POST OFFICE DEPARTMENT
OFFICIAL BUSINESS

PENALTY FOR PRIVATE USE TO AVOID PAYMENT OF POSTAGE, $300

POSTMARK OF DELIVERING OFFICE

PRESS APR 26 1968 USPO

INSTRUCTIONS: Show name and address below and complete instructions on other side, where applicable. Moisten gummed ends, attach and hold firmly to back of article. Print on front of article *RETURN RECEIPT REQUESTED.*

RETURN TO

NAME OF SENDER U. S. Geological Survey
Office of Minerals Exploration

STREET AND NO. OR P.O. BOX
Dept. of the Interior Bldg.

POST OFFICE, STATE, AND ZIP CODE
Washington, D. C. 20242

POD Form 3811 Apr. 1967 055-10-71E25-10

3448 Wilcox, Mining

INSTRUCTIONS TO DELIVERING EMPLOYEE

☐ Show to whom, date, and address where delivered ☐ Deliver ONLY to addressee

(*Additional charges required for these services*)

RECEIPT

Received the numbered article described below.

REGISTERED NO.

CERTIFIED NO. 133403

INSURED NO.

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

John Lawlor

SIGNATURE OF ADDRESSEE'S AGENT, IF ANY

DATE DELIVERED APR 26 1968

SHOW WHERE DELIVERED (*only if requested*)

Form 63 sent to John W. Lawler, 225 Union Street, Prescott, Arizona 86301 on January 31, 1968. No reply. Certified mail follow-up sent to him April 18, 1968; receipt signed by John Lawler 4/26/68. Forms not returned.

INSTRUCTIONS TO DELIVERING EMPLOYEE

☐ Show to whom and when delivered ☐ Show to whom, when, and address where delivered ☐ Deliver ONLY to addressee

(Additional charges required for these services)

3448

RECEIPT

Received the numbered article described below.

REGISTERED NO. 500876

CERTIFIED NO.

INSURED NO.

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

2 SIGNATURE OF ADDRESSEE'S AGENT, IF ANY

DATE DELIVERED MAY 9 - 1967

SHOW WHERE DELIVERED (*only if requested*)

055—16—71548-8 GPO

POST OFFICE DEPARTMENT
OFFICIAL BUSINESS

PENALTY FOR PRIVATE USE TO AVOID
PAYMENT OF POSTAGE, $300

POSTMARK OF
DELIVERING OFFICE

FLAGSTAFF
MAY 8
1961
USPO

INSTRUCTIONS: Show name and address below and complete instructions on other side, where applicable. Moisten gummed ends, attach and hold firmly to back of article. Print on front of article *RETURN RECEIPT REQUESTED.*

RETURN TO

NAME OF SENDER U. S. Geological Survey
Office of Minerals Exploration

STREET AND NO. OR P.O. BOX
Interior Department

POST OFFICE, STATE, AND ZIP CODE
Washington, D. C. 20242

POD Form 3811 Oct. 1965 c55—16—71548-8

IN REPLY REFER TO:
Office of Minerals Exploration

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

REGISTERED MAIL
RETURN RECEIPT REQUESTED May 5, 1967

Re: DMEA-3448 (Tungsten)
Hillside Mining & Milling Co.
(Assignee)
Black Pearl Mine
Yavapai County, Arizona
Contract Idm-2763

Mr. John W. Lawler
225 Union Street
Prescott, Arizona 86301

OFFICIAL
COPY
O. M. E.
RECEIVED
MAY 18 1967

5/18 M 120 M
FJ 110
HR 120 K
220

Dear Mr. Lawler:

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

~~OFFICES~~
~~SUITE 25, LAWLER BLDG.~~
~~PRESCOTT, ARIZONA~~
JOHN Wm. LAWLER
225 UNION STREET
PRESCOTT, ARIZONA

MAY 12 2 22 PM '67
BUREAU OF MINES
WASHINGTON, D.C.

MME Form 63
Revised 7-65

REQUEST FOR INFORMATION ON CERTIFIED PROJECT AND PROJECT UNDER ROYALTY AGREEMENT

1. Since **June 1966**, 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 **June 1966**, 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 through workings (see , has any production been transported of contract)? Yes ☐ No ☒

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

Disposition of Material	Quantity	Value

Submitted by:

Name John W. Lowder Title ½ Owner

Address 225 UNION ST Date May 9th 1967
PRESCOTT ARIZ

3448

INSTRUCTIONS TO DELIVERING EMPLOYEE

☐ Deliver *ONLY* to addressee

☒ Show address where delivered

(Additional charges required for these services)

RECEIPT

Received the numbered article described on other side.

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

John Lauer

SIGNATURE OF ADDRESSEE'S AGENT, IF ANY

DATE DELIVERED	SHOW WHERE DELIVERED *(only if requested)*
JUN 1 1966	PRESCOTT, ARIZONA 86301

C55—16—71548-5—F GPO

POST OFFICE DEPARTMENT
OFFICIAL BUSINESS

PENALTY FOR PRIVATE USE, TO AVOID
PAYMENT OF POSTAGE, $300

POSTMARK OF DELIVERING OFFICE

PRESCOTT
JUN 1 1966

INSTRUCTIONS: Fill in items below and complete instructions on other side, if applicable. Moisten gummed ends, attach and hold firmly to back of article. Print on front of article RETURN RECEIPT REQUESTED.

RETURN TO

REGISTERED NO. 500493	NAME OF SENDER U. S. Geological Survey Office of Minerals Exploration
CERTIFIED NO.	STREET AND NO. OR P. O. BOX Dept. of the Interior
INSURED NO.	CITY, STATE, AND ZIP CODE Washington, D. C. 20242

POD Form 3811 Sep. 1963

IN REPLY REFER TO:

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

REGISTERED MAIL
RETURN RECEIPT REQUESTED

May 25, 1966

Re: DMEA-3448 (Tungsten)
Hillside Mining & Milling Co.
(Assignee)
Black Pearl Mine
Yavapai County, Arizona
Contract Idm-E763

Mr. John W. Lawler

Prescott, Arizona

Dear Mr. Lawler:

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.

This inquiry relates to the Lease and Option to Purchase of April 30, 1951, between John Lawler, Mary Lawler, James E. and Kathryn I. Harrington, F. H. and Mary Lyons, and Joseph W. and Florence E. Walton, "First Parties," and E. A. and Irma R. Scholz, and J. H. and Dorothy Cazier, "Second Parties," and to the Owner's Consent to Lien executed by the "First Parties" on February 16, 1955.

Sincerely yours,

Frank E. Johnson

Frank E. Johnson
Chief, Office of
Minerals Exploration

See letter 6/6/66 from Lawler
OME reply 6/14/66
in folder #1.

MME Form 63
Revised 7-65

REQUEST FOR INFORMATION ON CERTIFIED PROJECT AND PROJECT UNDER ROYALTY AGREEMENT

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

LEASE WITH MR. E.A. SCHULZ & J.H. CAZIER EXPIRED ON OCT 1ST 1964
BLACK PEARL CLAMS ~~HAVE~~ HAVE REVERTED BACK TO ORIGINAL OWNERS

2. Since August 1965, has there been any production from the land subject to the contract? Yes ☐ No ☒

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

	Quantity	Value

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

Type	Quantity	Estimated Grade	Location
Ore	Tons		
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 John W. Lauer Jr. Title part owner

Address 225 UNION ST Date June 1966
prescott ariz 86301

3408

INSTRUCTIONS TO DELIVERING EMPLOYEE

☐ Deliver *ONLY* to addressee

☒ Show address where delivered

(Additional charges required for these services)

RECEIPT

Received the numbered article described on other side.

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

Mrs. [illegible]

SIGNATURE OF ADDRESSEE'S AGENT, IF ANY

DATE DELIVERED	SHOW WHERE DELIVERED *(only if requested)*
11/2/65	225 S. Union St.

PRESCOTT, ARIZONA 86301

—71548-5—P GPO

POD Form 3811 Sep. 1963

POSTMARK OF DELIVERING OFFICE

PRESCOTT NOV 2 1965 RETURN TO

INSTRUCTIONS: Fill in items below and complete instructions on other side, if applicable. Moisten gummed ends, attach and hold firmly to back of article. Print on front of article RETURN RECEIPT REQUESTED.

REGISTERED NO. 500400	NAME OF SENDER U. S. GEOLOGICAL SURVEY, OME
CERTIFIED NO.	STREET AND NO. OR P. O. BOX INTERIOR BUILDING
INSURED NO.	CITY, STATE, AND ZIP CODE WASHINGTON, D. C. 20240

3498

INSTRUCTIONS TO DELIVERING EMPLOYEE

☐ Deliver *ONLY* to addressee

☒ Show address where delivered

(Additional charges required for these services)

RECEIPT

Received the numbered article described on other side.

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

SIGNATURE OF ADDRESSEE'S AGENT, IF ANY

DATE DELIVERED	SHOW WHERE DELIVERED *(only if requested)*
1/12/65	3331 N 16 Pl

C55—16—71548-5—F GPO

OFFICIAL BUSINESS

PHOENIX, ARIZ. PM 30 OCT 1965

PAYMENT OF POSTAGE, $300

POSTMARK OF DELIVERING OFFICE

PREVENT FOREST FIRES

INSTRUCTIONS: Fill in items below and complete instructions on other side, if applicable. Moisten gummed ends, attach and hold firmly to back of article. Print on front of article RETURN RECEIPT REQUESTED.

RETURN TO

Form 3811 Sep. 1963

REGISTERED NO. 500399	NAME OF SENDER U. S. GEOLOGICAL SURVEY, OME
CERTIFIED NO.	STREET AND NO. OR P. O. BOX INTERIOR BUILDING
INSURED NO.	CITY, STATE, AND ZIP CODE WASHINGTON, D. C. 20242

SMEA 3448

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

GEOLOGICAL SURVEY

OME
DEPARTMENT OF THE INTERIOR

AUG 2 1965
REGION III
DENVER, COLORADO

OFFICIAL COPY
C. M. E.
RECEIVED
AUG 1965

INITIALS	CODE
	120 m
	120

Memorandum

To: Acting Field Officer, Region III

From: Chief, Office of Minerals Exploration

Subject: DMEA-3448 (Tungsten)
Hillside Mining and Milling Co. (Assignee)
Black Pearl Mine
Yavapai County, Arizona
Contract Idm-E763

On November 6, 1957, we sent Region III for forwarding a letter to Mr. and Mrs. James E. Harrington concerning the certification under the subject contract. Do your files contain the Harrington address?

Frank E. Johnson
Frank E. Johnson

Dear Frank:

Our file shows that Cazier gave us this address for the Harringtons
3331 North 18th Avenue
Phoenix
Arizona.

Buck.

3448

INSTRUCTIONS TO DELIVERING EMPLOYEE

☐ Deliver *ONLY* to addressee

☒ Show address where delivered

(Additional charges required for these services)

RECEIPT

Received the numbered article described on other side.

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

SIGNATURE OF ADDRESSEE'S AGENT, IF ANY

DATE DELIVERED	SHOW WHERE DELIVERED (only if requested)
6/23/65	9111 E Yale Ave Denver Colo 80237

JUN 23 1965 DENVER, COLORADO

C59—16—71548-5—F GPO

POST OFFICE DEPARTMENT
OFFICIAL BUSINESS

PENALTY FOR PRIVATE USE TO AVOID PAYMENT OF POSTAGE, $300

POSTMARK OF THE DELIVERING OFFICE

JUN 23 1965

INSTRUCTIONS: Fill in items below and complete instructions on other side, if applicable. Moisten gummed ends, attach and hold firmly to back of article. Print on front of article RETURN RECEIPT REQUESTED.

RETURN TO

REGISTERED NO.	NAME OF SENDER
598290	OFFICE OF MINERALS EXPLORATION
CERTIFIED NO.	STREET AND NO. OR P. O. BOX INTERIOR DEPARTMENT
INSURED NO.	CITY, STATE, AND ZIP CODE WASHINGTON, D. C. 20240

POD Form 3811 Sep. 1963

C55—16—71548-6—F

DMEA – 3448

IN REPLY REFER TO:

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

July 30, 1965

OFFICIAL COPY
NOV 9 1965
INITIALS CODE
110
11/15 120
120
320

Mr. John W. Lawler

Prescott, Arizona

Re: DMEA-3448 (Tungsten)
Hillside Mining & Milling Co.
(Assignee)
Black Pearl Mine
Yavapai County, Arizona
Contract Idm-E763

Dear Mr. Lawler:

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.

This inquiry relates to the Lease and Option to Purchase of April 30, 1951, between John Lawler, Mary Lawler, James E. and Kathryn I. Harrington, F. H. and Mary Lyons, and Joseph W. and Florence E. Walton, "First Parties," and E. A. and Irma R. Scholz, and J. H. and Dorothy Cazier, "Second Parties," and to the Owner's Consent to Lien executed by the "First Parties" on February 16, 1955.

Sincerely yours,

Frank E. Johnson

Frank E. Johnson
Chief, Office of
Minerals Exploration

MME Form 63
Revised 7-65

DMEA-3448
Idm-E763

REQUEST FOR INFORMATION ON CERTIFIED PROJECT
AND PROJECT UNDER ROYALTY AGREEMENT

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

LEASE WITH E.A. SCHOLZ & J.H. CAZIER
EXPIRED ON OCT 1ST 1964
PROPERTY HAS REVERTED BACK TO ORIGINAL OWNERS

2. Since **April 1960**, has there been any production from the land subject to the contract? Yes ☐ No ☒

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

	Quantity	Value

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

Type	Quantity	Estimated Grade	Location
Ore	Tons		
Concentrates	Tons		
Other	Tons		

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

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

Disposition of Material	Quantity	Value

Submitted by:

Name JOHN W. LAWLER Title PART-OWNER

Address 225 UNION ST Date AUG 1965
PRESCOTT, ARIZ

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

June 16, 1965

REGISTERED MAIL
RETURN RECEIPT REQUESTED

Re: DMEA-3448 (Tungsten)
Hillside Mining & Milling Co. (Assignee)
Black Pearl Mine
Yavapai County, Arizona
Contract Idm-E763

Mr. J. H. Cazier
Black Pearl Mining Co.
3032 South Kearney Street
Denver 22, Colorado

Dear Sir:

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

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

Sincerely yours,

George C. Selfridge

George C. Selfridge, Chief
Division of Exploration Operations

OFFICIAL
COPY
O. M. E.
RECEIVED
JUN 25 1965
CODE
100
110
120
120

MME Form 63
Revised 3-62

DMEA-3448
Idm-E763

REQUEST FOR INFORMATION ON CERTIFIED PROJECT AND PROJECT UNDER ROYALTY AGREEMENT

1. Since December 1961, 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 ☑
   Is the basic lease and option to purchase dated April 30, 1951, as amended August 2, 1954, by which the Black Pearl Mining Company held the Black Pearl mine still in full force and effect? If not, please give details. Yes ☐ No ☑

   Expired

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

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

	Quantity	Value

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

Type	Quantity		Estimated Grade	Location
Ore		Tons		
Concentrates		Tons		
Other		Tons		

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

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

Disposition of Material	Quantity	Value

Submitted by:

Name J H Hughes Title Secretary

Address 911 E Mansfield Ave Denver Colo 80237 Date June 23, 1965

4511

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

October 31, 1963

Re: DMEA-3448 (Tungsten)
Hillside Mining & Milling Co.
(Assignee)
Black Pearl Mine
Yavapai County, Arizona
Contract Idm-E763

Mr. Robert C. Bogart
Manager
Hillside Mining & Milling Company
Bagdad, Arizona

Dear Sir:

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

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

Sincerely yours,

F M Murphy

F. M. Murphy, Acting Chief
Division of Minerals

OFFICIAL FILE COPY
O. M. E
RECEIVED NOV 8 1963

DATE	INITIALS	CODE
11/8		800
		120
		~~100~~
11/12		~~110~~
~~11/12~~	~~Murphy~~	~~500~~
		220

MME Form 63
Revised 3-62

REQUEST FOR INFORMATION ON CERTIFIED PROJECT AND PROJECT UNDER ROYALTY AGREEMENT

1. Since July 30, 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 [X] No [ ]

The Hillside Mining and Milling Company was liquidated in December of 1961.

The Black Pearl was under lease from Scholtz & Cazier and has been returned to them.

2. Since July 30, 1962, 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	NONE	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
	none	

Submitted by:

Name ROBERT C. BOGART
BAGDAD COPPER CORPORATION

Title ASSISTANT GENERAL MANAGER

Address BAGDAD, ARIZONA

Date November 5, 1963

4511

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

October 31, 1963

Re: DMEA-3448 (Tungsten)
Hillside Mining & Milling Co.
(Assignee)
Black Pearl Mine
Yavapai County, Arizona
Contract Idm-E763

Mr. Robert G. Dogart
Manager
Hillside Mining & Milling Company
Bagdad, Arizona

Dear Sir:

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

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

Sincerely yours,

s/ F. M. Murphy

F. M. Murphy, Acting Chief
Division of Minerals

MME Form 63
Revised 3-62

REQUEST FOR INFORMATION ON CERTIFIED PROJECT AND PROJECT UNDER ROYALTY AGREEMENT

1. Since July 30, 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 [X] No [ ]

The Hillside Mining and Milling Company was liquidated in December of 1961.

The Black Pearl was under lease from Scholtz & Castor and has been returned to them.

2. Since July 30, 1962, 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	NONE	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
	NONE	

Submitted by:

Name ROBERT C. BOGALT
BAGDAD COPPER CORPORATION

Title ASSISTANT GENERAL MANAGER

Address BAGDAD, ARIZONA

Date November 5, 1963

4511

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

July 26, 1962

Re: DMEA-3448 (Tungsten)
Hillside Mining & Milling Co.,
Assignee
Black Pearl Mine
Yavapai County, Arizona
Contract Idm-E763

Mr. Robert C. Bogart, Manager
Hillside Mining & Milling Company
Bagdad, Arizona

OFFICIAL FILE COPY
O. M. E.
RECEIVED AUG 3 1962

Dear Mr. Bogart:

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.

DATE	INITIAL	AMOUNT
8/2	[illegible]	800
8/2	[illegible]	100
8/3	[illegible]	110
8/8	[illegible]	500
8/9	S.P.H.	[illegible]
		220

Sincerely yours,

W. R. Griswold

W. R. Griswold, Chief
Division of Minerals

MME Form 63
Revised 3-62

REQUEST FOR INFORMATION ON CERTIFIED PROJECT AND PROJECT UNDER ROYALTY AGREEMENT

1. Since April 8, 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 [ ]

   The Hillside Mining & Milling Co. was liquidated in December of 1961.
   The Black Pearl was under lease from Scholtz & Cazier and has been returned to them.

2. Since April 8, 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	None	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
	None	

Submitted by:

Name Robert C. Bogart Title Assistant General Manager
Bagdad Copper Corporation
Address Bagdad, Arizona Date July 30, 1962

4511

DMEA Form 18
Feb. 58

DEFENSE MINERALS EXPLORATION ADMINISTRATION

ANALYSIS OF SEMIANNUAL REPORT OF CERTIFIED PROJECT

Prepare in duplicate. File original in Official Docket. Send copy

To: Statistics Branch (Code 210)		Report Period
From: Division of **Iron and Ferro-Alloys**		**7.1-12.31.57**
DMEA No. **3448**	Operator **Hillside Mining and Milling Co. (Black Pearl Mining Company)**	Contract No. **Idm-E763**

ORE ESTIMATES

	Tons	Analysis
DMEA	**109,000**	**0.270 % WO_3**
Operator to date	-	-
Total	**109,000**	**0.270 " "**
Production to date	**22,224 ***	**0.270 " " ***
Ore in ground	**76,776 ***	**0.270 " " ***

INVESTMENT

Type	Size		Feet	Cost
Shafts				
Winzes				
Drifts and Crosscuts				
Raises				
Drilling	Type			
Rehabilitation	Description			

FACILITIES

Mine Plant		
Mill		
Roads		

REMARKS

"Source of information: Visit to property and conversation with Robert C. Bogart, Asst. Mgr. Bagdad Copper Co. and Gen. Mgr. of Hillside Mining and Milling Co.'s operation of Black Pearl Mine. No activitie at mine since equipment and buildings were removed late in December 1956. Hoist and hoist house removed. Shaft bulkheaded at collar. Adit, the only other main entry, in poor state of repair.

*** Tonnage converted by computation to assumed "Official Reserve" grade, using production units reported and 65% assumed mill recovery.**

Prepared by Stephen R. Holt Date **3.11.58**

31398

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
Building 20 - Federal Center
Denver 25, Colorado

OFFICIAL FILE COPY
O. M. E.
RECEIVED APR 14 1960

DATE	INITIALS	CODE
4-14	gad	VVO
"	JR	110
4/14	[illegible]	800
4/25	gd	500
		228

April 12, 1960

Memorandum

To: Chairman, Operating Committee, OME

From: Executive Officer, OME Field Team, Region III

Subject: Statement in Lieu of Annual Report of Certified Project.

Enclosed are the original and two copies of the following subject report for the period January 1, 1959 through December 31, 1959:

DMEA Docket 3448
Contract Idm-E763 (Tungsten)
Hillside Mining & Milling Co.
(Black Pearl mine)
Yavapai County, Arizona.

J. W. Townsend

Enclosure

OFFICIAL FILE COPY
O. M. E.
RECEIVED APR 14 1960

DATE	INITIALS	CODE

OFFICE OF MINERALS EXPLORATION

REGION III

Statement in Lieu of ~~Interim~~ Annual Report of Certified Project

Reporting Period January 1, 1959 to April 8, 1960

Docket and Contract Number DMEA-3448, Idm-E763 (Tungsten)

Operator Hillside Mining & Milling Co.
(Black Pearl mine) Yavapai County, Arizona

The project has been inactive during the reporting period [X]

Pertinent data relative to the subject contract has remained unchanged since the last report [ ]

Remarks:

The lessor reported there has been no production during the reporting period and that the stockpiled concentrates have recently been sold by the operator.

The operator's check for payment of royalty from the sale of the stockpiled concentrates was received April 6, 1960.

Signed T M Romero **Date** April 12, 1960

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
Building 20 - Federal Center
Denver 25, Colorado

January 27, 1960

OFFICIAL FILE COPY
O. M. E.
RECEIVED FEB 1 1960

DATE	INITIALS	CODE
2/1	RCW	225
"	GEJ	800
"	~~Hact~~	500
		225

S.P.H.

Hillside Mining and Milling Company
Bagdad Copper Company
Bagdad, Arizona

Re: Docket No. ~~IMIA 3448~~ (Tungsten)
Contract No. ~~Idm-2763~~
(Black Pearl Mine)
Yavapai County, Arizona

Gentlemen:

In reference to the "Certification by the United States of America of a Discovery or Development under an exploration Project Contract" and the instructions in the Washington Office letter of transmittal of the Certification on the captioned project, please indicate your answer to the following questions and return one copy of the questionnaire immediately to this office.

Very truly yours,
Original signed by

J. W. Townsend
Executive Officer, OME
Field Team, Region III

1. Has the property been sub-leased or any change made in ownership other than this office has been notified? Yes ___ No___. If yes, please furnish details of the transaction on a separate sheet and include a true or signed copy of any instrument that was executed in conjunction with the matter.

2. Has there been production from the land subordinated under the referenced contract since January 1, 1959 ? Yes___ No___. If yes, and shipments made, who was the purchaser?_____

3. Is any of the following material stockpiled? Yes___ No___.

(a) Ore, Tons_____ Estimated grade_____
(b) Concentrates, lbs._____ Estimated grade_____
(c) Low grade ore, tons_____ Estimated grade_____
Place stockpiled_____

Signed_____

Title_____ Date_____

TMR:ltm cc: Chmn. Op. Comm. Roy. Corres. E763 Chron.

OFFICIAL FILE COPY O. M. E. RECEIVED MAR 2 1959		
DATE	INITIALS	CODE
3-2	C	220
"	[illegible]	110
"	[illegible]	800
3/3	WSM	400

UNITED STATES
DEPARTMENT OF THE INTERIOR
Office of Minerals Exploration
224 New Customhouse
Denver 2, Colorado
February 25, 1959

Memorandum

To: Chairman, Operating Committee, OME

From: Executive Officer, OME Field Team, Region III

Subject: Semiannual Report of Certified Project for the period July 1, 1958 to December 31, 1958

DMEA Docket 3448 (Dumpster)
Contract Idm-E763
Hillside Mining & Milling Co.
Yavapai County, Arizona

Enclosed are the original and three copies of the subject report prepared in conformance with instructions contained in memorandum of January 6, 1956 from this office, Memorandum 29, and Special Notice in Minutes of Operating Committee Meeting No. 692.

J. W. Townsend

Enclosures
HMC/ff

cc: Semiannual Report File Idm-E 763
Harshman
Romslo
Chron.

OME
DEPARTMENT OF THE INTERIOR
FEB 12 1959
REGION III
DENVER, COLORADO

OME, REGION III

Statement in Lieu of Semiannual Report

Reporting Period July 1, 1958 to December 31, 1958
Docket and Contract Number DMEA-3448, Idm-E 763
Operator Hillside Mining and Milling Co.

The project has been inactive during the reporting period [X]

Pertinent data relative to the subject contract has remained unchanged since the last report [ ]

Remarks:

I visited the Black Pearl mine of this project and at Bagdad, Ariz., I talked with Robert C. Bogart, assistant manager of the Bagdad Copper Company who was the Operator's general manager, January 28, 1959.

At the mine, conditions noted during the present and previous inspections indicated that the property has been inactive since it was shut down during December 1956.

Mr. Bogart reported that the stockpiled tungsten concentrates subject to royalty payments to DMEA when marketed (estimated by the Operator at 34,000 pounds of 63.3 percent WO_3) are stored in Bagdad. The concentrates will be sold and the royalty will be paid when the market price is right.

Signed T M Romslo
T. M. Romslo

Date February 9, 1959

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration
224 New Customhouse
Denver 2, Colorado

February 20, 1958

DATE	INITIALS	CODE
2/24	C	220
24	CBW	100
	JJ	110
2/25	[illegible]	800
	NSM	400

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Semiannual Report of Certified Project for the period July 1, 1957 to December 31, 1957

DMEA Docket 3448 (Tungsten)
Contract Idm-E 763, Hillside Mining & Milling Company (Black Pearl mine) Yavapai County, Arizona

Enclosed are the original and three copies of the subject report prepared in conformance with instructions contained in memorandum of January 6, 1956 from this office, Memorandum 29, and Special Notice in Minutes of Operating Committee Meeting No. 692.

W H King
Executive Officer, DMEA
Field Team, Region III

Enclosures
MHM:jy

cc: Semiannual Report File E763
Harshman
Emerick
DMEA, TUC
Chron.

Revised reserves given in tonnage & grade?

Rw. Reserves being carried by mine

Semiannual Report of Certified Projects

Reporting Period July 1, 1957 through December 31, 1957

Docket and Contract Number Docket DMEA-3448 Contract Idm-E763

Operator Hillside Mining & Milling Company

Commodity Tungsten

Mine Name Black Pearl

County and State Yavapai County, Arizona

Date of Contract February 2, 1955

Date of Certification October 25, 1957

Expiration Date of Royalty Payments February 2, 1968

Date of Examination for this Report January 13, 1958

Total Amount of Contract $127,285.00

Total Expenditures under Contract $95,463.75

Amount of Government Participation at 75 % $44,301.60 ?

Royalty Payments this Period $19.29

Previous Royalty Payments $7,995.45

Total Royalty Payments to Date $8,014.75

% Loan Repayment Completed 18.09%

Amount of Royalty Due None

Royalty Remarks None

DMEA-3448(Tungsten) Idm-E768; Hillside Mining & Milling Co., Black Pearl Mine
Yavapai County, Ariz.

	Tons	WO_3 lbs./ton Analysis
Original Estimate of DMEA Reserves (Field Team Final Report) Mines [ ] Survey [ ] Joint [X]		
Revised Estimate of DMEA Reserves (Field Team) Mines [ ] Survey [ ] Joint [X]	154,000	12 to depth of 250 feet
	109,000	5.4 lbs/ton = 0.27 %

Increase of Reserves by work performed subsequent to DMEA project work

		Tons ore	WO_3 in conc. S.Ton	Pounds	#/T.ore
Production DMEA (conc/ore)	(This period)	0.00	0.00	0.0	0.00
	(Previous)	14,140.91	39.04	78,079.8	5.52
	(To Date)	14,140.91	39.04	*78,079.8	5.52
" Operator's (conc/ore)	(This period)				
	(Previous)				
	(To Date)				

2.7 lb = .25 %

*Includes estimated 21,522 pounds stored by Hillside Mining and Milling Co. for future sale

Percent Revised Reserves Mined _____

(For Uranium Ores Only)

Initial Production Bonus:

Status Operator: Ineligible [ ] Not Applied [ ] Applied [ ] Rec'ing pmt [ ] Pd up [ ]

Pounds U_3O_8 produced this period eligible for Bonus _____

Amount of Bonus paid to Operator this period $_____

Total pounds U_3O_8 produced to date eligible for Bonus _____

Total amount of Bonus paid to Operator to date $_____

Bonus Royalty Paid $_____

Bonus Royalty Due $_____

Investment Data

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

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

Facilities

Mine Plant Description	Mine Plant Cost	Mill Description	Mill Cost	Roads Description	Roads Cost

Remarks

Source of information: Visit to property and conversation with Robert C. Bogart, Asst. Mgr. Bagdad Copper Co. and Gen. Mgr. of Hillside Mining & Milling Co.'s operation of Black Pearl Mine.
No activitie at mine since equipment and buildings were removed late in December 1956.
Hoist and hoist house removed.
Shaft bulkheaded at collar.
Adit, the only other main entry, in poor state of repair.

Signed T. M. Romslo (Engineer)
T. M. Romslo

W. H. King; DMEA-3448; Cert.file; DF

WORK SHEET

Black Pearl Mine Production DMEA E763

The following is a record of production from the Black Pearl mine from March 1955 to suspension of operations during December 1956.

Black Pearl Mining Co.

Period (1955)	Ore (Tons)	Pounds WO_3 in Conc.
Mar.-Apr.	114.61	1,305.4
May	24.24	21.2
June	29.88	260.2
July	19.51	5.2
Aug.	12.73	67.8
Sept.	9.70	1.4
Oct.	18.24	24.4
Totals	228.91	175.6*
		1,861.20

*Jig hutch and magnetic separator products.

Hillside Mining and Milling Co.

The start of mining and milling operations was November 1955 and April 1956. A total of 13,912 tons of ore had been mined and milled when operations were terminated during December 1956.

Pounds of WO_3 produced from the 13,912 tons of ore are set down below:

Shipment	Pounds WO_3 in Conc.
9-1739-2	416.8190
9-1739-29	344.6460
9-1739-33	2,190.0030
9-1739-34	6,380.7921
9-1739-35	3,049.5114
9-1739-36	2,024.1514
9-T-51-1	32,480.2700
9-T-51-3	7,810.4035
Not marketed	21,522.000 (est.)
Total	76,218.5964

Total Production

	Ore (Tons)	Pounds of WO_3 in Conc.	Tons of ore
Black Pearl Mining Co.	228.91	1,861.20	8.13
Hillside Mining & Milling Co.	13,912.00	76,218.60	5.48
Totals	14,140.91	78,079.80	5.52

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.
224 New Customhouse
Denver 2, Colorado

February 26, 1957

OFFICIAL FILE COPY
DMEA
RECEIVED FEB 28 1957

DATE	INITIALS	CODE
3/1	C	220
3/11	[illegible]	100
		220

Memorandum

To: Chairman, Operating Committee, DMEA

From: Acting Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-3448 (Tungsten) Contract Idm-E763,
Hillside Mining and Milling Company
(Black Pearl mine) Yavapai County, Arizona

Enclosed are ~~four~~ 3 copies of an interim geologic inspection report dated February 21, 1957 by J. N. Faick, Geologist, U. S. Geological Survey.

Hillside Mining and Milling Company has dropped its lease with Black Pearl Mining Company, the original Operator, who wishes to again take over the contract work. The geologist recommends that the project be completely reappraised before any further Government participation in the contract. We concur in this recommendation.

Reference is made to a letter dated February 14, 1957 from Hillside Mining and Milling Company to this office, and to our reply of February 18, 1957, regarding possible reassignment of the contract to Black Pearl Mining Company.

E. N. Harshman

E. N. Harshman

Enclosures

3448

3/1

Referred for

1. ~~[illegible]~~
2. ~~[illegible]~~
3. ~~[illegible]~~
4. ~~Director, Region Maine and Idaho~~
5. ~~Land & Farm Credit Division~~
6. Director, Division Mails and Files

Note comments in report regarding:

1. Suggests reevaluation before approving work under Stage II
2.
3.
4.

and take appropriate action.

Action taken by Divisions

See letter of WSM 3/5/57

Robert E. Adams

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DMEA
RECEIVED FEB 28 1957
DATE | INITIALS | CODE

DMEA
DEPARTMENT OF THE INTERIOR
FEB 25 1957
REGION III
DENVER, COLORADO

Box 4126 University Station
Tucson, Arizona

February 21, 1957

Memorandum

To: W. M. Traver, Executive Officer, DMEA Field Team Region III

From: J. N. Faick

Through: E. N. Harshman 2-11-14

W. L. Emerick WLE

Subject: DMEA-3448, Interim inspection, Hillside Mining and Milling Co., Black Pearl Mine (Tungsten), Yavapai County, Arizona

On February 13, 1957 I made a careful inspection of the DMEA project at the Black Pearl mine, and discussed the results with Mr. R. C. Bogart, General Manager, Hillside Mining and Milling Co. I found that the property was idle and the operating company has given up its option on the property, and it is again controlled by E. A. Schalz and J. H. Cazier, who hold the original lease and option. The property appeared to be in excellent condition but much of the equipment had already been removed and the remaining equipment belonging to the Hillside Company is to be removed in the near future. A watchman is employed by Schalz and Cazier to look after the mine at present.

Work under the DMEA contract was suspended June 30, 1956, to May 31, 1957, under terms of Amendments Nos. 2, 3, and 4, and apparently no contract work has been done since June. The purpose of the suspension was to allow the operators sufficient time to re-negotiate the lease in an effort to reduce the amount of royalty to be paid from production, which, including the Government's share, amounts to about 27 percent. After failure to re-negotiate the lease, the Hillside Company decided to abandon their interests in the property. In the writer's opinion this decision was influenced partly by the high costs, relatively small tonnages of ore available, and by the grade of ore which seems to be less than originally expected.

Since beginning of the contract a headframe was erected, a shaft sunk, a 90-foot crosscut driven to the vein, and about 620 feet of drift driven on the vein on the 125-foot level, and about 350 feet driven on the adit level. A raise was driven from the 125-level to the adit level, and another raise was driven from the adit to the surface. Some of the work completed was not contract work.

Results of the work completed were not especially encouraging. The vein on the 125-level is as wide and persistent as on the adit level but seems to be lower grade and appears to contain a slightly different suite of minerals. On the 125-foot level fair amounts of tungsten were found in the vein exposed by about 200 feet of drift at the west end, but the eastern part of the vein was considerably lower grade, and visible amounts of wolframite are present in only a few places. Ore mined and milled from the 125-foot level yielded about 2 or 2½ pounds of recoverable WO_3 per ton, a great reduction from the 10 to 15 pounds per ton that were originally estimated for the ore on or above the adit. The vein on the 125-foot level consisted of white quartz, coarse pyrite and feldspar, with considerable muscovite along the vein walls. Wolframite, where present, occurred in coarse crystals, nuggets or pods along the sides of the vein or scattered through it. Beryl is reported in only one small pod on the 125-foot level; however, bismuthite is present in small amounts, as on the adit level. The principal difference in mineralogy between the adit and the 125-foot level is the apparent absence of specularite, fluorite, and molybdenite on the 125-foot level, and the appreciable reduction in the amount of beryl, and a possible reduction in the amount of wolframite. These mineralogical changes may indicate a diminution of grade of ore with increasing depth as is suggested by the mill returns.

Mr. Bogard, manager for the Hillside Mining and Milling Company, believes that at the end of the Company project the recoveries in the mill were very high and approach 100 percent and that the low grade of the ore treated actually reflects a decrease in grade of ore with increasing depth. There is, however, a definite possibility that the low grade of ore received on the 125-foot level is actually due to greater waste dilution and due to mining lower grade stopes than were mined on the adit level. A satisfactory interpretation of the results of the project cannot be made as yet for these reasons:

1) the ore is "spotty" and samples of it are unreliable;

2) mill returns are incomplete;

3) ore from the Tungstena mine, and some Black Pearl dumps and "stockpile" were treated with the newly mined ore and tonnage and grade breakdown is not yet available.

4) mine workings are tightly timbered and prevent inspection and interpretation of the vein.

The Hillside Company has mined about 10,000 tons of ore and is now making the final clean-up from the mill. When this is completed Mr. Bogart will submit a final report on the Hillside Company operation to DMEA. A comprehensive report (possibly a final report) will be submitted by the Tucson office as soon as all the available data can be assembled and suitable maps prepared.

Work under Stage II of the contract, items 11 to 16 inclusive, have been recommended and authorized as requested by the operator May 18, 1956. This writer at present doubts the advisability of Government participation in deepening the shaft and driving the 250-foot level drift until Stage I work can be completely re-evaluated. There is a possibility that driving the 125-foot level eastward would be better exploration than sinking the shaft another 125 feet. I recommend that the project be completely re-appraised before allowing further Government participation.

J. N. Faick

J. N. Faick, Geologist

JNF:ms

cc. Traver (8)
Barnhman
Storms
File

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
2/21	Talbert	800
2/21		220
	WSM	400

FEB 21 1958

Mr. Thomas H. Breding
DMEA Auditor
224 New Customhouse Building
Denver 2, Colorado

Re: Docket No. DMEA-3448
Contract No. Idm-E763
Hillside Mining and Milling Co.

Dear Mr. Breding:

I am enclosing the original and four copies (including two extras) of a rewrite of the first page of your First Royalty Audit Report on the referenced project. This rewrite clarifies the first paragraph under Section II.

If you concur, please substitute this page in the Operator's and Regional Office's copies of the report. Normal distribution is then authorized.

In future royalty audit certificates and reviews please show the mineral or minerals covered by the contract as parenthetical words following the docket numbers. This is a requirement of Mr. Chambers' memorandum of May 11, 1956, to all auditors.

Sincerely yours,

(Signed) E. D. Talbert

E. D. Talbert, Acting Director
Contract Administration
and Audit Division

Enclosure
EDTalbert/wb
February 21, 1958

Copy to: Docket
Admr. Reading File
Mr. Chambers

8623

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

RECEIVED
OCT - 1 1956

224 New Customhouse
Denver 2, Colorado

September 28, 1956

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 3448 (Tungsten) Contract Idm-E763, Hillside Mining and Milling Company (Black Pearl Mine) Yavapai County, Arizona

Enclosed are two copies of a Monthly Progress Report from the subject Operator. No work was performed under the contract during the period inasmuch as the contract is in recess. An amendment to authorize a suspension and to extend the completion date is presently under consideration by the Washington Office. The Operator has been asked to furnish DMEA with a brief summary of activities during the recess.

Forms MF-104 and MF-104A were submitted for the month of August, 1956. The Operator has been informed that the accounting forms will not be required until such time as the contract work is resumed.

W. M. Traver

W. M. Traver

Enclosures

MF-104's
Aug. 1956

RECEIVED

OCT - 1 1956

September 24, 1956

Memorandum

To : W. M. Traver, Executive Officer, DMEA Field Team

From : Superintendent, Southwest Experiment Station

Subject : August 1956 Progress Report, Docket DMEA-3448 (Tungsten), Contract Idm-8763 (Tungsten), Hillside Mining & Milling Co. (Black Pearl Mine), Yavapai County, Ariz.

Enclosed in quintuplicate are the following:

(1) Bureau of Mines engineer's report;

(2) Operator's narrative report;

(3) Forms MF-104 and MF-104A.

Also included are 4 extra copies of our engineer's report.

No work was done under terms of the contract during the month, therefore no payment is due the operator.

Signed by Walter R. Storms

Walter R. Storms

CC W. M. Traver (Orig. & 8)
DMEA-3448
WRS

WRStorms:frj

RECEIVED
OCT 1 1956

September 19, 1956

Memorandum

To : Walter R. Storms, Superintendent, Southwest Experiment Station, Region III

From : T. M. Romslo, Mining Engineer, Tucson, Ariz.

Subject : Progress Report for August 1956, Docket DMEA-3448, Contract Idm-8763 (Tungsten) Hillside Mining and Milling Co., (Black Pearl Mine) Yavapai County, Ariz.

During my last monthly inspection of the Black Pearl mine on August 7, 1956 I found that all authorized work on the 125 level had been completed and that the operator expected to request recession of the project for 3 months from August 1, 1956. Since a complete record of accomplishments at the mine and mill during the life of the contract is desirable, I asked the operator to furnish DMEA with a brief summary of activities during the recess.

His report for August is attached. The MF forms of the report are not needed and the operator had been told that they should not be included with the remaining reports for the recess period.

Original signed by
T. M. Romslo

T. M. ROMSLO, Mining Engineer
Southwest Experiment Station

CC W. M. Traver (Orig. & 8)
DMEA-3448
MF

TMRomslo:frj

September 5, 1956

RECEIVED
OCT - 1 1956

Mr. W. H. Traver, Executive Officer
DMEA Field Team Region III
224 New Custom House
Denver 2, Colorado

RE: DOCKET NO. DMEA 3448 (TUNGSTEN)
NO. IDME763

Dear Mr. Traver:

The following is a brief summary of the activities at the Black Pearl Mine during the month of August, 1956.

No advance was made under the DMEA contract as everything available for completion has been finished with the exception of the sinking of the shaft. This will be the next operation as explained in a separate letter.

Tonnage mined amounted to 951 tons as calculated by cars.

MILL DATA

Dry Tons Milled	Assay Heads	Assay Tails	Indicated Recovered	Recovered by Conc. lbs. WO_3
1,505	0.364	0.054	6.20 lbs/ton	6.8824 lbs/ton

During the month the main operation was the starting of stopes. As soon as the stopes are under way the plans are to resume the drifting toward the east as further exploration.

Very truly yours,

HILLSIDE MINING & MILLING CO.

Robert C. Bogart

Robert C. Bogart
General Manager

RCB:bp

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

RECEIVED
OCT - 1 1956

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of August, 1956 Docket No. DMEA _____ Contract No. IDM-E-763
Operator's Name Hillside Mining & Milling Company Minerals Tungsten
Address Bagdad, Arizona

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				24,344.00	716.0	34.00	1,705	34.00
~~Crosscutting~~ timbering				4,721.50	675.5	7.00	1,600	7.00
Raising				4,130.00	118.0	35.00	125	35.00
Shafts				19,500.00	150.0	130.00	275	130.00
~~Winzes~~ Spiling							120	20.00
~~Drilling-Core~~ Stations				2,000.00	1	2,000.00	2	2,000.00
Sampling & Assaying				630.00	126	5.00	320	5.00
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Total Distributed Costs				55,325.50				Total Costs Authorized by Contract
Bulldozing				263.75				480.00
Operating Equipment Purchased				380.00				4,750.00
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.				2,030.00				2,300.00
Other Preparatory Work				1,858.90				2,460.00
Total Costs				59,863.23				127,285.00

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 9-11-56 Operator Hillside Mining & Milling Co.

Per R. C. Bogart Title General Manager
R. C. Bogart

Remarks:
Advance--Drift
Audit level - 271 ft. Todate
125 ft. " 445 " "

Advance--Timbering
Audit Level - 275.5 ft. todate
125 ft. " 400.0 " "

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

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

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

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

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

GPO 872894

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.5

RECEIVED
OCT - 1 1956

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of August, 195 6 Docket No. DMEA

Contract No. IDM-E-763

Operator's Name Hillside Mining & Milling Company

Minerals Tungsten

Address Bagdad, Arizona

Contract Amount, $ 127,285.00 Government Participation: 75 % Amount, $ 95,463.75

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:						
shaft sinking			19,500.00			
Bulldozing			268.75			
Sampling & Assaying			630.00			
Drifting & crosscutting			24,344.00			
Timbering			4,721.50			
(2) Labor and Supervision: Raise			4,130.00			
Labor			719.63			
Supervision						
Technical Services			300.00			
(3) Operating Mat'ls. and Supplies:						
Timber			19.84			
Explosives			19.81			
Pipe			20.00			
Track			50.00			
Drill Steel & Bits			20.00			
Small Tools			58.19			
(4) Operating Equipment:						
Rental						
Purchase			380.00			
Depreciation			200.00			
(5) Initial Rehabilitation and Repairs			2,030.08			
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment			15.83			
Sampling and Analysis						
Payroll Taxes			86.21			
Liability Insurance						
Acct. & Supplies			175.00			
Pickup Mileage			174.39			
(8) Contingencies (specify):						
Station & Skip Pocket			2,000.00			
TOTALS			59,863.23			

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

Date 9-11-56 *Payee Hillside Mining & Milling Company

Per R. C. Bogart Title General Manager

R. C. BOGART

*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:

$

Signature
(Authorized Certifying Officer)

Date Vou. No.
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

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

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

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

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

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GPO 872893

U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
REGION III

3448

Administrative Audit Difference Statement

[illegible]

Date: [illegible]
Payee's
Reference: [illegible]

[illegible]

FINAL DISTRIBUTION

MADE SEP 7 1956

WSM

Upon examination of the above Payee's Reference a difference was found which made it necessary to suspend your account accordingly:

Amount Claimed $ [illegible]

Difference $

Amount Approved $ [illegible]

The reason for the difference was due to:

[illegible]

Any reclaim for deductions made above must be supported by the ORIGINAL of this form.

Very sincerely yours,

N. E. Stokes
Audit Section

M7-104
Quelz

R-III-B & F Form No. 4
4-15-52 D

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

224 New Customhouse
Denver 2, Colorado

August 31, 1956

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 3448 (Tungsten) Contract Idm-E763, Hillside Mining and Milling Company (Black Pearl mine) Yavapai County, Arizona - Operator's Monthly Progress Report for the month of July, 1956

Enclosed are the original and four copies each of Forms MF-104 and MF-104A, Operator's Narrative Report and Engineer's Report for the above period.

It is deemed that the Operator has complied with the intent of the contract, and the work for which payment is recommended is acceptable to the Government. Documentation has been waived, therefore we recommend that payment be made for 75 percent of the amount as reported by the Operator on Form MF-104, and contingent on findings of subsequent on-site audit of the Operator's account, except for the following deduction.

Withhold an amount of $500.00 pending additional work under the contract. Information contained in the Engineer's report indicates that a request for recess of operations will be submitted by the Operator in the near future. Inform the Operator of the reason for the withholding by means of Administrative Audit Difference Statement.

Remarks

Date of Report - - - - - - - - - - - - - - - - August 11, 1956
Date Received in Field Office- - - - - - - August 14, 1956
Date Received in Region Office- - - - - - August 24, 1956

W. M. TRAVER

W. M. Traver

Enclosures
JDC:jy
cc: MF-104 File E763
Sec. Op. Comm. (2)
Storms
Townsend w/copy engr's report

DMEA
Date Rec'd.
AUG 24 1956
BUREAU OF MINES
Denver, Colorado

August 22, 1956

Memorandum

To : W. M. Trexler, Executive Officer, DMEA Field Team

From : Lincoln A. Stewart for Walter R. Storms

Subject : Progress Report for July 1956, Docket DMEA-3448, Contract I&m-5763, (Tungsten) Hillside Mining and Milling Co., (Black Pearl Mine), Yavapai County, Ariz.

Enclosed in quintuplicate are the following:

(1) Bureau of Mines engineer's report;

(2) Operator's narrative report with map;

(3) Forms MF-104 and MF-104A.

Also enclosed are 4 extra copies of our engineer's report.

As all work is in accordance with the terms of the contract, I recommend that the Government's share of the costs be paid, deducting $300.00 therefrom pending resumption of work.

LINCOLN A. STEWART

Lincoln A. Stewart, Mining Engineer
for Walter R. Storms
Superintendent
Southwest Experiment Station

CC W. M. Trexler (8)
DMEA-3448
DF

LAStewart:frj

August 22, 1956

Memorandum

To : Walter R. Stoens, Superintendent, Southwest Experiment Station

From : T. M. Rasmle, Mining Engineer, Tucson, Ariz.

Subject : Progress Report for July 1956, Docket DMA-3448, Contract Ldm-8763 (Tungsten), Hillside Mining and Milling Co., (Black Pearl Mine), Yavapai County, Ariz.

On August 7, 1956, I visited the Black Pearl mine and inspected progress under subject contract with Pete Cordova, mine foreman of the night shift.

I found that progress for July 1956 was confined to an extension of the east 125 level drift and completion of the raise from the 125 level to the adit. The east 125 level had been advanced to 416 feet from the crosscut and it was timbered to within 5.5 feet of the face. Authorized drifting and timbering on this level was 400 feet. Allowable advance of each operation for July was 375 to 400 feet or 25 feet. The raise was completed during July for a rail to rail distance of 125 feet. Allowable advance for July was 40 feet since 70 feet was reported for June and the starting point of the raise was 7 feet from the floor of the 125 level.

70
48
7
125

Good tungsten values are exposed in the 2 veins at the face of the drift. The main vein along the north wall of the drift is2.8 feet wide. This vein is expected to persist and the 1.2-feet wide vein along the other wall is expected to pinch within a short distance. The vein of the raise also carries good tungsten values and ranges in width from about 2.5 to 4.0 feet.

Robert C. Bogart, General Manager, was interviewed at Bagdad. He reported that the 5 samples of the operator's report were obtained and assayed during July and that the allowable cost of this work would be vouchered at a later date. He also said that deepening of the shaft could not be started for a few months for reasons that will be given in a request for rescission of the contract work.

CC W. M. Trower (Orig. & 8)
DMA-3448
WF

TMRamsle:frj

ANALYSIS OF OPERATOR'S REPORT

Form MF-104

Drifting and Crosscutting - The $850.00 is for the authorized 25 feet of advance at $34.00 per foot.

Timbering. - The $175.00 is for the authorized 25 feet of advance at $7.00 per foot.

Raising - The $1,680.00 is for the authorized 48 feet of advance at $35.00 per foot.

Total Costs - The Monthly Total of $2,705.00 is correct. The other costs, $37,188.23 and $50,843.00 are believed to be correct before previous disallowances totalling $689.07.

Form MF-104A

The form has been properly completed.

Operator's Narrative Report

The narrative report with map and assay record is satisfactory. It was first received at Tucson Aug. 14. The MF-forms were mailed to the Operator for signatures and were returned to Tucson August 17.

Recommendation: Withhold $300.00 of the operator's share of costs for July pending resumption of work.

Original signed by
T. M. Rosalo

T. M. Rosalo
Mining Engineer
Southwest Experiment Station

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 1956 Docket No. DMEA 3448 Contract No. IIII D 763
Operator's Name Hillside Mining & Milling Company Minerals Tungsten
Address Dagdad, Arizona
Contract Amount, $ 127,235.00 Government Participation: 75 % Amount, $ 95,463.75

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 Contracts:						
Short Form						
Shaft Sinking		19,500.00	19,500.00			
Drilling		268.75	268.75			
Sampling & Assaying		630.00	630.00			
Bulldozing						
Crosscutting						
Drifting & Crosscutting	850.00	23,494.00	24,344.00			
Timbering	175.00	4,546.50	4,721.50			
Raise	1680.00	2,450.00	4,130.00			
(2) Labor and Supervision:						
Labor		719.63	719.63			
Supervision						
Technical Services		300.00	300.00			
(3) Operating Mat'ls. and Supplies:						
Timber		19.84	19.84			
Explosives		19.81	19.81			
Pipe		20.00	20.00			
Trash		50.00	50.00			
Drill Steel & Bits		20.00	20.00			
Small Tools		53.19	53.19			
(4) Operating Equipment:						
Rental						
Purchase		380.00	380.00			
Depreciation		200.00	200.00			
(5) Initial Rehabilitation and Repairs		2,030.08	2,030.08			
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment		15.03	15.03			
Sampling and Analysis						
Payroll Taxes		86.21	86.21			
Liability Insurance						
Acct. & Supplies		175.00	175.00			
Pickup Mileage		174.39	174.39			
(8) Contingencies (specify):						
Station & Skip Pocket		2,000.00	2,000.00			
TOTALS	2,705.00	57,158.23	59,863.23	2,705.00	57,158.23	59,863.23
				1	689.07	689.07

I certify that the above bill is correct and just and that payment therefor has not been received.
Date Aug. 11, 1956 *Payee Hillside Mining & Milling Co.
Per Robert Bryant Title General Manager

*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: 56,469.16 59,174.16
$ 1528.75

Signature [illegible]
(Authorized Certifying Officer)
Date 9/6/56 Vou. No. DMA 57-28
(See other side)

1 Previous Deductions

(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-E763 in accordance with the terms of the contract.

Signature T. M. Romalo Title Mining Engineer Date 8/21/56

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE: for WPS

Signature W. M. Maney Title Executive Officer Date AUG 31 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, 1956 3448 Contract No. IMI E 763

Operator's Name Hillside Mining & Milling Company Minerals Tungsten

Address Dagdad, Arizona

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
& Crosscutting	ft.	850.00	25'	24,344.00	716.0	34.00	1,705	34.00
timbering	ft.	175.00	25'	4,721.50	675.5	7.00	1,600	7.00
Crosscutting	ft.	1,600.00	48'	4,130.00	118.0	35.00	125	35.00
Raising	ft.			19,500.00	150.0	130.00	275	130.00
Shaft spiling							120	20.00
Winzes Stations				2,000.00	1	2,000.00	2	2,000.00
Sampling & Assaying				630.00	126	5.00	320	5.00
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
		2,705.00		55,325.50				Total Costs Authorized by Contract
Building				268.75				480.00
Distributed Costs				380.00				[illegible]
Operating Equipment Purchased								4,750.00
Initial Rehabilitation and Repairs				2,030.08				2,300.00
Other Preparatory Work				1,858.90				2,460.00
Total Costs		2,705.00		59,863.23				127,285.00

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

Date Aug. 11, 1956 Operator Hillside Mining & Milling Co.

Per Robert L. Bogard Title General Manager

Reverse: Dist. Footage
Audit level—272 ft. todate
125' " 445 " "

Timbering
Audit level—175.5 ft. todate
125' " 400.0 " "

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)

M. Ponsolo

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

xxxxxxxxxxxxxxxxxxxx

August 13, 1956

Mr. W. M. Traver, Executive Officer
DMEA Field Team Region III
224 New Custom House
Denver 2, Colorado

RE: DOCKET NO. DMEA 3448 (TUNGSTEN)
NO. IDME 763

Dear Mr. Traver:

The following is a summary of the mining activities at the Black Pearl Mine during the month of July, 1956, under the above DMEA contract.

Thirty-five feet of advance was made on the 100' level, bringing the total advance east to 410 ft., which is 10 ft. beyond the Stage I contract. Twenty-five feet will be turned in on our invoices. The average vein width was 19.6" with a grade of 0.291% WO_3.

In the raise 200 ft. east of the shaft 48 ft. of advance was made, breaking this raise through to the Adit level. The ore was continuous and of average grade throughout this raise.

The following is a resume of tonnages mined and milled to date:

PERIOD	MINED TONNAGE (ESTIMATED BY CARS)
Nov. 1st to May 1st	3,665
May, 1956	1,042
June	1,106
July	755
Total to date:	6,568 Tons

MILL DATA

DRY TONS MILLED (BY BELT WT)		ASSAY HEADS	ASSAY TAILS	INDICATED RECOVERED	RECOVERED BY CONC. LBS. WO_3
April	1,922	Mixed with Tungstona			3.058
May	1,857	" "	"		3.913
June	1,282	0.375	0.103	5.44	4.481
July	1,450	0.292	0.069	4.46	6.286
	6,511				

The tonnage mined is evidently in error as 300 to 400 tons is still remaining in the stockpile.

During May and June the lowest grade ore was milled in order to get the "bugs" out of the revised mill circuit without resulting in great losses. In June the circuit was again revised, eliminating the rod mill to reduce sliming, and this resulted in increased recovery. In the latter part of July a scavenger jig was placed on the coarse tails to further reduce losses.

Very truly yours,

HILLSIDE MINING & MILLING CO.

Robert C. Bogart

Robert C. Bogart
General Manager

RCB:bp

BLACK PEARL

100 LEVEL EAST

DIST.	WIDTH OF CUT	% WO_3
380	18"	1.37
385	24 "	0.03
390	16"	0.01
395	16"	0.14
400	24"	0.03
	19.6"	0.291

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

RECEIVED
AUG - 6 1956

224 New Customhouse
Denver 2, Colorado

July 30, 1956

FINAL DISTRIBUTION
MADE AUG 2 1956

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 3448 (Tungsten) Contract Idm-E763, Hillside Mining and Milling Company (Black Pearl Mine) Yavapai County, Arizona - Operator's Monthly Progress Report for the month of June, 1956

Enclosed are the original and four copies each of Forms MF-104 and MF-104A, Operator's Narrative Report, and Engineer's Report for the above period.

It is deemed that the Operator has complied with the intent of the contract, and the work for which payment is recommended is acceptable to the Government. Documentation has been waived, therefore we recommend that payment be made for 75 percent of the amount as reported by the Operator on Form MF-104 subject to verification of arithmetical accuracy within Form MF-104, and contingent on findings of subsequent on-site audit of the Operator's accounts.

Remarks

Date of Report ---------- July 12, 1956
Date Received in Field Office ---------- July 20, 1956
Date Received in Region Office ---------- July 26, 1956

W. M. TRAVER

W. M. Traver

Enclosures
JDC:jy
cc: MF-104 File E763
Sec. Op. Comm. (2)
Storms
Chron.

RECEIVED
AUG - 6 1956
DMEA
Date Rec'd.
JUL 26 1956
BUREAU OF MINES
Denver, Colorado

July 24, 1956

Memorandum

To : W. M. Traver, Executive Officer, DMEA Field Team

From : Superintendent, Southwest Experiment Station

Subject : June 1956 Progress Report, Docket DMEA-3448, Contract 16[illegible]-763 (Tungsten), Hillside Mining & Milling Co. (Black Pearl Mine), Yavapai County, Ariz.

Enclosed in quintuplicate are the following:

(1) Bureau of Mines engineer's report;

(2) Operator's narrative report with map;

(3) Forms BF-104 and BF-104A.

Also enclosed are 4 extra copies of our engineer's report.

As all work is in accordance with terms of the contract, I recommend that the Government's share of the costs be paid.

Signed by Walter R. Storms

Walter R. Storms

CC W. M. Traver (6)
DMEA-3448
DF

WRStorms:frj

RECEIVED
AUG 20 1956

July 24, 1956

Memorandum

To : Walter R. Storms, Superintendent, Southwest Experiment Station, Region III

From : T. M. Romalo, Mining Engineer, Tucson, Ariz.

Subject : Progress Report for June 1956, Docket BMEA-3448, Contract Edm-8763, (Tungsten) Hillside Mining and Milling Co., (Black Pearl Mine), Yavapai County, Ariz.

On July 5, 1956 I visited the Black Pearl mine and inspected progress under subject contract with H. E. Jeans, mine mechanic. Mr. Jeans, the only person present, was engaged in hauling water to the mine during a 3-day holiday.

I found that measurable progress was confined to 135 feet of drifting and timbering on the east 125 level and an initial 70 feet of advance in the raise being driven from the 125 level to the adit. Other work consisted of assaying 31 channel samples. The map of the operator's report shows locations of the drift, raise and samples.

At the east face of the 125 level, minor amounts of wolframite were observed in a 2-foot wide vein along the south wall of the drift and a partially exposed vein along the north wall. Based on a similar condition on the adit level, the north vein, which has been followed by the drift, will pinch out within 10 or 20 feet. The south vein should be about 2 feet wide and widen to 3 or 4 feet as it is followed to the east.

The vein at the face of the raise contains blebs of wolframite scattered over a width of about 30 inches.

The 125 east drift is being driven to a minimum cross section of 5 by 7 feet in clear of timber. The raise has 2 timbered compartments, each 5 by 5 feet in clear of timbers.

Robert C. Bogart, General Manager, was interviewed at Bagdad. According to Mr. Bogard, 1,282 tons of Black Pearl ore milled during June yielded concentrates containing 6,525.977 pounds WO_3. Prior to June, production subject to Government royalties was from co-mingled ores from the Black Pearl and Tungstonia mines.

CC W. M. Tranor (Orig. & 8)
BMEA-3449
DF

TMRomalo:frj

ANALYSIS OF OPERATOR'S REPORT

RECEIVED
AUG - 6 1968

Form MF-104

Sampling and Assaying - The $155.00 is for the assaying of 31 authorized samples from the 125 level east drift.

Drifting and Crosscutting - The $4,590.00 is for the authorized 135 feet of advance at $34.00 per foot.

Timbering - The $945.00 is for 135 feet of drift timbering at $7.00 per foot.

Raise - The $2,450.00 is for the 70 feet of authorized advance at $35.00 per foot.

Total Costs - The Monthly Total of $8,140.00 is correct. The other costs, $49,01[illegible].23 and $57,158.23, include previous disallowances totalling $6[illegible]9.07.

Form MF-104A

The form has been properly completed.

Narrative Report

The narrative report with map is satisfactory.

T. M. Romalo
Mining Engineer
Southwest Experiment Station

July 12, 1956

RECEIVED
AUG 6 1956

Mr. W. M. Traver
DMEA Field Team Region III
224 New Custom House
Denver 2, Colorado

Dear Mr. Traver:

Re: Docket No. DMEA 3448 (Tungsten)
No. IDME 763

The following is a summary of the mining activities at the Black Pearl Mine during the month of June, 1956, under the above DMEA Contract.

One Hundred and thirty-five feet of advance was made on the 100' level drift. The average vein width was 42.3 In. with an average grade of 0.164% WO_3, as indicated by cut samples. Grab samples were taken during this period and indicate 0.295% WO_3 as mined. The vein has been quite uniform in composition; consisting of heavy iron pyrite and tungsten on white quartz.

The ground in the drift has become quite heavy resulting in a large amount of timber repair and replacement.

In the raise 200 ft. east of the shaft, 70 ft. of advance was made. With the completion of this raise the ventilation will be much better with a great improvement in working conditions.

After completion of the mill changes, 1,282 dry tons were milled with 6,525.977 lbs. of WO_3 recovered including hand sorted tungsten. No market for the concentrates at this time, but hope the Government will take some action in the near future on the stockpiling program.

Very truly yours,

HILLSIDE MINING & MILLING CO.

Robert C. Bogart

Robert C. Bogart
General Manager

RCB:bp

HILLSIDE MINING & MILLING CO.
BLACK PEARL
100 LEVEL EAST

DIST.		WIDTH OF CUT	% WO_3
225		48	1.46
230		48	0.13
235		48	0.03
240		48	0.04
245		48	0.01
250		48	0.01
255		48	0.09
260		48	0.03
265		48	0.13
270		48	0.01
275		48	0.16
280		42	0.33
285		46	0.19
290	20 + 36	56	0.31
295	27 + 20	47	0.02
300		48	0.49
305		48	0.71
310		43	0.02
315		43	0.02
320		42	0.02
325		48	0.01
330		48	0.01
335		40	0.02
340		42	0.01
345		37	0.17
350		24	0.03
355		32	0.01
360		24	0.04
365		24	0.01
370		24	0.02
375		26	0.10
		42.3	0.164

Average drift width 84 in.

Average vein width	42.3 @	0.164
Dilution	41.7 @	0.000
Indicated grade with dilution by cut samples:	84.0	0.083

Grab Samples	0.28
	0.52
	0.19
	0.40
	0.30
	0.08
Indicated grade by grab samples:	0.295

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
AUG 16 1956

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of June, 1956, 195.... Docket No. DMEA ..... Contract No. JDM-E-763
Operator's Name Hillside Mining & Milling Company Minerals Tungsten
Address Bagdad, Arizona
Contract Amount, $27,285.00 Government Participation: 75 % Amount, $5,463.75

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:						
Shaft Sinking		19,500.00	19,500.00			
Bulldozing		268.75	268.75			
Sampling & Assaying	155.00	475.00	630.00			
Drifting & Crosscutting	4,590.00	18,904.00	23,494.00			
Timbering	945.00	3,601.50	4,546.50			
(2) Labor and Supervision: Raise	2,450.00	-0-	2,450.00			
Labor		719.63	719.63			
Supervision						
Technical Services		300.00	300.00			
(3) Operating Mat'ls. and Supplies:						
Timber		19.84	19.84			
Explosives		19.81	19.81			
Pipe		20.00	20.00			
Track		50.00	50.00			
Drill Steel & Bits		20.00	20.00			
Small Tools		58.19	58.19			
(4) Operating Equipment:						
Rental						
Purchase		380.00	380.00			
Depreciation		200.00	200.00			
(5) Initial Rehabilitation and Repairs		2,030.08	2,030.08			
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous: Trucking		15.83	15.83			
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes		86.21	86.21			
Liability Insurance						
Acct. & Supplies		175.00	175.00			
Pickup Mileage		174.39	174.39			
(8) Contingencies (specify):						
Station & Skip Pocket		2,000.00	2,000/00			
TOTALS	8,140.00	49,018.23	57,158.23	8,140.00	49,018.23	57,158.23
				4	689.07	689.07
						56,469.16

I certify that the above bill is correct and just and that payment therefor has not been received.
Date July 12, 1956 *Payee Hillside Mining & Milling Co.
Per R. C. Bogart Title Gen. Manager
R. C. Bogart

*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: 48,329.16
$ 6105.00

Signature ..... (Authorized Certifying Officer)
Date 8/1/56 Vou. No. DMA 57-15
(See other side)

4 Previous Disallowance

(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-1763 in accordance with the terms of the contract.

Signature [illegible] Title Mining Engineer Date 7/24/56

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature [illegible] Title Executive Officer Date JUL 30 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.

GPO 872893

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
AUG - 6 1956

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of June 1956 Docket No. DMEA _____ Contract No. IDM E 763

Operator's Name Hillside Mining & Milling Company Minerals _____

Address Bagdad, Arizona

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	ft.	4,590.00	135	23,494.00	691.0	34.00	1,705	34.00
Crosscutting timbering	ft.	945.00	135	4,546.50	650.5	7.00	1,600	7.00
Raising	ft.	2,450.00	70	2,450.00	70.0		125	35.00
Shafts	ft.			19,500.00	150.0	130.00	275	130.00
Winzes spiling							120	20.00
Drifting Stations	ft.			2,000.00	1	2,000.00	2	2,000.00
Sampling & Assaying	each	1955.00	20	630.00	126	5.00	320	5.00
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Total Distributed Costs		8,140.00	52,620.50					Total Costs Authorized by Contract
Bulldozing			268.75					480.00
Operating Equipment Purchased			380.00					4,750.00
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.			2,030.08					2,300.00
Other preparatory work.			1,858.90					2,460.00
Total Costs		8,140.00	57,158.23					127,285.00

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 11, 1956 Operator Hillside Mining & Milling Co.

Per R. C. Bogart Title Gen. Mgr.

R. C. Bogart

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:
Advance—drift—footage
Audit level - 271 ft. todate
125 " 420 " "

Advance—Timber—footage
Audit level - 275.5 ft. todate
125 " 375.0 " "

(For Government use only)

M. Pancelo

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

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

224 New Customhouse
Denver 2, Colorado

FINAL DISTRIBUTION
MADE JUL 5 1956

June 29, 1956

3448

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 3448 (Tungsten) Contract Idm-E763, Hillside Mining and Milling Company (Black Pearl Mine), Yavapai County, Arizona - Operator's Monthly Progress Report for the month of May, 1956

Enclosed are the original and four copies of Forms MF-104 and MF-104A, Operator's Narrative Report, and Engineer's Report for the above period.

It is deemed that the Operator has complied with the intent of the contract, and the work for which payment is recommended is acceptable to the Government. Documentation has been waived, therefore, we recommend that payment be made for 75 percent of the amount as reported by the Operator on Form MF-104 subject to verification of arithmetical accuracy within Form MF-104, and contingent on findings of subsequent on-site audit of the Operator's accounts.

Remarks

Date of Report----------June 16, 1956
Date Received in Field Office----------June 25, 1956
Date Received in Region Office---------- June 28, 1956

W. M. TRAVER

W. M. Traver

MF-104

Enclosures
JWT:jy
cc: MF-104 File E763
Sec. Op. Comm. (2)
Storms
Chron.

RECEIVED
JUL 0 9 1956

June 25, 1956

Memorandum

To : Walter E. Sterns, Superintendent, Southwest Experiment Station, Region III

From : T. M. Romslo, Mining Engineer, Tucson, Arizona

Subject : Progress Report for May 1956, Docket DMEA-3448, Contract Idm-E763 (Tungsten) Hillside Mining and Milling Company, (Black Pearl Mine) Yavapai County, Ariz.

I visited the Black Pearl mine and inspected pertinent underground workings with K. Pumala, mine foreman, at the end of the day shift on May 31. I found that measurable work under the contract was confined to 120 feet of advance and timbering in the east 125 level. The face of the drift was 240 feet from the cross-cut to the shaft. Other work consisted of the cutting and assaying of the 20 composite samples of the attached operator's report.

The vein at the face of the east 125 drift was 46 inches wide. No tungsten minerals were observed.

Preparations were being made to start the raise from the 125 level to the adit. This raise is part of stage 2 operations that were recently approved.

Information about milling operations was obtained from Robert C. Bogart, General Manager of subject company, who recently was appointed assistant to G. Colville, general manager of the Bagdad Copper Co. Mr. Bogart will continue to supervise the Black Pearl operations. He said that simultaneous milling of Black Pearl and Tungstena ores continued during May, but future milling, after changes to the flow sheet, would be confined to Black Pearl ore. We discussed royalty payments and mutually agreed that concrete data to support such payments would require production statistics from the milling of Black Pearl ore.

CC W. M. Traver (8)
DMEA-3448
MF

TMRomslo:frj

ANALYSIS OF OPERATOR'S REPORT

Form MP-104

Sampling and Assays - The $100.00 is for the assaying of the 20 authorized samples from the 125 level at $5.00 each.

Drifting and crosscutting - The $4,080.00 is for the authorized 120 feet of advance at $34.00 per foot.

Timber - The $840.00 is for the authorized 120 feet of timbering at $7.00 per foot.

Total Costs - The costs for the month correctly total $5,020.00. The other costs, $43,998.23 and $49,018.23, are believed to be correct before previous disallowances, totalling $669.07.

Form MP-104A

The form has been properly completed. The operator will be asked to use the "Remark" section of future reports for a segregation of advances by levels.

Narrative Report

The narrative report with map is satisfactory.

T. M. Romale
Mining Engineer
Southwest Experiment Station

June 19, 1956

Mr. W. M. Traver
DMEA Field Team Region III
224 New Custom House
Denver 2, Colorado

RE: DOCKET NO.DMEA 3448 (TUNGSTEN)
NO. IDME 763

Dear Sir:

The following is a summary of the mining activities at the Black Pearl Mine during the month of May, 1956, under the above DMEA contract.

The 100' level drift advance amounted to 120 feet, with an average vein width of 43.6 inches, and a grade of 0.389% WO_3, as calculated from the cut samples. Again a comparison is made between cut samples and grab samples in order to establish a reliable grade. It will be interesting to compare it with the mill heads and final recovery.

Preparation is now in progress for starting a raise from the 100' level to the Adit level. This raise will be 200 feet east of the shaft as originally proposed.

The milling calculations for the month of April and May indicate 3.058 and 3.913 lbs WO_3 recovered per ton. The ore milled was a mixture of Tungstona and Black Pearl ore. A deduction was made for an average recovery of the Tungstona ore and the remainder credited to the Black Pearl.

Due to the cut in the price of Tungsten, we were forced to close the Tungstona operation. We have again changed the mill flow sheet to mill Black Pearl ore only. Therefore, any ore milled in the future will be exclusively Black Pearl. After a conference with your field engineer it was decided not to submit any final figures until a run on Black Pearl ore was made and some concrete data obtained.

Very truly yours,

HILLSIDE MINING & MILLING CO.

Robert C. Bogart

Robert C. Bogart
General Manager

RCB:bp
Encl. 2 maps & Sample Sheet.

BLACK PEARL

May, 1956

DRIFT CUT SAMPLES 100' LEVEL

DIST.	CUT (WIDTH INCHES)	% WO_3
125	54	0.02
130	54	0.76
135	55	0.09
140	50	0.01
145	55	0.39
150	48	0.03
155	50	0.03
160	36	0.05
165	36	0.04
170	36	0.04
175	26	0.01
180	24	0.14
185	24	0.01
190	40	1.64
195	48	0.03
200	50	0.03
205	40	4.41
210	46	0.22
215	55	0.04
220	44	0.03
	43.6	0.389

Comparison Cut Samples to grab samples:

Grab Samples: 0.27, 0.38, 0.28, 0.14, 0.17 — 0.248

Indicate grade grab samples: .032 — 0.280

24 cans @ 16.38 = 393.12 lbs. WO_3

$\frac{7 \times 8 \times 120}{11}$ = 610 Tons

$\frac{393.12}{610}$ = 0.644 lbs WO_3/Ton

.0322% WO_3 recovered/ton hand sort

Indicate grade as mined by cut samples:

Average drift width 84"

	Inches Width		% WO_3
Average vein width	43.6	@	0.389
Dilution	36.4	@	0.000
Indicated grade by cut samples with dilution.	84"		0.202

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 May, 1956 Docket No. DMEA 3448 Contract No. DMEA 763
Operator's Name Millsite Mining & Milling Company Minerals Tungsten
Address Bagdad, Arizona
Contract Amount, $127,305.00 Government Participation: ____% Amount, $25,463.75

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:						
Shaft Sinking		19,500.00	19,500.00			
Bulldozing		260.75	260.75			
Sampling & Assaying	100.00	375.00	475.00			
Drifting & Crosscutting	4,000.00	14,904.00	18,904.00			
Timbering	840.00	2,761.50	3,601.50			
(2) Labor and Supervision:						
Labor		719.63	719.63			
Supervision						
Technical Services		300.00	300.00			
(3) Operating Mat'ls. and Supplies:						
Fuel & Lube		19.84	19.84			
Explosives		19.81	19.81			
Pipe		30.00	30.00			
Track		50.00	50.00			
Drill Steel & Bits		20.00	20.00			
Small Tools		58.19	58.19			
(4) Operating Equipment:						
Rental						
Purchase		380.00	380.00			
Depreciation		200.00	200.00			
(5) Initial Rehabilitation and Repairs		2,030.08	2,030.08			
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous: Trucking		15.83	15.83			
Equipment						
Sampling and Analysis						
Payroll Taxes		86.21	86.21			
Liability Insurance						
Acct. & Supplies		175.00	175.00			
Pickup Mileage		174.39	174.39			
(8) Contingencies (specify):						
Station & Skip Pocket		2,000.00	2,000.00			
TOTALS	5,020.00	43,978.23	49,018.23	5,020.00	43,978.23	49,018.23
				4	689.07	689.07
					43,309.16	48,329.16

I certify that the above bill is correct and just and that payment therefor has not been received.
Date 6-16-56 *Payee Millsite Mining & Milling Company
Per R. C. Bogart Title Gen. Mgr.
R. C. Bogart

*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 $3765.00

Signature ____ (Authorized Certifying Officer)
Date 7/3/56 Vou. No. M 57-3
(See other side)

JUL 9 1956

4 Previous Deductions

(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. Edm-E 763 in accordance with the terms of the contract.

Signature [illegible] Title Mining Engineer Date 6/25/56

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature W. M. Paver Title Executive Officer Date JUN 29 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 May 196 Docket No. DMEA Contract No. DMI E 763
Operator's Name Hillside Mining & Milling Company Minerals
Address Bagdad, Arizona

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	ft.	4,000.00	120'	10,904.00	556.0	34.00	1,705	34.00
Crosscutting Timbering	"	840.00	120'	3,601.50	515.5	7.00	1,600	7.00
Raising	"						125	35.00
Shafts	"			17,500.00	150.0	130.00	275	130.00
Winzes	"						120	20.00
Drifting Spiling								
Drilling: Core Stations each				2,000.00	1	2000.00	2	2000.00
Sampling & Assaying	"	100.00	20	475.00	95	5.00	320	5.00
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Total Distributed Costs		5,000.00		44,490.50				Total Costs Authorized by Contract
Bulldozing				268.75				400.00
Operating Equipment Purchased				380.00				4,750.00
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.				2,030.00				2,300.00
For preparatory work				1,850.90				2,460.00
Total Costs		5,000.00		49,010.15				127,205.00

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

Date May 6-16-56 Operator Hillside Mining & Milling Co.

Per R. C. Bogart Title General Manager

R. C. Bogart

Remarks:

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

(Instructions on reverse)

(For Government use only)

M Combs

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

FINAL DISTRIBUTION
MADE JUN 1 1956

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

224 New Customhouse
Denver 2, Colorado

May 29, 1956

400

Memorandum

To: T. A. Christensen

WSM

From: Acting Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 3448 (Tungsten) Contract Idm-E763, Hillside Mining and Milling Company (Black Pearl Mine) Yavapai County, Arizona - Operator's Monthly Progress Report for the month of April, 1956

Enclosed are the original and four copies each of Forms MF-104 and MF-104A, Narrative Report, and Engineer's Report for the above period.

It is deemed that the Operator has complied with the intent of the contract, and the work for which payment is recommended is acceptable to the Government. Documentation has been waived, therefore we recommend that payment be made for 75 percent of the amount as reported by the Operator on Form MF-104 subject to verification of arithmetical accuracy within Form MF-104, and contingent on findings of subsequent on-site audit of the Operator's accounts.

Remarks

Date of Report----------May 22, 1956
Date Received in Field Office---------- May 24, 1956
Date Received in Region Office---------- May 28, 1956

J. W. Townsend

J. W. Townsend

Enclosures
JDC:jy
cc: MF-104 File E763
Sec. Op. Comm. (2)
Storms
Chron.

MF-104 TRAIL

DMEA
Date Rec'd.

MAY 28 1956

BUREAU OF MINES
Denver, Colorado

May 24, 1956

Memorandum

To : W. M. Traver, Executive Officer, DMEA Field Team, Region III

From : Superintendent, Southwest Experiment Station

Subject : April 1956 Progress Report, Docket DMEA-3448, Contract Idm-5763, (Tungsten), Hillside Mining & Milling Co. (Black Pearl Mine), Yavapai County, Ariz.

Enclosed in quintuplicate are the following:

(1) Bureau of Mines engineer's report;

(2) Operator's narrative report with assays and map;

(3) Forms MF-104 and MF-104A.

Also enclosed are 4 extra copies of our engineer's report.

As all work is in accordance with terms of the contract, I recommend that the Government's share of the costs be paid.

Signed by Walter R. Storms

Walter R. Storms

CC W. M. Traver (8)
DMEA-3448
DF

WRStorms:frj

DMEA
Date Rec'd.

MAY 28 1956

BUREAU OF MINES
Denver, Colorado

May 24, 1956

Memorandum

To : Walter R. Storms, Superintendent, Southwest Experiment Station, Region III

From : T. M. Romslo, Mining Engineer, Tucson, Arizona

Subject : Progress Report for April 1956, Docket DMEA-3448, Contract Idm-E763 (Tungsten), Millside Mining and Milling Company (Black Pearl Mine), Yavapai County, Ariz.

I visited the Black Pearl mine and inspected pertinent underground workings at the end of the day shift April 30, 1956. Alton Madera, mine foreman, accompanied me underground and assisted in taking necessary measurements. I found that work under the contract was confined to the 125 East Drift where 80 feet of drifting and timbering was done, and 16 samples were cut and assayed. The vein at the face of the drift was about 5 feet wide.

Drifting advance through May on the 125 level, as measured from the crosscut to the shaft, totalled 235 feet. Of the 235 feet, 120 feet to the east is authorized by the contract and 115 to the west was driven at no expense to the Government. Drifting to the west was stopped when the width of the vein narrowed from an average of about 4 feet for the first 80 feet to about 8 inches at the face. Good values in wolframite are largely confined to the wider portion of the vein.

Stoping operations above the adit were in progress. Ore from the stopes and the 125 level is placed on the stockpile at the mine. Trucking of this ore to the Tungstona mill continues. Milling of ore from the Black Pearl started early in April. During April the mill treated a total of 4,145 tons of ore of which 1,922 was from the Black Pearl and the remaining 2,223 tons was from the Tungstona mine. Concentrates and middling products produced during the month contained a total of 19,376.68 pounds WO_3. At present, milling data are being analyzed to determine how much of production after losses in up-grading operations, is subject to royalty payments to the Government.

CC W. M. Traver (Orig. & 8)
DMEA-3448
DF

TMRomslo:frj

DMEA
Date Rec'd.
MAY 28 1956
BUREAU OF MINES
Denver, Colorado

ANALYSIS OF OPERATOR'S REPORT

Form MF-104

Sampling and Assaying. The cost of $115.00 is for the authorized cutting and assaying 23 samples at $5.00 each. Of the 23 samples shown on the list attached to the report, 16 were taken during April and 7 were obtained during March.

Drifting and Crosscutting. The $2,720.00 is the cost of the 80 feet of authorized drifting at $34.00 per foot.

Timbering. The $560.00 is for the authorized 80 feet of timbering at $7.00 per foot.

Total Costs. The total cost for the month, $3,395.00, is correct. The other totals, $40,603.23 and $43,998.23 do not reflect previous disallowances totalling $689.07.

The previously reported cost of Drifting and Crosscutting should be $12,104.00 instead of the reported $12,105.00.

Form MF-104A

The properly completed form shows totals before the previous disallowances.

Narrative Report

The narrative report with map and list of assays is acceptable.

T. M. Rosalo, Mining Engineer
Southwest Experiment Station

DMEA
Date Rec'd.

MAY 28 1956

BUREAU OF MINES
Denver, Colorado

May 21, 1956

Mr. W. M. Traver, Executive Officer
DMEA Field Team Region III
224 New Custom House
Denver 2, Colorado

RE: DOCKET NO. DMEA 3448 TUNGSTEN
NO. 1DMX 763

Dear Mr. Traver:

The following is a summary of the mining activities at the Black Pearl Mine during the month of April, 1956, under the above DMEA contract.

The drift was advanced from 40 ft. to 120 ft., or a total of 80 ft. The average width over the entire 120 ft. was 53.7 in. with an average grade as shown by the cut samples of 0.816% WO_3. The attached sheet contains these samples, together with a comparison of grab samples to cut samples. This comparison was quite close considering the difficulties encountered in sampling tungsten ore bodies containing large crystals of Wolframite. I am still quite reluctant to consider them to be accurate or trustworthy.

The milling of the stockpile has been started with numerous difficulties. The Black Pearl ore contains large amounts of Pyrite, which are troublesome to float at our course grind of 20M. Also, the ore contains some quantities of Hematite and Specularite, which concentrate with the table concentrate. They are also slightly magnetic and cannot be separated on our magnetic separator resulting in low grade concentrates. These concentrates can be brought to grade by retabling, but losses are quite heavy.

The mill calculations, together with the tonnage report are completed, but are not enclosed at this time as Mr. Remele, your Field Engineer, desired to examine them before submission. If any corrections or additions are necessary they will be made, therefore eliminating extra reports and correspondence.

A plan map is enclosed showing the relationship of the Adit and 125 ft. level. A cross section will be sent next month, as I am the only engineer on the job and am in the process of breaking in a new man, who will be able to keep this work up to date.

Hoping this meets with your approval, I remain

Sincerely yours,

HILLSIDE MINING & MILLING CO.

Robert C. Bagart

Robert C. Bagart
General Manager

RCB:bp

BLACK PEARL

Drift Cut Samples 100 ft. level.

DIST.	CUT WIDTH INCHES	% WO_3
12	50	0.03
17	53	0.68
22	55	1.86
27	54	1.40
32	52	0.01
37	50	1.01
42	50	0.70
47	53	1.66
52	48	0.56
57	48	0.09
62	48	0.01
67	46	0.01
72	48	0.05
77	48	0.05
82	48	0.01
87	48	0.02
92	45	0.02
97	48	10.11
102	75	0.36
107	48	0.56
112	59	1.18
117	92	0.02
122	60	0.01
	53.7	0.816

Comparison Cut Samples to Grab Samples.

Grab Samples 0.30
0.40
0.49
0.70
0.37
0.34
0.27
0.39
0.408

Hand Sort
35 Cans @ 16.38 Lbs. WO_3 = 573.30 Lbs.WO_3

$\frac{7x8x120}{11}$ = 610 Tons

$\frac{573.30}{610}$ = .940 lbs.WO_3/Ton hand sorted.

.047% WO_3 recovered/ton by hand sort.

Grab Sample Assay	0.408
Hand Sorted	0.047
Indicated grade by Grab Samples	0.455% WO_3

Indicated Grade as mined by Cut Samples.

Average Drift Width	84 in.
Average Vein Width	53.7 in. @ 0.816
Dilution	30.3 @ 0.000
Indicated %WO_3 by Cut Sample with Dilution	84.0 in. @ 0.5216

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.5

MAY 28 1956
BUREAU OF MINES
Denver, Colorado

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of April, 1956, 195.... Docket No. DMEA 3448 Contract No. IDM-E-763
Operator's Name Hillside Mining & Milling Company Minerals Tungsten
Address Bagdad, Arizona
Contract Amount, $127,285.00 Government Participation: 75 % Amount, $95,463.75

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~~ Shaft Sinking		19,500.00	19,500.00			
Bulldozing		268.75	268.75			
~~Crosscutting~~ Sampling & Assaying	115.00	260.00	375.00			
Drifting & Crosscutting	2,720.00	12,104.00	14,824.00			
Timbering	560.00	2,201.50	2,761.50			
(2) Labor and Supervision:						
Labor		719.63	719.63			
Supervision						
Technical Services		300.00	300.00			
(3) Operating Mat'ls. and Supplies:						
~~Timber~~ fuel & lube		19.84	19.84			
Explosives		19.81	19.81			
Pipe		20.00	20.00			
Track		50.00	50.00			
Drill Steel & Bits		20.00	20.00			
Small tools		58.19	58.19			
(4) Operating Equipment:						
Rental						
Purchase		380.00	380/00			
Depreciation		200.00	200.00			
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(7) Miscellaneous Trucking						
~~Repairs~~ Equipment		15.83	15.83			
Sampling and Analysis						
Payroll Taxes		86.21	86.21			
Liability Insurance						
Acct. & Supplies		175.00	175.00			
Pickup mileage		174.39	174.39			
(8) Contingencies (specify):						
Station & Skip Pocket		2,000.00	2,000.00			
TOTALS	3,395.00	40,603.23	43,998.23	3,395.00	40,603.23	43,998.23
				4	689.07	689.07
					39,914.16	43,309.16
					$3546.25	

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

Date 5-22-56 *Payee Hillside Mining & Milling Company

Per Robert C. Bogart Title Gen. Mgr.
Robert C. Bogart

*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:

Signature ..... (Authorized Certifying Officer)

Date 5/21/56 Vou. No. 56-115

(See other side)

4 Previous Deductions

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. IdM-E 765 in accordance with the terms of the contract.

Signature [illegible] Title Mining Engineer Date 5/24/56

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature [illegible] Title Acting ~~Executive Officer~~ Date MAY 29 1956

MONTHLY REPORT OF OPERATOR

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(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.

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

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

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

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

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

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

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

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

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

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

GPO 872893

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

DMEA
Date Rec'd.
MAY 28 1956
BUREAU OF MINES
Denver, Colorado

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of April, 1956 Docket No. DMEA 3448 Contract No. IDM-E-763
Operator's Name Hillside Mining & Milling Company Minerals tungsten
Address Bagdad, Arizona

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	ft.	2,720.00	80'	14,824.00	436.0	34.00	1,705	34.00
~~Crosscutting~~ timbering	"	560.00	80'	2,761.50	394.5	7.00	1,600	7.00
Raising	"						125	35.00
Shafts	"			19,500.00	150.0	130.00	275	130.00
~~Timbering~~ Spiling	"						120	20.00
~~Pumping Stations~~ Stations	each			2,000.00	1	2,000.00	2	2,000.00
Sampling & Assaying	"	115.00	23	375.00	75	5.00	320	5.00
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
								TOTAL COSTS AUTHORIZED BY CONTRACT
TOTAL DISTRIBUTED COSTS		3,395.00		39,460.50				
Bulldozing				268.75				480.00
Operating Equipment Purchased				380.00				4,750.00
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.				2,030.00				2,300.00
Other Preparatory Work				1,858.90				2,460.00
TOTAL COSTS		3,395.00		43,998.15				127,285.00

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:

Date 5-22-56 Operator Hillside Mining & Milling Co.

Per R. C. Bogart Title Gen. Mgr.
R. C. Bogart

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)

T. W. Woods

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

400

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

224 New Customhouse
Denver 2, Colorado

FINAL DISTRIBUTION
MAY 1 1956
MADE

April 26, 1956

WSM

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 3448 (Tungsten) Contract Idm-E763, Hillside Mining and Milling Company (Black Pearl claims 1, 2 and 7) Yavapai County, Arizona - Operator's Monthly Progress Report for the period March, 1956

Enclosed are the original and four copies each of Forms MF-104 and MF-104A, Narrative Report, and Engineer's Report for the above period.

It is deemed that the Operator has complied with the intent of the contract, and the work for which payment is recommended is acceptable to the Government. Documentation has been waived, therefore we recommend that payment be made for 75 percent of the amount as reported by the Operator on Form MF-104 subject to verification of arithmetical accuracy within Form MF-104, and contingent on findings of subsequent on-site audit of the Operator's accounts.

Remarks

Date of Report----------April 14, 1956
Date Received in Field Office----------April 18, 1956
Date Received in Region Office---------- April 23, 1956

W. M. TRAVER

W. M. Traver

Enclosures
JDC:jy
cc: MF-104 File E763
Sec. Op. Comm. (2)
Storms
Cooper
Chron.

RECEIVED

mar. 1956
MF-104P

DMEA
Date Rec'd.

APR 23 1956

BUREAU OF MINES
Denver, Colorado

April 19, 1956

Memorandum

To : W. M. Traver, Executive Officer, DMEA Field Team, Region III

From : Superintendent, Southwest Experiment Station

Subject : March 1956 Progress Report, Docket DMEA-3448, Contract Idm-E763 (Tungsten), Hillside Mining & Milling Co. (Black Pearl Mine), Yavapai County, Ariz.

Enclosed in quintuplicate are the following:

(1) Bureau of Mines engineer's report;
(2) Operator's Narrative report with drift samples;
(3) Forms MF-104 and MR-184A.

Also enclosed are 4 extra copies of our engineer's report.

As all work is in accordance with terms of the contract, I recommend that the Government's share of the costs be paid.

Signed by Walter R. Storms

Walter R. Storms

CC W. M. Traver (8)
DMEA-3448
MF

WRStorms:frj

Memorandum April 19, 1936

To : Walter R. Stoms, Superintendent, Southwest Experiment Station, Region III

From : T. H. Romalo, Mining Engineer, Tucson, Ariz.

Subject : Progress Report for March 1936, Docket BMEA-3448, Contract Idn-2763 (Tungsten) Hillside Mining and Milling Company (Black Pearl Mine), Yavapai County, Ariz.

On April 5, 1936, I visited the Black Pearl Tungsten Mine and checked progress for the above period with K. Pumala, Mine Foreman. I found that progress under the contract was confined to the initial 40 feet of drifting and timbering on the east 125 level. The reference point for this and future measurements is a nail in the center of the timber set at the intersection of the drift and crosscut to the shaft. A drift to the west of this point was being driven at no expense to the Government. It was 25 feet long.

The operator sampled 42 feet of the advance on the 125 level at 5 feet intervals. The average width and grade of the vein as obtained from 7 channel samples and 1 grab sample were 51.5 inches and 0.813 percent WO_3. Cost of this sampling and assaying will be included in the operators report for April.

Did they [illegible] to go with [illegible]?

Ore from the 125 level and from stopes above the adit level continues to be co-mingled and stockpiled at the mine.

R. C. Bogert, General Manager, was contacted at Bagdad after I had checked progress at the mine. He reported that hauling of stockpiled ore to the Tungsten mill was started late in March and that milling of the ore started April 4. The results of the 2 days of operation indicated that some changes in the milling procedures and equipment will be necessary. He also reported that Bayles Bros.

CC W. M. Trower (Orig. & 8)
BMEA-3448
WF

THRomalo:frj

Drilling Company was released by mutual agreement from their contract for driving exploratory workings. This action is expected to result in acceleration of development and mining operations without materially slowing down progress in the exploratory headings.

In order to determine how much of the stockpiled ore is subject to payment of Government royalties, I asked Mr. Bogard to submit a detailed report of tonnage and grade of ore mined. The report will be sent to Denver after it has been checked at Tucson.

ANALYSIS OF OPERATOR'S REPORT

Form MF-104

Drifting and Crosscutting

The $1,360.00 is for the 40 feet of authorized easterly advance on the 125 level at $34.00 per foot.

Timbering

The $280.00 is for 40 feet of authorized timbering in the above heading at $7.00 per foot.

Total Costs

The monthly total of $1,640.00 is correct. The other totals, $38,963.23 and $40,603.23, do not reflect previous disallowances totalling $600.07.

Form MF-104A

There are 2 errors in the otherwise properly completed form. Costs-to-Date for New Buildings, Improvements, etc. should be $2,930.08 and the Total Costs to date should be $40,603.23 before the previous disallowances.

Narrative Report

The report and attached sample data is acceptable.

T. M. Romslo

T. M. ROMSLO
Mining Engineer
Southwest Experiment Station

April 16, 1956

Mr. W. M. Traver, Executive Officer
DMEA Field Team Region III
224 New Custom House
Denver 2, Colorado

RE: DOCKET NO.DMEA 3448 (TUNGSTON)
NO. IDME 763

Dear Mr. Traver:

The following is a summary of the mining activities at the Black Pearl Mine during the month of March, 1956, under the above DMEA contract.

The vein was cut at 94 feet from the center post of the shaft. The vein was 48 inches in width with some wolframite and heavy iron pyrite. The advance along the vein amounted to 40 feet east and 12 feet west with good values showing the entire length. As shown by the attached sheet the average width was 51.5 inches and 0.813% WO_3.

The Boyles Bros. Drilling Company is being released from their contract in order to speed up the development on this 125-ft. level and to permit us to mine the better grade ore before the termination of the government stock-piling contract. All efforts will be concentrated on this level in order to take this price advantage.

The mill conversion is now in progress and it is anticipated that the milling operation will start within the first week of April. Some milling problems will no doubt be encountered, but all efforts will be made to mill out the stockpile in the shortest time possible.

I will endeavor to furnish you with a detailed report of tonnages and grade of ore mined contained within the stockpile with my next report.

Sincerely yours,

HILLSIDE MINING & MILLING COMPANY

Robert C. Bogart

Robert C. Bogart
General Manager

RCB:bp
Enclosure

April 16, 1956

DRIFT SAMPLES 100 LEVEL.

Dist.		Width Inches	% WO_3
7	Intersection	Grab Sample 48"	.70
12		50"	0.03
17		53"	0.68
22		55"	1.86
27		54"	1.40
32		52"	0.01
37		50"	1.01
42		50"	.70
		51.5"	0.813

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 March 1956 Docket No. DMEA Contract No. IDE 763
Operator's Name Hillside Mining & Milling Co. Minerals Tungsten
Address Bagdad, Arizona
Contract Amount, $ 127,255.00 Government Participation: 75 % Amount, $ 95,463.75

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~~ Shaft Sinking		19,500.00	19,500.00			
Bulldozing		268.75	268.75			
~~Crosscutting~~ Sampling & Assaying		260.00	260.00			
Drifting & Crosscutting	1,360.00	10,744.00	12,104.00			
timbering	280.00	1,921.50	2,201.50			
(2) Labor and Supervision:						
Labor		719.63	719.63			
Supervision						
Technical Services		300.00	300.00			
(3) Operating Mat'ls. and Supplies:						
Timber		19.84	19.84			
Explosives		19.81	19.81			
Pipe		20/00	20.00			
Track		50.00	50.00			
Drill steel & bits		20.00	20.00			
Small tools		58.19	58.19			
(4) Operating Equipment:						
Rental						
Purchase		380.00	380.00			
Depreciation		200.00	200.00			
(5) Initial Rehabilitation and Repairs		2,030.08	2,030.08			
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Trucking		15.83	15.83			
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes		86.21	86.21			
Liability Insurance						
Acct. & Supplies		175.00	175.00			
Pickup mileage		174.39	174.39			
(8) Contingencies (specify):						
Station & skip pocket		2,000.00	2,000.00			
TOTALS	1,640.00	38,963.23	40,603.23	1,640.00	38,963.23	40,603.23
				1-	689.07	689.07
					38,274.16	39,914.16
					$ 1230.00	

I certify that the above bill is correct and just and that payment therefor has not been received.
Date Apr. 14, 1956 *Payee Hillside Mining & Milling Co.
Per R. C. Bogart Title R. C. Bogart, Gen. Mgr.

*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:

Signature
(Authorized Certifying Officer)
Date 4/30/56 Vou. No. 2220-56-103
(See other side)

MAY 3 - 1956

1 - Previous Deductions

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. Idm-E 763 in accordance with the terms of the contract.

Signature D M Romslo WRH Title Mining Engineer Date 4/18/56

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature W M Haney Title Executive Officer Date APR 26 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.

GPO 872893

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 xx Mar. 1956 Docket No. DMEA _____ Contract No. DMA E 763

Operator's Name Hillside Mining & Milling Company Minerals Tungsten

Address Bagdad, Arizona

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	ft.	1,360.00	40'	12,104.00	356.0	34.00	1,705	34.00
xxxxxxx Timbering	"	280.00	40'	2,201.50	314.5	7.00	1,600	7.00
Crosscutting	"						125	35.00
Raising	"			19,500.00	150.0	130.00	275	130.00
Shafts	"						120	20.00
xxx Spiling								
Winzes								
xxxxxxxx Stations	each			2,000.00	1	2,000.00	2	2,000.00
Drilling: Core								
Sampling & Assaying	"			260.00	52	5.00	320	5.00
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Total Distributed Costs		1,640.00		36,065.50				Total Costs Authorized by Contract
Bulldozing				268.75				480.00
Operating Equipment Purchased				380.00				4,750.00
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.				2,030.00				2,300.00
				1,858.90				2,460.00
Total Costs		1,640.00		38,963.15				127,285.00

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 Apr. 14, 1956 Operator Hillside Mining & Milling Co.

Per R. C. Bogart Title General Manager

R. C. Bogart

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

Remarks:

(Instructions on reverse)

(For Government use only)

D M Pomeroy

RECEIVED
MAY 3 - 1956

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

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APR 13 1956
FINAL DISTRIBUTION
MAIL APR 11 1956

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

224 New Customhouse
Denver 2, Colorado

April 10, 1956

Memorandum

To: T. A. Christensen

WSM

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 3448 (Tungsten) Contract Idm-E763, Hillside Mining and Milling Company (Black Pearl Tungsten Mine) Yavapai County, Arizona - Operator's Monthly Progress Report, for the period January, 1956

Enclosed are the original and four copies of Form MF-104 and Form MF-104A, Narrative Report, and Engineer's Report for the above period.

Work has been completed as authorized by the contract. Documentation has been waived, therefore we recommend that payment be made for 75 percent of the amount as reported by the Operator on Form MF-104 subject to verification of arithmetical accuracy within Form MF-104, and contingent on findings of subsequent on-site audit of the Operator's accounts.

The Government's portion of the claimed costs is to be paid directly to Hillside Mining and Milling Company as Contract Idm-E763 has been officially transferred to this corporation.

Remarks

Date of Report----------March 14, 1956
Date Received in Field Office---------- March 15, 1956
Date Received in Region Office---------- March 22, 1956

W. M. TRAVER

W. M. Traver

Mf-104's
Feb. 1956

Enclosures
RDB:jy
cc: MF-104 File E763
Sec. Op. Comm. (2)
W. R. Storms
Chron.

MAR 22 1956

BUREAU OF MINES
Denver, Colorado

March 20, 1956

Memorandum

To : W. M. Traver, Executive Officer, DMEA Field Team Region III

From : Superintendent, Southwest Experiment Station

Subject : February 1956 Progress Report, DMEA Contract Idm-E763, Docket DMEA-3448, Millaide Mining & Milling Co.'s Black Pearl Tungsten Mine, Yavapai County, Ariz.

Enclosed in quintuplicate are the following:

(1) Bureau of Mines engineer's report;

(2) Operator's narrative report with map;

(3) Forms MF-104 and MF-104A.

Also enclosed are 4 extra copies of our engineer's report.

As all work is in accordance with terms of the contract, I recommend that the Government's share of the costs be paid.

Walter R. Storms

Walter R. Storms

CC W. M. Traver (8)
DMEA-3448
DF

WRSTorms:frj

RECEIVED

APR 2 0 1956

March 20, 1956

Memorandum

To : Walter R. Storms, Superintendent, Southwest Experiment Station, Region III

From : T. M. Monsalo, Mining Engineer, Tucson, Ariz.

Subject : Progress Report for February 1956, Docket DMEA-3448, Contract Idm-E763, Hillside Mining and Milling Company, Black Pearl Tungsten Mine, Yavapai County, Ariz.

On March 15, 1956 I visited the Black Pearl Tungsten mine and inspected pertinent underground workings with R. C. Mogart, General Manager and K. Pumala, Mine Foreman. I found that the shaft station, ore bin and skip pocket at the 125 level had been completed, a crosscut had been driven from the station to the vein, and an east drift on the vein was at 30 feet from the crosscut. According to Mr. Mogart, the crosscut was at 45 feet from the station at the end of February.

The completed station and skip pocket is larger than the 9 by 9 by 20-foot size specified by the contract. Its construction closely follows the drawing attached to the Operator's Narrative Report. The crosscut, 94 feet long, was driven from the east side of the station and a 30-foot drift was driven from the west side. This arrangement allows a string of about 10 gable-bottom cars to be dumped into a 25-ton ore bin as the train enters or leaves the station.

The 30 feet of vein exposed on the 125 level averages about 4.5 feet in width. It contains good to excellent showings of wolframite as crystals weighing up to 2 or 3 pounds each. Assays of samples taken across the vein at 5-foot intervals had not been completed.

Ore continues to be mined from a modified top-slice stope above the adit level. It is being stockpiled at the mine. Concentration of the ore at the Tungstona mill probably will commence late in March. At present, new jigs are being installed in the mill and the haulage road is being surfaced with gravel.

CC W. M. Traver (Orig. & 3)
DMEA-3448
DF

WRStorms:frj

ANALYSIS OF OPERATOR'S REPORT

RECEIVED
APR 2 8 1955

Form MF-104

Drifting and Crosscutting

The $1,530.00 is for the authorized 45 feet of crosscut on the 125 level at $34.00 per foot. It is considered as the allowable part of cost of the 94-foot crosscut.

Station and Skip Pocket

The $2,000.00 is for the authorized shaft station and skip pocket on the 125 level. The size of the station exceeds the contract's minimum specifications of 9 by 9 by 20 feet.

Total Costs

The monthly total of $3,530.00 is correct. The other totals; $35,433.23 and $38,963.23, do not reflect previous disallowances totalling $689.07.

Form MF-104A

The properly completed form shows previously reported and to date costs before the previous disallowances.

Narrative Report

The Narrative Report is considered satisfactory. Attached to the report is a drawing of the completed station and ore pocket.

Corrections on Form MF-104 were made by the operator.

T. M. Romslo
Mining Engineer
Southwest Experiment Station

March 12, 1956

Mr. W. M. Traver, Executive Officer
DMEA Field Team Region III
224 New Custom House
Denver 2, Colorado

Re: Docket No. DMEA 3448 (Tungsten Contract)
No. IDME 763

Dear Mr. Traver:

The following is a summary of the mining activities at the Black Pearl Mine during the month of February, 1956, under the above DMEA contract.

The shaft station and pocket were completed during the month on the 125 ft. level.

Drifting 45 ft. in the cross was completed. All of this drift was in firm ground requiring no support. No water of any consequence was encountered in developing this drift. It is estimated the vein will be cut at approximately the 80 ft. mark in the drift.

Other activities are as follows:

A generator plant with a capacity of 75 KVA is being purchased to facilitate the mining operation. A charging panel and battery locomotive will then be placed on the 125 ft. level.

A limited amount of stoping is being carried on in the adit level with good values showing at the stope on the DMEA portion of this level.

Stockpiling of the mined ore is still being continued, awaiting delivery of the jigs. The new delivery date is March 8, 1956. It is hoped that the milling operation will start the first of April, at which time the new road from the Black Pearl Mine to the Tungstona Mill will be completed.

Sincerely yours,

HILLSIDE MINING & MILLING COMPANY

Robert C. Bogart

Robert C. Bogart
General Manager

RCB:bp

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
APR 13 1956

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of Feb. 195 6 Docket No. DMEA Contract No. [illegible] 769
Operator's Name Hillside Mining & Milling Company Minerals
Address Kingman, Arizona
Contract Amount, $ 47,235.00 Government Participation: 75 % Amount, $ 35,463.75

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 Contracts: Short Form						
~~Drilling~~ Shaft Sinking		19,500.00	19,500.00			
Bulldozing		268.75	268.75			
~~Crosscutting~~ Hoisting		260.00	260.00			
Drifting & crosscutting	1,530.00	9,214.00	10,744.00			
timbering		1,921.50	1,921.50			
(2) Labor and Supervision:						
Labor		710.63	710.63			
Supervision						
Technical Services		300.00	300.00			
(3) Operating Mat'ls. and Supplies: ~~Timber~~ fuel & lube		19.84	19.84			
Explosives		19.01	19.01			
Pipe		20.00	20.00			
Track		50.00	50.00			
Drill Steel & Bits.		23.00	23.00			
Small Tools		50.19	50.19			
(4) Operating Equipment:						
Rental						
Purchase		300.00	300.00			
Depreciation		100.00	100.00			
(5) Initial Rehabilitation and Repairs		2,000.00	2,000.00			
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous: trucking						
~~Repairs to Equipment~~		15.00	15.00			
Sampling and Analysis						
Payroll Taxes		66.21	66.21			
Liability Insurance						
Acct. & Supplies		175.00	175.00			
Pickup Mileage		174.39	174.39			
(8) Contingencies (specify): Station & Skip Pocket	2,000.00		2,000.00			
TOTALS	3,500.00	35,433.23	38,963.23	3,530.00	35,433.23	38,963.23
				4-	689.07	689.07
					34,744.16	38,274.16
					$2647.50	

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

Date Mar. 14, 1956 *Payee Hillside Mining & Milling Company
By R. C. Bogart
Per R. C. Bogart Title Gen. Mgr.

*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:

Signature [illegible]
(Authorized Certifying Officer)

Date 4/10/56 Voucher 56-92
(See other side)

4 - Previous Deductions

(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-E763 in accordance with the terms of the contract.

Signature [illegible] WRH Title Mining Engineer Date Mar. 20, 1956

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE: Berk.

Signature [illegible] Title Executive Officer Date APR 10 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

RECEIVED
APR 13 1956

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of Feb. 195 6 Docket No. DMEA _____ Contract No. 101 R 762

Operator's Name Hillside Mining & Milling Company Minerals _____

Address Bagdad, Arizona

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	ft.	1,5[illegible]	45	10,744.00	316.0	34.00	1,705	34.00
~~Crosscutting~~ timbering	ft.			1,921.50	274.5	7.00	1,600	7.00
Raising	ft.						125	35.00
Shafts	ft.			19,500.00	150.0	130.00	275	130.00
~~Winze~~ spiling	ft.						120	20.00
~~Pump~~ core station	each	2,000.00	1	2,000.00	1	2,000.00	2	2,000.00
Sampling Churn & Assaying	?			260.00	52	5.00	32[illegible]	5.00
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								

	COSTS THIS MONTH	COSTS TO DATE	TOTAL COSTS AUTHORIZED BY CONTRACT
TOTAL DISTRIBUTED COSTS	2,500.00	34,425.50	
Bulldozing		268.75	40.00
Operating Equipment Purchased		330.00	4,75[illegible]
Initial Rehabilitation and Repairs			
New Buildings, Improvements, etc.		2,[illegible]	2,000.00
other preparatory work		1,050.90	2,46[illegible]
TOTAL COSTS	2,500.00	38,063.25	127,205.00

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 Mar. 14, 1956 Operator Hillside Mining & Milling Co.

Per R. C. Bogart Title General Manager

R. C. Bogart

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

REMARKS:

(Instructions on reverse)

(For Government use only)

N. V. Pounds

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

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

RECEIVED
MAR - 8 1956

FINAL DISTRIBUTION
MAR 5 1956
MADE

224 New Customhouse
Denver 2, Colorado

February 24, 1956

WSM

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 3448 (Tungsten) Contract Idm-E763, Hillside Mining and Milling Company, Black Pearl Mine, Yavapai County, Arizona - Operator's Monthly Progress Report, for the period January 1956

Enclosed are the original and four copies each of Forms MF-104 and MF-104A, Narrative Report, and Engineer's Report for the above period.

It is deemed that the Operator has complied with the intent of the contract, and the work for which payment is recommended is acceptable to the Government. Documentation has been waived, therefore we recommend that payment be made for 75 percent of the amount as reported by the Operator on Form MF-104 subject to verification of arithmetical accuracy within Form MF-104, and contingent on findings of subsequent on-site audit of the Operator's accounts.

Amount Reported by Operator on Form MF-104 $376.00

Recommended Payment to Operator at 75 Percent $282.00

Remarks

Date of Report----------February 14, 1956
Date Received in Field Office----------February 21, 1956
Date Received in Region Office---------- February 23, 1956

W. M. TRAVER

W. M. Traver

MF 104 Jan. 1956

Enclosures
JDC:jy
cc: MF-104 File E763
Sec. Op. Comm. (2)
Storms
Chron.

DMEA
Date Rec'd.

FEB 23 1956

BUREAU OF MINES
Denver, Colorado

February 21, 1956

Memorandum

To : W. M. Traver, Executive Officer, DMEA Field Team, Region III

From : Superintendent, Southwest Experiment Station

Subject : January 1956 Progress Report, DMEA Contract Idm-E763, Docket DMEA-3448, Hillside Mining & Milling Co.'s Black Pearl Tungsten Mine, Yavapai County, Ariz.

Enclosed in quintuplicate are the following:

(1) Bureau of Mines engineer's report;

(2) Operator's narrative report;

(3) Forms MF-104 and MF-104A.

Also enclosed are 4 extra copies of our engineer's report.

The Forms MF-104 and MF-104A were received in our Tucson office on February 16, but the operator's narrative report was not received until February 21.

As all work is in accordance with terms of the contract, I recommend that the Government's share of the costs be paid.

Walter R. Storms

Walter R. Storms

CC W. M. Traver (8)
DMEA-3448
BF

WRStorms:frj

RECEIVED
MAR - 5 1956

February 21, 1956

Memorandum

To : Walter R. Stoms, Superintendent, Southwest Experiment Station.

From : T. M. Romsle, Mining Engineer, Tucson, Arizona

Subject : Progress Report for January 1956, Docket BMA-3448, Contract IBm-8763, Millsdale Mining and Milling Company, Black Pearl Tungsten Mine, Yavapai County, Arizona.

During a visit to the Black Pearl Tungsten Mine on February 2, 1956 I found that progress for January was confined to the advance and timbering of the adit and to continued construction of a station on the 150-foot level of the shaft.

Measurements taken with Robert C. Begart, General Manager, showed the adit had been advanced 9.0 feet and that 18.0 feet of timber had been installed. The faces of the adit and last timber set were each at 20 feet from timber set 60 and 271.5 and 274.5 feet from their respective starting points. The vein at the face of the adit is 8 inches wide and carries no visible tungsten values.

The shaft station was not inspected because Mr. Begard reported that it had not been completed. Also, the shaft was not readily accessible because freezing temperatures had resulted in a temporary shut down of all operations on the morning of my visit.

ANALYSIS OF OPERATOR'S REPORT

Form MF-104

Drifting and Crosscutting - The $306.00 represents the cost of the 9 feet of authorized advance at $34.00 a foot.

Timbering - The cost of $70.00 is for the 10 feet of authorized advance at $70.00 a foot.

Total Costs - The monthly total of $376.00 is correct but other costs do not reflect previous disallowances that total $680.07.

CC W. M. Traver (Orig. & 8)
BMA-3448
MF

TMRomsle:frj

Form [illegible]-1044

The properly completed form contains total costs before the above mentioned disallowances.

Narrative Report

The narrative report is acceptable. A sketch map of the adit probably was not included because of the small amount of progress.

The operator reports that a raise is being driven at timber set 68 for information that will indicate whether or not the adit should be continued. If stopping of the adit is found advisable, the operator will be expected to give his reasons for such action in a formal request.

The operator also says that mined ore is still being stockpiled. Co-mingled in the stockpile are ores from the adit, ore from a stope in non-subordinated ground, and ore from a stope in both subordinated and non-subordinated ground. Records of tonnage and grade of ore produced from each place are being maintained for royalty purposes.

T. M. Donald
Mining Engineer
Southwest Experiment Station

U. S. BUREAU OF MINES
NORTHWEST EXPERIMENT STATION
FEB 21 1951
TUCSON, ARIZONA

[illegible]

[illegible] (Tungsten Contract)

[illegible]

[illegible] is a summary of the [illegible] of the Black Pearl Mine [illegible] the month of February, 1951, under the above [illegible] contract.

[illegible] was made in the shaft this month as it was completed in December. [illegible] was opened to develop the shaft pocket and station. Drifting [illegible] the vein should start about the middle of February, and we [illegible] both before the end of the month.

[illegible] was advanced [illegible] with 10 feet of timber. This drift has been [illegible] Unfortunately as the vein was approached at 8 inches with no tungsten showing [illegible] was stopped [illegible] to explore the immediate area. If this [illegible] from the main chamber [illegible] the drift would be advisable. If [illegible] would be any further development in this area.

[illegible] Area as follows:

[illegible] of the third ore is still being [illegible] as the new jigs for the [illegible] have not been shipped [illegible]. Therefore, it is necessary to postpone [illegible] of the Black Pearl [illegible] until these alterations are complete.

[illegible] has continued [illegible] at 1% WO3. A composite ore sample is being taken every 10-day period and a record is being kept of the number of [illegible] of 1% ore has been mined from this stope. This is to insure a [illegible] for equally proposed [illegible] in future [illegible].

Sincerely yours,

ARIZONA MINING & REFINING COMPANY

Robert C. Bogart

Robert C. Bogart
General Manager

[illegible]

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.5

RECEIVED
MAR - 8 1956

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of January, 1956 Docket No. DMEA 3448 Contract No. IDM-E-763
Operator's Name Hillside Mining & Milling Company Minerals Tungsten
Address Bagdad, Arizona
Contract Amount, $ 127,285.00 Government Participation: 75.00% Amount, $ 95,463.75

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~~ Shaft Sinking		19,500.00	19,500.00			
Bulldozing		268.75	268.75			
~~Crosscutting~~ sampling & assaying		260.00	260.00			
Drifting & Crosscutting	306.00	8,908.00	9,214.00			
Timbering	70.00	1,851.50	1,921.50			
(2) Labor and Supervision:						
Labor		719.63	719.63			
Supervision						
Technical Services		300.00	300.00			
(3) Operating Mat'ls. and Supplies:						
~~Timber~~ fuel & lube		19.84	19.84			
Explosives		19.81	19.81			
Pipe		20.00	20.00			
Track		50.00	50.00			
drill steel & bits		20.00	20.00			
small tools		58.19	58.19			
(4) Operating Equipment:						
Rental						
Purchase		380.00	380.00			
Depreciation		200.00	200.00			
(5) Initial Rehabilitation and Repairs		2,030.08	2,030.08			
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous: trucking		15.83	15.83			
~~Repairs to Equipment~~						
Sampling and Analysis						
Payroll Taxes		86.21	86.21			
Liability Insurance						
Acct. & Supplies		175.00	175.00			
Pickup mileage		174.39	174.39			
(8) Contingencies (specify):						
TOTALS	376.00	35,057.23	35,433.23	376.00	35,057.23	35,433.23
					687.07	687.07
					34,368.16	34,744.16
					$282.00	

I certify that the above bill is correct and just and that payment therefor has not been received.
Date Feb. 14, 1956 *Payee Hillside Mining & Milling Company
Per R. C. Bogert Title Gen. Mgr.
R. C. Bogert

*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.

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(Instructions on reverse)

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

Signature
(Authorized Certifying Officer)

Date 3/2/56 Vou. No. DMA 56-77

(See other side)

Previous Deductions

(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. I4m-E763 in accordance with the terms of the contract.

Signature T M Parnell WRM Title Mining Engineer Date Feb 21, 1956

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature W M Jones Title Executive Officer Date FEB 24 1956

MONTHLY REPORT OF OPERATOR

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(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.

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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.

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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
MAR - 8 1956

OPERATOR'S UNIT COST AND PROGRESS REPORT

IDM E 763

Month of January, 6
District No. DMEA 3448
Contract Tungsten
Operator's Name Hillside Mining & Milling Company
Minerals
Address Bagdad, Arizona

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
& Crosscutting	ft.	306.00	9	9,214.00	271.0	34.00	1,705	34.00
Drifting xxxxxxxx timbering	ft.	70.00	10	1,921.50	274.5	7.00	1,600	7.00
Crosscutting	ft.						125	35.00
Raising	ft.			19,500.00	150.0	130.00	275	130.00
Shafts xxxxx spiling	ft.						120	20.00
Winzes xxxxxxxxxx stations	each						2	2000.00
Drilling: Core sampling & assaying				260.00	52	5.00	320	5.00
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		376.00		30,895.50				TOTAL COSTS AUTHORIZED BY
Bulldozing				268.75				480.00
				380.00				4,750.00
Operating Equipment Purchased								
Initial Rehabilitation and Repairs				2,030.00				2,300.00
New Buildings, Improvements, etc. Other preparatory work				1,858.90				2,460.00
TOTAL COSTS		376.00		35,433.15				127,285.00

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 Feb. 14, 1956 Operator Hillside Mining & Milling Co.

Per R. C. Bogart Title Gen. Mgr.

R. C. Bogart

REMARKS:

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

(Instructions on reverse)

(For Government use only)

D. M. Rosado

INSTRUCTIONS

orm MF-104A—Operator's Unit Cost and Progress Report.—Applicable 104A should be filled in by the Operator. The purpose of this form is follows: (1) to furnish the supervising engineers and other administrators with cal information necessary to better determine the progress of the project; and (2) to nish 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

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

402

224 New Customhouse
Denver 2, Colorado

February 21, 1956

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-3448 (Tungsten) Contract Idm-E763, Hillside Mining and Milling Company, Black Pearl Mine, Yavapai County, Arizona - Progress for the period January, 1956

Enclosed are two copies of a letter from the subject Operator dated February 14, 1956 covering mining activities for the month of January, 1956. No work was performed under Contract Idm-E763 during the period, and therefore no Monthly Report and Voucher was submitted.

W. M. Traver

W. M. Traver

Enclosures

DMEA
Date Rec'd.

FEB 17 1956

BUREAU OF MINES
Denver, Colorado

February 14, 1956

RECEIVED

Mr. W. M. Traver, Executive Officer
DMEA Field Team Region III
224 New Custom House
Denver 2, Colorado

RE: Docket No. DMEA 3448 (Tungsten Contract)
No. IDME 763

Dear Mr. Traver:

The following is a summary of the mining activities of the Black Pearl Mine during the month of January, 1956, under the above DMEA contract.

No advance was made in the shaft this month as it was completed in December. The entire month was spent in cutting the shaft pocket and station. Drifting in the crosscut to the vein should start about the middle of February, and we should reach the vein before the end of the month.

The main adit was advanced 9 feet with 10 feet of timber. This drift has been stopped temporarily as the vein has narrowed to [illegible] inches with no tungsten showing. A raise was started at Set 65 to explore the immediate area. If this raise proves fruitful then further work in the drift would be advisable. If not, I would recommend a halt to any further development in this area.

Other activities are as follows:

Stockpiling of the mined ore is still being continued as the new jigs for the mill have not been shipped to date. Therefore, it is necessary to postpone any milling of the Black Pearl ore until these alterations are complete.

Stoping has continued from the raise at Set 16 & 17. A composite ore sample is being taken every 15-day period and a record is being kept of the number of cars and pounds of hand sort recovered from this stope. This is to insure a record for royalty purposes at a later date.

Sincerely yours,

[illegible]

Robert C. Bogart
Robert C. Bogart
General Manager

RCB:bp

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

RECEIVED
FEB - 9 1956

400

224 New Customhouse
Denver 2, Colorado

FINAL DISTRIBUTION
MADE FEB 7 1956

January 24, 1956

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 3448 (Tungsten) Contract Idm-E763, Hillside Mining and Milling Company, Black Pearl Tungsten Mine, Yavapai County, Arizona - Operator's Monthly Progress Report, for the period December, 1955

Enclosed are the original and four copies each of Forms MF-104 and MF-104A, Narrative Report, and Engineer's Report for the above period.

It is deemed that the Operator has complied with the intent of the contract, and the work for which payment is recommended is acceptable to the Government. Documentation has been waived, therefore we recommend that payment be made for 75 percent of the amount as reported by the Operator on Form MF-104 subject to verification of arithmetical accuracy within Form MF-104, and contingent on findings of subsequent on-site audit of the Operator's accounts.

Amount claimed on Form MF-104- - - - - $11,370.00

Recommended payment at 75 percent- - - -$8,527.50

Remarks

Date of Report- - - - - - - - - - - - - - - January 17, 1956
Date Received in Field Office- - - - - - - January 19, 1956
Date Received in Region Office- - - - - - January 23, 1956

JDC:jy
cc: MF-104 File E763
Sec. Op. Comm. (2)
Storms
Chron.
Enclosures

W. M. TRAVER

W. M. Traver

MF-104 Dec '55

DMEA
Date Rec'd.
JAN 23 1956
BUREAU OF MINES
Denver, Colorado
RECEIVED

Box 4097
Tucson 5, Arizona

January 19, 1956

Memorandum

To : W. M. Traver, Executive Officer, DMEA Field Team, Region III

From : Superintendent, Southwest Experiment Station

Subject : December 1955 Progress Report, DMEA Contract Idm-E763, Docket DMEA-3448, Hillside Mining & Milling Co.'s Black Pearl Tungsten Mine, Yavapai County, Ariz.

Enclosed in quintuplicate are the following:

(1) Bureau of Mines engineer's report;

(2) Operator's narrative report with map;

(3) Forms MF-104 and MF-104A.

Also enclosed are 4 extra copies of our engineer's report.

As all work is in accordance with terms of the contract, I recommend that the Government's share of the costs be paid.

Walter R. Storms

Walter R. Storms

CC W. M. Traver (8)
DMEA-3448
DF

WRStorms:frj

RECEIVED
FEB - 9 1956

Box 4097
Tucson 5, Arizona

January 19, 1956

Memorandum

To : W. R. Storms, Superintendent, Southwest Experiment Station

From : T. M. Romslo, Mining Engineer, Tucson, Arizona

Subject : Progress Report for December 1955, Docket-3448, Contract Idm-E763, Hillside Mining and Milling Company, Black Pearl Tungsten Mine, Yavapai County, Ariz.

On January 5, 1956, I visited the Black Pearl Tungsten mine and found that progress under the contract for December was confined to drifting, timbering and sampling in the adit, and to sinking the shaft. Measurements of advances were made in the presence of R. C. Dogart and K. Pumala, general manager and mine foreman, respectively.

Advance in the adit for December was 48.0 feet of drifting and 54.0 feet of timbering. Reference measurements for future progress are: face of adit and its last timber set are respectively 202.0 and 264.5 feet from their starting points, or 111.0 and 110.0 feet from a nail in the center of set No. 49.

The shaft had been deepened from 78.5 feet to 155.0 feet for an advance of 76.5 feet. Timber had been installed to 111.5 feet from the collar of the shaft and a station was being excavated on the 125-foot level. Of the 76.5 feet of advance in the shaft, 71.5 feet is authorized as only a total depth of 150 feet is allowable under the first stage of the contract.

The vein at the face of the adit is about 10 inches wide. No wolframite was observed. Sampling by the operator at timber sets 62 to 71 indicates the vein averages 17.4 inches wide and contains an average of 0.229 percent WO_3.

Ore from the adit and stopes is being stockpiled. Milling of the ore at the Tungstona property is expected to start during February 1956.

CC W. M. Traver (Orig. & 8)
DMEA-3448
DF

TMRomslo:frj

RECEIVED
FEB - 3 1958

ANALYSIS OF OPERATOR'S REPORT

Form MF-104

Drifting - The cost of $1,632.00 represents the 48 feet of authorized advance at $34.00 per foot.

Timbering - The cost of $378.00 is for the 54 feet of authorized timbering at $7.00 per foot.

Shafts - The $9,295.00 is for the authorized 71.5 feet of sinking at $130.00 per foot.

Sampling and Assaying - The cost of $65.00 is for authorized sampling and assaying 13 samples at $5.00 each. A report covering 9 of the samples is attached to the current Operator's report and a report on the other 4 samples was attached to the Operator's report for November.

Total costs - The monthly total is correct, but other totals do not reflect total previous disallowances of $689.07.

Form MF-104A

The form has been properly completed, but total costs do not reflect the previous disallowances.

Narrative Report

The acceptable report includes 5 copies of a Progress Map of the Main Adit Level and a map showing the 125-foot level station and ore pocket as it is being constructed. As mentioned in the narrative report, the station lay-out is more elaborate than allowed by the contract and the company is willing to absorb the additional costs.

T. M. Rumsle

T. M. Rumsle
Mining Engineer
Southwest Experiment Station

January 17, 1956

RECEIVED
FEB - 1 1956

Mr. W. M. Traver, Executive Officer
DMEA Field Team Region III
224 New Custom House
Denver 2, Colorado

RE: DOCKET NO. DMEA 3448 (TONGSTEN CONTRACT
NO. IDME 763

Dear Mr. Traver:

The following is a summary of the mining activities of the Black Pearl Mine during the month of December, 1955, under the above DMEA contract.

The shaft advance was from 78.5 ft to 155 ft., or 76.5 ft. Of this amount only 71.5 ft. has been applied for, as a total depth of 150 ft. is allowed on the DMEA contract. We wish to go to 165 ft. in order to facilitate using a pocket of 50 ton capacity. Enclosed is a drawing of the proposed pocket and station. This is somewhat more elaborate than called for under the contract but will be a great aid in speeding up the removal of the ore and contribute to an all around smoother operation. We are optimistic about the surety of an ore body and willing to absorb the additional costs.

The main adit was advanced 48 ft. with 54 ft. of timber. The average width was 17.4 in. with an average grade of 0.229% WO_3 as shown by the attached sheet.

Other activities of interest about the mine are as follows:

Stockpiling of the ore has been continued as the mill alterations are not yet completed. The expected date for starting the mill is now February, due to delayed shipment of equipment.

The raise started in November at sets 16 and 17 adjacent to the DMEA portion of the adit is now through to the surface. A modified top slice stoping system is now in progress on both sides of this raise.

Sincerely yours,

HILLSIDE MINING & MILLING COMPANY

R. C. Bogart

R. C. Bogart
General Manager

RCB:bp
Encl.

HILLSIDE MINING [illegible] COMPANY

BLACK PEARL MINE

BAGDAD, ARIZONA

January 7, 1956

DRIFT SAMPLES MAIN ADIT

DOCKET NO. DMEA 3448 TUNGSTON
CONTRACT NO. IDME 763

Set Number	Width Inches	%WO3
Set 62	15"	0.91
63	16"	0.05
64	20"	0.03
65	18"	0.02
66	18"	0.02
67	No Vein	No Assay
68	21"	0.08
69	24"	0.14
* 70	22"	0.85
71	20"	0.02
Weighted Average	17.4"	0.229

Bad assay, no Tungsten showing in face at time of sampling.

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.5

RECEIVED
FEB - 9 1956

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of Dec., 1955 Docket No. DMEA 3448 Contract No. idm E 763
Operator's Name Hillside Mining & Milling Company Minerals
Address Bagdad, Arizona
Contract Amount, $127,285.00 Government Participation: 75 % Amount, $ 95,463.75

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:						
~~Mining~~ Shaft Sinking	9,295.00	10,205.00	19,500.00			
Bulldozing		268.75	268.75			
~~Crosscutting~~ Sampling-Assaying	65.00	195.00	260/00			
Drifting & Crosscutting	1,632.00	7,276.00	8,908.00			
Timbering	378.00	1,473.50	1,851.50			
(2) Labor and Supervision:						
Labor		719.63	719.63			
Supervision						
Technical Services		300.00	300.00			
(3) Operating Mat'ls. and Supplies:						
~~Power~~ fuel & lube.		19.84	19.84			
Explosives		19.81	19.81			
Pipe		20.00	20.00			
Track		50.00	50.00			
Drillbits & steel		20.00	20.00			
small tools		58.19	58.19			
(4) Operating Equipment:						
Rental						
Purchase		380.00	380.00			
Depreciation		200.00	200.00			
(5) Initial Rehabilitation and Repairs		2,030.08	2,030.08			
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous: Trucking		15.83	15.83			
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes		86.21	86.21			
Liability Insurance						
Accounting & Supplies		175.00	175.00			
Pickup mileage		174.39	174.39			
(8) Contingencies (specify):						
TOTALS	11,370.00	23,687.23	35,057.23	11,370.00	23,687.23	35,057.23
					689.07	689.07
					22,998.16	34,368.16

I certify that the above bill is correct and just and that payment therefor has not been received.
Date Jan. 17, 1956 *Payee Hillside Mining & Milling Company
Per R. C. Bogart Title Gen. Mgr.
R. C. Bogart

*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 $ 8527.50
Signature
(Authorized Certifying Officer)
Date 1/31/56 Vou. No. DMA 56-65
(See other side)

4 Previous Deductions

(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-E763 in accordance with the terms of the contract.

Signature [illegible] WRC Title Mining Engineer Date Jan 19, 1956

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature [illegible] Title Executive Officer Date JAN 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.

GPO 872893

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

RECEIVED
3 - 9 1956

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of December, 1955 Docket No. DMEA 3448 Contract No. Idm E 763
Operator's Name Hillside Mining & Milling Company Minerals tungsten
Address Bagdad, Arizona

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	ft.	1,632.00	48.0	8,908.00	262.0	34.00	1705	34.00
~~Crosscutting~~ timbering	ft	378.00	54.0	1,851.50	264.5	7.00	1600	7.00
Raising	ft.						125	35.00
Shafts	ft	9,295.00	71.5	19,500.00	150.0	130.00	275	130/00
~~Winze~~ spiling	ft.						120	20.00
Drilling: Core stations	each						2	2,000.00
~~Churn~~ sampling & assaying		65.00	13.0	260.00	52	5.00	320	5.00
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								

					TOTAL COSTS AUTHORIZED BY CONTRACT
TOTAL DISTRIBUTED COSTS	11,370.00		30,519.50		
Bulldozing			268.75		480.00
Operating Equipment Purchased			380.00		4,750.00
Initial Rehabilitation and Repairs					
New Buildings, Improvements, etc.			2,030.08		2,300.00
Other Preparatory Work			1,858.90		2,460.00
TOTAL COSTS	11,370.00		35,057.23		127,285.00

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:

Date Jan. 17, 1956 Operator Hillside Mining & Milling Co.
k

Per R. C. Bogart Title Gen. Mgr.
R. C. Bogart

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)

-1711 Rosalo

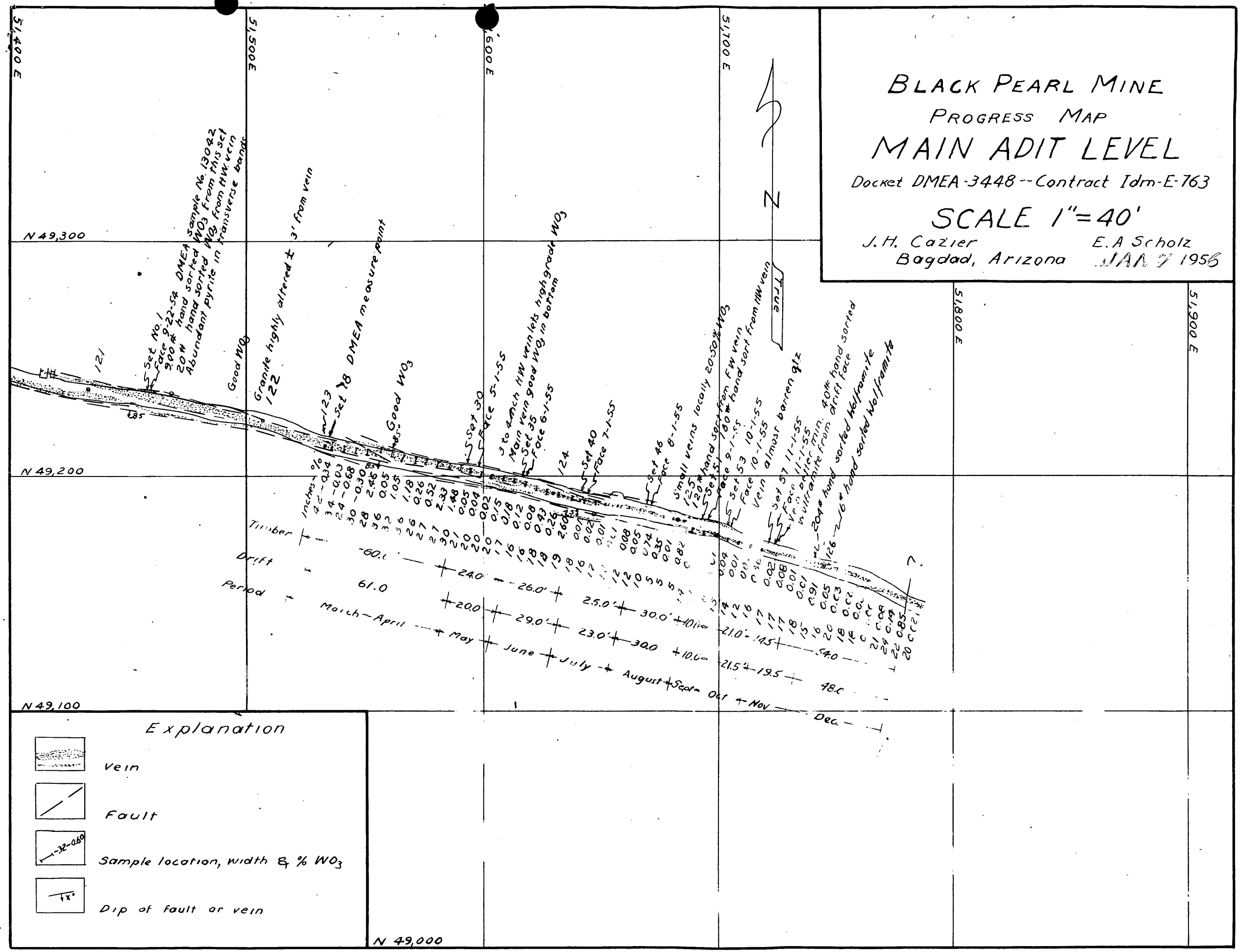
INSTRUCTIONS

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


BLACK PEARL MINE
PROGRESS MAP
MAIN ADIT LEVEL
Docket DMEA-3448--Contract Idm-E-763
SCALE 1"=40'
J.H. Cazier
E.A Scholz
Bagdad, Arizona
JAN 7 1956
51,400 E
51,500 E
51,600 E
51,700 E
51,800 E
51,900 E
N 49,300
N 49,200
N 49,100
N 49,000
N
TRUE
Set No. 1 Face 9-22-54 DMEA sample No. 13042 900# hand sorted WO3 from this set 20# hand sorted WO3 from HW vein Abundant pyrite in transverse bands
Good WO3
Granite highly altered ± 3' from vein
122
123
Set 48 DMEA measure point
Good WO3
Set 30 Face 5-1-55
3 to 4 inch HW vein lets high grade WO3
Main vein good WO3 in bottom
Set 35 Face 6-1-55
124
Set 40 Face 7-1-55
Set 46 Face 8-1-55
Small veins locally 20-50% WO3
Set 51 Face 9-1-55 180# hand sort from FW vein
Set 53 Face 10-1-55 almost barren qtz
Set 57 Face 11-1-55 Vein better min. 40# hand sorted in ultrabasite from drift face
204# hand sorted wolframite
16# hand sorted wolframite
121
Inches - % 42 - 0.34 34 - 0.03 24 - 0.68 30 - 0.30 28 2.46 36 0.05 32 1.05 1.18 26 0.26 27 0.52 27 2.33 30 1.48 21 0.05 20 0.04 20 0.02 17 0.15 16 0.18 18 0.12 18 0.08 19 0.43 16 0.26 12 2.60 12 0.01 10 0.02 5 0.01 5 0.08 5 0.05 0.74 0.35 0.01 0.82 0.04 0.01 0.02 0.08 0.01 0.01 0.91 0.05 0.03 0.02 0.14 0.85
Timber
Drift
Period
60.0
61.0
24.0
26.0'
25.0'
30.0'
10.0
21.0'
14.5
54.0
20.0
29.0'
23.0'
30.0
10.0
21.5'
19.5
48.0
March - April
May
June
July
August
Sept
Oct
Nov
Dec.
Explanation
Vein
Fault
32-0.80
Sample location, width & % WO3
Dip of fault or vein

400

FINAL DISTRIBUTION MADE JAN 25 1956

RECEIVED JAN 27 1956

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

224 New Customhouse
Denver 2, Colorado

January 12, 1956

WGM

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 3448 (Tungsten) Contract Idm-E763, Hillside Mining and Milling Company, Black Pearl Tungsten Mine, Yavapai County, Arizona - Operator's Monthly Progress Report for the period November, 1955

Enclosed are the original and four copies each of Forms MF-104 and MF-104A, Narrative Report, and Engineer's Report for the above period.

It is deemed that the Operator has complied with the intent of the contract, and the work for which payment is recommended is acceptable to the Government. Documentation has been waived, therefore we recommend that payment be made for 75 percent of the amount as reported by the Operator on Form MF-104 subject to verification of arithmetical accuracy within Form MF-104, and contingent on findings of subsequent on-site audit of the Operator's accounts.

Assignment of the contract from Black Pearl Mining Company to Hillside Mining and Milling Company has been properly executed by the assigner and the assignee, and signed by the Acting Administrator, DMEA. Distribution is delayed pending Washington Office instructions regarding insertion of the effective date. Payment is to be made to:

We have the assignment here It is dated Dec 12, 1955 [illegible] to good as of Dec 1, 55

Hillside Mining and Milling Company
Bagdad, Arizona

Remarks

Date of Report- - - - - - - - - - - - - - - - December 13, 1955
Date Received in Field Office- - - - - - - December 16, 1955
Date Received in Region Office- - - - - - December 21, 1955

JDC:jy

cc: MF-104 File E763
Sec. Op. Comm. (2)
Storms Chron.

Enclosures

W. M. TRAVER

W. M. Traver

Data Recd.
DEC 21 1955
BUREAU OF MINES
Denver, Colorado

Box 4097
Tucson 5, Arizona

December 19, 1955

RECEIVED
JAN 27 1956

Memorandum

To : W. M. Truger, Executive Officer, DMEA Field Team, Region XII

From : Superintendent, Southwest Experiment Station

Subject : November 1955 Progress Report, DMEA Contract Idm-2763, Docket DMEA-3448, Black Pearl Tungsten Mine, Yavapai County, Ariz.

Enclosed in quintuplicate are the following:

(1) Bureau of Mines engineer's report;

(2) Operator's narrative report with assays of 4 samples;

(3) Forms MF-184 and MF-1644.

Also enclosed are 4 extra copies of our engineer's report.

All work is in accordance with terms of the contract and its amendments. If the contract has been assigned to the Hillside Mining & Milling Co., I recommend that the Government's share of the costs be paid.

Walter R. Storms

Walter R. Storms

CC W. M. Truger (8)
DMEA-3448
MF

WRStorms:frj

Data Recd.

DEC 21 1955

BUREAU OF MINES
Denver, Colorado

Box 4097
Tucson 5, Ariz.

December 19, 1955

RECEIVED
JAN 27 1956

Memorandum

To : Walter H. Storms, Superintendent, Southwest Experiment Station

From : T. M. Romalo, Mining Engineer, Tucson, Ariz.

Subject : Progress Report for November 1955, Docket BMSA-3448, Contract Idm-8763, Hillside Mining and Milling Company, Black Pearl Tungsten Mine, Yavapai County, Ariz.

On December 1, 1955, I visited the Black Pearl Tungsten mine and inspected exploratory operations of subject contract with K. Pumala, mine foreman. I found that these operations were confined to advances in the adit and shaft.

Advance in the adit for November was 19.5 feet of drifting and 14.5 feet of timbering. For future measurements: the face of the adit and timber are respectively at Z14.0 and Z10.5 feet from their starting points and 63.0 and 55.0 feet from a nail in the center of the cap of set No. 49.

The shaft had been deepened from 68.5 to 78.5 feet for an advance of 10 feet during November. As no timber had been installed during November, the bottom set was still at 46.5 feet from the collar. Preparations were being made to add 2 sets of timber.

The vein at the face of the adit was about 17 inches wide. A few small crystals of wolframite were observed in the pyrite of the quartz-mica-pyrite vein.

An increase in monthly advances is expectable because installation of a mucking machine should speed up drifting, and contracting of the shaft to Boylan Bros. should expedite sinking operations.

CC W. M. Trever (Orig. & 3)
BMSA-3448
BF

TMRomalo:frj

RECEIVED
JAN 27 1956
DEC 21 1955
BUREAU OF MINES
Denver, Colorado

ANALYSIS OF OPERATOR'S REPORT

FORM MF-104

Governmental participation in the costs for November are subject to approval of transfer of the contract from the Black Pearl Mining Company to the present operator, Hillside Mining and Milling Company.

Shaft Sinking - The cost of $1,380.00 represents the 10.0 feet of authorized advance at $138.00 per foot.

Drifting and crosscutting - The cost of $663.00 is for the 19.5 feet of authorized advance in the adit at $34.00 a foot.

Timbering - The cost of $101.50 represents the 14.5 feet of authorized advance at $7.00 a foot.

Total costs - The monthly total is correct, but other totals do not reflect disallowances.

Form MF-104A

The form has been properly completed. Total costs to date do not reflect disallowances.

Narrative Report

The report is satisfactory. It includes requested information regarding other than contract operations at the mine, and data concerning proposed milling of ore subject to Government royalties. During my next visit to the property, I will discuss the question of royalties with Mr. Bagart and suggest that he submit a proposed method for arriving at payments to the Government.

Attached to the report are the assays of 4 samples from the adit.

T. M. Romslo
Mining Engineer
Southwest Experiment Station

December 12, 1955

RECEIVED
JAN 27 1956

Mr. W. M. Traver, Executive Officer,
DMEA Field Team, Region III,
224 New Custom House,
Denver 2, Colorado.

Re: Docket No. DMEA 3448 (Tungsten)
Contract No. Idm E 763

Dear Mr. Traver:

The following is a summary of the mining activities of the Black Pearl Mine during the month of November 1955, under the above DMEA contract.

The adit drift was advanced 19.5 ft. with 14.5 ft. of timber.

The average width of the vein was 17" with an average grade of 0.03 percent WO_3, as shown by the attached sheet. The last round produced some hand-sorted tungsten which is quite encouraging. The first part of the month was spent in repairing an Eimco 12-B macking machine to be employed at the face. The machine had to be partially dismantled to let it pass through the narrow and low drift leading to the face. A slusher ramp used by the Black Pearl Mining Company was removed, the drift cleaned up and rails placed to the face before drifting could be started. The advance in December should be considerably better than in November.

Boyles Bros. Drilling Company of Salt Lake City has been engaged to finish sinking the shaft and to perform the drifting on the 125 ft. level. The advance in the shaft amounted to 10 ft. bringing this to a total of 78.5 to the bottom. The time consuming element in this portion of the contract was the moving in of equipment, erecting a hoist house and setting of a gasoline powered hoist. A very good advance is expected in the shaft in December.

Other activities of interest about the mine are:

Stockpiling the ore at the mine until the alterations of the Tungstona Mill have been completed. This consists of installing larger jigs to obtain a better recovery; installation of flotation cells to remove the pyrite, and the expectations of obtaining the bismuthanite and silver as a by-product. Test work is now in progress. This conversion should be completed some time in January of 1956.

A raise to the surface has been started at sets 16 and 17, adjacent to the DMEA portion of the adit to develop this area for stoping.

An unfinished raise has been restored to operation. This being in another portion of the mine.

Also, one stope has been worked periodically.

Two shifts are now employed at the Black Pearl Mine.

I would appreciate your wishes as to a method of calculating royalties under the present conditions which are as follows:

(1) We are now stockpiling the ore on the ground under a trestle at the mine. An attempt has been made at the present time to keep the two ores separated but as we will be stockpiling for some time in the future, to keep the ores from co-mingling will be near impossible.

(2) After we start milling, we plan to use the 100 ton ore bin at the Black Pearl property. This bin will be used to load trucks hauling the ore to the Tungstona Hill, some 15 miles distant.

(3) Our mill at the Tungstona Mine is a 400 ton concentrator and, owing to the facilities, batch running of the ores would be uneconomical and inefficient.

(4) Also, at the present time we are using a mucking machine in the drift and taking the entire broken round (ore and dilution) as mill ore. I plan, in the future, to take car samples in addition to the channel cuts in the face.

Any further information you desire I will gladly furnish upon request.

Sincerely yours,

R. C. Bogart

R. C. Bogart, General Superintendent,
Hillside Mining and Milling Company.

RCB:hb

HILLSIDE MINING & MILLING COMPANY

BLACK PEARL MINE

Bagdad, Ariz.

December 2, 1955

Docket No. DMEA 3448
(Tungsten)
Contract No. IDM E 763

Drift Samples - Main Adit

Channel Samples

Set Number	Width Inches	% WO_3
58	17"	0.02
59	17"	0.08
60	17"	0.01
61	18"	0.01
	17.25"	0.03

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
JAN 27 1956

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of November, 1955 Docket No. DMEA 3448 Contract No. Idm E 763
Operator's Name Hillside Mining & Milling Company Minerals Tungsten
Address Bagdad, Arizona
Contract Amount, $127,285.00 Government Participation: 75% Amount, $ 95,463.75

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Contracts: Short Form						
Drilling Shaft sinking	1,300.00	8,905.00	10,205.00			
Bulldozing		268.75	268.75			
Crosscutting sampling & assay.		195.00	195.00			
Drifting & crosscutting	663.00	6,613.00	7,276.00			
timbering	101.50	1,372.00	1,473.50			
(2) Labor and Supervision:						
Labor		719.63	719.63			
Supervision						
Technical Services		300.00	300.00			
(3) Operating Mat'ls. and Supplies:						
~~xxxx~~ fuel & lub.		19.84	19.84			
Explosives		19.81	19.81			
Pipe		20.00	20.00			
Track		50.00	50.00			
drill bits & steel		20.00	20.00			
small tools		58.19	58.19			
(4) Operating Equipment:						
Rental						
Purchase		380.00	380.00			
Depreciation		200.00	200/00			
(5) Initial Rehabilitation and Repairs		2,030.08	2,030.08			
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous: trucking		15.83	15.83			
~~xxxxxxxxxxxxxxx~~						
Sampling and Analysis						
Payroll Taxes		86.21	86.21			
Liability Insurance						
Accounting & Supplies		175.00	175.00			
Pickup mileage		174.39	174.39			
(8) Contingencies (specify):						
TOTALS	2,064.50	21,622.73	23,687.23	2,064.50	21,622.73	23,687.23
				1	689.07	689.07
					20,933.66	22,998.16
					$ 1548.38	

I certify that the above bill is correct and just and that payment therefor has not been received.
Date Dec. 13, 1955 *Payee Hillside Mining & Milling Co.
Per R. C. Rogers Title General 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:
Signature
(Authorized Certifying Officer)
Date 1/23/56 Vou. No. 56-61
(See other side)

1 Previous Deductions

(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. IGm-E763 in accordance with the terms of the contract.

Signature D.N. Powell WRH Title Mining Engineer Date Dec. 19, 1955

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature W. M. Nancy Title Executive Officer Date JAN 12 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

RECEIVED
JAN 27 1956

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of November, 1955 Docket No. DMEA 3448 Contract No. Idm E 763
Operator's Name Hillside Mining & Milling Company Minerals Tungsten
Address Bagdad, Arizona

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	ft.	663.00	19.5	7,276.00	214.0	34.00	1,705	34.00
Crosscutting timbering	ft.	101.50	14.5	1,473.50	210.5	7.00	1,600	7.00
Raising	ft.						125	35.00
Shafts	ft.	1,300.00	10.0	10,205.00	78.5	130.00	275	130.00
Winzes spiling	ft.						120	20.00
Drilling: Core stations	each						2	2,000.00
sampling & assay	each			195.00	39	5.00	320	5.00
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								

				TOTAL COSTS AUTHORIZED BY CONTRACT
TOTAL DISTRIBUTED COSTS	2,064.50	18,954.50		
bulldozing		268.75		~~480.00~~
Operating Equipment Purchased		380.00		4,750.00
Initial Rehabilitation and Repairs				
New Buildings, Improvements, etc.		2,030.08		2,300.00
other preparatory work		1,858.90		2,460/00
TOTAL COSTS	2,064.50	23,492.23		127,235.00

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

Date Dec. 13, 1955 Operator Hillside Mining & Milling Co.

Per P. C. Bogert Title Gen. Supt.

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

REMARKS:

(Instructions on reverse)

(For Government use only)

W. W. Thomas

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

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

400

RECEIVED
DEC 21 1955

224 New Customhouse
Denver 2, Colorado

December 20, 1955

WSM

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Acting Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 3448 (Tungsten) Contract Idm-E763, Black Pearl Mining Company, Black Pearl Tungsten Mine, Yavapai County, Arizona

Enclosed are two copies of the Operator's Monthly Progress Report, Form MF-104 and MF-104A, Operator's Narrative Report, Inspecting Engineer's Narrative Report, and other supporting data pertaining to work under the subject contract for the period October, 1955.

E. N. Harshman

E. N. Harshman

Enclosures

MF-104
Oct.

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

RECEIVED
DEC 9 1955

224 New Customhouse
Denver 2, Colorado

December 8, 1955

Memorandum

To: T. A. Christensen

From: Acting Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 3448, (Tungsten) Contract Idm-E763, Black Pearl Mining Company, Black Pearl Tungsten Mine, Yavapai County, Arizona - Operator's Monthly Progress Report, for the period October, 1955

Enclosed are the original and four copies each of Forms MF-104 and MF-104A, Narrative Report, and Engineer's Report for the above period.

Work has been completed as authorized by the contract. Documentation has been waived, therefore we recommend that payment be made for 75 percent of the amount as reported by the Operator on Form MF-104 subject to verification of arithmetical accuracy within Form MF-104, and contingent on findings of subsequent on-site audit of the Operator's accounts.

Remarks

Date of Report- - - - - - - - - - - - - - November 12, 1955
Date Received in Field Office- - - - - November 15, 1955
Date Received in Region Office- - - - November 25, 1955

E. N. Harshman

E. N. Harshman

Enclosures
JDC:jy
cc: MF-104 File E763
Sec. Op. Comm. (2)
Storms
Chron.

RECEIVED
DEC 2 1955

Memorandum

November 22, 1955

To : W. M. Traver, Executive Officer, DMEA Field Team, Region III

From : Superintendent, Southwest Experiment Station

Subject : October 1955 Progress Report, DMEA Contract Am-E763, Docket DMEA-3448, Black Pearl Mining Co.'s Black Pearl Tungsten Mine, Bagdad (Eureka) Mining District, Yavapai County, Ariz.

Enclosed in quintuplicate are the following:

(1) Bureau of Mines engineer's report;
(2) Operator's narrative report with map;
(3) Forms MF-104 and MF-104A, original with invoice for blower.

Also enclosed are 4 extra copies of our engineer's report.

All work is in accordance with terms of the contract. However, there is an item of $13.40 for pickup truck mileage which I do not believe is justified. I recommend that the Government's share of the remaining costs be paid with the following exception: If the contract is assigned to the Hillside Mining & Milling Co., as has been requested, then I believe the project accounts should be audited before payment is made.

Discussed with D.T. Finch 12/26/55 He does not feel an audit is required now WRS

Walter R. Storms

Walter R. Storms

CC W. M. Traver (8)
DMEA-3448
BF

WRStorms:frj

RECEIVED
DEC 1955

Memorandum

November 22, 1955

To : W. R. Storms, Superintendent, Southwest Experiment Station, Region III

From : T. M. Romalo, Mining Engineer, Tucson, Ariz.

Subject : Progress Report for October 1955, Docket DMEA-3448, Contract DMA-2763, Black Pearl Mining Co.'s Black Pearl Tungsten Mine, Yavapai County, Ariz.

On November 9, 1955 I visited the Black Pearl Tungsten mine and inspected the operations of subject contract with R. Bogard, general superintendent for the Hillside Mining and Milling Co. Representatives of the Black Pearl Mining Company, who requested assignment of the contract to Hillside Mining and Milling Company as of November 1, were not at the mine and I was unable to contact them at their homes in Bagdad.

The inspection showed that contract work was confined to advancing and timbering the adit and to sinking and timbering the shaft. Since September 30, the adit had been advanced and timbered 21.5 and 21.0 feet, respectively, and the shaft had been deepened 18.5 feet. All of this reportedly had been done by the Black Pearl Mining Company during the month of October. Through October 31, total advance under the contract of the adit and timber was 194.5 and 198.0 feet. This places the face of the adit and its last timber set of 43.5 and 41.0 feet, respectively, from a new reference point, a nail in the center of the cap of set No. 48. Measurements from the collar of the shaft, also through October 31, total 68.5 feet of sinking and 46.5 feet of timbering.

The vein in the adit has widened to 16 inches and sampling shows the tungsten content has become significant. Possibilities of this favorable change were pointed out in last month's report.

Mr. Bogard told me that his company started operations on November 1. Since then, stoping operations have been continued and preparations have been made for renewal of contract

CC W. M. Trever (Orig. & 8)
DMEA-3448
RF

TMRomalo:frj

work. Boyles Bros. of Salt Lake City have been given a contract for deepening the shaft and are expected to start operations before the end of November. Advance in the adit will be resumed as soon as preparations have been completed for replacement of loading facilities, mechanical shovel instead of scraper.

According to Mr. Bogard, ore from stopes and adit will be stockpiled on the property until a short section of road is completed to the company's Tungstona mill near Bagdad. Treatment of the ores, to be co-mingled, will start as soon as the road is completed and additional flotation cells have been installed. The additional flotation capacity is necessary because Black Pearl ore contains a much higher pyrite content than ore from the Tungstona mine, which probably will cease operations in about 3 months. Present operations of the Tungstona are confined to surface mining and milling of ore from a small mass containing about 0.2 percent WO_3. Past operations of the Tungstona property were unprofitable, according to Bogard, because of heavy ground and run-of-mine ore that contained substantially less tungsten than the anticipated 0.2 to 0.3 percent WO_3.

Analysis of Operator's Report

Form MF-104

Shaft Sinking - The cost of $2,405.00 represents 18.5 feet of authorized advance at $130.00 a foot.

Sampling and Assaying - The cost of $20.00 for sampling and assaying 4 samples from the adit is covered by the contract. Assay results are attached to the Operator's Report.

Drifting and crosscutting - The cost of $731.00 is for the 21.5 feet of authorized advance at $34.00 a foot.

Timbering - The $147.00 represents the 21 feet of authorized timbering in the adit at $7.00 a foot.

Equipment - The cost of $180.00 is for the authorized purchase of fan with gasoline motor at a maximum cost of $300.00.

Miscellaneous - Costs are $25.00 for accounting and supplies, and $15.40 for Pickup mileage.

The contract provides $500.00 for General costs that could be interpreted as a provision for the above mentioned costs. However, I am using the Administrative Audit Difference Statement for the September report as a criterion for recommending approval of the $25.00 for accounting and supplies, and denial of the $15.40 for pickup mileage.

Previous and To-Date Totals- The totals do not reflect disallowances of $330.00 and $158.99 for August and September costs, respectively.

Form MF-104A

The manner in which the form has been completed is considered acceptable, even though the Previous and To-Date totals do not reflect the above mentioned disallowances.

Operators Narrative Report

The report with attached map is considered adequate.

Recommendation

All costs for October except the $15.40 for pickup mileage is recommended for approval. However, if the contract assignment is approved I feel that the project accounts should be audited before the operator receives full reimbursement for allowed costs incurred during October.

T. M. Romalo

T. M. Romalo
Mining Engineer
Southwest Experiment Station

RECEIVED

DEC 22 1955

November 22, 1955

3448 Idm-E763, Black Peark Mining Co.

Yavapai County, Ariz.

Acct. No.	Description	Cost	Amount
1 Blower with engine	Sears Model 500-203015, Serial No. 173217 air cooled gaoline engine David Bradley 6½ - 8½ H.P., pulley, automatic clutch and belt	New	$180.00

Investigated By T. M. ROSLO

DEC 0 7 2012

J. H. Lazzes

[illegible]	[illegible]	[illegible]
5[illegible]	1[illegible]	[illegible]
[illegible]	2[illegible]	[illegible]
56	1[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	1[illegible]	[illegible]

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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DEC 23 1955

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of October, 1955 Docket No. DMEA 3448 Contract No. Ion-3-763
Operator's Name Black Pearl Mining Company Minerals Tungsten
Address Bagdad, Arizona
Contract Amount, $ 127,285.00 Government Participation: 75 % Amount, $ 95,463.75

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~~ Short form Contracts:						
~~Drilling~~ Shaft Sinking	2,405.00	6,500.00	8,905.00			
Bulldozing Independent		268.75	268.75			
~~Crosscutting~~ Sample & Assay	20.00	175.00	195.00			
Drifting & Crosscutting	731.00	5,882.00	6,613.00			
~~Timbering~~	147.00	1,225.00	1,372.00			
(2) Labor and Supervision:						
Labor		719.63	719.63			
Supervision						
Technical Services		300.00	300.00			
(3) Operating Mat'ls. and Supplies:						
~~Timber~~ Fuel & Lub.		19.84	19.84			
Explosives		19.81	19.81			
Pipe		20.00	20.00			
Track		50.00	50.00			
Drill Steel & Bits		20.00	20.00			
Small Tools		50.19	50.19			
(4) Operating Equipment:						
Rental						
Purchase	180.00	200.00	380.00			
Depreciation		200.00	200.00			
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc. Insurance		2,030.08	2,030.08			
(7) Miscellaneous: Payroll						
Repairs to Equipment		15.83	15.83			
Sampling and Analysis						
Payroll Taxes		86.21	86.21			
Liability Insurance						
Accounting & Supplies	25.00	150.00	175.00			
Henry Allowance-720	15.40	150.99	174.39			
(8) Contingencies (specify):						
TOTALS	3,523.40	18,099.33	21,622.73	3523.40	18099.33	21622.73
				1	689.07	689.07

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

Date Nov. 12, 1955 *Payee Black Pearl Mining Company

Per [signature] Title Sec.-Treas.

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

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

(Instructions on reverse)

1 Previous disallowance

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of: 17410.26 20933.66

$ 2,642.55

Signature [signature] (Authorized Certifying Officer)

Date 12/15/55 Vou. No. DMH-JB-10

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. Fdm-E763 in accordance with the terms of the contract.

Signature J. M. Pounds WRA Title Mining Engineer Date 11/22/55

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature [illegible] Title Acting Executive Officer Date DEC 8 1955

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
DEC 28 1955

OPERATOR'S UNIT COST AND PROGRESS REPORT

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

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

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

Date [illegible] Operator [illegible]

Per [illegible] Title [illegible]

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

REMARKS:

(Instructions on reverse)

(For Government use only)

[illegible]

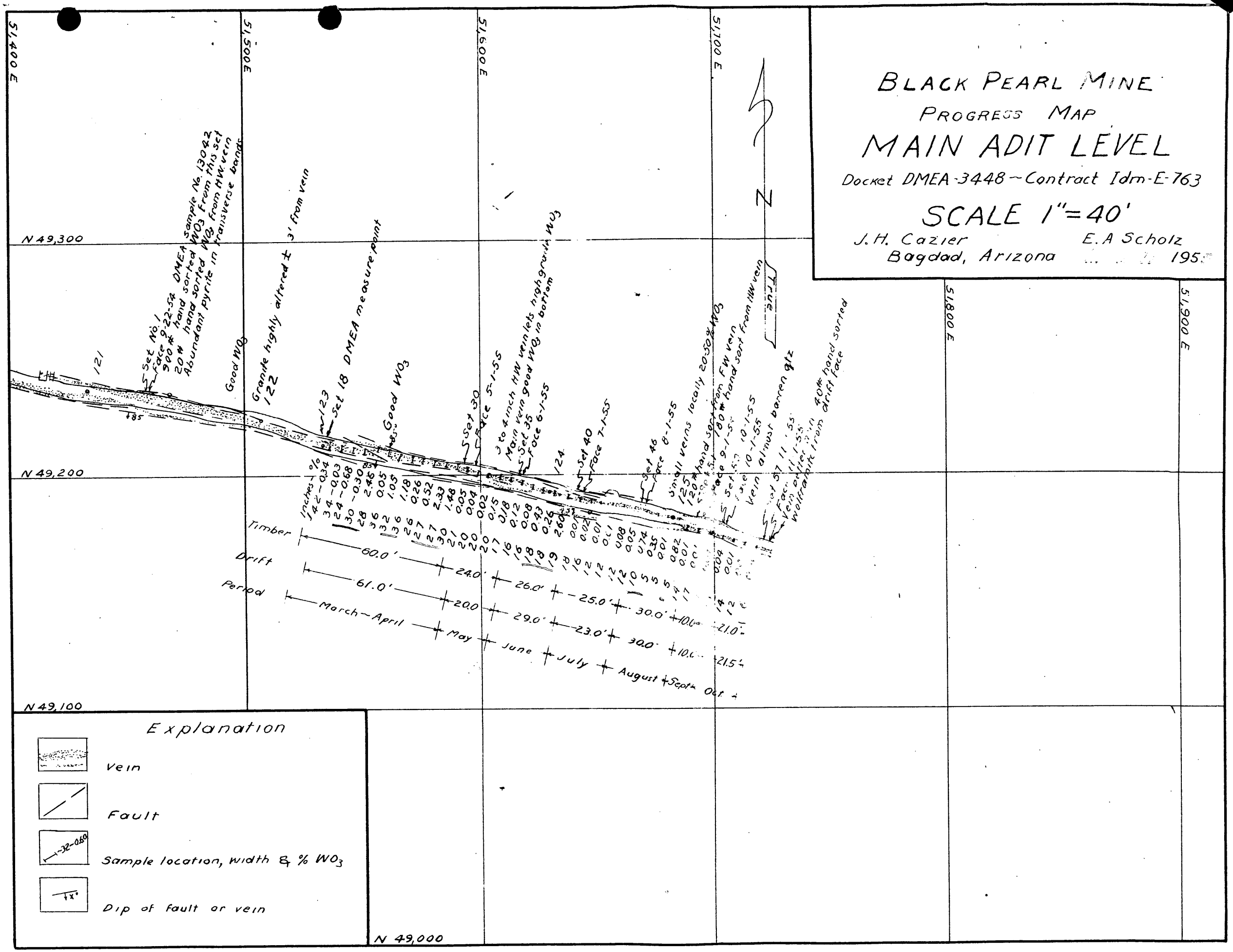
INSTRUCTIONS

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


BLACK PEARL MINE
PROGRESS MAP
MAIN ADIT LEVEL
Docket DMEA-3448 ~ Contract Idm-E-763
SCALE 1"=40'
J.H. Cazier
E.A Scholz
Bagdad, Arizona
195
51,400 E
51,500 E
51,600 E
51,700 E
51,800 E
51,900 E
N 49,300
N 49,200
N 49,100
N 49,000
True N
Set No. 1 Face 9-22-54 DMEA sample No. 13042 900# hand sorted WO3 from this set 20# hand sorted WO3 from HW vein Abundant pyrite in transverse bands
Granite highly altered ± 3' from vein
Set 18 DMEA measure point
Good WO3
Set 30 Face 5-1-55
3 to 4 inch HW vein lets high grade WO3
Main vein good WO3 in bottom
Set 35 Face 6-1-55
Set 40 Face 7-1-55
Set 46 Face 8-1-55
Small veins locally 20-50% WO3
Set 57 Face 9-1-55
Vein almost barren qtz
Set 57 Face 11-1-55
Vein better 3 to 4 in
Wolframite from drift face
40# hand sorted
Timber
Drift
Period
60.0'
24.0'
26.0'
25.0'
30.0'
61.0'
20.0
29.0'
23.0'
30.0'
March–April
May
June
July
August
Sept.
Oct.
Explanation
Vein
Fault
Sample location, width & % WO3
Dip of fault or vein

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

400

224 New Customhouse
Denver 2, Colorado

April 10, 1956

W 109

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 3448 (Tungsten) Contract Idm-E763, Hillside Mining and Milling Company (Black Pearl Tungsten Mine) Yavapai County, Arizona

Enclosed is the original of drift samples supplied by Black Pearl Mining Company to support assay claim on Monthly Report and Voucher for September, 1955. These assay reports should be attached to this report.

W. M. TRAVER

W. M. Traver

Enclosure
RDB:jy
cc: Corresp. E763
MF-104 File E763)
Sec. Op. Comm. (2)) w/copy
W. R. Storms)
Chron.

To be attached to MF 104's for Sept. 1955

[illegible]
[illegible]
[illegible]

[illegible]
[illegible]

[illegible]

[illegible]

[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	
19	12	0.71
20	32	0.33
21	21	0.53
22	20	0.10
23	0	0.16
24	26	0.43
25	27	1.05
26	26	1.20
27	25	0.85
28	17	0.52
29	17	0.10
30	23	1.18
[illegible]	21	0.45

[illegible]
[illegible]
[illegible]

[illegible]
[illegible]

[illegible]

[illegible]

[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

[illegible]
[illegible] Adams
[illegible]

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[illegible]

[illegible]

Carnell Hughes

[illegible] Depth	[illegible] Depth	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible] Average	[illegible]	[illegible]

[illegible] FIELD [illegible] OFFICE
[illegible], Arizona
August [illegible], 1963

Docket No. [illegible] (Daytona)
Contract No. [illegible]

[illegible] [illegible]

[illegible] Engineer

[illegible] Index	[illegible] Index	[illegible]
12	10	0.02
13	16	0.00
14	12	0.02
15	12	0.02
16	22	0.03
[illegible] Average	21	0.02

[illegible]
[illegible], Arizona
[illegible] 7, 1955

Contract No. [illegible] (Quarter)
Contract No. [illegible]-753

[illegible]

Ground Sample

Sec (Meter)	Gain (Meter)	S (%)
15	12	0.05
17	10	0.72
18	5	0.55
19	5	0.55
20	5	0.52
Weighted Average	7	0.55

[illegible]
[illegible]
[illegible]

[illegible]
[illegible]

[illegible]

[illegible]

[illegible] Level	[illegible] Index	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
Weighted Average	[illegible]	[illegible]

BLACK EAGLE MINING COMPANY
Kingman, Arizona
December 12, 1956

RECEIVED
APR 12 1956

Docket No. [illegible]-2148(Arizona)
Contract No. [illegible]-[illegible]-[illegible]

WEST SUPERIOR-Main Adit

Channel Samples

Set Number	Width Inches	U3O8 %
54	35	0.04
55	24	0.01
56	32	0.02
57	16	0.32
Weighted Average	24	0.09

The above assays representing sets 19 to 57 inclusive are certified to be true copies of assays received from Bagdad Copper Corporation signed by D Haines. These assays and the method of sampling were described in our first report and the assays listed above cover all main adit programs through October 1955.

J. H. Myers

October 25, 1955

Memorandum

To : Walter R. Storms, Superintendent, Southwest Experiment Station, Region III

From : T. H. Ramsle, Mining Engineer, Tucson, Arizona

Subject : Progress Report for September 1955, Docket RMEA-3448, Contract Rmn-8768, Black Pearl Mining Co.'s Black Pearl Tungsten Mine, Yavapai County, Ariz.

On October 19, 1955, I visited the Black Pearl mine and inspected pertinent surface and underground workings in the presence of E. A. Schulz, president and project supervisor for subject company. I found that contract work for September comprised completion of a headframe, sinking of the shaft, and drifting, timbering and sampling in the adit.

The headframe was completed, a hoist and ventilator was installed, and the shaft had been deepened to 58.0 feet from the surface. Of the 58.0 feet of shaft, 36.0 feet was sunk to August 31, 1955, 14.0 feet reportedly was advance for September, and the remaining 8.0 feet represents October progress. The shaft was well timbered to a depth of 41 feet. Excellent ventilation is obtained at the bottom of the shaft. A blower, driven by an isolated gas engine, forces air down the lagged manway compartment and to the surface through the hoisting compartment.

Underground measurements showed that the adit had been advanced and timbered 16.0 feet since August 31. Of the 16.0 feet, 10.0 feet reportedly was accomplished during September. To October 1, the total advance of the adit and timber was 173 and 175 feet, respectively. The vein at the face of the adit ranges in width from 10 to 18 inches. It is mainly composed of quartz. Pyrite has reappeared after being absent for the last 20 or 30 feet. Its presence indicates the vein may be entering a zone of tungsten mineralization.

Repairs to the pre-contract portion of the adit have been completed and a battery-powered locomotive has been placed in operation.

CC W. M. Traver (Orig. & 2)
RMEA-3448
RF

THRamsle:fr

Before visiting the mine, I talked with J. B. Cazier, president and secretary-treasurer of the company, at Bagdad. He informed me that the company is about to complete an option-sale of the Black Pearl mine to the Hillside Mining and Milling Company, a company owned by officers of the Bagdad Copper Corporation. He also said that assignment of subject contract to the purchaser will be requested, probably within a few days.

FORMS NF-104 AND 104A AND OPERATOR'S NARRATIVE REPORT

Form NF-104

Shaft sinking - The cost of $1,820.00 represents 14.0 feet of authorized advance at a specified rate of $130.00 per foot.

Sampling and Assaying - The cost of $15.00 is for sampling and assaying 3 samples from the adit. Assay results are attached to the Operator's Narrative Report.

Drifting and Crosscutting - The cost of $340.00 represents the 10.0 feet of authorized advance of the adit at the specified rate of $34.00 per foot.

Timbering - The $70.00 is for 10 feet of approved timbering in the adit at the contracted price of $7.00 per foot.

Labor - Documentary support of the $256.19 for labor has been waived. Consequently approval of this cost is subject to an interim audit.

Miscellaneous - The costs are $15.63 for Repairs to Trucking Equipment, $30.69 for Payroll Taxes, $150.00 for Accounting and Supplies and $158.99 for Transportation of Crew and Travel. Although documentary proof of these items has been waived pending an audit, the operator submitted a record of costs included in the last 2 items, Accounting and Supplies and Transportation of Crew and Travel. Copies of the record made at this office are being submitted with the Operator's report.

Total Costs - The Monthly, Previously Reported, and To Date total costs are $2,656.70, $15,342.63 and $18,009.33 respectively. The monthly total is correct but the other totals do not reflect the $530.08 disallowance in costs for August 1955.

Form 3M-1044

The form has been completed in an acceptable manner.

Operator's Narrative Report

The Operator's Narrative Report is considered adequate. A map of the adit will be submitted with next month's report.

T. M. Donnelly, Mining Engineer
Southwest Experiment Station
Region III

[illegible] 7, 19[illegible]

[illegible], Executive Officer
[illegible] Region III
[illegible]
[illegible] 2, Colorado

Re: [illegible] A-[illegible] ([illegible])
Contract No. [illegible]

Dear Mr. [illegible]:

The following is a brief [illegible] report [illegible] during [illegible] under the above contract.

[illegible] under the surface. [illegible] electric furnace.

[illegible] continued. [illegible]

Very truly yours,

[illegible]

[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.5

RECEIVED
NOV 18 1955

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of September, 1955 Docket No. DMEA 3448 Contract No. Idm-E-763
Operator's Name Black Pearl Mining Company Minerals Tungsten
Address Bagdad, Arizona
Contract Amount, $127,285.00 Government Participation: 75 % Amount, $95,463.75

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 Shaft sinking	81,820.00	14,680.00	96,500.00			
Bulldozing Independent		268.75	268.75			
Crosscutting Sampling & Assaying	15.00	160.00	175.00			
Drifting & Crosscutting	340.00	5,542.00	5,882.00			
Timbering	70.00	1,155.00	1,225.00			
(2) Labor and Supervision:						
Labor	256.19	463.44	719.63			
Supervision						
Technical Services		300.00	300.00			
(3) Operating Mat'ls. and Supplies:						
Timber fuel & lub.		19.84	19.84			
Explosives		19.81	19.81			
Pipe		20.00	20.00			
Track		50.00	50.00			
Drill bits & Steel		20.00	20.00			
Small tools		50.19	50.19			
(4) Operating Equipment:						
Rental						
Purchase Mining Eqpt.		200.00	200.00			
Depreciation		200.00	200.00			
(5) Initial Rehabilitation and Repairs Road Prep.		2,030.00	2,030.00			
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Equipment Repairs to Equipment	15.83		15.83			
Sampling and Analysis						
Payroll Taxes	30.69	55.52	86.21			
Liability Insurance						
Accounting Supplies etc.	150.00		150.00			
Transportation crew & travel	158.99		158.99			
(8) Contingencies (specify):						
TOTALS	2,856.70	15,242.63	18,099.33			

I certify that the above bill is correct and just and that payment therefor has not been received.
Date October 7, 1955 Payee Black Pearl Mining Company
Per [signature] Title Sec.-Treas.

*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:

$ 2023.28

Signature RRC
(Authorized Certifying Officer)

Date 11-10-55 Vou. No. DMA-JB-42
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. Tdm-E 763 in accordance with the terms of the contract.

Signature D M Romalo Title Mining Engineer Date Oct 24 1955

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature For W M Fawell Title Executive Officer Date OCT 28 1955

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.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
NOV 18 1955

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of September 1955 Docket No. DMEA 3448 Contract No. 3[illegible]-763
Operator's Name Black Pearl Mining Company Minerals Quartz
Address Bagdad, Arizona

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 for sampling	Ft.	340.00	10	5,022.00	173	34.00	1700	34.00
Crosscutting [illegible]	Ft.	70.00	10	1,225.00	175	7.00	1600	7.00
Raising	Ft.						125	35.00
Shafts								
Winzes Sinking	Ft.						120	20.00
Drilling: Core Stockpile	Each						2	2,000.00
Sampling: Churn Assay	Each	15.00	3	175.00	35	5.00	320	5.00
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Total Distributed Costs		2,245.00		13,722.00				Total Costs Authorized by Contract
Dull dozing				263.75				400.00
Operating Equipment Purchased				222.00				4,750.00
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc. Yard [illegible]				2,020.33				2,300.00
Other Preoperatory Dev.		611.70		1,816.40				2,160.00
Total Costs		2,856.70		18,022.33				127,285.00

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 October 7, 1955 Operator Black Pearl Mining Company

Per J. H. Lizzie Title Sec.-Treas.

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: Headframe completed for sinking. Permit granted for use of motor.

(For Government use only) D. M. Ramsey

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

BLACK PEARK MINING COMPANY
Bagdad, Arizona

Charges to DMEA-3448 Contract No. Idm-E-763

Stage I Preparatory Work, Actual Cost Basis

Category 6 Miscellaneous

Accounting, stamps, supplies etc. 6 months @ $25.00		$150.00
Use of bus and travel of crew Total project labor $1994.61 Total labor-6 months $15,335.55 or $2389.26 ave./month 1994.61/2389/26 equals 83.48% of one month's use bus travels 997.5 miles per month 83.48 x 997.5 mi @ 9¢		74.94
Telephone June 6		2.80
Auto Mileage - personal cars Trip to Phoenix-E.A. Scholz 7/14 250 miles Trip to Prescott " 8/18 140 " Trip to Mayer J.H.Cazier 9/19 205 " 595 " @7¢		41.65
Meals E. A. Scholz 7/14 and 8/18		4.70
J. H. Cazier 9/19		4.10
Pickups 11 round trips to Bagdad	440 miles @7¢	30.80
	Total	$308.99

COPY

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

224 New Customhouse
Denver 2, Colorado

October 13, 1955

W/ay

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-3445 (Tungsten) Contract Idm-E763, Black Pearl Mining Company, Black Pearl Mine, Yavapai County, Arizona.

Enclosed are two copies of the Operator's Monthly Progress Report, Forms MF-104 and MF-104A, Operator's Narrative Report, Inspecting Engineer's Narrative Report, and other supporting data pertaining to work under the subject contract for the month of August, 1955.

For W. M. Traver

Enclosures

MF-104 & Aug.

RECEIVED

OCT 17 1955

U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
REGION IV

Administrative Audit Difference Statement

Elect: Pearl Mining Company
Box 240
Superior, Arizona

Date: October 11, 1955
Payee's
Reference: August 1955

Gentlemen:

Upon examination of the above Payee's Reference a difference was found which made it necessary to suspend your account accordingly:

Amount Claimed $3,210.27

Difference $ 930.08

Amount Approved $2,280.19

The reason for the difference was due to:

Disallowed $530.63. This amount is in excess of the amount allowable under the terms of the contract for the erection of a bunkhouse.

Any reclaim for deductions made above must be supported by the ORIGINAL of this form.

Very sincerely yours,

N. E. Stokes
Audit Section

R-IV-B & F Form No. 4
4-15-52 D

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

224 New Customhouse
Denver 2, Colorado

September 27, 1955

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 3448, (Tungsten) Contract, Idm-E763, Black Pearl Mining Company, Black Pearl Mine, Yavapai County, Arizona - Operator's Monthly Progress Report, for the period August, 1955.

Enclosed are the original and four copies of Form MF-104 and Form MF-104A, Narrative Report, and Engineer's Report for the above period.

Work has been accomplished as authorized in the contract and payment is recommended for 75 percent of the amount as reported on Form MF-104, contingent on your verification of the correctness of applicable rates and arithmetical accuracy of computations, except for the following deductions.

Disallow 530.08 of the amount claimed under item 6 of the Form MF-104. This is in excess of the amount allowable for the erection of a headframe. The remainder which includes a reclaim for previous deduction of $25.00 (sampling and assaying) is approved subject to on-site audit by the Contract Administration and Audit Division, DMEA.

Remarks

Date of Report- - - - - - - - - - - - - - - - September 7, 1955
Date Received in Field Office- - - - - - - - - September 15, 1955
Date Received in Region Office- - - - - - - - September 19, 1955

W. M. Traver

JDC:jy
cc: MF-104 File E7
Sec. Op. Comm

Storms
Chron.

Enclosures

DMEA
Rec'd.
SEP 19 1955
BUREAU OF MINES
Denver, Colorado

Memorandum September 16, 1955

To : W. M. Traver, Executive Officer, DMEA Field Team, Region III

From : Superintendent, Southwest Experiment Station

Subject : August 1955 Progress Report, DMEA Contract Lbn-2763, Docket DMEA-3448, Black Pearl Mining Co.'s Black Pearl Tungsten Mine, Yavapai County, Ariz.

Enclosed in quintuplicate are the following:

(1) Bureau of Mines engineer's report;
(2) Operator's narrative report with map;
(3) Forms MF-104 and MF-104A, original with invoices.

Also enclosed are 4 extra copies of our engineer's report.

All work is in accordance with the terms of the contract. However, Contract Lbn-2763 calls for the expenditure of $1,500 for a headframe, while the operator to date has actually spent $2,030.08. The difference, or $530.08, should be deducted from the total cost. Rosalie also recommends that the sum of $19.17 be denied until it has been more fully explained. I recommend that the Government's share of the remainder be paid.

Walter R. Storms

Walter R. Storms

CC W. M. Traver (8)
DMEA-3448
MF

WRStorms:fr

Box 4087
Tucson 5, Arizona

September 16, 1955

Memorandum

To : Walter R. Stamm, Superintendent, Southwest Experiment Station, Region III

From : T. H. Romslo, Mining Engineer, Tucson, Arizona

Subject : Progress Report for August 1955, Docket DMEA-3448, Contract Min-2763, Black Pearl Mining Co.'s Black Pearl Tungsten Mine, Yavapai County, Ariz.

On September 1, 1955 I visited the Black Pearl mine and inspected pertinent surface and underground workings in the presence of E. A. Schalz, president of the company and project supervisor. I found that work under the contract was confined to driving, timbering and sampling the adit, and the construction of a headframe.

Measurements in the adit showed 30.0 feet of each advance and timbering for August. Driving of the adit started at 4.0 feet from the last timber set, No. 18. To September 1, the total advance and timbering was 163 feet and 165 feet, respectively.

Tungsten mineralization at the face of the adit consists of a 4-inch wide vein at the north wall and a 1-foot wide vein at the south wall. According to the operator, sampling of 2.5 of the 30 feet of adit driven during August showed that the vein averaged 7 inches in width and contained an average of 0.38 percent WO_3.

The pre-contract portion of the adit is being widened and repaired to accommodate a battery-powered tramper. Use of the tramper should speed up advance in the adit.

The headframe, set on concrete piers and constructed of 8-inch by 8-inch and 6-inch by 8-inch timbers, is nearing completion. Shaft sinking should be resumed shortly. A small gasoline powered hoist will be used until a permanent hoist can be purchased and installed.

All operations under the contract are being conducted in a safe and efficient manner.

CC W. M. Tranor (Orig. & 8)
DMEA-3448
MF

THRomslo:fr;

ANALYSIS OF OPERATOR'S REPORT

Form SF-104

Sampling and assaying - The cost of $50.00 is for sampling and assaying 10 composite samples at $5.00 each. It includes a reclaim of $25.00 disallowed on the July voucher and $25.00 for August. The total cost is documented by a list of 5 samples obtained and assayed during August and a certified statement covering cost for the 2 months. It is approved.

Drifting. The cost of $1,020.00 is approved as it represents the 30 feet of authorized advance at $34.00 per foot.

Timbering. The cost of $210.00 is for 30 feet of the authorized timbering at $7.00 per foot. It is approved.

Supervision and Technical. The authorized cost of $300.00 for personal services is supported by a certified statement. It is approved.

Fuel and Lubrication. The cost of $19.84 is for 83 gallons of gasoline for allowable equipment. It is approved because the amount of fuel used is reasonable and because the cost after a potential refund if 5 cents is documented.

Small Tools. The cost of $8.14 is approved because it is authorized by the contract and certified by the operator.

Depreciation of Equipment. The cost of $200.00 for depreciation of equipment at the specified rate is covered by a signed list that shows estimated values of identified equipment. The costs to the project of all items except $19.17 for Transit, saw, drill, water trunk and miscellaneous equipment are approved because the estimated values of equipment are acceptable, the equipment was used on the project, and period of use has been certified by the operator. The cost of $19.17 should be denied pending receipt of a certified list that describes the pertinent equipment at acceptable estimated values.

New Buildings, Improvements, etc. The cost of $1,372.29 for construction of the headframe is supported by certified payrolls and invoices. It is approved provided the operator's request for increasing overall costs from $1,500.00 to $2,100.00 is granted. To date costs total $2,030.08. If the request is denied, the approved costs for August are $1,372.29 less $530.08, or $842.21.

842.21
657.79 previously allowed
1500.00

Totals. The Monthly, Previously Reported, and To Date totals of $3,188.27, $12,062.36 and $15,250.63, respectively, are correct before the above mentioned possible deductions. Four previously reported totals were inadvertently omitted by the operator. They have been penciled in by me.

Form MF-104A

The form has been checked and found acceptable.

Narrative Report

The Operator's narrative report with attached map is considered adequate. The report was first received at Tucson September 9. It was sent to the operator for supplementary cost data and returned to Tucson September 15.

T. M. Ramsle
Mining Engineer
Southwest Experiment Station

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

224 New Customhouse
Denver 2, Colorado

Date September 16, 1955

Inventory of Equipment and other Property purchased on DMEA Docket 3448, Contract DMe-3763, Black Pearl Mining Co.'s Black Pearl Tungsten Mine, Yavapai County, Ariz.

Article	Description	New or Used	Cost
Pillow blocks	2 - 5/16" Dodge 45 degree angle 4-BS	Used	53.04

Inventoried By: T. M. Romalo

[illegible]

[illegible]
[illegible]
[illegible]
[illegible]

[illegible]
[illegible]

Dear Mr. [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]
Leyden, Arizona
September 7, 1956

Design No. [illegible] (Sampson)
Contract No. [illegible]

[illegible]

[illegible]-Coin A[illegible]

Screen Grades

Mesh Inches	Weight Inches	% Ret.
46	12	0.09
47	10	0.74
48	5	0.35
49	5	0.01
50	5	0.02
Weighted Average	7"	0.28

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

400
NOV 18 1955

224 New Customhouse
Denver 2, Colorado

November 16, 1955

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 5448 (Tungsten), Contract Idm-E765, Black Pearl Mining Company, Yavapai County, Arizona

Enclosed are two copies of the Operator's Monthly Progress Report, Form MF-104 and MF-104A, Operator's Narrative Report, Inspecting Engineer's Narrative Report, and other supporting data pertaining to work under the subject contract for the month of September 1955.

W. M. Traver

By J. W. Townsend

Enclosures

JWT:prl
cc: MF-104 E765
Steers
Chron.

MF 104's
Sept

RECEIVED
NOV 18 1955

U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
REGION IV

Administrative Audit Difference Statement

Date: Nov. 10, 1955
Payee's
Reference: Oct. 1955

Black Coral Mining Company
Box 280
Kingman, Arizona

Gentlemen:

Upon examination of the above Payee's Reference a difference was found which made it necessary to suspend your account accordingly:

Amount Claimed $ [illegible]

Difference $ 150.99

Amount Approved $ [illegible]

The reason for the difference was due to:

Transportation crew and travel under Item (7) disallowed because costs are not includes items not provided by the terms of the contract.

Any reclaim for deductions made above must be supported by the ORIGINAL of this form.

Very sincerely yours,

N. E. Stokes
Audit Section

R-IV-B & F Form No. 4
4-15-52 D

DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
NOV 18 1955

224 New Customhouse
Denver 2, Colorado

October 28, 1955

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 3448, (Tungsten), Contract Idm-E763, Black Pearl Mining Company, Black Pearl Tungsten Mine, Yavapai County, Arizona - Operator's Monthly Progress Report, for the period September, 1955.

Enclosed are the original and four copies of Form MF-104 and Form MF-104A, Narrative Report, and Engineer's Report for the above period.

Work has been completed as authorized by the contract. Documentation has been waived, therefore we recommend that payment be made for 75 percent of the amount as reported by the Operator on Form MF-104 subject to verification of arithmetical accuracy within Form MF-104, and contingent on findings of subsequent on-site audit of the Operator's accounts, except for the following deductions:

Disallow the amount of $158.99 which is claimed under item (7) "Transportation Crew and Travel", which amount includes operation of company-owned bus, personal automobiles and company-owned pick-up truck, as well as telephone expense and meals for the Operator's representatives.

REMARKS

Date of Report - - - - - - - - - -October 7, 1955
Date Received in Field Office- - -October 11, 1955
Date Received in Region Office - -October 27, 1955.

W. M. Traver

By J. W. Townsend
J. W. Townsend

Enclosures
JWC:gwl
cc: MF-104 File E763
Sec. Op. Comm. (2)
Storms
Chron.

DMEA
Date Rec'd.
OCT 27 1955
BUREAU OF MINES
Denver, Colorado

October 25, 1955

Memorandum

To : W. M. Traver, Executive Officer, DMEA Field Team, Region III

From : T. M. Romslo, Mining Engineer, Tucson, Ariz.

Subject : September 1955 Progress Report, DMEA Contract Idm-763, Docket DMEA-3448, Black Pearl Mining Co.'s Black Pearl Tungsten Mine, Yavapai County, Ariz.

Enclosed in quintuplicate are the following:

1. Bureau of Mines engineer's report;

2. Operator's narrative report;

3. Forms MF-104 and MF-104A.

Also enclosed are 4 extra copies of our engineer's report.

As cost of advances in the shaft and adit are in accordance with the contract and other costs are subject to an interim audit, I recommend that the Government's share of the total costs be paid.

Our engineer's signature of the MF-104 forms has not been initialed by other DMEA personnel as Stearns is on annual leave and Stewart is in the field.

T M Romslo

T. M. ROMSLO, Mining Engineer
for WALTER H. STEARNS
Superintendent
Southwest Experiment Station

CC W. M. Traver (8)
DMEA-3448
RF

TMRomslo:frj

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 [illegible] 1955 Docket No. DMEA [illegible] Contract No. [illegible]
Operator's Name [illegible] Minerals [illegible]
Address [illegible]
Contract Amount, $[illegible] Government Participation: [illegible] % Amount, $[illegible]

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 [illegible]		[illegible]	[illegible]			
Bulldozing [illegible]		[illegible]	[illegible]			
Crosscutting	50.00	[illegible]	[illegible]			
Drifting	1,020.00	[illegible]	[illegible]			
[illegible]	200.00	[illegible]	[illegible]			
(2) Labor and Supervision:						
Labor		[illegible]	[illegible]			
Supervision [illegible]	200.00		[illegible]			
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber [illegible]	19.01		[illegible]			
Explosives		19.81 [illegible]	[illegible]			
Pipe		20.00 [illegible]	[illegible]			
Track		50.00 [illegible]	[illegible]			
[illegible]		20.00 [illegible]	[illegible]			
[illegible]	0.14	[illegible]	[illegible]			
(4) Operating Equipment:						
Rental						
Purchase [illegible]		[illegible]	[illegible]			
Depreciation	[illegible]		[illegible]			
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.	1,372.29	[illegible]	[illegible]			
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes		[illegible]	[illegible]			
Liability Insurance						
(8) Contingencies (specify): [illegible]						
TOTALS	[illegible]	[illegible]	[illegible]			

I certify that the above bill is correct and just and that payment therefor has not been received.
Date [illegible] 1955 *Payee [illegible]
Per [illegible] Title [illegible]

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

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

(Instructions on reverse)

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

$ 1,987.64

Signature [illegible]
(Authorized Certifying Officer)

Date 10/12/55 Vou. No. DMA-56-33
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. IdM-E763 in accordance with the terms of the contract.

Signature [illegible] Title Mining Engineer Date 9/16/55

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature [illegible] Title Executive Officer Date SEP 27 1955

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
OCT 1 7 19[illegible]

OPERATOR'S UNIT COST AND PROGRESS REPORT

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

OPERATION	Unit	Costs This Month	Units This Month	Costs to Date	Units to Date	Unit Costs to Date	Authorized by Contract: Units	Authorized by Contract: Unit Costs
Drifting [illegible]	[illegible]	1,[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Crosscutting [illegible]	[illegible]	210.[illegible]	[illegible]	[illegible]	[illegible]	7.[illegible]	[illegible]	7.[illegible]
Raising	[illegible]						[illegible]	[illegible]
Shafts	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Winzes [illegible]	[illegible]						[illegible]	[illegible]
Drilling: Core [illegible]	Inch						2	8,[illegible]
[illegible] Churn [illegible]	Inch	50.[illegible]	[illegible]	[illegible]	[illegible]	5.[illegible]	[illegible]	5.[illegible]
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Total Distributed Costs		1,[illegible]		12,[illegible]				Total Costs Authorized by Contract
Drilling				[illegible]				[illegible]
Operating Equipment Purchased				[illegible]				1,[illegible]
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.		2,[illegible]		2,[illegible]				2,[illegible]
[illegible]		527.[illegible]		[illegible]				2,[illegible]
Total Costs		3,[illegible]		15,[illegible]				[illegible]

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

Date [illegible] Operator [illegible]

Per [illegible] Title [illegible]

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

Remarks: [illegible]

(Instructions on reverse)

(For Government use only)

INSTRUCTIONS

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

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

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

GPO 872894

BLACK PEARL MINE

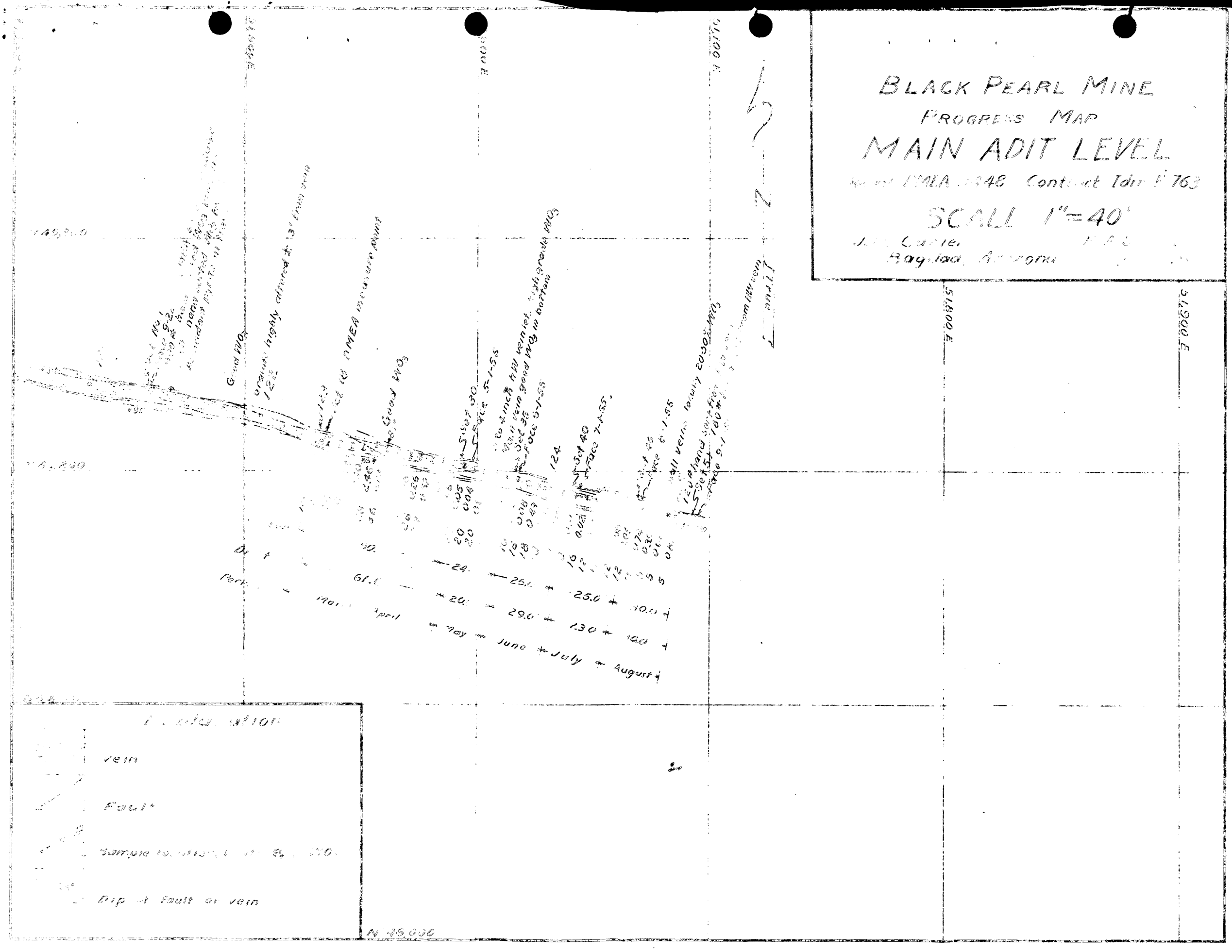
PROGRESS MAP

MAIN ADIT LEVEL

Patented PMLA 1948 Contract Idn # 763

SCALE 1" = 40'

Joe Carter
Bagdad, Arizona



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

RECEIVED
AUG 29 1955

224 New Customhouse
Denver 2, Colorado

August 26, 1955

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 3448, (Tungsten) Contract, Idm-E763, Black Pearl Mining Company, Black Pearl Mine, Eureka (Bagdad) Mining District, Yavapai County, Arizona.

Enclosed are two copies of the Operator's Monthly Progress Report, Form MF-104 and MF-104A, Operator's Narrative Report, Inspecting Engineer's Narrative Report, and other supporting data pertaining to work under the subject contract for the month of July, 1955.

W. M. Traver

Enclosures

jy

cc: MF-104 File E763
Storms
Chron.

RECEIVED
AUG 29 1955

U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
REGION IV

Administrative Audit Difference Statement

Date: _____
Payee's
Reference: _____

Upon examination of the above Payee's Reference a difference was found which made it necessary to suspend your account accordingly:

Amount Claimed $_____

Difference $_____

Amount Approved $_____

The reason for the difference was due to:

Any reclaim for deductions made above must be supported by the ORIGINAL of this form.

Very sincerely yours,

N. E. Stokes
Audit Section

R-IV-B & F Form No. 4
4-15-52 D

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

RECEIVED
AUG 29 1955

224 New Customhouse
Denver 2, Colorado

August 23, 1955

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 3448, (Tungsten) Contract, Idm-E763, Black Pearl Mining Company, Black Pearl Mine, Eureka (Bagdad) Mining District, Yavapai County, Arizona - Operator's Monthly Progress Report, for the period July, 1955.

Enclosed are the original and four copies of Form MF-104 and Form MF-104A, Narrative Report, and Engineer's Report for the above period.

Work has been accomplished as authorized in the contract and payment is recommended for 75 percent of the amount as reported on Form MF-104, contingent on your verification of the correctness of applicable rates and arithmetical accuracy of computation, except for the following deductions.

Category 1, Sampling and Assaying	25.00
(No Certified Invoice)	
Category 2, Labor	7.24
(No overtime allowable, only 3 days worked @ 14.48/day)	
Category 6, Labor and payroll taxes	35.51
(10 regular and 3 overtime days claimed; 11 regular and 1 overtime days allowed @ $14.96 per day plus 11.98 percent for payroll insurance and taxes)	
Category 7, Payroll taxes	0.87
(11.98 percent of the amount disallowed under category 2)	
Total deductions	68.62

Remarks:

Date of Report - - - - - - - - - - - - - - - August 11, 1955
Date Received in Field Office - - - - - - August 15, 1955
Date Received in Region Office - - - - - August 22, 1955

Enclosures
JDC:jy
cc: MF-104 File E763
Storms
Sec. Opr. Comm. (2)
Chron.

W. M. TRAVER,

W. M. Traver

DMEA
Date Rec'd.

AUG 22 1955

BUREAU OF MINES
Denver, Colorado

Box 4097
Tucson 5, Arizona

August 19, 1955

RECEIVED
AUG 29 1955

Memorandum

To : W. M. Traver, Executive Officer, DMEA Field Team, Region III

From : Superintendent, Southwest Experiment Station

Subject : July 1955 Progress Report, DMEA Contract Dm-8763, Docket DMEA-3448, Black Pearl Mining Co.'s Black Pearl Tungsten Mine, Eureka (Bagdad) Mining District, Yavapai County, Ariz.

Enclosed in quintuplicate are the following:

(1) Bureau of Mines engineer's report;
(2) Operator's narrative report;
(3) Forms MF-104 and MF-104A, original with certified invoices.

Also enclosed are 4 extra copies of our engineer's report.

All work is in accordance with the terms of the contract. However, some cost items seem questionable. First, no certified invoice is enclosed for the sampling and assaying item of $25.00. A certified assay invoice should be obtained. Then as Ramsle points out, several errors seem to have been made in payroll computations.

I recommend that the $25.00 for assaying be withheld until the operator furnishes a certified assay certificate. I also recommend that payroll deductions be made as Ramsle recommends. The Government's share of the remainder then may be paid to the operator.

Walter R. Storms

Walter R. Storms

CC W. M. Traver (8)
DMEA-3448
DF

WRStorms:frj

RECEIVED
AUG 29 1956

Box 4087
Tucson 5, Arizona

August 18, 1955

Memorandum

To : Walter R. Storms, Superintendent, Southwest Experiment Station, Region III

From : T. A. Romslo, Mining Engineer, Tucson, Arizona

Subject : Progress Report for July 1955, Docket DMEA-3448, Contract Ldm-8763, Black Pearl Mining Co.'s Black Pearl Tungsten Mine, Yavapai County, Ariz.

I visited the Black Pearl mine July 28, 1955 after a trip scheduled for the first part of that week was postponed because heavy rainfalls had made highways impassable. E. A. Schals and J. M. Gonier, respectively president and secretary-treasurer of the Black Pearl Mining Co., were at the mine and one or both of them accompanied me during an inspection of pertinent project operations. Upon completion of the inspections we discussed the 3 items of the contract, proposed method of accounting for royalty payments and a possible amendment, that were covered by my Progress Report for June.

The inspection of mine workings showed advances for July 1 to July 28 of 23 feet of drifting in the adit, 25 feet of timbering in the adit, and 20 feet of shaft sinking.

Adit: The face of the adit was 133.0 feet from the official starting point, 4.0 feet beyond timber set No. 18. Timbering of the adit from set 18 had been completed to a point 2.0 feet from the face, a total distance of 135.0 feet. To July 1, the adit and timber each had been advanced 110.0 feet.

The quartz vein is about 12 inches wide at the face. No tungsten minerals were observed. According to the operators, the last 20 feet of vein averaged 14 inches wide and contained an average of 0.02 percent WO_3.

Shaft: The bottom of the shaft was 35.0 feet from the collar. To July 1, the shaft had been advanced 16.0 feet. Thus advance for July 1 to July 28 was 20.0 feet. The shaft has a minimum rock section of 6 by 11 feet and is timbered in two 4- by 4-foot compartments with 3- by 8-inch plates and a 6- by 8-inch divider. Timbering had been completed to a depth of 21.5 feet.

CC W. M. Trower (Orig. & 3)
DMEA-3448
BF

TARomslo:fr]

Muck from a round, blasted shortly after the shaft was measured, probably will not be removed until the temporary headframe and hoist has been replaced by the permanent installations. Construction of the permanent headframe was in progress. Assembly of the front "A" frame was nearly completed.

Forms MF-104 and MF-104A and Operators' Narrative Report

Subject reports contain unit costs for July 1 to 28 and incurred costs for the entire month of July. Cutting off unit costs on July 28 was agreeable to the operators and was desirable from the RMMA standpoint because the expense of inspecting the project early in August was eliminated.

Form MF-104

Unit Costs

Shaft Sinking: The cost of $2,600.00 is approved. It represents the 20 feet of advance at the allowable rate of $130.00 a foot.

Crosscutting and Drifting: The $782.00 is for the 23.0 feet of advance in the adit at the specified rate of $34.00 a foot. This cost also is approved.

Sampling and Assaying: The cost of $25.00 is for assaying 5 composite samples at the specified rate of $5.00 each. An unsigned list of the 5 assays are attached to the Operators' report.

Timbering: The timbering cost of $175.00 is allowable. It represents the 25.0 feet of advance at the specified rate of $7.00 per foot. A review of my report for June, shows that I reported 26 feet of timbering, but made no reference to the approved total cost of $182.00.

Incurred costs for other than Item 6.

Labor and Supervision: The preparatory work cost of $106.68, according to the Operators' payroll, represents payments of $80.08 to Arthur H. Parra for 2 regular and 1 overtime days at $14.48, and $56.00 to Willis W. Milham for 4 regular days at $14.00 per day. Payment of overtime to Parra, ½ shift or $7.24, is not allowed as his working period on contract work is less than 40 hours. Consequently the approved labor costs are $106.68 less $7.24 or $99.44.

No charge has been made for supervision.

Operating Materials and Supplies: The cost of $19.81 for explosives, caps and fuses is supported by a certified copy of invoice. It is approved as the items are allowable in the preparation of the shaft site.

The cost of $30.05 for small tools is approved. It is supported by the operators' certified transcript of 4 invoices. I have inventoried the small tools and the previously purchased pipe, steel, track and equipment.

Payroll Taxes: The cost of $13.78 shown on the Operators' payroll, includes both taxes and insurance on the reported labor cost of $106.68. The approved cost is $11.81, based on the allowable labor cost of $99.44 at the combined rate of 11.96 percent. The overcharge is $0.97.

Incurred Costs of Item 6

The cost of $698.50 represents all expenditures on the headframe. It is supported by the payroll and certified copies of invoices. All cost items are tentatively approved except the $216.92 payment to M. J. Rush for 18 regular and 3 overtime days at $14.96, and the $27.92 for taxes and insurance on this labor cost. The correct costs, based on a 40-hour week before overtime and a combined 11.96 percent for taxes and insurance, should be $187.00 for 11 regular and 1 overtime day and $22.40 for taxes and insurance. Disallowance of the indicated $29.92 for labor and $3.50 for taxes and insurance puts the tentatively approved costs of Item 6 at $637.08.

Final approval of costs of erecting the headframe is subject to a decision as to whether or not the work is in accordance with the contract. As pointed out in my report for June, a 40-foot headframe is being erected instead of the specified 32-foot installation. The anticipated amendment to provide for the increased height has not been received at Tucson.

Totals: The total costs, before recommended disallowances, appear to be correct.

Form MF-104A

The form contains an acceptable distribution of costs shown on Form MF-104.

Operators' Narrative Report

The Operators' Narrative Report is considered adequate. A map of workings will be included with next month's report.

T. M. Romslo
Mining Engineer
Southwest Experiment Station

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

RECEIVED
AUG 29 1955

224 New Customhouse
Denver 2, Colorado

Date August 18, 1955

Inventory of Equipment and other Property purchased on DMEA Docket 3448, Contract Idm-5473, Black Pearl Mining Co., Yavapai County, Ariz. (Tungsten)

Through July 1955

Article	Description	New or Used	Cost
	SMALL TOOLS		
Rasp	2 - 16"	New	$5.61
Shovels	3 - LSP	"	11.08
"	2 - LRP	"	6.93
Picks	3 - with handles	"	9.70
Saw blades	6 - 24" backsaw	"	2.51
Square	1 - carpenter	"	3.22
Plane	1 - Rabbit	"	4.68
Knife	1 - Draw	"	2.75
Chisel	1 - Wood 2-3/8"	"	2.05
Hammer	1 - Claw	"	1.52
	Total small tools		$50.05
	EQUIPMENT		
Saw	1 - 12" pneumatic	New	$200.00
	TRACK		
Rail	1,000' - 16# with finbplates	Used	$50.00
	PIPE		
Pipe	70' - 2 in. black	Used	$20.00
	STEEL		
Steel	1 pc. Capco	New	20.00
	Inventoried By:		
	T. M. Rowsk		
	T. M. ROWSLO		

August 11, 1955

RECEIVED
AUG 29 1955

Mr. W. M. Traver, Executive Officer
DMEA Field Team, Region III
224 New Customhouse
Denver 2, Colorado

Re: Docket No. DMEA-3448 (tungsten)
Contract No. Idm-E-763

Dear Mr. Traver:

The following is a brief narrative report of the progress made during the month of July under the above contract.

The main adit was advanced 23 feet south 80° east to make a total of 133 feet of advance under the contract. The quartz vein averaged 14 inches, having narrowed to 12 inches at the face, with an average grade of .02% WO_3 as determined by face samples taken at regular intervals. The ore grade was somewhat higher than was indicated by the face samples since some Wolframite was sorted out in making this advance. The vein has been persistent and the wall rock has been somewhat harder. Very little work had been done by early operators over this area and it is believed this is a rather barren portion of the vein. Thirty tons of diluted ore were produced from drifting and 121 tons of waste were also trammed.

The vertical shaft was advanced 20 feet during the month to make a total of 36 feet. The shaft has been in fairly hard ground and it should be possible to stay 15 to 20 feet ahead of timber.

Construction of the permanent timber headframe has been started and assembly of the front A frame was nearly completed. The temporary headframe has been removed and shaft sinking stopped until the permanent headframe can be completed.

Very truly yours,

Black Pearl Mining Company

BLACK PEARL MINING COMPANY
Bagdad, Arizona
August 11, 1955

Docket No. DMEA-3448 (Tungsten)
Contract No. Idm-E-763

RECEIVED
AUG 2 3 1955

DRIFT SAMPLES-Main Adit

Channel Samples

Set Number	Width inches	% WO_3
41	18	0.01
42	16	0.02
43	12	0.01
44	12	0.01
45	12	0.08
Weighted Average	14	0.02

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
AUG 29 1955

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of July, 1955 Docket No. DMEA 3148 Contract No. [illegible]-763
Operator's Name Black Pearl Mining Company Minerals Uranium
Address Naylor, Arizona
Contract Amount, $ 177,285.00 Government Participation: 75 % Amount, $ 95,163.75

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: Dept. Sinking	2,601.00	2,330.00	4,931.00			
Bulldozing: Exploration		269.75	269.75			
Crosscutting & Drifting	782.00	3,719.00	4,501.00			
Sampling & Assaying	25.00	130.00	155.00	00.00		110.00
Timbering	175.00	772.00	947.00			
(2) Labor and Supervision:						
Labor	106.00	364.00	470.00	99.44		463.44
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives	19.81		19.81			
Pipe		20.00	20.00			
Track		50.00	50.00			
Steel & Bits		20.00	20.00			
Shop Tools	50.35		50.35			
(4) Operating Equipment:						
Rental						
Purchase Drilling Tools		200.00	200.00			
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.	693.30		693.30	657.79		657.79
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes	12.78	43.61	56.39	11.91		55.52
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	4,464.62	7,664.36	12,128.98	4396.00	7666.36	12062.36

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

Date August 11, 1955 *Payee Black Pearl Mining Company

Per [signature] Title Sec.-Treas.

*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:

$ 3297.00

Signature [signature]
(Authorized Certifying Officer)

Date 8/24/55 Vou. No. DMA 3618

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. Fdm-6763 in accordance with the terms of the contract.

Signature T M Ramalo WAA Title Mining Engineer Date 8-18-1955

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature W. M. Mann Title Executive Officer Date AUG 23 1955

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
AUG 29 1955

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of July 195 5 Docket No. DMEA 3448 Contract No. [illegible]-763

Operator's Name Black Pearl Mining Company Minerals Beryllium

Address Dandal, Arizona

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 & Prospecting	Ft	722.00	23	4,512.00	133	34.00	1425	34.00
Crosscutting & Sinking	Ft	175.00	25	945.00	135	7.00	2600	7.00
Raising	Ft						125	35.00
Shafts	Ft	2,400.00	20	4,600.00	36	100.00	75	100.00
Winzes	each						2	2,600.00
Drilling: Core	each	75.00	5	135.00	27	5.00	300	5.00
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
								TOTAL COSTS AUTHORIZED BY CONTRACT
TOTAL DISTRIBUTED COSTS		3,502.00		10,292.00				
Bulldozing				260.75				100.00
Operating Equipment Purchased				200.00				4,750.00
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.		692.30		692.30				2,000.00
Other preparatory costs		182.32		606.93				2,160.00
TOTAL COSTS		4,464.62		12,120.00				127,205.00

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: Footage through July 27 is being claimed since 12 Pounds measured on July 28

Date August 11, 1955 Operator Black Pearl Mining Company

Per [signature] Title Sec.-Treas.

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)

T. M. Rowsle
by James D Cooper

INSTRUCTIONS

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

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

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

GPO 83-38475

DMEA
Date Rec'd
AUG 4 1955
BUREAU OF MINES
Denver, Colorado

Box 4097
Tucson 5, Ariz.

August 2, 1955

Memorandum

To : W. M. Traver, Executive Officer, DMEA Field Team, Region III

From : Lincoln A. Stewart for Superintendent, Southwest Experiment Station

Subject : June 1955 Progress Report, DMEA Contract Ldn-5763, Docket DMEA-3448, Black Pearl Mining Co.'s Black Pearl Tungsten Mine, Yavapai County, Ariz.

Enclosed in quintuplicate are the following:

1. Bureau of Mines engineer's report;
2. Operator's narrative report with map;
3. Forms MF-104 and MF-104A (original with certified payroll, etc.).

Also enclosed are 4 extra copies of our engineer's report.

The operator's report was received in Tucson on July 18.

To the best of my knowledge and belief, all work and costs are in accordance with terms of the contract, therefore, I recommend that the Government's share of the costs be paid.

LINCOLN A. STEWART

Lincoln A. Stewart, Mining Engineer
for Walter R. Storms, Superintendent
Southwest Experiment Station

CC W. M. Traver (8)
DMEA-3448
DF

LAStewart:frj

MF-104
June

Box 4097
Tucson 5, Ariz.

August 2, 1955

Memorandum

To : Walter R. Stoms, Supt., SW Exp. Station, Region III

From : T. M. Romslo, Mining Engineer, Tucson, Arizona

Subject : Progress Report for June 1955, Docket DMSA-3448
Contract Ida-3763, Black Pearl Mining Co.'s
Black Pearl Tungsten Mine, Yavapai County, Ariz.

The Black Pearl Mine was visited July 28, 1955 after a trip scheduled for the first of that week was postponed due to impassable highways. E. A. Schmiz and J. H. Cassier, respectively president and secretary-treasurer of the Black Pearl Mining Co., were at the mine and one or both of them accompanied me during an inspection of pertinent project operations. Upon completion of the inspections we discussed 2 items of the contract that were mentioned by William E. Hardwick in his Progress Report for May 1955.

Item 1. A method to account for royalty payment to the Government. - The operators informed me that they had sent letters to Mr. W. M. Traver, Executive Officer, Field Team, Region III that contained a proposed method of settlement and a check covering royalty due on production during March through June 1955. I found that the method of sampling had not been described by the operators but had been described by Mr. Hardwick in his Progress Report for March and April. According to Hardwick and the operators, samples are cut across the face of the vein at three points, 2 feet, 4 feet and 6 feet above the floor of the drift. A composite of the 3 samples is assayed to obtain the average grade for a 5-foot interval. Where the vein is very narrow, 2 reading rounds are necessary to obtain 5 feet of advance. In this case the faces are sampled in the above manner at about 2.5-foot intervals and the resulting 6 samples are combined for assay. The operators said that they believe their proposal is probably the most practical method of computing royalty payments. They also said that the initial payment was made to show good faith, and that they expect to receive detailed information from DMSA as to necessary supporting data for both the initial and future payments.

Item 2. A possible amendment to increase the maximum amount provided in the contract for hoist and headframe. - The proposed amendment will be submitted shortly. In the meantime the

CC W. M. Traver (Orig. & 8)
DMSA-3448
DF

TMRomslo:fr;

operators are trying to locate a suitable hoist and have started the assembly of a 40-foot headframe instead of the 35-foot structure specified in the contract.

The inspection of mine workings showed the following advances since May in the adit and shaft.

Adit.

On July 28, the adit had been advanced 133.0 feet from the official starting point, 4.0 feet beyond timber set No. 18. Timbering of the adit started at set No. 13 and had been completed for a distance of 135.0 feet, or to a point 2 feet from the face of the adit. To June 1, the adit and timber had been advanced 81.0 and 84.0 feet, respectively. Thus, advances for June to July 28, were 52 feet of drifting and 51 feet of timbering. According to the operators, 30 feet of the drifting and 26 feet of the timbering was done during June. They also reported that 6 composit samples from the adit were sampled during June.

Shaft.

Sinking of the shaft was started during June. On July 28, the bottom of the shaft was at 35.0 feet from the collar. The shaft has a minimum rock section of 6 by 11 feet. It is timbered to 2 compartments with 8- by 8-inch plates and 6- by 8-inch divider. Timbering had been completed to a depth of 21.5 feet. Of the 35.0 feet of advance, 16.0 feet was reportedly accomplished during June.

After the shaft was measured a round was blasted. Muck from the round probably will not be removed until the temporary headframe and air tugger has been replaced by a permanent headframe and hoist.

Analysis of Contract, Forms MT-104 and 104A and Operators' Narrative Report.

Contract

In my opinion, the meanings of 3 items of the contract are ambiguous. The items possibly should be amended. The first of these is Annex II, Special Agreement Concerning Royalty. The Agreement excludes royalty payment on ore from a specified zone provided it is not extracted or transported through any working described in Exhibit "A". Figure 3 (Longitudinal Section of Vein Looking North) is a part of Exhibit "A" and could be considered as a description of workings from which ore from the restricted zone must necessarily be extracted and transported. This interpretation would nullify the intent of the contract. Another point about the Agreement is the definition of the

restricted zone. The vertical extent of the zone is correctly defined but the length of the zone should be extended northward to the official starting point, set 18 of the operators' map attached to the May Progress Report. The northern limit of the zone, as described by the contract, is the face of the adit on the date of the field examination. After the examination and prior to the official starting date of the contract the adit was advanced over 10½ feet. The exact advance during the period is not available at this writing.

The other item subject to possible amendment occurs under Fixed Unit Costs of both stages 1 and 2. Provision is made for 500 feet of timbering at $7.00 a foot, in each stage. The contract does not state where such timbering is allowed although it probably is intended for only the drifting and crosscutting of Stage 1 and for drifting, crosscutting and possibly raising under Stage II. An amendment, if prepared, should specify where the timbering is allowed.

Form NF-124

Shaft sinking - The charge of $1,000.00 represents the 16 feet of advance at the allowable rate of $130.00 per foot.

Crosscutting and Drifting - The advance of 29.0 feet in the adit has been charged for at the specified rate of $34.00 a foot.

Sampling and assaying - The charge of $30.00 represents the allowable cost of $5.00 for each of the 6 samples reportedly assayed during June. An unsigned list of the 6 assays are attached to the Operators' Report.

Labor and Supervision - Three men were employed part time on preparatory work for a total of eleven 8-hour days at $14.00 a day. The total charge, before $18.45 for insurance and taxes, is $154.00. The number of men employed at the same time, 2, rate of pay and total charge to date meet contract specifications. A certified transcript of the payroll has been furnished. No charge has been made for supervision.

Operating Materials and Supplies - The charges of $20.00 for pipe, $30.00 for track, and $10.00 for steel and bits are a reclaim for the same items that were deducted from May report because of improper documentation. The charges are supported by the original Reclaim Form No. 4 and a certified copy of invoice.

Operating Equipment - The charge of $250.00 for Framing Equipment, a 15" pneumatic saw, is a reclaim for an allowable cost of the May report that was denied pending receipt of a proper invoice and Reclaim Form No. 4. The necessary documents have been submitted by the operator.

Miscellaneous - Payroll taxes of $18.45 are shown on the operators certified copy of the payroll for June 1955. Payroll taxes to date of $43.61 do not exceed the allowable maximum.

Totals - The total costs reflect the above mentioned disallowances and reclaim.

Form MF-104A

The form contains a proper distribution of costs shown on Form MF-104.

Operators' Narrative Report

The Operators' Narrative Report, with attached map, is considered adequate.

Recommendation

All costs of the June report, totalling $1,740.45, are allowable. However, the charge of $80.00 for sampling may be deductible because the supporting invoice has not been certified.

T. M. Romslo

T. M. Romslo
Mining Engineer
Southwest Experiment Station

July 14, 1955

Mr. H. H. Trover, Executive Officer
DMA Field Team, Region III
2 4 New Customhouse
Denver 2, Colorado

Re: Docket No. DMA-2443(Region)
Contract No. DMI- -763

Dear Mr. Trover:

The following is a brief narrative report of the progress made during the month of June under the above contract.

The main adit was advanced [illegible] feet south, [illegible] east to make a total of 183 feet of advance under the contract. The quartz vein averaged 14 inches with an average grade of 0.6[illegible] as determined by a weighted average of the channel samples taken during this advance. The enclosed map shows the vein position and width together with the location and width of samples taken. [illegible] tons were mined and diluted ore from drifting while 10[illegible] tons of waste were also mined.

The vertical shaft was started and advanced 16 feet during the month. The inside centerline of the north wall plate is at coordinates 4,663.51 north and 5[illegible],[illegible].16 east and the wall plate runs north 70° east. The shaft consists of two 4' by 4'6" compartments timbered with 8" by 8" wallplates and caplates and 6" by 8" divisers. The legs are being cut and sets are being placed on 5' ctrs. [illegible] sets are put in at the shaft collar. A temporary hoist and temporary headframe are now being used.

Very truly yours,

J. H. Lazier

Chief Geol. Mining Engineer

[illegible]
Bagdad, Arizona
July 1[illegible], 19[illegible]

Docket No. [illegible]-[illegible](Tungsten)
Contract No. [illegible]-[illegible]-[illegible]63

[illegible] Adit

Channel Sample

Sample Number	Width Inches	% WO_3
35	17	0.18
36	16	0.12
37	16	0.03
38	18	0.40
39	18	0.26
40	19	2.60
Weighted Average	17	0.51

UNITED STATES DEPARTMENT OF THE INTERIOR

400

224 New Customhouse
Denver 2, Colorado

August 18, 1955

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 3448 (Tungsten), Contract Idm-E763, Black Pearl Mining Company, Black Pearl Tungsten Mine, Yavapai County, Arizona.

Enclosed are two copies of the Operator's Monthly Progress Report, Form MF 104 and MF-104A, Operator's Narrative Report, Inspecting Engineer's Narrative Report, and other supporting data pertaining to work under the subject contract for the month of June 1955.

W. M. Traver

Enclosures

jy

cc: MF 104 File Idm-E763
Storms
Chron.

MF-104
June

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

224 New Customhouse
Denver 2, Colorado

August 5, 1955

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 3448 (Tungsten), Contract Idm-E763, Black Pearl Mining Company, Black Pearl Tungsten Mine, Yavapai County, Arizona - Operator's Monthly Progress Report for the month of June, 1955

Enclosed are the original and four copies of form MF-104 and MF-104A, Narrative Report, and Engineer's Report for the above period.

Work has been accomplished as authorized in the contract and payment is recommended for 75 percent of the amount as reported on form MF-104, contingent on your verification of the correctness of applicable rates and arithmetical accuracy of computations.

The reclaim of items disallowed on the May, 1955 report is now approved.

Remarks:

Date of Report.....July 14, 1955
Date Received in Field Office.....July 18, 1955
Date Received in Region Office.....August 4, 1955

W. M. Traver

W. M. Traver

Enclosures

RDB:sr

cc Subject
Sec. Op. Comm. (2)
Storms
Townsend w/copy Engineer's Report
Chron

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

Budget Bureau No. 42-R1036.5

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

Month of June, 195[illegible] Docket No. DMEA 3[illegible]4[illegible] Contract No. [illegible]-763
Operator's Name Black Hoard Mining Company Minerals Tungsten
Address Dagdad, Arizona
Contract Amount, $[illegible] Government Participation 75 % Amount, $[illegible]

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling	2,000.00	0	2,000.00			
Bulldozing		166.75	166.75			
Crosscutting	986.00	2,754.00	3,740.00			
Drifting	37.[illegible]	80.00	117.00			
Timbering	10[illegible]	500.00	770.00			
(2) Labor and Supervision:						
Labor	154.00	210.00	364.00			
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe	20.00	0	20.00			
Track	50.00	0	50.00			
Steel & Bits	20.00	0	20.00			
(4) Operating Equipment:						
Rental						
Purchase Drafting Equip.	200.00	0	200.00			
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes	1[illegible].15	25.26	43.61			
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	3,741.15	3,925.[illegible]	7,666.36	3740.45	3925.91	7666.36

I certify that the above bill is correct and just and that payment therefor has not been received.
Date Feb. [illegible], 195[illegible] *Payee Black Hoard Mining Company
Per [signature] Title Sec.-Treas.

*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:

$2,805.34

Signature [signature]
(Authorized Certifying Officer)

Date 8/9/55 Vou. No. DMA-56-13
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. Idm E763 in accordance with the terms of the contract.

Signature [illegible] Title Mining Engineer Date Aug 4, 1955

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE: Berk.

Signature [illegible] Title Executive Officer Date AUG - 5 1955

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of June 1955 Docket No. DMEA [illegible] Contract No. [illegible]
Operator's Name Black Lead Mining Company Minerals [illegible]
Address [illegible], Arizona

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	ft.	1,085.00	32	3,[illegible]	110	34.00	[illegible]	34.00
Crosscutting: [illegible]	ft.	182.00	26	[illegible]	130	[illegible]	[illegible]	[illegible]
Raising	ft.						[illegible]	35.00
Shafts	ft.	2,[illegible]	16	2,[illegible]	16	130.00	[illegible]	130.00
Winzes: Stations	each						6	2,000.00
Drilling: Core								
[illegible] Churn	each	30.00	6	[illegible]	22	5.00	[illegible]	5.00
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Total Distributed Costs		3,[illegible]		6,[illegible]				Total Costs Authorized by Contract
Drilling				[illegible]				[illegible]
Operating Equipment Purchased		[illegible]		[illegible]				4,[illegible]
Initial Rehabilitation and Repairs								2,[illegible]
New Buildings, Improvements, etc.								
Other operating costs		262.14		[illegible]				2,160.00
Total Costs		3,[illegible]		7,[illegible]				[illegible]

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 11, 1955 Operator Black Lead Mining Co. [illegible]

Per [signature] Title Sec.-Treas.

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

Remarks:

(Instructions on reverse)

(For Government use only)

[signature]

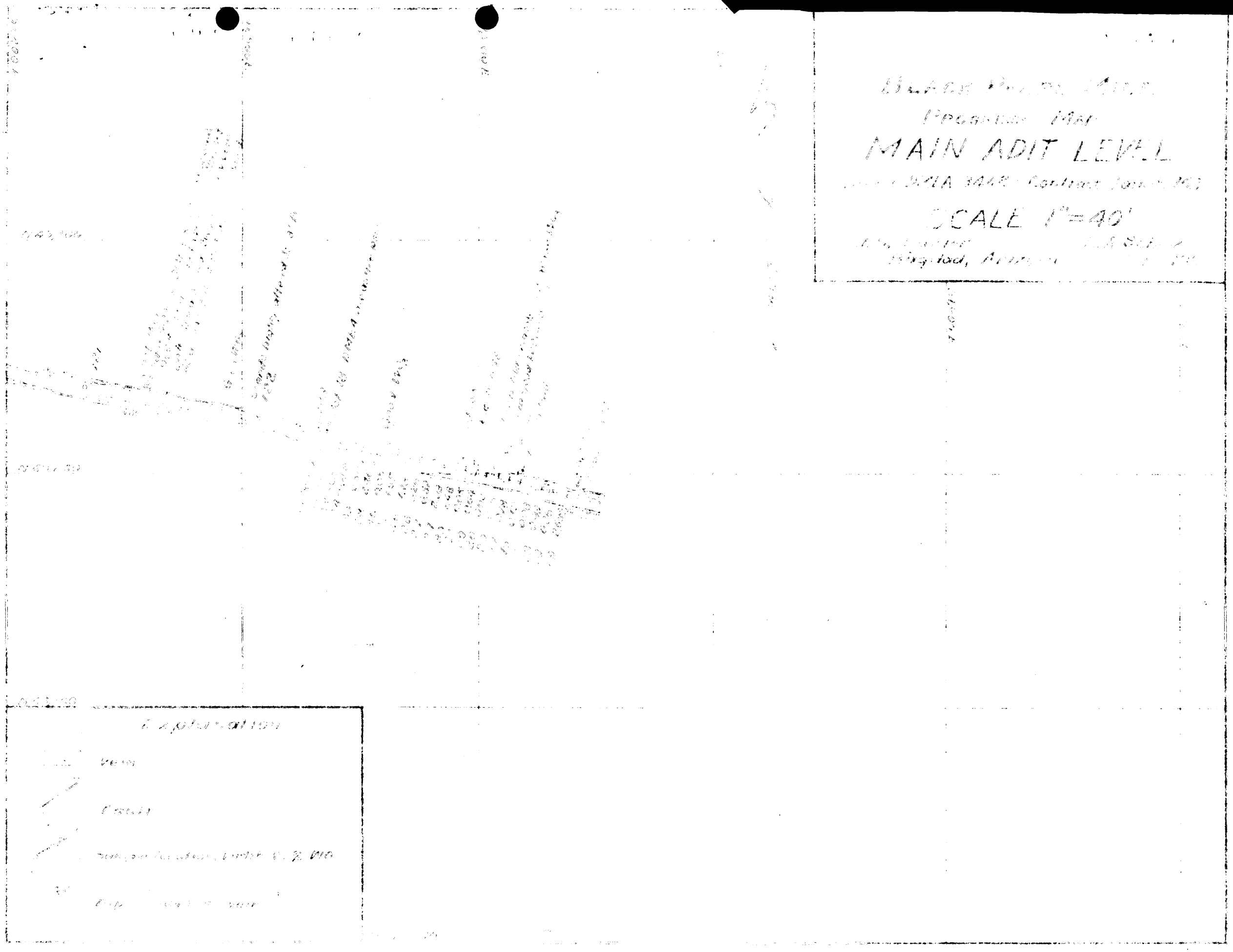
INSTRUCTIONS

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

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

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

GPO 83-38475


MAIN ADIT LEVEL
SCALE 1"=40'
Explanation

400

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

RECEIVED
JUL 22 1955

224 New Customhouse
Denver 2, Colorado

July 20, 1955

Memorandum

WSM

To: Secretary to the Operating Committee, DMEA

From:- Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 3448 (Tungsten), Contract Idm-E763
Black Pearl Mining Company, Black Pearl Tungsten Mine
Yavapai County, Arizona

Enclosed are two copies of the Operator's Monthly Progress Report, Form MF-104 and MF-104A, Operator's Narrative Report, Inspecting Engineer's Narrative Report and other supporting data pertaining to work under the subject contract for the month of May, 1955.

W. M. Traver

W. M. Traver

Enclosures

mf 104's
may

U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
REGION IV

RECEIVED
JUL 22 1955

Administrative Audit Difference Statement

Date: July 8, 1955
Payee's Reference: May 1955

Black Pearl Mining Company
Box 248
Bagdad, Arizona

Gentlemen:

Upon examination of the above Payee's Reference a difference was found which made it necessary to suspend your account accordingly:

Amount Claimed	$ 1,661.91
Difference	$ 290.00
Amount Approved	$ 1,371.91

The reason for the difference was due to:

1 12" Pneumatic Saw	200.00
70 ft. 2" Pipe	20.00
1 pc. Capco Pacific Carbide Insert Steel	20.00
1000" Used 16# rail w/fish plates	50.00
Total Disallowance	290.00

Items are allowable, but must be supported by invoice to show them as property of your company.

Any reclaim for deductions made above must be supported by the ORIGINAL of this form.

Very sincerely yours,

N. E. Stokes
Audit Section

R-IV-B & F Form No. 4
4-15-52 D

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

RECEIVED
JUL 28 1955

224 New Customhouse
Denver 2, Colorado

July 5, 1955

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 3448, Contract Idm-E763, (Tungsten), Black Pearl Mining Company, Black Pearl Tungsten mine, Yavapai County, Arizona - Operator's Monthly Progress Report for the month of May, 1955

Enclosed are the original and four copies of form MF-104 and form MF-104A, Narrative Report, and Engineer's Report for the above period.

Work has been accomplished as authorized in the contract and payment is recommended for 75 percent of the amount as reported on form MF-104, contingent on your verification of the correctness of applicable rates and arithmetical accuracy of computations, except for the following deductions:

1	12" Pneumatic Saw	$200.00
70 ft.	2" Pipe	20.00
1 pc.	Capco Pacific Carbide Insert Steel	20.00
1000#	Used 16# rail w/fish plates	50.00
	Total Disallowance	$290.00

Items are allowable but invoice not properly made to show them as property of Black Pearl Mining Company. Operator was advised to submit a reclaim.

Remarks:

Date of Report.....June 15, 1955
Date Received in Field Office.....June 16, 1955
Date Received in Region Office.....June 29, 1955

RDB:sr

cc Sec. Op. Comm. (2)
Subject
Storms
Chron

Enclosures

Wm. Traver
W. M. Traver

RECEIVED

JUL 22 1955

June 27, 1955

Memorandum

To : W. M. Traver, Executive Officer, DMEA Field Team Region III.

From : Superintendent, Southwest Experiment Station.

Subject : May 1955 Progress Report, DMEA Contract IAm-5763, Docket DMEA-3448, Black Pearl Mining Co.'s Black Pearl Tungsten Mine, Yavapai County, Ariz.

Enclosed in quintuplicate are the following:
(1) Bureau of Mines engineer's report;
(2) Operator's narrative report with map;
(3) Forms MF-104 and MF-104A (original with certified payroll, etc.)

Also enclosed are 4 extra copies of our engineer's report.

The operator's report was received in Tucson on June 16, but the fifth copy was not signed so was returned for signature. The signed report was received on June 27 at Tucson.

To the best of my knowledge and belief, all work and costs are in accordance with terms of the contract, therefore I recommend that the Government's share of the costs be paid.

Walter R. Storms

Walter R. Storms

CC - W. M. Traver (8)
DMEA-3448
RF

RECEIVED
JUL 2 1 1955

June 27, 1955

Memorandum

To : Walter R. Storms, Superintendent, Southwest Experiment Station, Region III.

From : William R. Hardwick, Mining Engineer, Tucson, Ariz.

Subject : Progress Report for May 1955, Docket DMEA-3448, Contract Idm-5763, Black Pearl Mining Co.'s Black Pearl Tungsten Mine, Yavapai County, Ariz.

The Black Pearl Mine was visited on June 9, 1955. Both E. A. Schols and J. H. Cazier were at the mine. Forms MF-104 and MF-104A, together with a short narative report were received in Tucson on June 16, 1955. However, some of the forms were not signed, so were returned to the operator for signature.

The three following subjects were discussed with the operator on June 9:

1. A method to account for royalty due the Government;
2. A possible amendment to increase the maximum amount provided in the contract for hoist and headframe;
3. Supporting papers for Stage I of the contract.

At the Black Pearl mine, ore that is subject to royalty is mined from the extension of the adit to the east. Ore that is not subject to royalty is also mined from stopes above the adit level and from other places on the property. All mine production is commingled and concentrated to produce a marketable product. Schols and Cazier were asked to prepare an outline showing how the royalty due the Government will be determined. They were requested to submit this procedure to the DMEA field team for approval.

Schols and Cazier have requested bids from independant contractors for the shaft-sinking part of Stage I. They are seriously considering sub-contracting this part of the exploration program. In order to get a favorable bid from a reliable contractor, Schols and Cazier state that they must agree to supply a higher headframe and a larger hoist than that provided in the contract. They believe that a small increase in the price allowed by the contract for headframe and hoist would be more than balanced by a decrease in the cost of sinking the shaft.

As there are some points in favor of the applicants'

proposal, they were advised to submit a request for an amendment to increase the size of the hoist and headframe. They were told that this request should be supported by copies of the quotations and specifications in the bids by prospective contractors and by quotations for furnishing and installing the proposed larger equipment. They were asked to include an analysis showing the proposed savings that would result to the exploration program as outlined in the contract.

Under the provisions of contract Idm-E763, the exploration work at the Black Pearl mine is divided into two parts for the purpose of cost accounting. One part provides for actual costs, while the other part provides for agreed estimated costs as a basis for Government participation. During the month of May, costs were incurred in both categories.

The main adit was advanced 20 feet to the east along a continuous steeply dipping quartz vein. Four samples were taken and assayed for Tungsten. The average width of the vein, as reported by the operator, was 20 inches. The vein occupies the center of a fault zone, 6 to 8 feet wide. The walls of the fault are slick and lined with mica. The back of the drift tends to spall along the fault wall on each side of the drift. The sloughing occurs in blocks of from 10 to 200 pounds and the drift must be timbered to prevent accidents.

The contract provides for payment to the operator at the agreed estimated rate of $34.00 per foot for drifting, $7.00 per foot for timbering, and $5.00 for each assay. The work completed in May is shown in the following table:

	May	Total
Drifting @ $34.00 per foot	$680.00	$2,754.00
Timbering @ $7.00 per foot	168.00	588.00
Assays @ $5.00 each	20.00	80.00
Total	$868.00	$3,422.00

That part of the work for which settlement on an actual cost basis is provided by the contract is discussed item by item as follows:

Independant contracts

During May the operator reports that 21½ hours work with a Dozermobile was expended in leveling the site for the headframe and hoist. The rate for this work ($12.30 per hour) is less than the maximum rate provided by the contract ($15.00 per hr.); the total amount ($268.75) does not exceed the amount that is allowed by the contract; and the claim is supported by a certified copy of the invoice for the work. The work was checked in the field

and the claim seems reasonable and just.

Personal Services

Two men were employed on preparatory work for a total of 12 regular days and 2 overtime days at $14.00 per day. The total charge was $210.00. The number of men, rate of pay and total amount is within the respective amounts provided by the contract. The operator has submitted a certified transcript of the payroll. No supervision is charged for May.

Operating Material and Supplies

Under this category, 70 ft. of 2 inch pipe ($20.00), 1 piece Copco Pacific Carbide Insert Steel ($20.00), and 1,600 pounds of 16 pound rail with fish plates ($50.00) were transferred to the accounts of the Black Pearl Mining Co. from the accounts of the Copper King Lease, another operation that is wholly owned by Scholts and Cantier. The transaction is supported by a copy of the purchase order of the Black Pearl Mining company signed by Bazier. The material has been moved to the Black Pearl Mine for use on the BBKA project. The prices are reasonable and it is recommended that this charge be allowed.

Operating Equipment

Also transferred to the accounts of the Black Pearl Mining Co. from the Copper King Lease is a 12 inch pneumatic saw ($200.00). This item is purchased as framing equipment. The price is reasonable and it is recommended that the transfer be approved.

Miscellaneous

Under this item payroll tax on the expended labor at the following rates is included:

Federal Insurance Contributions	2.09 percent
Industrial Insurance	5.63 percent
Unemployment	1.35 percent

These rates are reasonable and are within the provisions of the contract. The total amount charged ($25.16) does not exceed the maximum provided in the contract.

The total amount expended under the part of the contract that provides for Government participation on actual cost basis is summarized as follows:

Independent Contracts	$258.75

Personal Services	$210.00
Operating Materials & Supplies	90.00
Operating Equipment	200.00
Miscellaneous	25.16
Total	$793.91

The total amounts expended for the Month of May under the terms of the contract are summarized as follows:

	May	Total
Agreed unit price items	$ 868.00	$3,422.00
Actual cost items	793.91	793.91
Total	$1,661.91	$4,215.91
Government's part	$1,246.43	$3,161.93

The unit price items and the progress on the actual cost part of the contract were checked. The operator has retained original invoices and has presented certified copies with his claim. In the case of Operating Materials and Supplies those materials not yet used are in stock. It is recommended that the operators claim be paid.

The completion date for this contract is June 30, 1956.

William R. Hardwick
William R. Hardwick
Mining Engineer

CC - W. M. Traver (orig. & 8)
DMEA-3448
DF

RECEIVED

[illegible] 1955

[illegible]

[illegible]

[illegible]

Dear Mr. [illegible]:

The following is a brief narrative report of the [illegible] made during the month of May under the above contract.

The [illegible] was advanced [illegible] feet North [illegible]° East on the vein. Four [illegible] and one [illegible] set of timber were [illegible] to make a total of [illegible] timbers [illegible] the month. [illegible] necessary to [illegible] hole above each of these sets.

[illegible] was followed. [illegible] as much as three [illegible] the main vein [illegible] were observed. [illegible] advance. [illegible] branches [illegible] as usual. [illegible] were also [illegible].

The [illegible] has been [illegible] of the [illegible] have been [illegible].

The shaft [illegible] has been levelled [illegible] necessary, [illegible] barrel storage [illegible] have been [illegible] for the shaft sinking. Additional [illegible] have been [illegible] shaft equipment. [illegible] have also been [illegible] the shaft sinking and drifting.

Yours truly,

[illegible]

[illegible]
Bagdad, Arizona
June 14, 1955

Docket No. DMA-3143(tungsten)
Contract No. [illegible]-[illegible]-70

[illegible] Mine - Main Vein

Channel samples

Sec. No.	Width Inches	WO3
31	23	0.05
[illegible]	20	0.01
33	20	0.02
34	20	0.15
Weighted average	19	[illegible]

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
JUL 22 1955

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of ....., 195.... Docket No. DMEA ..... Contract No. .....
Operator's Name ..... Minerals .....
Address .....
Contract Amount, $..... Government Participation: ....% Amount, $.....

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor						
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				1661.91	2554.00	4215.91

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

Date June 15-55 *Payee .....

Per [signature] Title Sec-Treas

*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:

$ 1028.93

Signature Randolph Cooper
(Authorized Certifying Officer)

Date 2/8/55 Vou. No. DMA 56-1

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. DMF-E 677 in accordance with the terms of the contract.

Signature William R Hardwick Title Mining Engineer Date 6/21/55

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature W M Traver Title Executive Officer Date JUL - 5 1955

MONTHLY REPORT OF OPERATOR

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Form MF-104A
(April 1952)

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

RECEIVED
JUL 22 1955

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of _____ 195__ Docket No. DMEA _____ Contract No. _____
Operator's Name _____ Minerals _____
Address _____

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core								
Churn				80.00	16	5.00		
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS								TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS								

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

Date June 15-55 Operator _____

Per J. C. Clegg Title Sec Treas

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

REMARKS: _____

(Instructions on reverse)

(For Government use only) William R. Hardwick
Mining Engineer

INSTRUCTIONS

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

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

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

GPO 83-38475

402

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

RECEIVED
JUN 1 5 1955

224 New Customhouse
Denver 2, Colorado

June 13, 1955

Memorandum

To: Secretary to the Operating Committee

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 3448 (Tungsten), Contract Idm-E763, Black Pearl Mining Company, Yavapai County, Arizona

Enclosed are two copies of the Operator's Monthly Progress Report, Form MF-104 and MF-104A, Operator's Narrative Report, Inspecting Engineer's Narrative Report, and other supporting data pertaining to work under the subject contract for the months of March and April, 1955.

W. M. TRAVER

W. M. Traver

Enclosures

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

RECEIVED
JUN 15 1955

224 New Customhouse
Denver 2 Colorado

June 1, 1955

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 3448 (Tungsten) Contract Idm-E763, Black Pearl Mining Company Yavapai County, Arizona - Operator's Monthly Progress report for the period of March and April, 1955

Enclosed are the original and four copies of form MF-104 and MF-104A, Narrative Report and Engineer's Report for the above period

Work has been completed as authorized by the contract No documentation is required for work performed at the fixed unit costs as reported therefore we recommend that payment be made for 75 percent of the amount reported by the Operator on form MF-104, contingent on your verification of arithmetical accuracy within the report.

Remarks:

Date of Operator's report.....May 9, 1955
Date Report Received in Region Office...May 31, 1955

W. M. Traver

Enclosures

RDB:sr

cc Subject
Chron
Sec. Op. Comm. (2)
Storms

RECEIVED
JUN 1 5 1955
DMEA
5

May 28, 1955

Memorandum

To: W. N. Traver, Executive Officer, DMEA Field Team, Region III

From: Superintendent, Southwest Experiment Station, Tucson, Ariz.

Subject: March-April 1955 Progress Report, DMEA Contract I4m-E763, Docket DMEA-3448, Black Pearl Mining Co.'s Black Pearl Tungsten Mine, Yavapai County, Arizona

Enclosed in quintuplicate are the following:

(1) Bureau of Mines engineer's report;
(2) Operator's narrative report;
(3) Forms MP-104 and MP-104A.

Also enclosed are 4 extra copies of our engineer's report.

As all work is in accordance with terms of the contract, I recommend that the Government's share of the costs be paid.

Walter R. Storms

Walter R. Storms

cc - W. N. Traver (8)
DMEA-3448
DF
WRStorms/ts

RECEIVED
JUN 1 8 1955

5

May 24, 1955

Memorandum

To: Walter R. Storms, Supt., Southwest Experiment Station, Region III

From: William R. Hardwick, Mining Engineer, Tucson, Arizona

Subject: Progress Report for March and April 1955, Docket DMRA-3448, Contract Idm-5763, Black Pearl Mining Co.'s Black Pearl Tungsten Mine, Yavapai County, Arizona

The Black Pearl mine was visited on April 14, 1955, and again on May 19, 1955. Both E. A. Scholz and J. H. Cozier were absent from the mine and vicinity at the time of the visits. On May 19, 1955, K. K. Puumala, superintendent, was at the mine and assisted in measuring the progress.

This contract was approved on February 2, 1955, and work was started on March 8, 1955, at which time a starting point was established for item 5 of Stage I by L. L. Burnham. Item 5 of Stage I provides for extending the main adit a distance of 400 feet in an easterly direction from the present face.

On May 19, 1955, the adit had been advanced a distance of 78.0 feet from the starting point; all advance was timbered. The operator claims that 61 feet of this advance was completed in April. As no voucher was submitted for the last part of March, and April was the first full month of operation, it is assumed by the writer that the April voucher includes the work completed in March. This point could not be verified when the property was visited as Scholz and Cozier were absent.

The applicant reports that 12 samples were taken at 5 feet intervals. Puumala stated that these samples were taken by cutting a channel sample across the face of the vein at three points, 2 feet, 4 feet, and 6 feet above the bottom of the drift. The cuttings from all three channels are combined into one sample which represents the 5-foot drift interval. Puumala stated that in addition to sampling all tungsten produced by the drift is recorded. According to the operator's report the average width of the vein is 31 inches, and the grade, 0.86 percent WO_3.

The cost of the work completed in March and April was as follows:

cc - W. H. Traver (orig. & 8)
DMRA-3448
DF
WRHardwick/ts

	Units	Cost
Drifting and crosscutting @ $34.00/ft.	61 ft.	$2,074.00
Timbering @ $7.00/ft.	60 ft.	420.00
Sampling & assaying @ $5.00/ea.	12	60.00
Total		$2,554.00
Government's agreed part (75%)		$1,915.50

The work that is listed above as having been completed in March and April 1955, is in accordance with the terms of the contract and is approved. It is recommended that the Government's agreed part of the cost be paid to the operator in accordance with the terms of the contract. The completion date for this contract is June 30, 1955.

William R Hardwick

William R. Hardwick
Mining Engineer

[illegible]

[illegible]

[illegible]

RECEIVED
JUN 15 1955

A bulldozer became available to us on May 13 and the stock site is now being prepared. Quotations on a mixer, skip, buckets etc. have been secured and various other steps preliminary to digging starting have been taken.

Very truly yours,

J. H. Lozier

Black Forest Riding Company

[illegible]
Bayard, California
May 9, 1955

RECEIVED
JUN 15 1955

Project No. DMA 3U45 (Compston)
Contract No. [illegible]

[illegible]

Chemical Samples

Sec. No.	Weight	% WO_3
	Grams	
19	42	0.34
20	31	0.03
21	24	0.68
22	30	0.30
23	28	2.16
24	36	0.05
25	32	1.06
26	34	1.18
27	26	0.76
28	27	0.52
29	27	2.33
30	30	1.13
Weighted average	31	0.95

MF-104A
(Apr il 1952)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
JUN 15 1955

OPERATOR'S UNIT COST AND PROGRESS REPORT

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

OPERATION	Unit	Costs This Month	Units This Month	Costs to Date	Units to Date	Unit Costs to Date	Authorized by Contract	
							Units	Unit Costs
Drifting	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Crosscutting	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Raising	[illegible]						[illegible]	[illegible]
Shafts	[illegible]						[illegible]	[illegible]
Winzes	[illegible]						[illegible]	[illegible]
Drilling: Core	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Churn	[illegible]						[illegible]	[illegible]
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Total Distributed Costs								Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs		[illegible]		[illegible]				[illegible]

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

Date [illegible] Operator [illegible]

Per [illegible] Title [illegible]

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

Remarks: [illegible]

(Instructions on reverse)

(For Government use only) William R Hardwick

INSTRUCTIONS

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

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

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

GPO 83-38475

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED
JUN 15 1955

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of [illegible] 195[illegible] Docket No. DMEA [illegible] Contract No. [illegible]
Operator's Name [illegible] Minerals [illegible]
Address [illegible]
Contract Amount, $ [illegible] Government Participation: [illegible]% Amount, $ [illegible]

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling						
Bulldozing						
Crosscutting	[illegible]	0	[illegible]			
Drifting	[illegible]	0	[illegible]			
[illegible]	[illegible]	0	[illegible]			
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes						
Liability Insurance						
(8) Contingencies (specify):						
[illegible]	[illegible]	0	[illegible]			
TOTALS				2,554.00	.00	2,554.00

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

Date [illegible] *Payee [illegible]

Per [illegible] Title [illegible]

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

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

(Instructions on reverse)

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

$1,915.50

Signature Randell R. Cooper
(Authorized Certifying Officer)

Date 6/1/55 Vou. No. DMA-55-95

(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. Idm-E 263 in accordance with the terms of the contract.

Signature William R. Hardwick Title Mining Engineer Date 5/25/55

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature W. M. Shaw Title Executive Officer Date JUN 1 1955

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

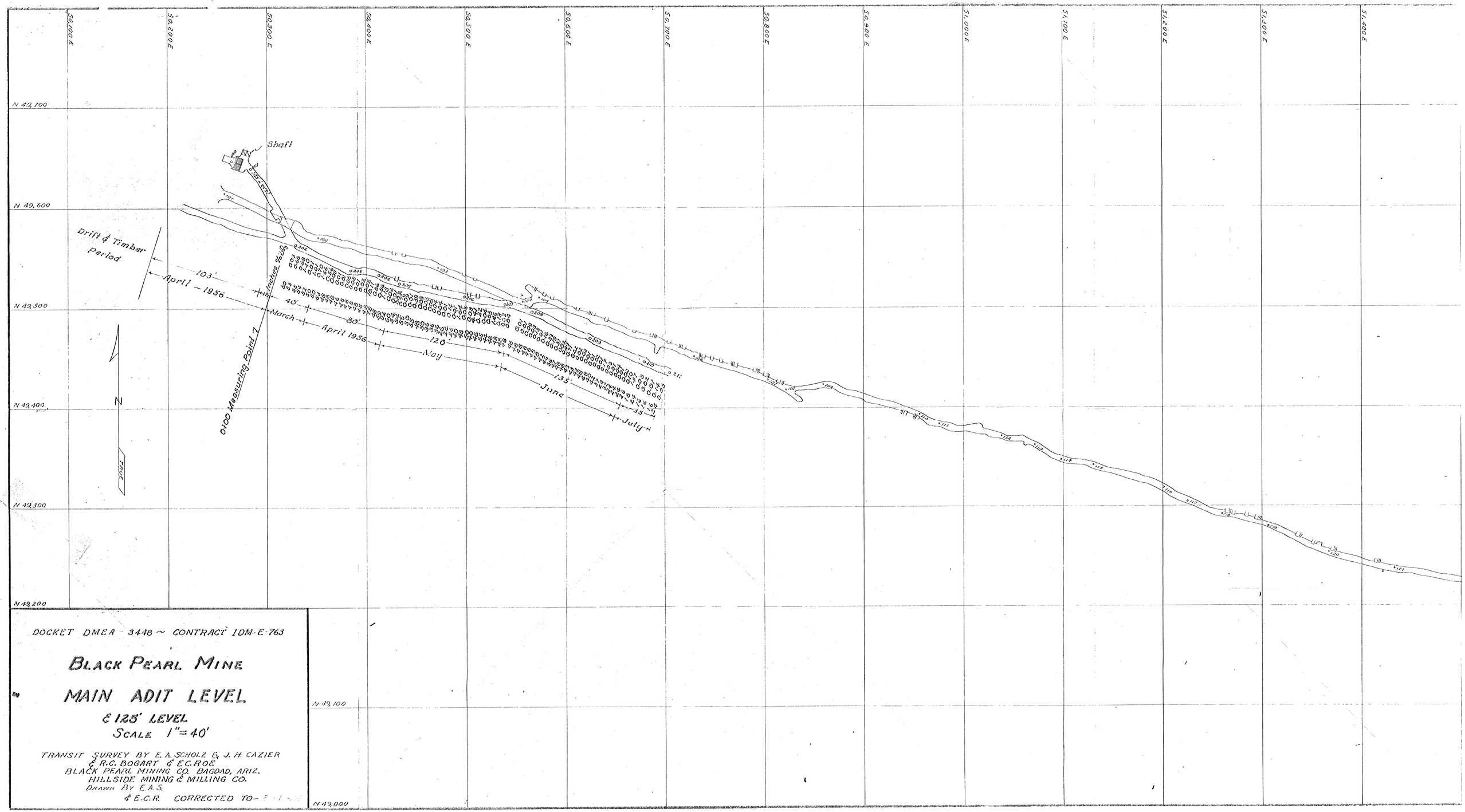
Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported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

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

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

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

GPO 83-38476



DOCKET DMEA - 3448 ~ CONTRACT IDM-E-763

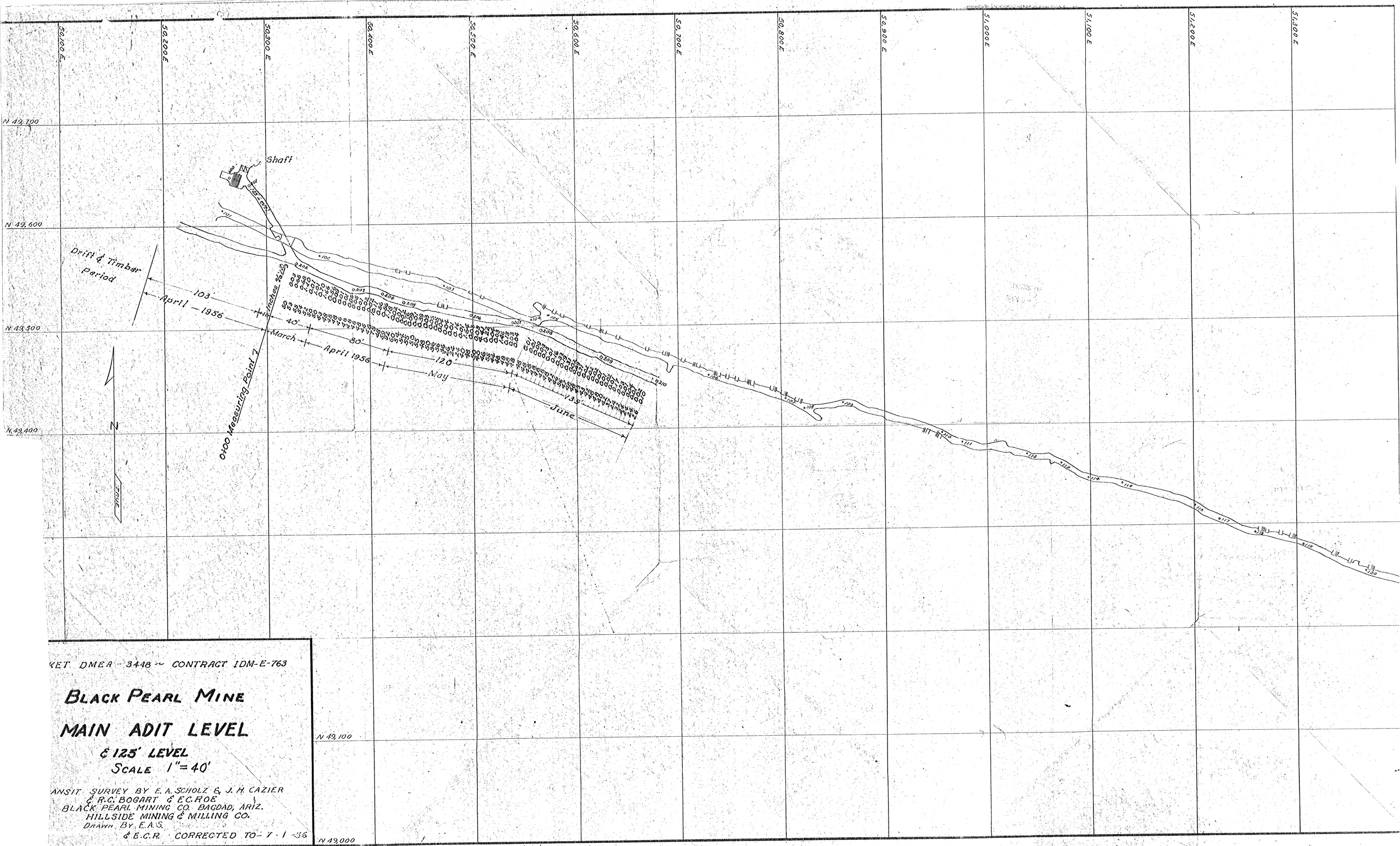
BLACK PEARL MINE

MAIN ADIT LEVEL

& 125' LEVEL

SCALE 1" = 40'

TRANSIT SURVEY BY E.A. SCHOLZ & J.H. CAZIER
& R.C. BOGART & E.C. ROE
BLACK PEARL MINING CO. BAGDAD, ARIZ.
HILLSIDE MINING & MILLING CO.
DRAWN BY E.A.S.
& E.C.R. CORRECTED TO-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N 49,100
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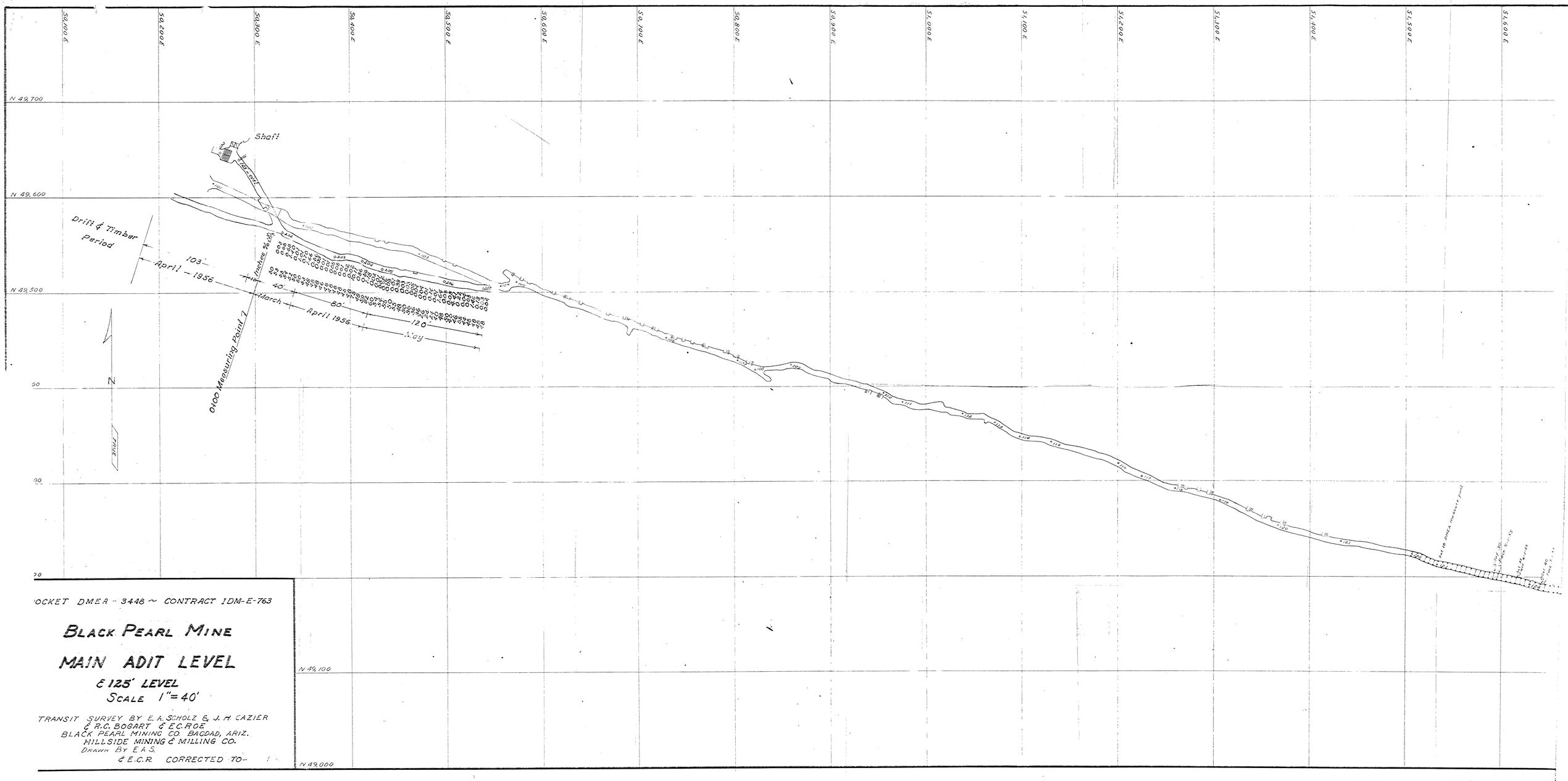
Shaft
Drift & Timber Period
103'
April – 1956
Inches %125
40'
March
80'
April 1956
120'
May
135'
June
0+00 Measuring Point 7
N
TRUE
KET DMEA – 3448 ~ CONTRACT IDM-E-763
BLACK PEARL MINE
MAIN ADIT LEVEL
℄ 125' LEVEL
SCALE 1" = 40'
ANSIT SURVEY BY E. A. SCHOLZ & J. H. CAZIER
& R.C. BOGART & E.C. ROE
BLACK PEARL MINING CO. BAGDAD, ARIZ.
HILLSIDE MINING & MILLING CO.
DRAWN BY E.A.S.
& E.C.R. CORRECTED TO – 7 · 1 · 56



OCKET DMEA - 3448 ~ CONTRACT IDM-E-763

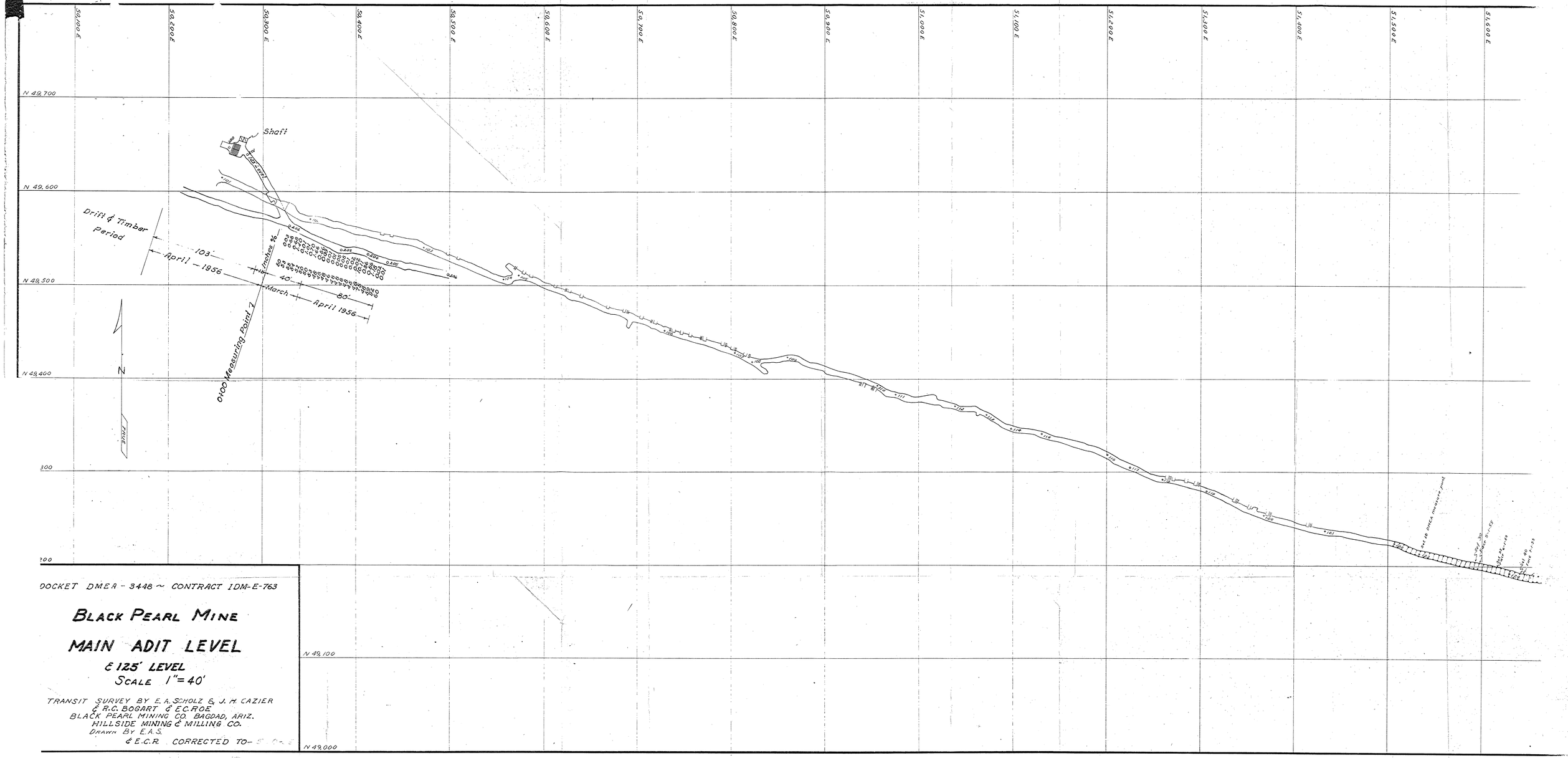
BLACK PEARL MINE

MAIN ADIT LEVEL

℄ 125' LEVEL

SCALE 1" = 40'

TRANSIT SURVEY BY E.A. SCHOLZ & J.H. CAZIER
& R.C. BOGART & E.C. ROE
BLACK PEARL MINING CO. BAGDAD, ARIZ.
HILLSIDE MINING & MILLING CO.
DRAWN BY E.A.S.
& E.C.R. CORRECTED TO- 1 -



DOCKET DMEA - 3448 ~ CONTRACT IDM-E-763

BLACK PEARL MINE

MAIN ADIT LEVEL

℄ 125' LEVEL

SCALE 1" = 40'

TRANSIT SURVEY BY E. A. SCHOLZ & J. H. CAZIER
& R.C. BOGART & E.C. ROE
BLACK PEARL MINING CO. BAGDAD, ARIZ.
HILLSIDE MINING & MILLING CO.
DRAWN BY E.A.S.
& E.C.R. CORRECTED TO- [illegible]

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Set 18 DMEA measure point
Set 55
Face 6-1-55
BLACK PEARL MINE
MAIN ADIT LEVEL
SCALE 1" = 40'
TRANSIT SURVEY BY E. A. SCHOLZ & J. H. CAZIER
BLACK PEARL MINING CO. BAGDAD, ARIZ.
DRAWN BY E.A.S. CORRECT TO 6-1-55