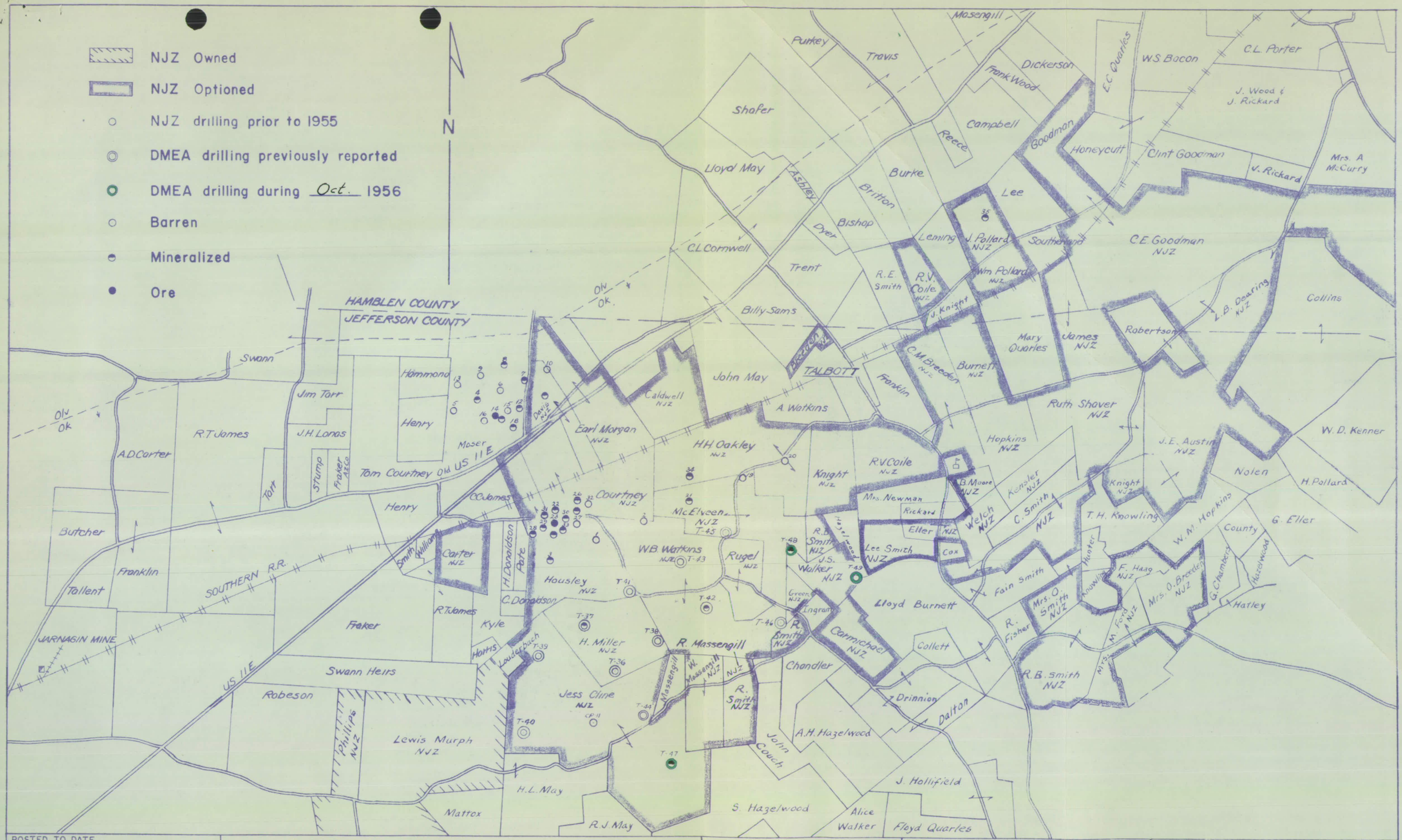
Depth	Remarks
0- 4	Overburden
4-857	Mascot dolomite
857-1054	Upper Kingsport
973	108 Bed
1054	28 Bed
1054-1165	Lower Kingsport
1165-1235 (Bottom)	Longview dolomite

The section below the 28 bed was 22% dolomitized. A strong shine of sphalerite was encountered from 1190 to 1191 feet. No other mineralization was encountered.

Two holes are currently in progress:

Hole No.	Property
T-50	J. T. Cline
T-51	R. V. Coile

J. W. Phillips/jf



POSTED TO DATE	THE NEW JERSEY ZINC COMPANY JEFFERSON CITY TENNESSEE	DRAWN NJZ DATE 6/56 TRACED JWP SCALE 1"=2000'	PROPERTY MAP MORRISTOWN SECTOR - TALBOTT AREA
			JEFFERSON & HAMBLEN Cos., TENN FILE NO. AX - TENN - B 247a

RECEIVED
NOV 23 1956
D.M.E.A.

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 September, 1956 Docket No. DMEA 4119 Contract No. E 936

Operator's Name The New Jersey Zinc Company Minerals Zinc

Address Jefferson City, Tennessee

Contract Amount, $ 156,250.00 Government Participation: 50% Amount, $ 78,125.00

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	7,047.60	26,013.35	33,060.95		11/19/56 WAK	
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor						
Supervision	1,013.44	3,974.72	4,988.16			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	8,061.04	29,988.07	38,049.11	8061.04	29988.07	38 049.11

RECEIVED NOV 7 1956 DMEA

Approved
~~Approved~~
Betty

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

Date 10/18/56 *Payee The New Jersey Zinc Company

Per [signature] Title Asst. to the 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:

$ 4030.52

Signature [signature]
(Authorized Certifying Officer)

Date NOV 5 1956 Vou. No. 62
(See other side)

4030.52

(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-936 in accordance with the terms of the contract.

Signature V. J. Lynch Title Mining Eng. Date 10-23-56

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Robert A. Lawrence Title EXECUTIVE OFFICER DMEA REGION V Date OCT 24 1956

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 NOV 8 1956

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of Sept. 1956 Docket No. DMEA 4119 Contract No. E 936
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	ft.	4,050.00	2,000	22,200.00	11,000	2.018	48,000	2.16
Chu 1000-1500	ft.	2,091.75	870	9,091.75	3,951	2,301	10,000	2.66
Aug 1500-2000	ft.	905.85	297	1,768.40	637	2,776	2,000	3.16
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Supervisory & Technical	ft.	1,013.44	3,167	4,988.16	15,588	0.32	60,000	0.32
Total Distributed Costs		8,061.04		38,048.31				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs		8,061.04		38,048.31				156,250.00

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 10/18/56 Operator The New Jersey Zinc Co.

Per [signature] Title Asst. to the Supt.

Remarks: This report includes drill holes T-44 and T-46

→ 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)

W. J. Lynch
Bureau of Mines
10-23-56

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

RECEIVED NOV 1956 D.M.E.A.

Morristown Sector - Talbott Area

DMEA Docket No. 4119 - Contract No. E-936

Two drills operated in the subject area during the month. Holes T-44 and T-46, located on map AX-TENN-B-247a, were completed. Longitudinal sections 1, 2 and 3 (AX-TENN-D-1204) and cross section AX-TENN-B-1182 show the DMEA drilling completed to date.

Following is a summary of holes T-44 and T-46:

Hole T-44

Coordinates: 17,746.77 N; 26,335.23 E
Collar Elevation: 1300.73

Depth	Remarks
0- 6	Overburden
6-1427	Mascot dolomite
1427-1771	Kingsport dolomite
1771-1797 (Bottom)	Longview dolomite

No mineralization was encountered. The Kingsport section was 100% dolomitized. The section from 1492 to 1719 was brecciated and all marker beds were unidentifiable.

Hole T-46

Coordinates: 19,900.56 N; 29,646.27 E
Collar Elevation: 1254.66

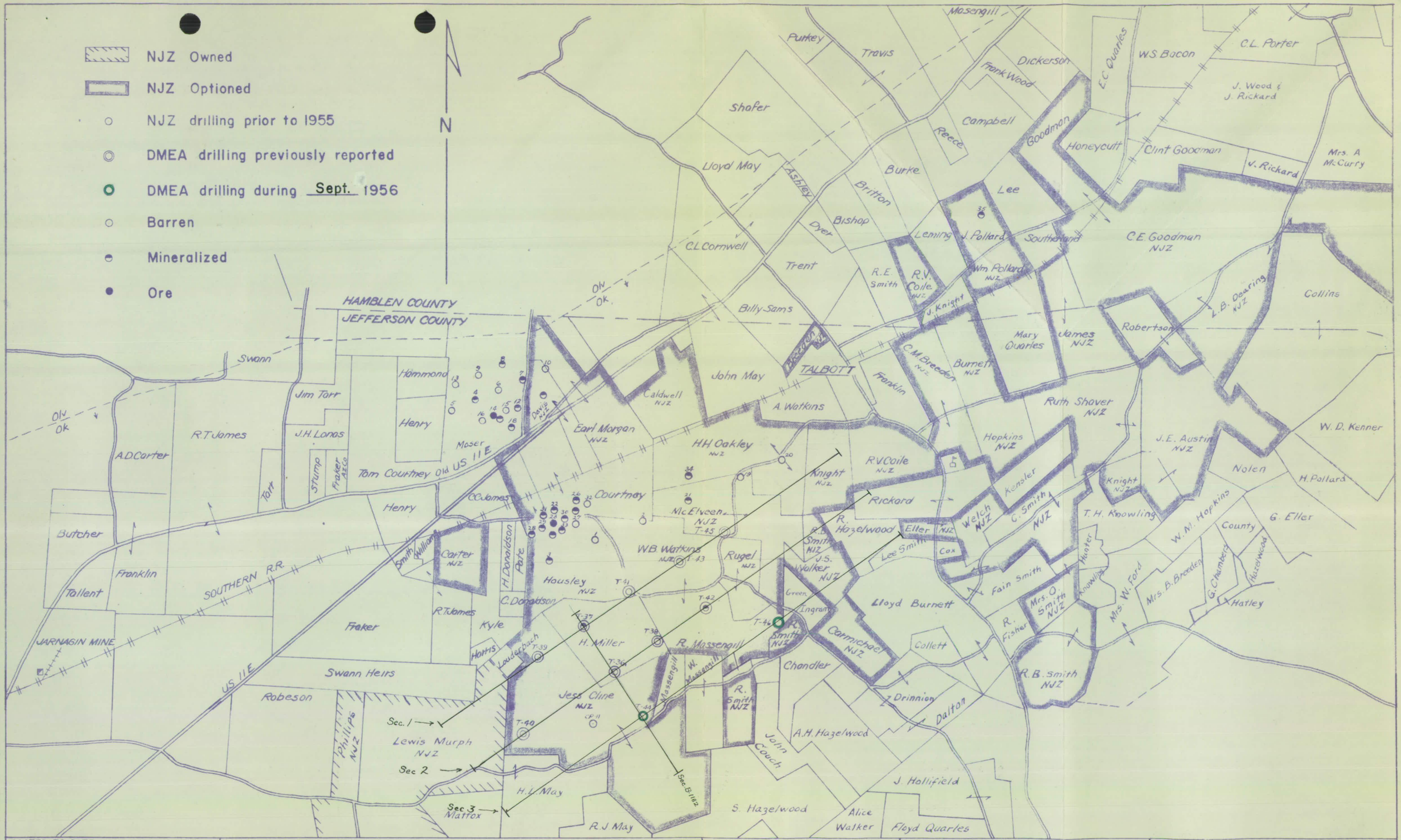
Depth	Remarks
0- 14	Overburden
14-1020	Mascot dolomite
1020	Chert Matrix
1020-1226	Upper Kingsport
1226	28 Bed
1226-1227	Lower Kingsport limestone
1227-1237	" " fine dolomite
1237-1256	" " limestone
1256-1257	" " fine dolomite
1257-1260	" " limestone
1260-1264	" " fine dolomite
1264-1269	" " limestone
1269-1272	" " fine dolomite
1272-1286	" " limestone

Depth	Remarks
1286-1291	Lower Kingsport fine dolomite
1291-1317	" " limestone
1317-1318	" " fine dolomite
1318-1322	" " limestone
1322-1324	" " fine dolomite
1324	"S" Sandgrains
1324-1329	Lower Kingsport limestone
1329-1365	Longview limestone
1365-1370 (Bottom)	Longview fine dolomite

No mineralization was encountered.

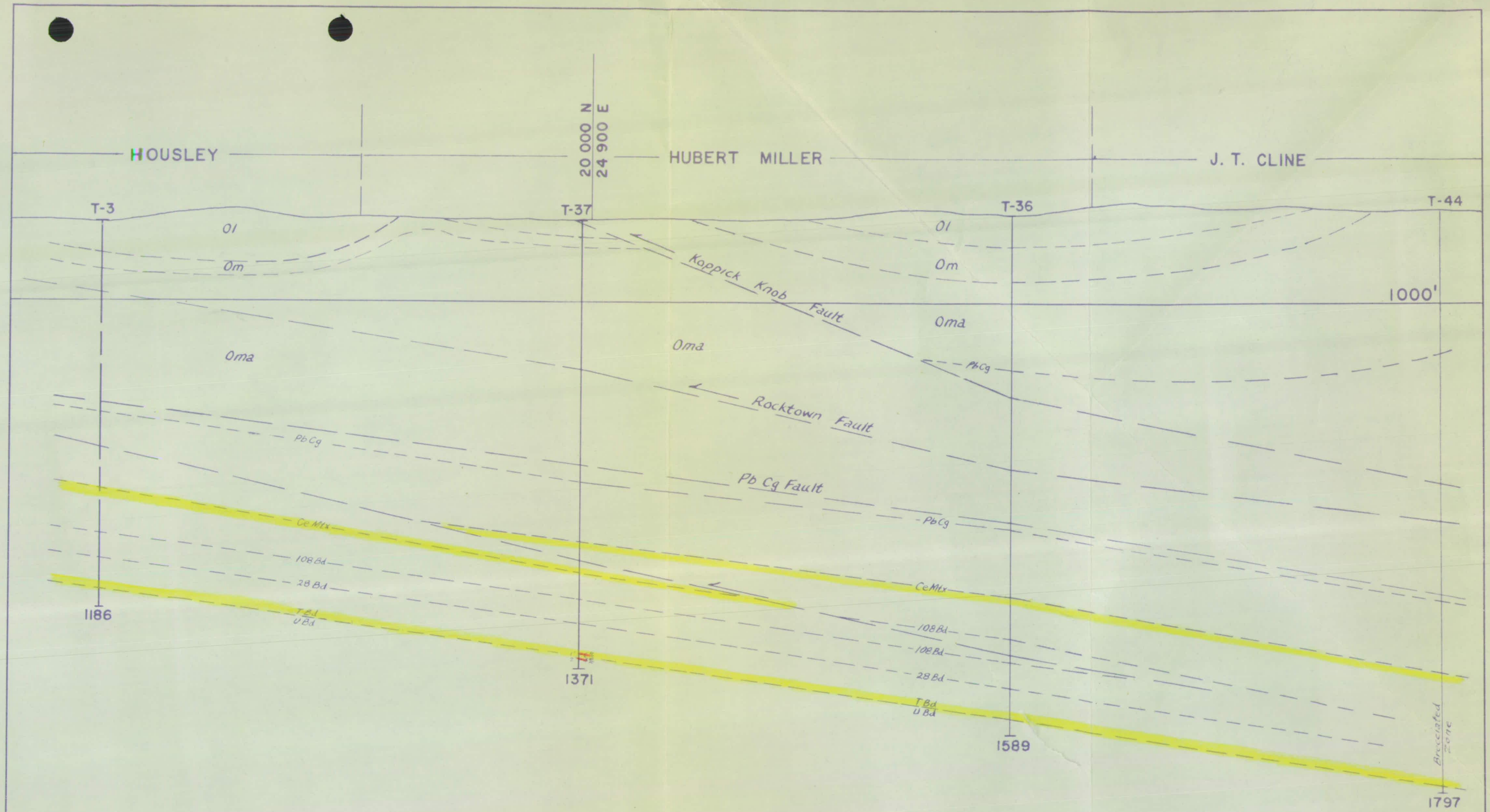
Two holes are currently in progress:

Hole No.	Property
T-47	J. T. Cline
T-48	J. S. Walker



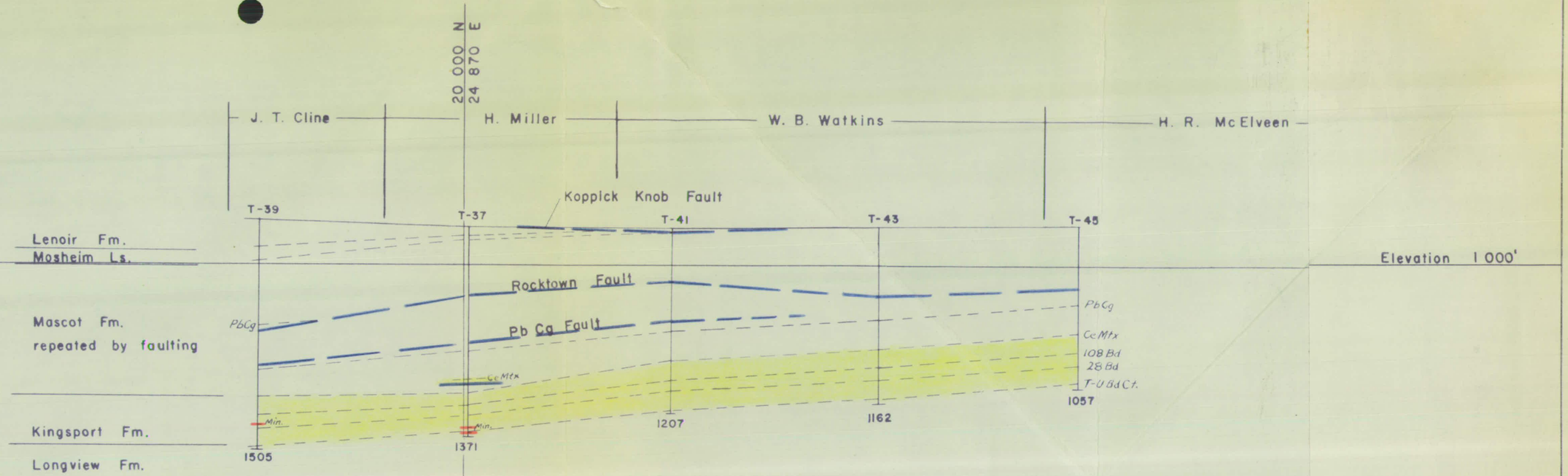
POSTED TO DATE	THE NEW JERSEY ZINC COMPANY JEFFERSON CITY TENNESSEE	DRAWN NJZ DATE 6/56 TRACED JWP SCALE 1"=2000'	PROPERTY MAP MORRISTOWN SECTOR - TALBOTT AREA
			JEFFERSON & HAMBLEN Cos., TENN FILE NO. AX-TENN-B 247a

RECEIVED
NOV 7 1956
D.M.E.A.



SERIAL NUMBER		DATE ISSUED		REFERENCE DRAWINGS	REVISIONS	THE NEW JERSEY ZINC COMPANY	DRAWN JWP	MORRISTOWN SECTOR	DATE 7-56
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK. ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED. THIS DRAWING MUST BE RETURNED TO THE NEW JERSEY ZINC COMPANY.						JEFFERSON CITY, TENN	TRACED	TALBOTT AREA	SCALE 1" = 300'
							CHECKED		
							APPROVED	SECTION	

RECEIVED
NOV 7 1956
D.M.E.A.


20 000 N
24 870 E
J. T. Cline
H. Miller
W. B. Watkins
H. R. McElveen
Koppick Knob Fault
T-39
T-37
T-41
T-43
T-45
Elevation 1 000'
Lenoir Fm.
Mosheim Ls.
Rocktown Fault
Mascot Fm.
repeated by faulting
PbCg
Pb Cg Fault
CeMtx
108 Bd
28 Bd
T-U Bd Ct.
Min.
Kingsport Fm.
Longview Fm.
1505
1371
1207
1162
1057

SECTION 1

4119

ACTION ON INTERIM
OR FINAL FIELD TEAM REPORT
Date 10-12

Referred to:

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

Note comments in report regarding:

1.

2.

3.

4.

and take appropriate action.

- - - - - - - -

Action taken by Division:

Robert E. Adams

INTERIM REPORT

DMEA-4119, Idm-E936 - Zinc

Operator: The New Jersey Zinc Co., Jefferson City, Tennessee

Location: Talbott Area, Jefferson & Hamblen Counties, Tennessee

Eleven drill holes totaling 15,588 feet have been completed on this contract. No holes have bottomed since the date of the last interim report of September 25, 1956.

Two holes are currently in progress. A summary of these holes is as follows:

Hole No. & Prop.	Depth	Est. depth	Remarks
T-47, J.T. Cline	1474	2000	In Mascot fm
T-48, J. S. Walker	868	1100	In Kingsport fm. Chert Matrix @ 758

Of the 11 holes completed , none have found zinc mineralization of commercial grade and mineable thickness, 5 have revealed non-commercial mineralization, and 6 have been blank.

Inspected: October 9, 1956

V. J. Lynch and Wm. A. Beck,
Mining Engineers, U.S. Bureau of Mines

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INTERIM REPORT

DMEA 4119, Idm-E 936 -Zinc

Operator: The New Jersey Zinc Company, Jefferson City, Tenn.

Location: Talbott Area, Jefferson and Hamblen Counties, Tenn.

Eleven drill holes totaling 15,588 feet have been completed on this contract. Two holes have bottomed since the date of the last interim report, September 11, 1956. A summary of these holes is as follows:

Hole No. & Property	Depth	Remarks
T-44, J. T. Cline	1797	Blank
T-46, W. B. Watkins	1370	Blank

One hole is currently in progress and one drill is moving. A summary of this hole is as follows:

Hole No. & Prop.	Depth	Esti.Depth	Remarks
T-47, J.T. Cline	556	2000	Above the Koppick Knob thrust fault.

Inspected: September 25, 1956

Wm. A. Beck, Mining Engineer
Bureau of Mines

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of August 1956 Docket No. DMEA 4119 Contract No. E936
Operator's Name The New Jersey Zinc Company Minerals Zinc
Address Jefferson City, Tennessee
Contract Amount, $156,250.00 Government Participation: 50 % Amount, $78,125.00

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	4,492.75	21,520.60	26,013.35	10/9/56.	W.P.K.	Brewood
Bulldozing						~~Bulldozer~~
Crosscutting						
Drifting						
						Betty
(2) Labor and Supervision:						
Labor						
Supervision	710.08	3,264.64	3,974.72			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	5,202.83	24,785.24	29,988.07	5,202.83	24,785.24	29,988.07

I certify that the above bill is correct and just and that payment therefor has not been received.
Date 9/1/56 *Payee The New Jersey Zinc Company
Per [signature] Title Asst. to the 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:
$2,601.41
Signature Helen R. Miller
(Authorized Certifying Officer)
Date SEP 19 1956 Vou. No. 45
(See other side)

2,601.42

(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 E936 in accordance with the terms of the contract.

Signature L. O. Beck Title Mining Engr. USBM Date SEP 18 1956

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Robert A. Lawrence Title EXECUTIVE OFFICER DMEA REGION V Date SEP 18 1956

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 August 1956 Docket No. DMEA 4119 Contract No. 1936

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	ft.	4000.00	2000	18,150.00	9000	2.017	48,000	2.16
Chip 1000-1500	ft.	492.75	219	7,000.00	3081	2.272	10,000	2.66
Auger 1500-2000	ft.	--	--	862.55	340	2.537	2,000	3.16
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Supervision & Technical	ft.	710.08	2219	3,974.72	12,421	0.32	60,000	0.32
Total Distributed Costs		5,202.83		29,988.07				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs		5,202.83		29,988.07				156,250.00

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 9/1/56 Operator The New Jersey Zinc Co.

Per [signature] Title Asst. to the Supt.

Remarks: This report includes drill holes T-43 and T-45.

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)

W. A. Beck, Mining Engineer
U.S.B.M.

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

Morristown Sector - Talbott Area

DNEA Docket No. 4119 - Contract No. E936

Two drills operated in the subject area during the month. Two holes, T-43 and T-45, located on map AX-TENN-B-247a, were completed. A summary of these holes follows:

Hole T-43

Coordinates - 21,418.41N 27,116.65E
Collar Elevation - 1263.58'

Depth	Remarks
0- 32	Overburden
32-803	Mascot dolomite
803-1013	Upper Kingsport
930	108 Bed
1013	28 Bed
1013-1017	Lower Kingsport limestone
1017-1018	Lower Kingsport fine dolomite
1018-1022	Lower Kingsport limestone
1022-1026	Lower Kingsport fine dolomite
1026-1047	Lower Kingsport limestone
1047-1054	Lower Kingsport fine dolomite
1054-1080	Lower Kingsport limestone
1080-1083	Lower Kingsport fine dolomite
1083-1123	Lower Kingsport limestone
1116	"S" sandgrains
1123-1126	Longview fine dolomite
1126-1153	Longview limestone
1153-1162 (Bottom)	Longview fine dolomite

No mineralization was encountered.

Hole T-45

Coordinates - 22,030.83N 28,230.43E
Collar Elevation - 1263.63'

Depth	Remarks
0- 12	Overburden
12- 700	Mascot dolomite
700- 912	Upper Kingsport
827	108 Bed
912	28 Bed
912- 921	Lower Kingsport limestone
921- 924	Lower Kingsport fine to coarse dolomite

Hole T-45 Cont'd.

Depth	Remarks
924- 934	Lower Kingsport limestone
934- 949	Lower Kingsport fine to coarse dolomite
949- 954	Lower Kingsport limestone
954- 957	Lower Kingsport fine to medium dolomite
957-1009	Lower Kingsport limestone
1009-1011	Lower Kingsport fine dolomite
1011-1018	Lower Kingsport limestone
1011	"S" sandgrains
1018-1033	Longview limestone
1033-1034	Longview fine dolomite
1034-1048	Longview limestone
1048-1057 (Bottom)	Longview fine to medium dolomite

No mineralization was encountered.

Two holes are currently in progress:

Hole No.	Property
T-44	J. T. Cline
T-46	W. B. Watkins

Morristown Sector - Talbott Area

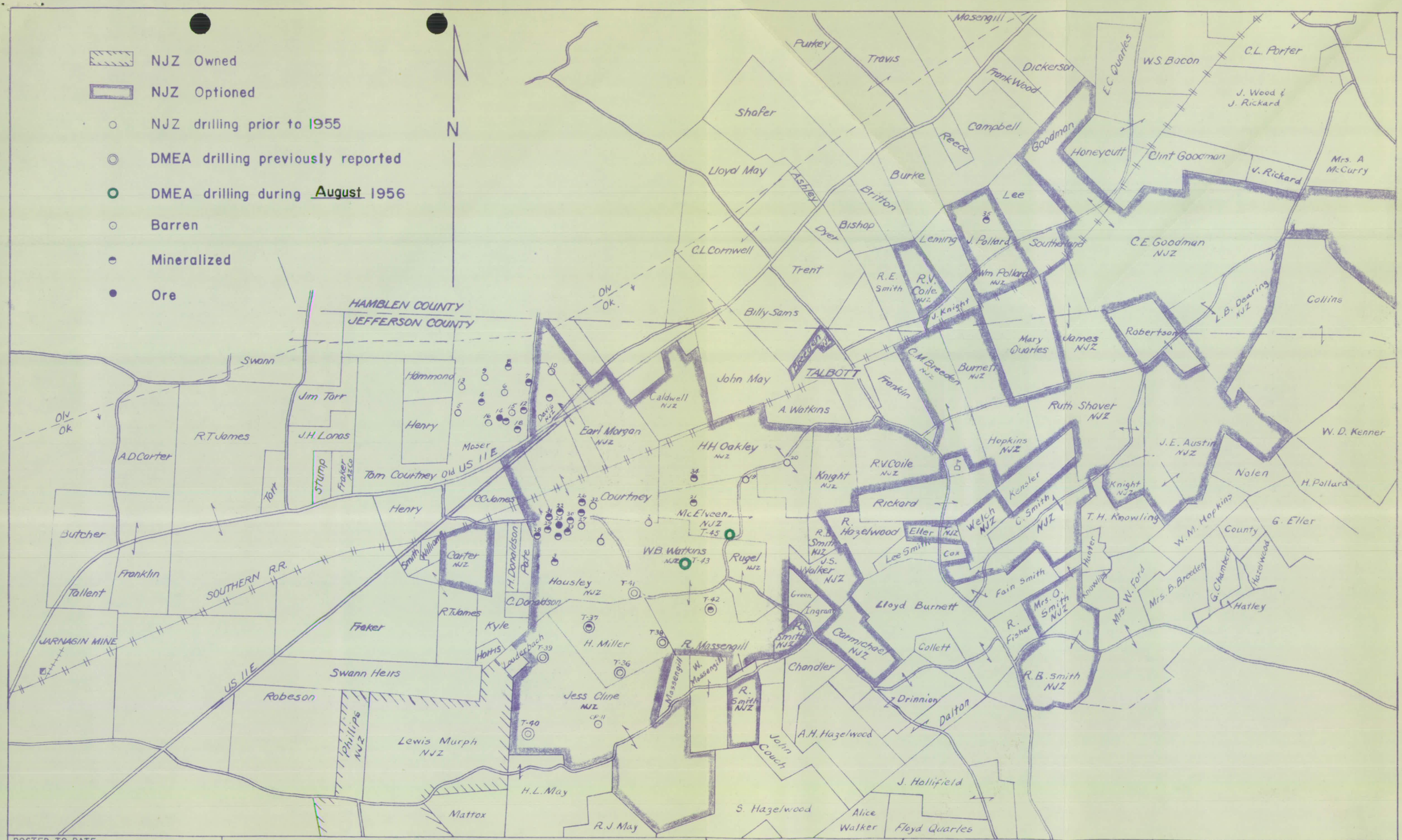
DMEA 4119

Contract Idm E-937 (Zinc)

Coordinates and Elevations of Drill Holes

Hole No.	Coordinates	Collar Elevation
T-36	18,907.72N; 25,580.87E	1269.46
T-37	20,027.65N; 24,900.89E	1247.26
T-38	19,596.73N; 26,715.88E	1288.18
T-39	19,346.78N; 23,743.78E	1290.75
T-40	17,468.37N; 23,372.90E	1270.97
T-41	20,710.11N; 26,003.33E	1237.03
T-42	20,345.52N; 27,837.06E	1245.97
T-44	17,746.77N; 26,335.20E	1300.73

(Note: The above tabulation applies to holes already reported. In the future, coordinates will be reported as the holes are completed.)



POSTED TO DATE	THE NEW JERSEY ZINC COMPANY JEFFERSON CITY TENNESSEE	DRAWN NJZ DATE 6/56 TRACED JWP SCALE 1" = 2000'	PROPERTY MAP MORRISTOWN SECTOR - TALBOTT AREA
			JEFFERSON & HAMBLEN Cos., TENN FILE NO. AX - TENN - B 247a

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INTERIM REPORT

DMEA-4119, Idm-E936 - Zinc

Operator: The New Jersey Zinc Company, Jefferson City, Tennessee

Location: Talbot Area, Jefferson and Hamblen Counties, Tennessee

Nine drill holes totalling 12,421 feet have been completed on this contract. One hole has bottomed since the date of the last interim report, August 28, 1956. A summary of this hole is as follows:

Hole No. & Prop.	Depth	Remarks
T-45, H.R.McElveen	1057	Blank

Two holes are currently in progress. A summary of these holes is as follows:

Hole No. & Prop.	Depth	Esti depth	Remarks
T-44, J.T. Cline	1666	1800	In lower Kingsport fm. Chert matrix @ 1427 ft.
T-46, W.B. Watkins	626	1400	In Mascot fm.

Ore has not been discovered in any of the 9 completed holes. Non-commercial zinc mineralization was found in 4 of the holes and 5 were blank.

Inspected: September 11, 1956

Wm. A. Beck, Mining Engineer
Bureau of Mines

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INTERIM REPORT

DMEA-4119, Idm-E936 (Zinc)

Operator: The New Jersey Zinc Co., Jefferson City, Tennessee

Location: Talbott Area, Jefferson and Hamblen Counties, Tennessee

Eight drill holes totaling 11,364 feet have been completed on this contract. No holes have bottomed since the date of the last interim report (August 14, 1956).

Two holes are currently in progress. A summary of these two is as follows:

Hole No. & Property	Depth	Esti. Depth	Remarks
T-44 J. T. Cline	1234	1800	In Mascot fm. Much repetition of beds due to faulting.
T-45 McElveen	906	1100	In Mascot fm.

Ore has not been discovered in any of the 8 completed holes. Non-commercial zinc mineralization was encountered in 4 of the holes and 4 were blank.

Recent progress on this contract has been very slow due to lost bits, a drill breakdown and inability to hire a crew for a third drill.

Inspected: August 28, 1956

Wm. A. Beck, Mining Engineer
U. S. Bureau of Mines

and

D. H. Amos, Geologist
U. S. Geological Survey

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RECEIVED
AUG 17 1956

INTERIM REPORT

DMEA-4119,Idm-E936 (Zinc)

Operator: The New Jersey Zinc Co., Jefferson City, Tennessee

Location: Talbott Area, Jefferson and Hamblen Counties, Tennessee

Eight drill holes totaling 11,364 feet have been completed on this contract. One hole has bottomed since the date of the last interim report (July 30). A summary of this hole is as follows:

Hole No. & Property	Depth	Remarks
T-43, W. B. Watkins	1162	Blank

Two holes are currently in progress. A summary of these two is as follows:

Hole No. & Prop.	Depth	Esti. Depth	Remarks
T-44 J.T. Cline	1063	1800	In lower part of Mascot fm. above Koppick Knob thrust. Much repetition of beds due to faulting.
T-45, McElveen	57	1200	In middle of Mascot fm.

Ore has not been discovered in any of the 8 completed holes Non-commercial zinc mineralization was encountered in 4 of the holes and 4 were blank.

Recent progress on this contract has been slow due to breakdown of two of the drills and inability to hire a crew for a third drill.

Inspected: August 14, 1956

V. J. Lynch, Mining Engineer
U.S. Bureau of Mines

D. H. Amos, Geologist
U.S. Geological Survey

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

Budget Bureau No. 42-R1036.5

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

Month of July 6 1956 Docket No. DMEA 4119 Contract No. E936

Operator's Name The New Jersey Zinc Company Minerals Zinc

Address Jefferson City, Tennessee

Contract Amount, $ 156,250.00 Government Participation: 50 % Amount, $ 78,125.00

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	9,017.55	12,503.05	21,520.60	10/4/56	[illegible]	[illegible]
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor / Supervision	1,368.00	1,896.64	3,264.64			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	$10,385.55	$14,399.69	$24,785.24	$10,385.55	$14,399.69	$24,785.24

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

Date 8/17/56 *Payee The New Jersey Zinc Company

Per [signature] Title Asst. to the 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:

$ 5,192.78

Signature Helen R. Meiler
(Authorized Certifying Officer)

Date AUG 22 1956 Vou. No. 31
(See other side)

AUG 24

5192.77

(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. 7-E 936 in accordance with the terms of the contract.

Signature W. A. Beck Title Mining Engineer Date AUG 20 1956

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Robert A. Lawrence Title EXECUTIVE OFFICER DMEA REGION V Date AUG 20 1956

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 July 6 1956 Docket No. DMEA 4119 Contract No. E936

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	ft.	6,050.00	3000	14,150.00	7000	2,021	48,000	2.16
Drilling: Core 1000-1500	ft.	2,340.25	1029	6,508.05	2862	2,274	10,000	2.66
Churn 1500-2000	ft.	627.30	246	862.55	340	2,537	2,000	3.16
Auger								
Stripping								
Trenching								
Test Pits								
~~Equipment~~ Talon and Technical		1,360.00	4,275	3,264.64	10,202	0.32	60,000	0.32
Total Distributed Costs		$10,385.55		$24,785.24				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs		$10,385.55		$24,785.24				$156,250.00

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 8/17/56 Operator The New Jersey Zinc Co.

Per [signature] Title Asst. to the Supt.

Remarks: This report includes drill holes T-40, T-41 and T-42

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)

W. A. Beck Mining Engr.
U.S.B.M.

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

Morristown Sector - Talbott Area

DMEA Docket No. 4119 - Contract No. E936

Three drills operated in the subject area until July 14, 1956. As of the 14th drilling is temporarily on a two-drill basis. Three holes, T-40, T-41 and T-42, located as shown on map AX-TENN-B-247a were completed. A summary of these holes is as follows:

Hole	Depth	Remarks
T-40	0- 5	Overburden
	5-198	Lenoir limestone
	198-231	Mosheim limestone
	231-1418	Mascot dolomite
	1418-1618	Upper Kingsport
	1553	108 Bed
	1618	28 Bed
	1618-1623	Lower Kingsport limestone
	1623-1630	" " fine dolomite
	1630-1648	" " limestone
	1648-1654	" " fine dolomite
	1654-1660	" " limestone
	1660-1667	" " fine dolomite
	1667-1676	" " limestone
	1676-1681	" " fine dolomite
	1681-1713	" " limestone
	1713	"S" sandgrains
	1713-1717	Lower Kingsport limestone
	1717-1722	Longview limestone
	1722-1729	Longview medium dolomite with scattered traces of sphalerite
	1729-1735	Longview limestone with scattered traces of sphalerite
	1735-1740	Longview limestone
	1740-1742	" coarse dolomite
	1742-1746	(Bottom) Longview fine dolomite
T-41		
	0- 36	Overburden
	36-855	Mascot dolomite
	855-1065	Upper Kingsport
	983	108 Bed
	1065	28 Bed
	1065-1073	Lower Kingsport limestone
	1073-1075	" " fine dolomite
	1075-1099	" " limestone

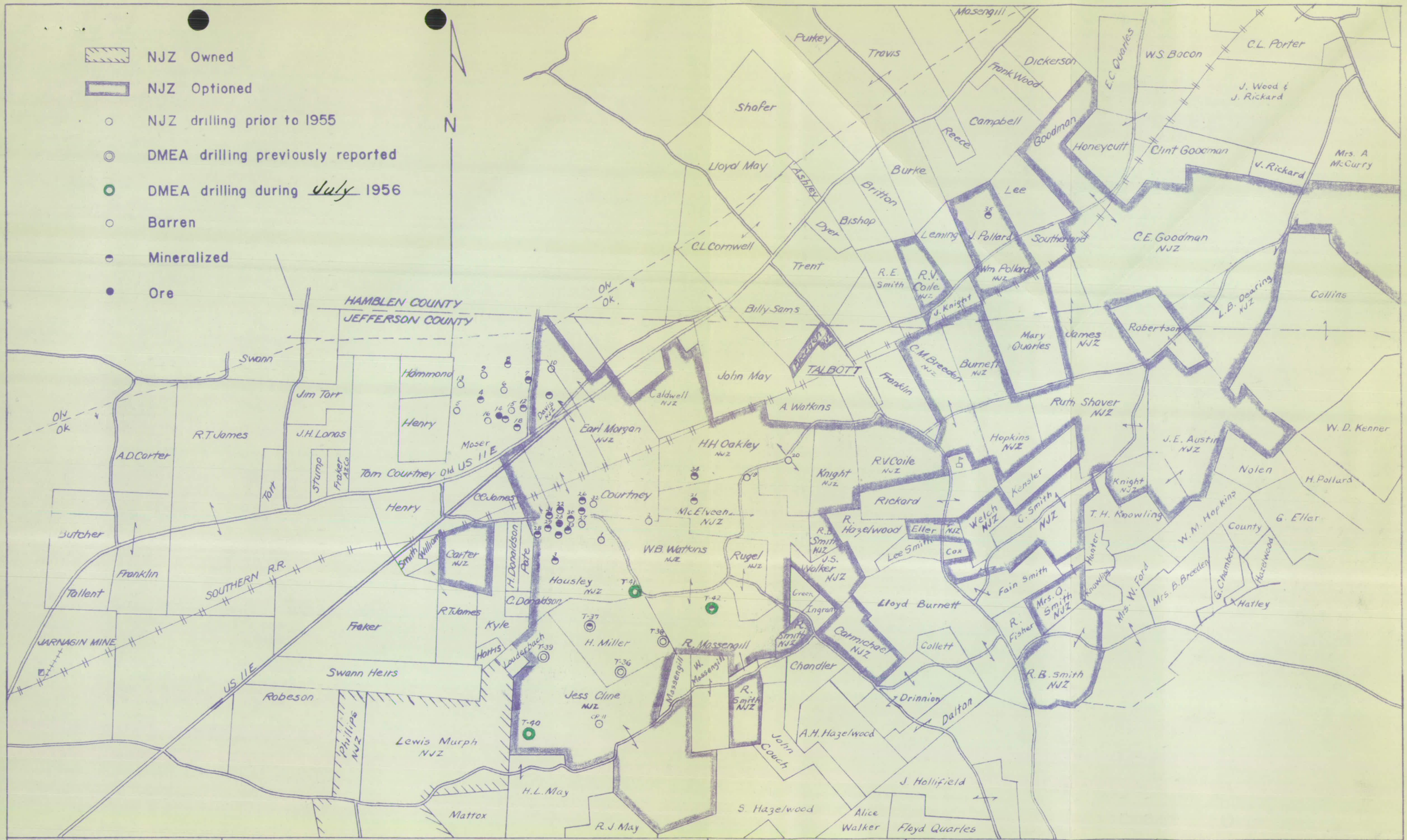
Hole	Depth	Remarks
Hole T-41 cont'd.	1099-1103	Lower Kingsport fine dolomite
	1103-1108	" " limestone
	1108-1111	" " medium dolomite
	1111-1117	" " limestone
	1117-1120	" " fine dolomite
	1120-1126	" " limestone
	1126-1130	" " fine dolomite
	1130-1162	" " limestone
	1162	"S" sandgrains
	1162-1169	Lower Kingsport limestone
	1169-1178	Longview fine dolomite
	1178-1200	" limestone
	1200-1207	(Bottom) Longview fine dolomite

No mineralization was encountered.

T-42	0- 13	Overburden
	13- 29	Mosheim limestone
	29-973	Mascot dolomite
	973-1188	Upper Kingsport
	1105	108 Bed
	1188	28 Bed
	1188-1190	Lower Kingsport coarse dolomite estimated 10% Zn
	1190-1193	Lower Kingsport fine dolomite estimated 1% Zn
	1193-1197	Lower Kingsport fine dolomite
	1197-1214	" " limestone
	1214-1215	" " fine dolomite
	1215-1219	" " limestone
	1219-1220	" " fine dolomite
	1220-1238	" " limestone
	1238-1242	" " fine dolomite
	1242-1246	" " coarse dolomite
	1246-1269	" " limestone
	1269-1273	" " "S" sandgrains
	1273-1279	" " limestone
	1279-1282	Longview fine dolomite
	1282-1295	" linestone
	1295-1300	" coarse dolomite
	1300-1322	(Bottom) Longview fine dolomite

Two holes are currently in progress:

Hole No.	Property
T-43	W. B. Watkins
T-44	J. T. Cline


NJZ Owned
NJZ Optioned
NJZ drilling prior to 1955
DMEA drilling previously reported
DMEA drilling during July 1956
Barren
Mineralized
Ore
N
HAMBLEN COUNTY
JEFFERSON COUNTY
Old U.S. 11E
SOUTHERN R.R.
U.S. 11E
JARNAGIN MINE
Swann
Jim Torr
Hammond
Henry
Moser
Tom Courtney
J.H. Lonas
Stump
Fraker
Torr
A.D. Carter
R.T. James
Butcher
Franklin
Tallent
Fraker
Swann Heirs
Robeson
Philips NJZ
Lewis Murph NJZ
Mattox
H.L. May
R.J. May
Smith
Williams
Carter NJZ
C.C. James
H. Donaldson
Pate
C. Donaldson
R. T. James
Kyle
Harris
Loudenback
Housley NJZ
H. Miller
Jess Cline NJZ
Courtney
Earl Morgan NJZ
Caldwell NJZ
Dewis NJZ
Shafer
Lloyd May
C.L. Cornwell
Trent
Billy Sams
Ashley
Dyer
Bishop
Britton
Burke
Reece
Campbell
Travis
Purkey
Mosengill
Frank Wood
Dickerson
Goodman
Honeycutt
E.C. Quarles
W.S. Bacon
C.L. Porter
J. Wood & J. Rickard
Clint Goodman
V. Rickard
Mrs. A. McCurry
Lee
Leming
J. Pollard
Southerland
C.E. Goodman NJZ
R.E. Smith
R.V. Coile NJZ
Wm. Pollard NJZ
J. Knight
Breeden NJZ
TALBOTT
John May
A. Watkins
Franklin
C.M. Breeden NJZ
Burnett NJZ
Mary Quarles
James NJZ
Robertson
L.B. Dearing NJZ
Collins
Ruth Shover NJZ
Hopkins NJZ
J.E. Austin NJZ
W.D. Kenner
Nolen
H. Pollard
H.H. Oakley NJZ
Knight NJZ
R.V. Coile NJZ
Rickard
Kensler
Knight NJZ
McElveen NJZ
W.B. Watkins NJZ
Rugel NJZ
R. Hazelwood
Eller NJZ
Welch NJZ
C. Smith NJZ
T.H. Knowling
W.M. Hopkins
County
G. Eller
Hazelwood
R.L. Smith NJZ
Lee Smith
Cox
Hunter
Fain Smith
Knowling
Mrs. W. Ford
Mrs. B. Breeden
G. Chambers
Hatley
J.S. Walker NJZ
Green
Ingram
Lloyd Burnett
Mrs. O. Smith NJZ
R. Fisher
R.B. Smith NJZ
R. Smith NJZ
Carmichael NJZ
Collett
Chandler
R. Massengill
Massengill
W. Massengill
R. Smith NJZ
Drinnion
Dalton
A.H. Hazelwood
John Couch
S. Hazelwood
Alice Walker
J. Hollifield
Floyd Quarles
T-36
T-37
T-38
T-39
T-40
T-41
T-42
CP-11
POSTED TO DATE
THE NEW JERSEY ZINC COMPANY
JEFFERSON CITY TENNESSEE
DRAWN NJZ
DATE 6/56
TRACED JWP
SCALE 1"=2000'
PROPERTY MAP
MORRISTOWN SECTOR - TALBOTT AREA
JEFFERSON & HAMBLEN Cos., TENN
FILE NO. AX - TENN - B 247a

INTERIM REPORT

RECEIVED
AUG - 3 1956

DMEA-4119, Idm-E936 (zinc)

Operator: The New Jersey Zinc Company, Jefferson City, Tennessee

Location: Talbott Area, Jefferson and Hamblen Counties, Tennessee

Seven drill holes totaling 10,202 feet have been completed on this contract. Three holes have bottomed since the last interim report (July 13). A summary of these latter holes is as follows:

Hole No. & Prop.	Depth	Remarks
T-40, J. T. Cline	1746	Traces of sphalerite at 1722 - 1735 ft.
T-41, H. Housley	1207	Blank
T-42, W. B. Watkins	1322	3 ft. of esti. 1% Zn at 1190 - 1193 ft.

Two holes are currently in progress. A summary of these holes is as follows:

Hole No. & Prop.	Depth	Esti-depth	Remarks
T-43, W. B. Watkins	573	1200	In upper part of Mascot fm
T-44, J. T. Cline	643	1800	In Mascot fm. Koppick Knob thrust fault (also called Bays Mt. and Rocky Valley) at 575 - 585 ft.

Ore has not been discovered in any of the 7 completed holes. Non-commercial zinc mineralization was encountered in 4 of the holes and 3 were blank.

Inspected: July 30, 1956

V. J. Lynch, Mining Engineer
Bureau of Mines

D. H. Amos, Geologist
Geological Survey

z

INTERIM REPORT

DMEA-4119, Idm-E936 (zinc)

Operator: The New Jersey Zinc Company, Jefferson City, Tennessee

Location: Talbot Area, Jefferson and Hamblen Counties, Tennessee

None of the drill holes were completed since the last interim report of June 26. The footage for completed holes remains at 5927 feet. The completed holes are Nos. T-36, T-37, T-38 and T-39.

Three holes are currently in progress. A summary of these holes is as follows:

Hole No. & Name.	Depth	Esti. Depth	Remarks
T-40, J.T. Cline	1641	1800	Now in lower Kingsport fm. No zinc mineralization to date.
T-41, H. Housley	1044	1250	In upper Kingsport fm
T-42, W. B. Watkins	1232	1450	1188 ft to 1190 ft. 2 ft @ 10% Zn

All of these holes will be completed before the next interim report.

Inspected: July 13, 1956

V. J. Lynch, Mining Engineer
Bureau of Mines

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

PAID ON TICKET NO. ... ON DATE ...

OPERATOR'S MONTHLY REPORT AND VOUCHER

RECEIVED JUL 30 1956

Month of June, 1956 Docket No. DMEA 4119 Contract No. E936
Operator's Name The New Jersey Zinc Company Minerals Zinc
Address Jefferson City, Tennessee
Contract Amount, $156,250.00 Government Participation: 50 % Amount, $78,125.00

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 ~~Stockholder~~ Contracts:						
Drilling	6,252.25	6,250.80	12,503.05	8/1/56 WPK		
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor	949.44	947.20	1,896.64			
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	7,201.69	7,198.00	14,399.69	7201.69	7198.00	14399.69

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

Date July 15, 1956 Payee The New Jersey Zinc Company

Per [signature] Title Asst. to the 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:

$ 3600.84

Signature Helen R. Miller
(Authorized Certifying Officer)

Date JUL 30 1956 Vou. No.
(See other side)

3600.84

(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. Fdm-E936 in accordance with the terms of the contract.

Signature Henry H. Amos Title Geologist USGS Date July 25, 1956

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature V. J. Lynch Title ACTING EXECUTIVE OFFICER DMEA REGION IV Date JUL 25 1956

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
JUL 30 1956

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of June 1956 Docket No. DMEA 4119 Contract No. E936
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	ft	4,050.00	2,000	8,100.00	4,000	2.025	40,000	2.16
~~Auger~~ 1000-1500	ft	2,189.50	962	4,167.80	1,833	2.274	10,000	2.66
~~Auger~~ 1500-2000	ft	12.75	5	235.25	94	2.503	2,000	3.16
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Supervision & Incidental	ft	949.44	2,967	1,896.64	5,927	0.32	60,000	0.32
Total Distributed Costs		7,201.69		14,399.69				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs		7,201.69		14,399.69				156,250.00

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

Date July 15, 1956 Operator The New Jersey Zinc Company

Per [signature] Title Asst. to the Supt.

Remarks: This report includes drill holes T-38 & T-39

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)

Henry H. Amos
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

X 10866 24M 1-54

COPY

THE NEW JERSEY ZINC COMPANY

EXPLORATION DEPARTMENT

Jefferson City, Tennessee

Report for June 1956

Talbott Area - DMEA 4119

Contract Idm-936

Three drills operated in the subject area during the month. Two holes, T-38 and T-39, located as shown on map AX-TENN-B247a were completed. A summary of these holes is as follows:

Hole	Depth	Formation	Remarks
T-38	0 - 9'	Overburden	
	9 - 23'	Lenoir limestone	
	23 - 57'	Mosheim limestone	
	57 -1104'	Mascot dolomite	
	1104 -1315'	Kingsport dolomite	
	1246'	108 Bed	
	1315'	28 Bed	
	1315 -1420'	Kingsport limestone	
	1420'	"S" sandgrains	
	1420 -1462'	(Bottom) Longview dolomite	

No mineralization was encountered.

T-39	0 - 30'	Overburden	
	30 - 173'	Lenoir limestone	
	173 - 281'	Mosheim limestone	
	281 -1151'	Mascot dolomite	
	1151 -1371'	Kingsport dolomite	
	1281'	108 Bed	
	1371'	28 Bed	
	1371 -1467'	Kingsport limestone	
	1467'	"S" sandgrains	
	1467 -1505	(Bottom) Longview dolomite	

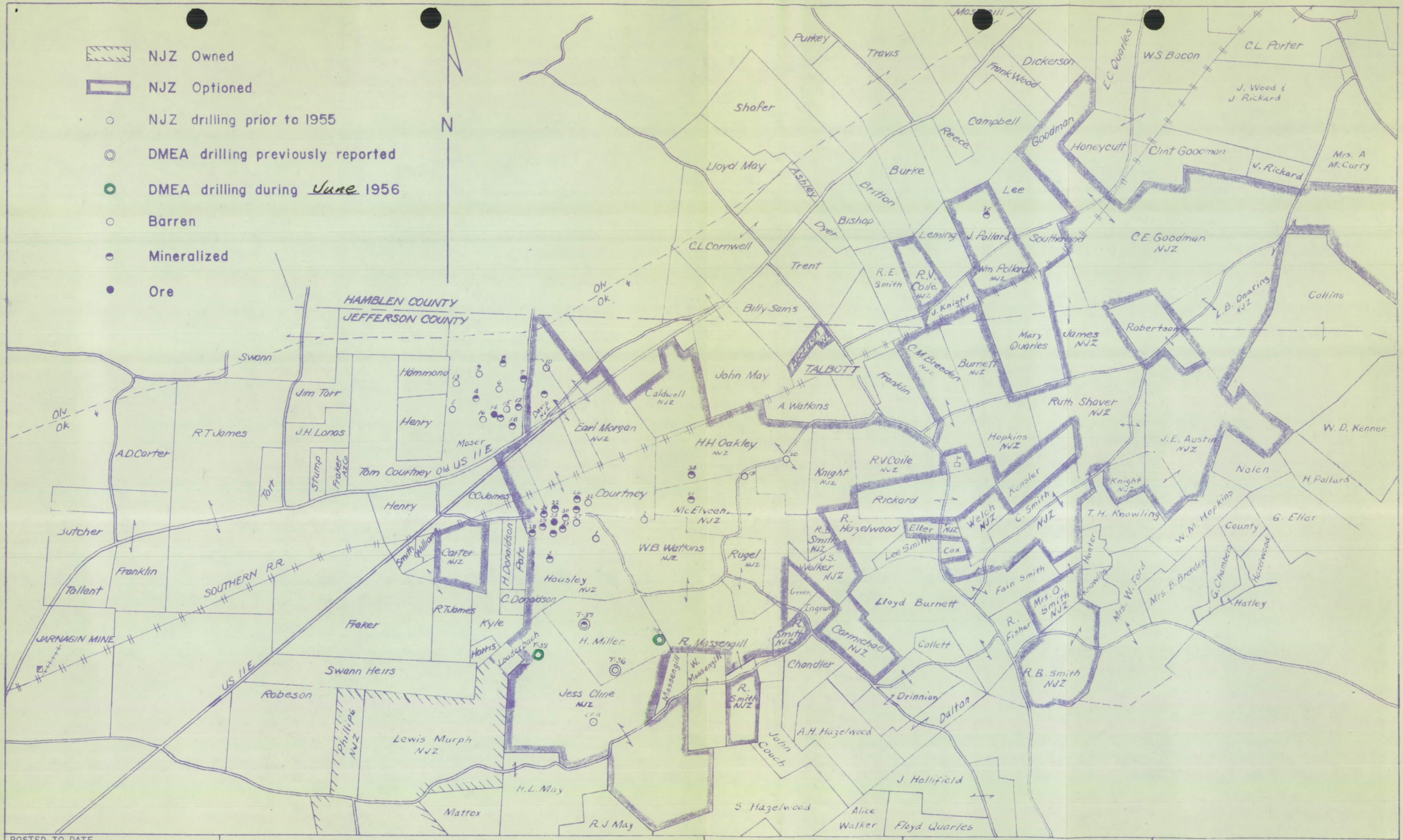
The following mineralization was encountered:

342'	Mascot dolomite	Traces of sphalerite
1163 -1164'	Kingsport dolomite	Traces of sphalerite
1348 -1349'	Kingsport dolomite	12% Zinc Estimated

The one foot of 12% Zinc, 22 feet above the 28 marker bed is stratigraphically high for typical mineralization in the Talbott area.

Three holes are currently in progress as follows:

Hole No.	Property
T-40	Jess Cline
T-41	H. Housley
T-42	W. B. Watkins



POSTED TO DATE

THE NEW JERSEY ZINC COMPANY
JEFFERSON CITY TENNESSEE

DRAWN NJZ DATE 6/56
TRACED JWP SCALE 1"=2000'

PROPERTY MAP
MORRISTOWN SECTOR - TALBOTT AREA

JEFFERSON & HAMBLEN Cos., TENN
FILE NO. AX-TENN-B 247a

RECEIVED
JUL 2 - 1956

INTERIM REPORT

DMEA-4119, Idm-E936, Zinc

Operator: The New Jersey Zinc Company, Jefferson City, Tennessee

Location: Talbot Area, Jefferson and Hamblen Counties, Tennessee

To date 5927 feet of diamond drilling has been completed in 4 drill holes. Since the interim report of May 25, 3 drill holes totalling 4556 feet have been completed.

A summary of the 3 holes completed this month is as follows:

Property & Hole No.	Depth	Remarks
H. Miller, T-36	1587	308-314 ft. 6 ft. Traces of Zn 584 ft. Traces of Zn 624 ft. Traces of Zn 1320 - 1328 ft. 8 ft. Traces of Zn 1328 - 1329 ft. 1 ft of 6% Zn (esti) 1338 - 1340 ft. 2 ft.of 4% Zn (esti)
H. Millar, T-38	1462	Blank
J.T. Cline-T-39	1505	1348-1349 ft. 1 ft. of 12% Zn (esti)

Three holes are currently in progress. A summary of these holes is as follows:

Property & Hole No.	Depth	Esti.Depth	Remarks
J. T. Cline, T-40	1103	1800	Now in Mascot fm
H. Housley, T-41	675	1300	In Mascot fm
W. B. Watkins, T-42	363	1450	In upper Mascot fm. About Topic Knob fault.

Of the 4 completed holes in this area, none have discovered ore, 3 have discovered non-commercial zinc mineralization and one was blank.

Inspected: June 26, 1956

V. J. Lynch, Mining Engineer
Bureau of Mines

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-2

OPERATOR'S MONTHLY REPORT AND VOUCHER

RECEIVED JUN 22 1956

Month of May 195 6 Docket No. DMEA 4119 Contract No. E936
Operator's Name The New Jersey Zinc Company Minerals Zinc
Address Jefferson City, Tennessee
Contract Amount, $ 156,250.00 Government Participation: 50 % Amount, $ 78,125.00

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 Term~~ Contracts:						
Drilling	$6,250.80	-	$6,250.80	7/12/56	W.R.K.	~~[illegible]~~ ~~[illegible]~~ Betty
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor						
Supervision	947.20	-	947.20			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	7,198.00	-	7,198.00	7198.00		7198.00

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

Date June 16, '56 *Payee The New Jersey Zinc Co.

Per [signature] Title Ass't. to the 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:

$ 3599.00

Signature Helen R. Miller (Authorized Certifying Officer)

Date JUN 20 1956 Vou. No.

(See other side)

3599.00

(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 936 in accordance with the terms of the contract.

Signature W. M. Beck Title Mining Engr USBM Date JUN 13 1956

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE: ACTING EXECUTIVE OFFICER

Signature V. J. Lynch. Title DMEA REGION V Date JUN 19 1956

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
JUN 22 1956

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of May 1956 Docket No. DMEA 4119 Contract No. E936
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	ft	4,050.00	2000	4,050.00	2000	2.025	48,000	2.16
1000-1500	ft	1,978.30	871	1,978.30	871	2.271	10,000	2.66
1500-2000	ft	222.50	89	222.50	89	2.500	2,000	3.16
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Supervision & Incidental Costs	ft	947.20	2960	947.20	2960	0.32	60,000	0.32
TOTAL DISTRIBUTED COSTS		7,198.00		7,198.00				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		7,198.00		7,198.00				

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.

REMARKS: This report includes drill holes T-36 & T-37

Date June 16, '56 Operator The New Jersey Zinc Co.

Per [signature] Title Ass't. to the 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)

W. J. Lynch
Bureau of Mines
6/19/56

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

RECEIVED
JUN 22 1956

Three drills operated in the subject area during the month. Two holes, located as shown on Figure 1 (in green) were completed. Logs of these holes are as follows:

Hole	Depth	Remarks
T-36	0- 8'	Overburden
	8- 94'	Lenoir limestone
	94-263'	Mosheim limestone
	263-1171'	Mascot dolomite and limestone
	1171-1453'	Kingsport dolomite
	1453-1543'	Kingsport limestone
	1543-1589'	Longview dolomite
	Bottom	

No mineralization was encountered.

T-37	0- 29'	Overburden
	29- 55'	Lenoir limestone
	55-157'	Mosheim limestone
	157-1082'	Mascot dolomite and limestone
	1082-1235'	Kingsport dolomite
	1235-1331'	Kingsport limestone
	1331-1371'	Longview dolomite
	Bottom	

This hole encountered the following mineralization:

Depth	Feet	Formation	Remarks
308-314'	6'	Mascot	Traces of sphalerite
584'		"	Trace of sphalerite
624'		"	Trace of sphalerite
1320-1328	8'	Kingsport	Traces of sphalerite
1328-1329	1'	Kingsport	6% Zinc Estimated
1338-1340'	2'	Longview	4% Zinc Estimated

New Jersey Zinc Option

New Jersey Zinc Owned

NJZ drilling prior to 1956

DMEA drilling previously reported

DMEA drilling during May 1956

Barren

Mineralized

Ore

N

HAMBLEN COUNTY

JEFFERSON COUNTY

Swann

Jim Torr

Hammond

Henry

J.H. Lonas

R.T. James

A.D. Carter

Torr

Stump

Fraker Azco

Tom Courtney

Old US 11E

Henry

C.C. James

Butcher

Franklin

Tallent

SOUTHERN R.R.

JARNAGIN MINE

US 11E

Fraker

Swann Heirs

Robeson

Murph

Carter NJZ

Smith

Williams

H. Donaldson

Pate

C. Donaldson

R.T. James

Kyle

Harris

Lauderpach

Housley NJZ

Hubert Miller NJZ

T-37

T-36

Jess Cline NJZ

Davis NJZ

Moser

Earl Morgan NJZ

Courtney NJZ

Caldwell NJZ

Billy Sams

John May

TALBOT

A. Watkins

H.H. Oakley NJZ

Mc Eleven NJZ

W.B. Watkins NJZ

Rugel NJZ

R. Massengill

Massengill

W. Massengill

R. Smith NJZ

Jess Cline NJZ

Chandler

Drinnion

Collett

Lloyd Burnett

Carmichael NJZ

Green

Ingram

J. Smith NJZ

R.B. Smith NJZ

J.S. Walker NJZ

R. Hazelwood

Lee Smith

Eller NJZ

Cox

Rickard

R.V. Coile NJZ

Knight NJZ

Hopkins NJZ

Ruth Shover NJZ

Burnett NJZ

C.M. Breeden NJZ

Franklin

Mary Quarles

James NJZ

Robertson

Z.A. Dearing NJZ

Collins

Knight NJZ

Welch NJZ

Kessler

C. Smith NJZ

Fain Smith

Mrs. O. Smith NJZ

R. Fisher

R.B. Smith NJZ

J.E. Austin NJZ

Nolen

W.D. Kenner

H. Pollard

T.H. Knowling

W.M. Hopkins

County

G. Eller

Hunter

Knowling

Mrs. W. Ford

Mrs. B. Breeden

G. Chambers

Hazelwood

Hatley

Puckey

Travis

Shafer

Lloyd May

Ashley

Dyer

Bishop

Britton

Burke

Reece

Campbell

Frank Wood

Dickerson

Goodman

Honeycutt

L.C. Quarles

W.S. Bacon

C.L. Porter

J. Wood & J. Rickard

Clint Goodman

V. Rickard

Mrs. A. McCurry

Lee

J. Pollard NJZ

Southerland

C.E. Goodman NJZ

C.L. Cornwell

Trent

R.E. Smith

R.V. Coile NJZ

Wm. Pollard NJZ

J. Knight

Masengill

Old OK

Old OK

POSTED TO DATE 12-55

THE NEW JERSEY ZINC COMPANY

JEFFERSON CITY TENNESSEE

DRAWN JFP DATE 9-30-52

TRACED JFP SCALE 1"=2000'

PROPERTY MAP

MORRISTOWN SECTOR-TALBOT AREA

JEFFERSON & HAMBLEN CO'S, TENN.

FILE NO. AX-TEMA-3

RECEIVED
JUN 2 2 1956

RECEIVED
MAY 31 1956

INTERIM REPORT

DMEA-4119, Idm-E936, Zinc

Operator: The New Jersey Zinc Company, Jefferson City, Tennessee

Location: Talbot Area, Jefferson and Hamblen Counties, Tennessee

One hole having a total depth of 1371 feet has been completed since the project was started on April 19, 1956. A summary of this hole is as follows:

Hole No. & Property	Depth	Remarks
T-37, (Hubert Millar)	1371	(Estimated analyses) 1320 ft to 1328 ft, 8ft - trace of Zn 1328 ft to 1329 ft, 1 ft of 6% Zn 1338 ft to 1340 ft, 2 ft of 4% Zn.

Three drills are currently in use. It is expected that another drill will put into operation May 28.

A summary of the 3 holes currently in progress is as follows:

Hole No. & Prop.	Depth	Esti. depth	Remarks
T-38 (Hubert Millar)	1101	1500	Now in Mascot fm
T-36 " "	1382	1500	In upper Kingsport fm
T-39 (J. T. Cline)	293	1300	In Lenoir limestone

Inspected: May 25, 1956

V. J. Lynch, Mining Engineer
U. S. Bureau of Mines

RECEIVED
MAY 9 - 1956

INTERIM REPORT

DMEA-4119, Idm-E936, -Zinc

Operator: The New Jersey Zinc Company, Jefferson City, Tennessee

Location: Talbot Area, Jefferson and Hamblen Counties, Tennessee

Diamond drilling was started on this project April 19. At present 3 drills are in operation and 1448 feet of drilling has been completed in 3 holes. A summary of these holes is as follows:

Property & Hole No.	Depth.	Esti.depth	Remarks
Hubert Miller, T-36	453	1720	Shines of Zn @ 308 to 314 ft. Hole situated near Coppic Knob fault.
Hubert Miller T-37	619	1470	In Mascot fm ,little or no mineralization to date
Hubert Miller, T-38	376	1650	In Mascot fm. Hole started April 24.

The number of drills will be increased at this project as soon as possible.

Inspected: May 2, 1956.

V. J. Lynch, Mining Engineer
Bureau of Mines

S. C. Bergman, Geologist
Geological Survey

z

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
ROOM 18 POST OFFICE BLDG.
KNOXVILLE 2, TENN.

RECEIVED
APR 26 1956

April 24, 1956

Memorandum

To: Operating Committee, DMEA, Washington, D. C.

From: Executive Officer, DMEA Field Team, Region V

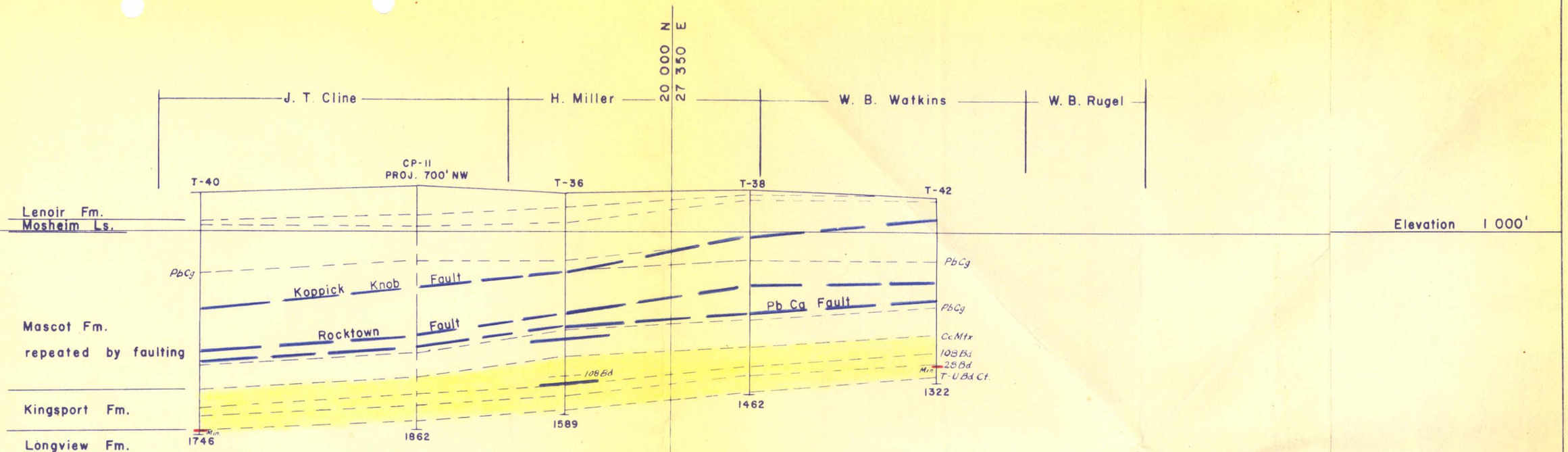
Subject: DMEA-4119, Idm-E936 (Zinc)
The New Jersey Zinc Company
Talbot area, Jefferson and Hamblen Counties, Tennessee

Work on this project began on April 19.

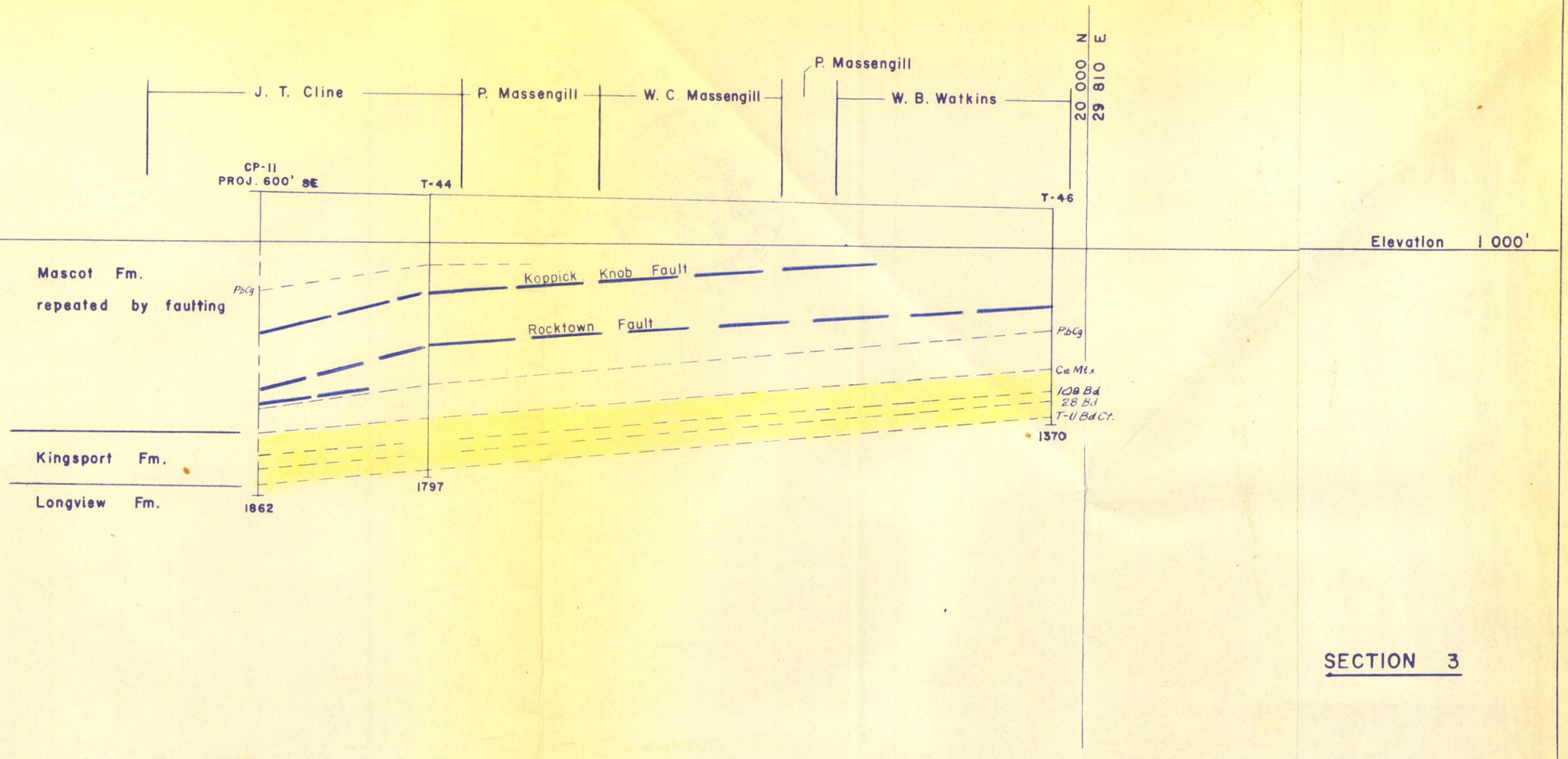
Two drills are now operating on the Hubert Miller property. A third drill is expected to start this week. E. J. Longyear Company is the drilling contractor.

Robert A. Laurence

RAL/mg
cc - Operating Committee (2)
Mr. V. J. Lynch
Files


20 000 N
27 350 E
J. T. Cline
H. Miller
W. B. Watkins
W. B. Rugel
T-40
CP-11
PROJ. 700' NW
T-36
T-38
T-42
Elevation 1 000'
Lenoir Fm.
Mosheim Ls.
Mascot Fm.
repeated by faulting
Kingsport Fm.
Longview Fm.
PbCg
Koppick Knob Fault
Rocktown Fault
Pb Ca Fault
PbCg
PbCg
CcMtx
108 Bd
28 Bd
T-U Bd Ct.
108 Bd
Min
1746
1862
1589
1462
1322

SECTION 2



SECTION 3

DRAWN JWP	DATE 10 - 1 - 56	MORRISTOWN SECTOR TALBOTT AREA	DISTRICT JEFFERSON CITY
TRACED	SCALE 1" = 660'	LONGITUDINAL SECTIONS	FILE NO. AX - TENN - D 1204