DEFENSE MINERALS EXPLORATION ADMINISTRATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

REPORT OF REVIEW

I have reviewed the Monthly Reports of:

Ozark-Mahoning Company

Rosiclare, Illinois

pertaining to Exploration Project Contract No. Idm-2515, Docket No. DMEA-3644, including Amendment No. 1, for the months of August 1955, to January 1956, inclusive, covering a project for the exploration of lead and zinc on property, known as the Joiner-Fox Tract located in Pope County, Illinois.

My review included an examination of the Monthly Reports (Forms MF-104) and supporting documents attached thereto, comparison of the costs claimed with the contract and pertinent schedules, verification of work performed by reference to copies of drill logs and the Field Team's reports, and a determination of the reasonableness and propriety of the costs.

This review was made in lieu of a final audit of the Operator's accounts and records for the following reason:

all of the costs incurred were under a contract provision for payment by the Government on the basis of fixed unit costs of work actually performed.

The review disclosed the following facts in regard to the amount paid or to be paid the contractor:

Total cost as billed by Contractor		$14,052.90
Exceptions:		
By DMEA Finance Officer	$ -0-	
Herewith	-0-	-0-
Total Accepted Cost		$14,052.90

The contract calls for a 50 percent participation of exploration expenses by the United States Government. Therefore, payment to the contractor by the Government in the amount of Seven thousand twenty-six and 45/100 Dollars

$7,026.45

is considered valid and proper, provided that the Regional Executive Officer, the Administrator, or other competent official has accepted or will accept the project as having otherwise met the terms of the contract.

E. D. Talbert

E. D. Talbert, Auditor

March 9, 1956

MAR 2 9 1956

Mr. Robert A. Laurence
Executive Officer
DMEA Field Team, Region V
Room 13, Post Office Building
Knoxville 2, Tennessee

Dear Mr. Laurence:

Enclosed are the original and two copies of Reports of Review covering the following completed or terminated Exploration Project Contracts:

Contract No.	Docket No.	Operator
Idm-F816	DMEA-3644	Ozark-Mahoning Company
Idm-F881	DMEA-3926	Branch Mining Company

If you concur with the facts stated therein, the original and one copy of each Report of Review should be forwarded to the Certifying Officer and one copy of each should be retained in your files. If, for any reason, a Report of Review does not have your concurrence please return all copies thereof to this Division.

Copies of Field Team reports received in this office have provided a means of verification for the work performed under unit costs provisions of the contracts.

Sincerely yours,

(Signed) J. L. Chambers

Jay L. Chambers, Chief
Contract Administration
and Audit Division

Enclosures

EDTalbert/ama
March 29, 1956
Copy to: Docket
Admr. Reading File
Helen Miller
Mr. Chambers

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

PAID ON VOUCHER & SCHEDULE OF PAYMENTS K-

OPERATOR'S MONTHLY REPORT AND VOUCHER

RECEIVED MAR - 0 1956

Month of January, 1956 Docket No. DMEA 3644 Contract No. Idm-E818
Operator's Name Ozark-Mahoning Company Minerals Fluorspar
Address Rosiclare, Illinois
Contract Amount, $33,360.00 Government Participation: 50 % Amount, $16,680.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling Diamond	2337.98	11714.92	14052.90			
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	2337.98	11714.92	14052.90	2337.98	11,714.92	14,052.90

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

Date Feb. 6, 1956 *Payee OZARK-MAHONING COMPANY

Per A. M. Greenberg Title Assistant Secretary

*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:

$1168.99

Signature Helen R. Miller (Authorized Certifying Officer)

Date MAR 2 1956 Vou. No.

(See other side)

T. 2-5

(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. E818 in accordance with the terms of the contract.

Signature [illegible] Burmeister Title Mining Engr. Date 2/14/56

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

EXECUTIVE OFFICER FEB 29 1956

Signature Robert A. Laurence Title DMEA REGION V Date

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED
MAR - 0 1956

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of January 1956 Docket No. DMEA 3644 Contract No. Idm-E818
Operator's Name OZARK-MAHONING COMPANY Minerals Fluorspar
Address Rosiclare, Illinois

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	2.78	2337.98	841	14052.90	5055		12000	2.78
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		2337.98	841	14052.90				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 Feb. 6, 1956 Operator OZARK-MAHONING COMPANY

Per A. M. Spoerberg Title Assistant Secretary

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)

W. R. Burmeister
Mining Engr. 2/14/56

INSTRUCTIONS

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

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

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

GPO 872894

SUPPLEMENTAL SHEET

JANUARY 1956

B. E. JOINER ET AL

POPE COUNTY, ILLINOIS

Status of Holes

Hole No. 11	Comp. 1-19-56	Depth 457'	Prev. Rep. - None	Bal.	457 Ft.
Hole No. 12	Comp. 2- 4-56	Depth 384'	Prev. Rep. - None	Bal.	384 "
			Total Footage		841 Ft.

Attached hereto are logs of diamond drill holes No. 11 and 12. Hole No. 11 was drilled to cut Structure C. From 323 - 325 feet the zone was cut, showing lime and calcite with traces of spar and barite. Hole No. 12 was drilled to cut Structure A. A fault was cut from 268 - 269 feet, showing good zinc and lead, with some spar and shale.

Drilling has been discontinued and a final report is included. To this report is attached 50 ft. scale map, 400 ft. scale map as well as cross-sections of all holes drilled.

OZARK-MAS MINE COMPANY

B. E. Joiner et al
Diamond Drill Hole No. 11
Elevation: 459.6
Location: 728' north and 199' west of the SE Cor. of the NW¼ of the NE¼ of Sec. 27 T-12-S, R-7-E, Pope County, Illinois

Started: 1-4-56
Finished: 1-19-56

Little Water at 80 feet

Angle: 50° Bearing: N 62° 45' W
Drilled by: J. F. Baldwin Est. 130 feet - Lawrence Barkan 327 feet
Examined by: William H. Melcher

0-18	Surface
18-21	Oxidized sand BX Core
21-63	Gray sand and shaly partings
63-173	White sand 6-8 spar and barite seams 77-112
173-185	Gray sand, few shale seams
185-187	Gray shale, few sand lenses BB 187
187-198	Gray shale, lime lenses
198-211	Gray fossiliferous shale, lime streaks
211-239	Gray fossiliferous lime
239-244	Green and maroon shale
244-255	Dense brown lime
255-276	Gray shale & lime lenses
276-313	Black fossiliferous shale
313-323	Dense brown lime, few shale seams, calcite stringers
323-325	Gray crystalline lime, calcite stringers, trace spar & barite
325-335	Dense brown lime, few shale seams
335-345	White oolitic lime
345-388	Mesiclare sand and calcareous streaks
388-395	Mesiclare sand & calcareous streaks, calcite seam 394, small fault
395-457	Dense light gray lime, few calcite seams and shale partings

RECEIVED

OZARK-MAHONING COMPANY

A. E. JOINER ET AL
Diamond Drill Hole No. 12
Elevation: 475.9
Location: 857' north and 139' west of the SE Cor. of the SW¼ of the NE¼ of Sec. 27, T-12-S, R-7-E, Pope County, Illinois
Angle: 50° Bearing: S 53° 30' E
Drilled by: Lawrence Barkus
Examined by: W. K. Malsher

Started: 1-24-56
Finished: 2-1-56

Water at 105
Lost Water at 219

0-13	Surface
13-21	Oxidized sand BX Core
21-74	Gray sand and shale seams
74-179	White sand EB 179
179-193	Gray shale, lime lenses
193-196	Fossiliferous gray shale and lime lenses
196-224	Gray fossiliferous lime, few shale seams 1' shale seam at 219'
224-231	Green and maroon shale
231-240	Brown to gray lime
240-252	Gray shale
252-256	Gray lime
256-268	Black fossiliferous shale
268-269	Good spar, lead and zinc, some shale. Fault
269-293	Fossiliferous sand. Calc. veinlets 270 and 278
293-303	Gray lime, slightly oolitic
303-311	Dense gray lime, few fossils. Calc. stringers
311-312	Calcite vein, trace spar
312-352	Gray lime
352-352½	Gray shale
352-360	Gray fossiliferous lime, calc. stringers
360-367	Brown oolitic lime, trace zinc 367
367-384	White oily oolitic lime

RECEIVED
MAR - 9 1956

xxxxxxxxxxxxxxxxxx
College Park, Maryland

February 15, 1956

Memorandum

To: V. J. Lynch, Bureau Member, DMEA Field Team, Region V

From: H. L. Burmeister, Bureau of Mines, College Park, Maryland

Subject: Docket DMEA 3644, Contract Idm-E818 (fluorspar, lead, zinc)
Ozark-Mahoning Company, Joiner - Foe Tract, Pope County, Ill.
Monthly Progress Report for the period Jan. 1 through
Feb. 4, 1956

Transmitted herewith are the original and three copies of the subject report which I have checked. Attached to each report is a copy of the Operator's covering letter stating that exploration was stopped Feb. 4, 1956 and indicating that this will be the last Monthly Progress Report.

A total of 12 holes have been diamond drilled for an aggregate of 5055 feet at a cost of $14,052.90.

H. L. Burmeister

Enclosures

Ozark-Mahoning Company

Mahoning Mining Division
Rosiclare, Illinois

RECEIVED
MAR - 9 1956

February 7, 1956

Mr. H. L. Burmeister
Mine Examination & Exploration Engineer
U. S. Department of the Interior
Defense Minerals Exploration Administration
College Park, Maryland

Dear Mr. Burmeister:

Re: DMEA-3644 Fluorspar-Lead-Zinc
Contract No. Idm-E818
Joiner - Foe Tract
Pope County, Illinois

I enclose herewith five copies of Form MF-104A as well as five copies of Form MF-104 to which is attached a supplemental sheet and drill logs, No. 11 and 12. This summary covers the work from January 1, 1956 through February 4, 1956.

Inasmuch as we have discontinued drilling operations on the property due to unfavorable results along the main structure, we are also enclosing five copies of a final report dated February 6, 1956 to which are attached various maps. As stated in the last paragraph of this report, we will be happy to review the results with your office should you see fit to do so.

Very truly yours,

OZARK-MAHONING COMPANY
Mahoning Mining Division

A. G. Johnson

AGJ/blc

Enclosures

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

RECEIVED
JAN 13 1955

Month of December 5 1955 Docket No. DMEA 3644 Contract No. Idm-E818
Operator's Name Ozark-Mahoning Company Minerals Fluorspar
Address Rosiclare, Illinois
Contract Amount, $ 33,360.00 Government Participation: 50 % Amount, $ 16,680.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts: Diamond	1668.00	10046.92	11714.92			
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	1668.00	10046.92	11714.92	1668.00	10046.92	11714.92

I certify that the above bill is correct and just and that payment therefor has not been received.
Date Jan. 4, 1956 *Payee OZARK-MAHONING COMPANY
Per A. M. Spesberg Title Assistant Secretary

*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:

$ 834.00

Signature Helen R. Miller
(Authorized Certifying Officer)

Date JAN 11 1956 Vou. No. 67

(See other side)

5

834.00

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. Idm. E-818 in accordance with the terms of the contract.

Signature N. L. Burmeister Title Mining Eng'r. Date 1/6/56

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature V. J. Lynch ACTING Title EXECUTIVE OFFICER DMEA REGION V Date JAN 9 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;

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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.

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 13 1956

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of December 1955 Docket No. DMEA 3044 Contract No. Ion-118
Operator's Name Ozark-Mahoning Company Minerals Fluorspar
Address Rosiclare, Illinois

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core	2.78	1668.00	600	11714.92	1214		12000	2.78
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		1668.00	600	11714.92				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 Jan. 4, 1956 Operator OZARK-MAHONING COMPANY

Per A. M. Sperberg Title Assistant Secretary

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)

H. A. Burmeister
Mining Engr.

INSTRUCTIONS

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

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

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

GPO 872894

RECEIVED
JAN 13 1956

xxxxxxxxxxxxxxxx
College Park, Maryland

January 6, 1956

Mr. E. A. Brecke
Ozark-Mahoning Company
Mahoning Mining Division
Rosiclare, Illinois

Re: Docket IMA 3044 (Fluorspar)
Contract IBm-1618

Dear Mr. Brecke:

We have received your report of exploration for the month of December.

In your report for September it is stated on the Supplemental Sheet that drill hole No. 1 is on fault "A", which is a major structure. We have carried on this sequence and mentioned it at the time Mr. Amos and I called at your office.

The Supplemental Sheet of the December report states, however, that drill hole No. 10 was drilled on Structure "A". In the interest of uniformity it might be well to carry on as started in the September report: namely, holes No. 1 and No. 10 are on structure "A" and holes 3 and 11 on structure "B".

The location on hole 11 appears to be well chosen to minimize moving costs and footage to be drilled.

Very truly yours,

J. L. Burmeister
Mine Examination and
Exploration Engineer

cc: VJLynch
✓December report (4)
Sta. files

RECEIVED
JAN 9 1956
U. S. BUREAU OF MINES
DEF. MIN. ADM.
Knoxville, Tennessee

SUPPLEMENTAL SHEET

DECEMBER 1955

B. E. JOINER ET AL

POPE COUNTY, ILLINOIS

Status of Holes

Hole No. 9	Comp. 12-12-55	Depth 422	Prev. Report 200		Balance	222
Hole No. 10	" 12-31-55	Depth 378	No Prev. Report			378
Total Footage						600

Attached hereto are logs of diamond drill holes No. 9 and 10. We also attach a 50' scale map and vertical sections showing holes 1 through 10. No. 9 hole showed nothing of interest so No. 10 was drilled on Structure B of the contract.

No. 11 hole will be drilled from location indicated on the enclosed plat. This location is different from the approved location because we find that we will save moving time and since we are drilling from the hanging wall side will save footage and intersect the structure at a more favorable angle.

OZARK-MARIN COMPANY

R. P. Joiner et al
Diamond Drill Hole No. 9
Elevation: 384.4
Location: 1254 north and 2216 west of the SE Cor. of the NW¼ of the NW¼ of Sec. 27, T 12 S, R 7 E, Pope County, Illinois

Started: 11-22-55
Finished: 12-12-55

Little Water at 88'

Angle: 50° Bearing: S 62° E
Drilled by: J. S. Baldwin Est.
Examined by: Wm. H. Melcher

0-29	Surface
29-47	White sand, highly oxidized BI caps
47-61	Gray sand & shaly conglomerate
61-99	Gray sand & shaly partings
99-182	White sand
182-190	Gray sand & shaly partings
190-213	White sand
213-216	Calcareous sand BB #16
216-229	Gray shale
229-233	Green and maroon shale
233-279	Gray to brown fossiliferous lime, shaly partings - 1" barite 255'
279-298	Green and maroon shale, few lime lenses
298-313	Black fossiliferous shale
313-325	Brown fossiliferous lime
325-356	Dense brown lime
356-370	Oolitic lime
370-398	Mesialara sand
398-422	Dense light brown lime

CLARK-MARONITE COMPANY

W. F. Joiner et al
Diamond Drill Hole No. 10
Elevation: 447.6
Location: 576 feet north and 300 feet west of the SE Cor. of the NW¼ of the NE¼ of Sec. 27, T 12 S, R 7 E, Pope County, Illinois
Angle: 90° Bearing: S 61° 30' E
Drilled by: J. S. Baldwin Est.
Examined by: William H. Melcher

Started: 12-16-55
Finished: 12-31-55

Little Water at 90'
Lost Water at 210'
Cemented 212 - 230

0-15	Surface
15-27	Oxidized sand. BX Core to 18'
27-72	Gray sand & shaly partings
72-174	White sand. BB 174
174-187	Gray shale & lime lenses
187-197	Gray fossiliferous shale and lime
197-215	Dense brown lime. Calc. stringers 205, 207 and 214
215-223	Gray shale
223-227	Gray crystalline lime
227-233	Green shale
233-243	Dense brown oolitic lime
243-278	Black fossiliferous shale, few lime lenses
278-282½	Brown lime, few shale seams
282½-284	Calcite, acid spar, Pb and Zn shines - Fault
284-288	Brown lime, trace spar
288-291	Dense brown sandy lime
291-303	Lower O'Rave
303-322	Rosiclare sand
322-324	Rosiclare sand, calcite, trace spar, Pb, Zn & barite - Fault
324-327	Dense light brown lime. 1 ft. calc 324½
327-360	Light brown to gray lime
360-362	Gray shale
362-369	Dense light brown lime
369-373	Brown oolitic lime
373-378	White oily oolitic lime, calc. stringers, trace spar 373

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

PAID ON VOUCHER & SCHEDULE
PAYMENTS K-2

OPERATOR'S MONTHLY REPORT AND VOUCHER

RECEIVED
DEC 19 1955

Month of November, 1955 Docket No. DMEA 3644 Contract No. Idm-E818
Operator's Name Ozark-Mahoning Company Minerals Fluorspar
Address Rosiclare, Illinois
Contract Amount, $ 33,360.00 Government Participation: 50 % Amount, $ 16,680.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling Diamond	2429.72	7617.20	10046.92			
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	2429.72	7617.20	10046.92	2429.72	7617.20	10,046.92

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

Date 12-6-55 *Payee OZARK-MAHONING COMPANY

Per A. M. Spesberg Title Assistant Secretary

*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)

121486

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

$ 12146.86

Signature Helen R. Miller
(Authorized Certifying Officer)

Date DEC 15 1955 Vou. No. 35

(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 818 in accordance with the terms of the contract.

Signature R. H. Burmeister Title Mining Engr. Date 12/9/55

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Robert A. Lawrence Title EXECUTIVE OFFICER DMEA REGION V Date DEC 14 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 872893

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

RECEIVED
DEC 10 1955

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

Month of November 1955 Docket No. DMEA 3644 Contract No. Icm-E618
Operator's Name Ozark-Mahoning Company Minerals Fluorspar
Address Rosiclare, Illinois

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								
Winzee								
Drilling: Core	2.78	2429.72	874	10046.92	3614		12000	2.78
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		2429.72	874	10046.92				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 12-6-55 Operator OZARK-MAHONING COMPANY

Per A. M. Sperberg Title Assistant Secretary

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:

(For Government use only)

H. A. Burmeister

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

SUPPLEMENTAL SHEET

NOVEMBER 1955

B. E. JOINER ET AL

POPE COUNTY, ILLINOIS

Status of Holes

Hole #7	Comp. 11-5-55	Depth 467'	Prev. Rep. 200'	Bal.	267'
Hole #8	Comp. 11-18-55	Depth 407'	Prev. Rep. None	Bal.	407'
Hole #9	Drilling 11-30-55			Dep.	200'
Total Footage					874'

Attached hereto are logs of diamond drill holes No. 7 and 8. There is also attached hereto a 50 ft. scale map of the property showing the location of all completed holes as well as hole now drilling. In addition thereto, a vertical section is attached covering holes No. 5, 6, 7, 8 and 9. Results continue discouraging. Unless a change occurs in No. 9, we expect to move the rig to the main structure, moving approximately 200 ft. northeast of No. 1 hole.

Mr. Lawrence, in a letter dated November 18th, called our attention to a discrepancy in the October report. The Supplemental Sheet shows No. 7 at a depth of 240 ft. The correct footage was 200 ft. Therefore, the 959 foot total as shown on both the Supplemental Sheet as well as Forms 104 and 104-A is correct.

OZARK-MAHONING COMPANY

DEC 1 0 1955

B. E. Joiner et al
Diamond Drill Hole #8
Elevation: 480.9
Location: 1156' north & 1993' west of the SE Cor. of the NW¼ of the NE¼ of Sec. 27, T 12 S, R 7 E, Pope County, Illinois
Angle: 50° Bearing: S 64° E
Drilled by: J. S. Baldwin
Examined by: W. H. Walther

Started: 11-8-55
Finished: 11-18-55

Little Water at 86'

0-28	Surface
28-45	Oxidized sand, BX Core
45-86	Broken sand & shale partings, calc. stringer at 81 ft.
86-160	White sand, barite slip at 127 ft.
160-175	Gray sand and shale partings
175-201	White sand
201-204.5	Calcareous sand, BB 204.5
204.5-220	Gray shale
220-227	Gray shale, lime lenses
227-264	Brown crystalline & oolitic lime, shale streaks
264-288	Maroon and green shale, little gray lime
288-311	Black fossiliferous shale
311-327	Dark brown lime, few shaly streaks
327-336	Brown silty lime
336-357	Brown to gray oolitic lime.
357-368	Fossiliferous sand 364-385 Calcareous sand
368-389	Brown oolitic lime
389-407	Dense gray lime, few calc. stringers

OZARK-PARKING COMPANY

W. E. Joiner et al
Diamond Drill Hole No. 7
Elevation: 450.1
Location: 3024' north and 1763' west
of the SE Cor. of the NW¼
of the NE¼ of Sec. 27,
T-12-S, R-7-E, Pope County,
Illinois
Angle: 90° Bearing: S 63° E
Drilled by: J. S. Baldwin
Examined by: W. H. Melcher

Started: 10-24-55
Finished: 11-5-55

Water at 120'
Lost water at 146'

0-11	Surface
11-21	White sand, slightly oxidized Ex Core
21-66	Cypress sand, slightly oxidized
66-127	Gray sand and shale partings, Paint Creek
127-190	White sand, barite slip 158'
190-209	Green sand and shale partings
209-240	White sand, BM 240
240-241	Fossiliferous lime
241-258	Gray shale & maroon shale
258-263	Brown fossiliferous lime, shale partings
263-284	Gray lime, slightly oolitic
284-288	Brown fossiliferous shaly lime
288-304	Brown to gray crystalline lime, slightly oolitic
304-311	Dense dark brown lime, few shale seams
311-322	Gray and maroon shale
322-341	Black fossiliferous shale, few lime lenses
341-365	Brown crystalline and fossiliferous lime, few shale seams
365-375	Brown to gray oily oolitic lime
375-400	White oily oolitic lime, lower O'Hara
400-425.5	Fosialare sand
425.5-439	White oolitic lime
439-467	Dense light brown lime

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

PAID ON VOUCHER & SCHEDULE
PAYMENTS [illegible]

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of October, 1955 Docket No. DMEA 364 Contract No. [illegible]
Operator's Name Ozark-Mahoning Company Minerals Fluorspar
Address Dogtclare, Illinois
Contract Amount, $ 33,360.00 Government Participation: 50 % Amount, $ 16,660.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling Diamond	2666.02		7617.20			
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	2666.02		7617.20	2666.02	4951.18	7617.20

I certify that the above bill is correct and just and that payment therefor has not been received.
Date Nov. 7, 1955 *Payee Ozark-Mahoning Company
Per A. M. Sperberg Title Assistant Secretary

*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 willful 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:
$ 1333.01
Signature Helen R. Miller
(Authorized Certifying Officer)
Date NOV 21 1955 Vou. No. 113
(See other side)

RECEIVED
NOV 23 1955

3

1333.01

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. Idm-E 818 in accordance with the terms of the contract.

Signature H. W. Burmeister Title Mining Engr. Date Nov. 14, 1955

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Robert A. Laurence Title EXECUTIVE OFFICER DMEA REGION V Date NOV 18 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

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of October 1955 Docket No. DMEA 3644 Contract No. Idm-E818
Operator's Name Ozark-Mahoning Company Minerals Fluorspar
Address Rosiclare, Illinois

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	2.78	2666.02	959	7617.20	2740		12000	2.78
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
Total Distributed Costs		2666.02	959	7617.20				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 Nov. 7, 1955 Operator OZARK-MAHONING COMPANY

Per A. M. Sperberg Title Assistant Secretary

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)

RECEIVED
NOV 23 1955

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
ROOM 25 POST OFFICE BLDG.
KNOXVILLE 2, TENN.

November 18, 1955

Ozark-Mahoning Company
Mahoning Mining Division
Rosiclare, Illinois

Re: Idm-2818, DMEA-364h (Fluorspar)
Joiner-Fee Tract, Pope County, Ill.

Gentlemen:

Apparently there is an error in the addition of footage drilled on subject contract during the month of October. On the supplemental sheet attached to forms 104 and 104A for October the sum of the total footage should be 999 feet rather than 959 feet as shown and only a total of 959 feet is claimed on the October voucher.

The voucher will be passed for payment without change and if the total footage for the month should have been 999 feet, you may make the correction on the November voucher.

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

VJL/sm

cc:
Finance Office
Lynch
Miller
Files

RECEIVED
NOV 23 1955

November 7, 1955

SUPPLEMENTAL SHEET

OCTOBER 1955

B. E. JOINER ET AL

POPE COUNTY, ILLINOIS

Status of Holes:

Hole No. 5	Completed 10-8-55.	Dep. 400'	Prev. Rep. 100'	Bal. 300'
Hole No. 6	Completed 10-21-55.	Dep. 459'	Prev. Rep. None	Bal. 459'
Hole No. 7	Drilling 10-31-55			Dep. 240'
Total Footage				959'

999'
1143.

Attached hereto are logs of diamond drill holes No. 5 and 6. A 50' scale map is also included showing the location of Holes No. 1-7, inclusive. There is also attached hereto a vertical section showing Holes No. 5, 6 and 7. Hole No. 7 was finished after the first of the month and is shown on the cross-section as a completed hole. Because of the greater than normal difference in elevation of the Bethel and Rosiclare contacts in No. 6 and 7, we have projected a probable fault as shown on the cross-section. There was no mineralization or broken ground in either 6 or 7 to indicate a structure had been cut.

We are continuing with the crosscut to the northwest. We believe that one or two holes at the most will complete this phase of the project. So far, results have been disappointing.

OZARK-MAHONING COMPANY

B. K. Joiner et al
Diamond Drill Hole No. 5
Elevation: 436.1
Location: 790' north and 1255' west of the SE cor. of the NW¼ of the NE¼ of Sec. 27 T 12 S, R 7 E, Pope County, Illinois

Started: 9-28-55
Finished: 10-8-55

Strong Water at 135'

Angle: 50° Bearing: S 65° E
Drilled by: J. S. Baldwin
Examined by: W. H. Melcher

0-17	Surface
17-24	Oxidized sand. BX core
24-54	Gray sand, shaly partings
54-134	White sand
134-142	Gray sand, shaly partings
142-163	White sand
163-174	Gray sand, shaly partings. BP 174
174-178	Gray to green shale, lime lenses
178-187	Gray and maroon shale
187-189	Gray shale
189-197	Gray fossiliferous shale and lime lenses
197-211	Brown crystalline lime
211-218	Gray fossiliferous shale
218-222	Black shale
222-232	Brown oolitic lime
232-245	Gray shale, lime lenses
245-250	Gray and maroon shale
250-270	Black fossiliferous shale
270-291	Brown crystalline lime, shale partings
291-318	Oolitic lime, lower 4' bare
318-359½	Rosiclare sand 256-257 oolitic lime BP 359½
359½-400	Dense little brown lime

TAPE-MAPPING COMPANY

B. E. Joiner et al
Diamond Drill Hole No. 6
Elevation: 467.8
Location: 916' north and 1528' west of the S. Cor. of the NW¼ of the NE¼ of Sec. 27, T 12 S, R 7 E, Pope County, Illinois
Angle: 50° Bearing S 65° E
Drilled by: J. E. Baldwin
Examined by: W. M. Meigher

Started: 10-11-55
Finished: 10-21-55

Little water at 170

0-10	Surface
10-20	Oxidized sand DX Core
20-65	White sand, slightly oxidized
65-125	Gray sand, shaly partings
125-231	White sand
231-236	Gray sand
236-237	Gray sand, shaly partings. BR 237
237-251	Gray and maroon shale, few lime lenses
251-287	Gray fossiliferous lime, few shale seams
287-309	Dense gray lime, few shale seams
309-335	Dark fossiliferous shale, few lime lenses
335-359	Brown crystalline lime
359-371	Gray oolitic lime, few shale seams
371-384	White oolitic lime, lower O'Hara
384-411	Rosiclare sand
411-415	Sandy oolitic lime
415-422	Rosiclare sand BR 422
422-450	Dense gray lime
450-451	Gray oolitic lime
451-459	Gray crystalline lime

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

PAID ON VOUCHER & SCHEDULE
PAYMENTS K- 28

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of September, 1955 Docket No. DMEA 26th RECEIVED Contract No. 100-1618
Operator's Name Grant-Laboring Company Minerals Fluorspar
Address Rosiclare, Illinois OCT 17 1955
Contract Amount, $33,360.00 Government Participation: 50 % Amount, $ 16,680.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling Diamond	2212.88		1951.18			
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	2212.88		1951.18	2212.88	2738.30	4951.18

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

Date Oct. 6, 1955 *Payee GRANT-LABORING COMPANY

Per A. M. Sperberg Title Assistant Secretary

*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:

$ 1106.44

Signature Helen R. Mull
(Authorized Certifying Officer)

Date OCT 13 1955 Vou. No.

(See other side)

1106.44

(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. Dmx 818 in accordance with the terms of the contract.

Signature L. Beuemann Title Mining Eng. Date 10/10/55

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature V. J. Lynch Title Acting Executive Officer Date 10/13/55

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 17 1955

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of Sept. 195 5 Docket No. DMEA 3644 Contract No. 1[illegible]-1818
Operator's Name Ozark-Mahoning Company Minerals Fluorspar
Address Dongolora, Illinois

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	2.78	2212.68	796	1951.10	1781		12000	2.78
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		2212.68	796	1951.10				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 Oct. 6, 1955 Operator OZARK-MAHONING COMPANY

Per A. M. Sperberg Title Assistant Secretary

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)

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

October 6, 1955

SUPPLEMENTAL SHEET
SEPTEMBER 1955

B. E. JOINER ET AL
POPE COUNTY, ILLINOIS

Status of Holes:

Hole No. 3	Completed 9-9-55	Depth 437	Prev. Rep. 155'	Bal.	282'
Hole No. 4	Completed 9-26-55	Depth 414	Prev. Rep. None	Bal.	414'
Hole No. 5	Drilling				100'
Total Footage					796'

Attached hereto are logs of Diamond Drill Holes No. 3 and 4. There is also included a 50' scale map showing the location of all holes drilled to date and drilling as well as a vertical cross-section of same. Three faults have been cut, A, B and C. Fault A is the major structure. In order to properly check the mineral possibilities of this structure, it will be necessary later on to drill a hole which will cut the vein at a depth of about 80' below the point at which it was cut in drill hole No. 1. Fault C appears to be a minor structure. The mineralization in this hole from 346.5 - 349 was largely barite with minor amounts of spar and calcite. Fault B is also a minor structure and was not mineralized.

OZARK-MAHONING COMPANY

B. W. Joiner et al 80 Acres
Diamond Drill Hole No. 3
Elevation: 477.4
Location: 580' north and 802' west of the SE Cor. of the NW¼ of the NE¼ of Sec. 27, T 12 S, R 7 W, Pope County, Illinois

Started: 8-29-55
Finished: 9-9-55

Water at 155

Angle: 90° Bearing: S 65° E
Drilled by: J. S. Baldwin
Examined by: W. H. Melcher

0-30	Surface
30-35	Oxidized sand, NO core
35-97	Gray sand, shale partings
97-198	White sand
198-199	Coal
199-208	Gray sand, slightly broken BB 208
208-227	Green to grey calcareous shale
227-255	Brown lime, few shale streaks
255-260	Gray shale, little marcasite
260-270	Finely crystalline to oolitic brown lime
270-285	Dense brown lime, green and red shale streaks
285-318	Black fossiliferous shale, lime streaks, few calc. stringers
318-346.5	Dark crystalline lime
346.5-349	Vein - heavy barite, some galc. and acid spar
349-355	Dark brown oolitic lime, slightly leached & broken
355-355.5	Calc. and spar stringers
355.5-363	Dark oolitic lime
363-378	Lower O'Hara
378-422	Residuals sand
422-437	Dense gray lime

OZARK-PAHONINO COMPANY

D. E. Joiner et al 80 Acres
Diamond Drill Hole No. 4
Elevation: 443.7
Location: 691' North and 1886' West
of the SE Cor. of the NW¼
of the NE¼ of Sec. 27,
T 12 S, R 7 E, Pope County,
Illinois
Angle: 59° Bearing: S 64° E
Drilled by: J. E. Baldwin
Examined by: W. H. Melcher

Started: 9-15-55
Finished: 9-26-55

Strong Water at 130 ft.

0-12	Surface
12-20	Oxidized sand
20-22	Gray sand, few shale seams BY Core
22-47	Gray sand, few shale seams
47-134	White sand
134-137	Gray sand, shale seams
137-157	White sand
157-172	Gray sand, few shale seams BR 172
172-186	Black-green calcareous shale
186-191	Black fossiliferous shale, lime lenses
191-218	Light brown to gray crystalline lime, few shale streaks
218-221	Gray shale
221-248	Dense brown lime
248-256	Gray shale, few lime streaks
256-269	Black fossiliferous shale, lime streaks
269-272	Dark brown lime
272-309	Dark brown oolitic lime
309-326	Lt. brown oolitic lime, lower O'Hara
326-346	Rosiclare sand
346-352	Brown lime
352-368	Rosiclare sand, few lime streaks BR 368
368-414	Light brown to gray lime

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

PAID ON VOUCHER & SCHEDULE OF PAYMENTS

Budget Bureau No. 42-R1036.5

22
RECEIVED
SEP 19 1955

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

Month of August, 1955 Docket No. DMEA 3644 Contract No. Idm-E818
Operator's Name Ozark-Mahoning Company Minerals Fluorspar
Address Rosiclare, Illinois
Contract Amount, $33,360.00 Government Participation: 50 % Amount, $16,680.00

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling Diamond	2738.30		2738.30			
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	2738.30		2738.30	2738.30		2738.30

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

Date Sept. 2, 1955 *Payee OZARK-MAHONING COMPANY

Per A. M. Sperberg Title Assistant Secretary

*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:

$ 1369.15

Signature Helen R. Miller
(Authorized Certifying Officer)

Date SEP 15 1955 Vou. No. 60
(See other side)

5 7/21

1369.15

(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 818 in accordance with the terms of the contract.

Signature [illegible] Title Mining Eng. Date 9/12/55

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Robert A. Lawrence Title EXECUTIVE OFFICER, DMEA REGION V Date SEP 14 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
SEP 19 1955

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of August 1955 Docket No. DMEA 96-L Contract No. 16n-2010
Operator's Name Ozark-Mahoning Company Minerals Mercury
Address Cockfield, Illinois

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	2.78	2730.30	905	2730.30	905		12000	2.78
Churn								
Auger								
Stripping								
Trenching								
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS		2730.30	905	2730.30				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 Sept. 2, 1955 Operator OZARK-MAHONING COMPANY

Per A. M. Sperberg Title Assistant Secretary

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)

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

September 2, 1955

SUPPLEMENTAL SHEET

AUGUST 1955

JOINER-FOX TRACT

POPE COUNTY, ILLINOIS

Status of Holes

Hole No. 1 Completed 8-3-55	399
Hole No. 2 Completed 8-19-55	431
Hole No. 3 Drilling at 155 feet 8-31-55	155
	985

Attached hereto are logs of Diamond Drill Holes No. 1 and 2, also a 50' scale map and cross-section of these holes. The map and cross-section also show the location of hole #3 which is drilling at 155'.

Diamond Drill Hole No. 1 cut the fault zone from 268 - 269.5' as indicated by gouge and calcite. No mineralization was cut.

Diamond Drill Hole No. 2 failed to cut any faults and was barren.

Diamond Drill Hole No. 3 is drilling at 155' and is not deep enough to give any pertinent information.

TAMMAROND COMPANY

B. E. Joiner et al 80 Acres
Diamond Drill Hole No. 1
Elevation: 504.9
Location: 363' north and 357' west
of the SE cor. of the NW¼
of the NE¼ of Sec. 27
T 12 S, R 7 E, Pope County, Illinois
Angle: 50° Bearing S 65° E
Drilled by: J. S. Baldwin
Examined by: Wm. H. Belcher

Started: 7-21-55
Finished: 8-3-55

Little water @ 80'

0-11	Surface
11-20	White oxidized sand. 88 cors
20-34	White oxidized sand
34-48	Gray sand and shale seams
48-72	Gray oxidized sand, many shale seams
72-74.5	Opening sand filled, spar and barite stringers
74.5-122	Gray sand, shale seams
122-225	White sand
225-234	Gray sand
234-236	Gray shale, sand lenses, to 236
236-244	Gray shale, brown limestone lenses
244-247	Gray limestone
247-251	Green fossiliferous shale, limestone lenses
251-261	Gray fossiliferous limestone, few shale seams
261-268	Dense tan limestone
268-269.5	Black shale calc, pyrite and shale gouge, possible fault
269.5-275	Dark brown shale, few calc stringers
275-286	Brown limestone, few oily calc stringers
286-304	Brown limestone, few calc stringers
304-313	White oolitic limestone
313-316	Dense gray lime
316-347	Fossiliferous sand, calc and barite stringers
347-350	Gray shale, sand lenses
350-354	Mixed fossiliferous sand and oolitic lime, shale seams, to 354
354-379	Gray limestone, few shale seams, calc stringers
379-395	Dark gray limestone, few fossils, shale seams
395-399	Gray crystalline limestone

Note: Hole was reamed to 80 feet and then cemented to 107 feet.

CLARK-EARNING COMPANY

B. L. Joiner et al 80 Acre Tract
Diamond Drill Hole No. 2
Elevation: 491.3
Location: 474' North and 582' east of the SE Cor. of the NW¼ of the NE¼ of Sec. 27, T 12 S, R 7 W, Pope County, Illinois
Angle: 50° Bearing: S 65° E
Drilled by: J. C. Baldwin
Examined by: W. M. Melcher

Started: 5-6-55
Finished: 6-19-55

0-12	Surface
12-21	White oxidized sand B. Core
21-27	White oxidized sand
27-38	White oxidized sand, pyrite lenses
38-47	Gray sand, shale seams, pyrite nodules
47-95	Gray sand and shale seams, 5% ore
95-117	Gray sand and shale seams
117-126	Gray sand, few shale seams
126-174	White sand, 2 inch shale bed at 145'
174-188	White sand, 1 inch sand & barite breccia 186'
188-217½	White sand, coal slip, slicken sides 217.5'
217½-227½	Gray sand, few shale seams
227½-231	Gray shale, sand lenses BB 231
231-239	Gray shale and fossiliferous lime lenses
239-244	Gray to black fossiliferous shale, lime lenses
244-250	Gray fossiliferous lime and shale
250-263½	Light brown lime, few shale seams
263½-265	Gray shale
265-271	Gray lime, few shale seams
271-276	Maroon shale
276-287	Tense brown lime
287-295	Gray and maroon shale
295-306	Tense gray lime
306-332	Gray to black fossiliferous shale, crystalline lime lenses
332-353	Tense brown lime, oily calc. & barite stringers 336, 343 and 344
353-361	Oolitic lime
361-374	Dense tan lime, few shale seams
374-410	Fossiliferous sand
410-431	Gray lime, few shale seams, calc. stringers

September 1, 1955

Mr. G. L. Newman
Mine Examination & Exploration Engineer
U. S. Department of the Interior
Defense Minerals Exploration Administration
College Park, Maryland

Dear Mr. Newman:

Re: DMEA-3644 Fluorspar-Lead-Zinc
Contract No. Idm-5015
Joiner-Poe Tract
Pope County, Illinois

I enclose herewith five copies of Form MF-104 A and five copies of Form MF-104. Also there is attached to each a Supplemental Sheet, copies of logs, map and cross-section. This data covers work completed during August 1955.

Yours very truly,

OZARK-MAHONING COMPANY
Mahoning Mining Division

E. A. Brecke

E. A. Brecke

EAB/bln

Enclosures

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C. 600

SEP 2 1958

Ozark-Mahoning Company
Mahoning Mining Division
Benzielaro, Illinois

Re: Docket No. DMEA-3644-fluorspar, lead and zinc
Ozark-Mahoning Company
Joiner-Fox Trust
Pope County, Illinois
Contract No. IdM-8718

Gentlemen:

Reference is made to your terminated exploration contract with the Government.

We sincerely regret that the work performed did not result in a certification of discovery or development under the provisions of the contract. In the absence of such certification, the Government retains no claim or lien against the property subject to the contract or any future production thereafrom. We, therefore, are closing our books and records on this project. Your attention, however, is called to the provisions of the contract which require the operator to keep and preserve certain records for the period indicated.

Your interest in the DMEA exploration program and participation therein are fully appreciated.

Sincerely yours,

C. O. Mittendorf

Administrator

JHopkins:ms 9/21/56
Copy to: Docket
Mr. Chambers
Field Team, Region V
Mr. Kiilsgaard, 5222
Mr. McDougal, 3522
Mr. Houk
Admr. R. File

Maggie Joiner)
B. E. Joiner) landowners
Eugene and Gladys Rose)
I. A. and Mildred Lowry)

Government Copy

RECEIVED
MAR 28 1956

TERMINATION AGREEMENT

It is agreed this 19th day of March, 1956, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and Ozark-Mahoning Company, hereinafter called the "Operator," parties to that certain Exploration Project Contract Idm-E818 (Docket No. DMEA-3644) dated June 16, 1955, hereinafter called the "Contract," that:

1. Effective February 5, 1956, the Contract and all obligations of the parties thereunder, except as otherwise herein expressly provided, shall be and are hereby terminated.

2. The Government shall contribute only to the fixed unit costs of work performed prior to said effective date.

3. The Operator shall promptly perform all winding-up and settlement actions provided for in the Contract, including the rendering of the final report and final account.

4. The Operator hereby releases and agrees to save the Government harmless from all claims or demands under or arising out of said Contract, except as otherwise provided in this termination agreement.

IN WITNESS WHEREOF, these parties have executed this agreement as of the day and year first above written.

THE UNITED STATES OF AMERICA

By Robert A. Lawrence
Executive Officer
DMEA Field Team, Region V

OZARK-MAHONING COMPANY

By G. Truwaitha

Title Vice Pres.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
ROOM 1000 POST OFFICE BLDG.
KNOXVILLE 2, TENN.

December 20, 1955

RECEIVED
DEC 28 1955

Ozark-Mahoning Co.
Mahoning Mining Division
Rosiclare, Illinois

Re: DMEA-3644, Idm-[redacted] (Fluorspar)
Joiner-Fee Tract
Pope County, Illinois

Gentlemen:

This will constitute written approval to begin Stage II and drill holes Nos. 10, 11, and 12 as discussed with Mr. Burmeister and Mr. Ames on December 16, and confirms the verbal approval given you by them at that time. Approval is also given for drilling hole No. 13, but its location should be discussed with the Government before beginning it. It cannot be drilled to the southwest of hole No. 1 without an amendment to the contract, but it can be drilled to the northeast of hole No. 10 without amendment.

Very truly yours,

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

RAL/sm
cc:
Ogr. Com.-3
Lynch, Ames-Trace
Miller
Files

Government Copy

EXPLORATION PROJECT CONTRACT
OZARK-MAHONING COMPANY
DOCKET No. DMEA-3644

AMENDMENT NO.1

It is agreed this 13th day of July, 1955, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, and Ozark-Mahoning Company, a Delaware Corporation, that Exploration Project Contract Idm-E818 (Docket No. DMEA-3644), dated June 16, 1955, is amended as follows:

Article 3...."The work to be performed is described in Exhibit "A". The Operator on or before July 25, 1955 shall commence the work, and on or before July 25, 1956 (unless the Operator's obligation to complete the work is terminated-see Article 8) shall complete the work."

This amendment is needed because drilling equipment was in use on another property and was not available for use on the contract until July 21, 1955.

This amendment shall not be construed to increase the estimated total cost of the project, the aggregate total amount which the Government may be required to contribute, nor the agreed unit cost of any item of work.

OZARK-MAHONING COMPANY

By J. G. Trowitzsch
Vice President

THE UNITED STATES OF AMERICA

By Robert A. Lawrence
EXECUTIVE OFFICER
DMEA REGION V

RECEIVED
AUG 22 1955

Docket No. 3644

Commodity Fluorspar-Lead-Zinc

DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

STRATEGIC AND CRITICAL MINERALS EXPLORATION PROGRAM

TO: Chief, Finance Section, Budget and Finance Branch, Bureau of Mines

Please enter on the records of the Defense Minerals Exploration Administration under the Strategic and Critical Minerals Exploration Program, the following contract, or amendment to contract.

Contract No. Idm-E 816

Date of Contract ~~or Amendment~~ June 16, 1955

Name and Address of Operator:

Ozark-Mahoning Company
Rosiclare
Illinois

Amount of Government participation $16,680.00

Percent of Government participation 50 %

Region: V State: Illinois

Note: Please release 85,653.55. Contract terminated.

(Name)

for J. L. Chambers, Chief
Contract Administration and
Audit Division

(Title)

Date Delivered to Bureau of Mines, Washington. 4/23/56

54458

Docket No. DMEA - 3644

Commodity Fluorspar- L - Z

DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

STRATEGIC AND CRITICAL MINERALS EXPLORATION PROGRAM

TO: Chief, Finance Section, Budget and Finance Branch, Bureau of Mines

Please enter on the records of the Defense Minerals Exploration Administration under the Strategic and Critical Minerals Exploration Program, the following contract, or amendment to contract.

Contract No. Idm-E 818

Date of Contract ~~of Amendment~~ June 16, 1955

Name and Address of Operator:
Ozark- Mahoning Company
a Delaware corporation
Rosiclare, Illinois

Amount of Government participation ____ $ 16,680.00

Percent of Government participation 50 %

Region: V State: Illinois

E. L. Talbert
(Name)
Ford L. Chamber
Chief, Contract Administration and Audit Division
(Title)

Date Delivered to Bureau of Mines, Washington. 6/16/55

54458

Government's copy
RECEIVED
JUL 13 1955

MF-200A
(Revised June 1954)

Docket No. DMEA -3644
Fluorspar,
Commodity Lead and Zinc

Contract No. Idm-E 818

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
EXPLORATION PROJECT CONTRACT[1]
(Short Form)

It is agreed this 16th day of June, 1955, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and [2] Ozark-Mahoning Company, a Delaware corporation, whose mailing address is Rosiclare, Illinois, hereinafter called the "Operator," as follows:

ARTICLE 1. *This contract* is entered into under the authority of the Defense Production Act of 1950, as amended. It consists of this form (MF-200A), the attached Exhibit "A," Annex I, and map.

The Operator shall not transfer or assign this contract or any right thereunder without the written consent of the Government.

ARTICLE 2. *Operator's property rights.*—(a) The land which is the subject of this contract (hereinafter called "the land") is in the State of Illinois, County of Pope, and is described in Annex I.[3]

(b) The Operator represents and undertakes that:

(1) The Operator is the [4] See Annex I of [5] the mineral rights in the land, in possession and entitled to possession for all of the purposes of this contract, under and by virtue of a [6] See Annex I, [7] - recorded in Book --, page --, official records of said County; and

(2) The Operator's right, title, or interest (whether as owner, lessee, or otherwise) is subject only to the following claims, liens, or encumbrances: none

(c) The Subordination Agreement of the holder of any claim, lien, or encumbrance listed above, and (if the Operator does not hold the legal title) the Consent to Lien of any holder of the legal title of the land (lessor, seller, optionor, etc.), are attached, as follows: Consent to Lien of the Lessors of the leased land.

[1] If sufficient space is not provided in any blank, use an extra sheet of paper and refer to it in the blank.
[2] Insert name, and if an organization, its nature (corporation and place of incorporation, partnership with names of partners, etc.).
[3] State on a separate sheet marked "Annex I" the legal description or enough to identify the property, particularly excluding any areas from which the production is not to be subject to the Government's percentage royalty.
[4] Insert "owner," "lessee," "contract purchaser," "locator," etc.
[5] Insert "the entire interest," "the mineral rights," "an undivided one-third," etc.
[6] Insert "deed," "lease," "contract," "location notice," "patent," etc.
[7] If not recorded, so indicate by inserting "un."

(d) The Operator shall preserve and maintain his right, title, and interest in the land and his right to the possession thereof for the purposes of this contract, and shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of this contract. Until the lapse of the time within which the Government may make a certification of discovery or development without any such certification having been made, and after any such certification has been made, the Operator shall neither transfer, convey, nor surrender the land nor any right, title, or interest therein, nor permit nor suffer any claim, lien, or encumbrance thereon, without expressly referring to and providing in the instrument of conveyance, lien, or encumbrance for the preservation of the Government's right to a percentage royalty on production and lien for the payment thereof. If the Government makes no certification of discovery or development within the time limited in Article 7, it shall thereafter have no claim against the land or any production therefrom except for any production referred to in Article 7(b)(1).

ARTICLE 3. *The exploration project.*—The project is a search for indicated or undeveloped deposits of fluorspar, lead and zinc The work to be performed is described in Exhibit "A." The Operator on or before July 14, 1955 shall commence the work, and on or before July 14, 1956 (unless the Operator's obligation to complete the work is terminated—see Article 8) shall complete the work.

ARTICLE 4. *Performance of the work.*—(a) *Operator's responsibility.*—The work shall be performed with reasonable diligence, efficiently, expertly, in a workmanlike manner, in accordance with good mining standards and State regulations for health and safety and for liability insurance covering employment; and with suitable and adequate equipment, facilities, materials, supplies, and labor, to bring it to completion within the time fixed.

(b) *Government may inspect.*—The Operator shall consult with and inform the Government on all phases of the work as it progresses. The Government may enter at all reasonable times to inspect the work under the contract, and also after a certification of discovery or development to inspect production operations and underground workings. The operator shall provide the Government with all reasonable means of access for such inspections.

ARTICLE 5. *Contribution by the Government.*—A fixed cost for each unit of work to be performed (per foot of drifting, per foot of drilling, per hour of operations, etc.) is hereby agreed upon, and is set forth in Exhibit "A" in connection with the estimated total cost of the project in the sum of $33,360.00 The Government will contribute 50 percent of the fixed unit costs as work is performed, in a total sum not in excess of $16,680.00: *Provided,* That until the Operator has rendered to the Government his final report, and any final auditing required by the Government has been made, and a final settlement of the contract has been made, the Government may withhold from the last voucher or vouchers such sums as it sees fit not in excess of 10 percent of the estimated total cost of the work. The Government will make its contribution on the basis of the monthly vouchers referred to in Article 6(b), but all payments by the Government are provisional only, subject to audit, until the account between the Operator and the Government is finally audited and settled. To the extent that excesses over fixed unit costs or any excess over the estimated total cost may be necessary for the performance of the work, the Operator shall incur and pay such excesses for his own account without contribution by the Government. The Government may make payments directly to independent contractors and suppliers for the account of the Operator rather than to the Operator.

ARTICLE 6. *Reports, accounts, audits.*—(a) *Operator's records.*—The Operator shall keep suitable records and accounts of the units of work performed and of any production in which the Government may have an interest; and shall preserve those with respect to work performed for at least three years after final payment by the Government, and those with respect to production for at least three years after any obligation to pay royalties to the Government has terminated. The Government may inspect and audit said records and accounts at any time, either by itself or by a certified public accountant. The Comptroller General of the United States or his representative, until the expiration of said three-year periods, shall have access to and the right to examine any pertinent books, documents, papers, and records of the Operator. All of the Operator's vouchers and records and accounts relating thereto and the Government's payments thereof remain subject to adjustment until final audit by the Government.

(b) *Progress reports and vouchers.*—The Operator shall provide the Government with five copies of monthly progress reports in three sections as follows: (1) Operator's Monthly Report and Voucher showing a detailed statement of units of work performed during the reporting period; (2) Operator's Unit Cost and Progress Report showing the various types of work performed during the reporting period and the fixed unit costs incurred for each type of work; and (3) a Narrative Report of the work

performed during the reporting period including adequate engineering-geological maps or sketches, drill hole logs and locations, and assay reports on samples taken concurrently with advance in mineralized ground. (Forms for reporting under (1) and (2) above will be provided by the Government.)

(c) *Final report.*—Upon completion of the work or termination of the Government's obligation to contribute to costs, the Operator shall furnish the Government with five copies of a final report (in addition to the final progress report and voucher). This final report shall include a geological and engineering evaluation of the results of the work performed under the contract with an estimate of the ore reserves resulting from such work, complete assay data, adequate geological and engineering maps or sketches, and a summary of the work performed and the unit costs thereof.

(d) *Report of sales.*—The Operator shall provide the Government with suitable accounting and documentary evidence covering all production to which the Government's percentage royalty relates, such as copies of smelter or concentrator settlement sheets, and certified accounts of production and sale or other disposition of production.

(e) *Compliance with requirements.*—If in the opinion of the Government any of the Operator's reports, records, or accounts are insufficient or incomplete, or if the Operator fails to make them, the Government may procure the making or completion of such with suitable attachments as an expense of the work to which the Operator shall contribute. The Government may withhold approval and payment of any vouchers relating to insufficient or incomplete reports, records or accounts.

ARTICLE 7. *Repayment by Operator.*—(a) *Certification.*—If the Government considers that a discovery or development from which production may be made has resulted from the work, the Government, at any time not later than six months after a sufficient final report and final account (see Article 6) has been rendered, may so certify in writing to the Operator. Such certification shall describe broadly or indicate the nature of the discovery or development.

(b) *Royalty on production.*—The Operator, as principal if the Operator is the producer, or as surety if the Operator is not the producer, shall pay to the Government a royalty on all minerals mined or produced from the land, as follows: (1) regardless of any certification of discovery or development, from the date of the contract until the lapse of the time within which the Government may make such certification, or until the total net amount contributed by the Government without interest is fully repaid, whichever occurs first; or (2) if the Government makes a certification of discovery or development, within a period of ten years from the date of the contract, or until the total net amount contributed by the Government without interest is fully repaid, whichever occurs first.

(c) *Basis for computation.*—The Government's royalty shall be a percentage of the gross proceeds (including any bonuses, premiums, allowances, or other benefits) from the production sold, in the form sold (ore, concentrates, metal, or equivalent), at the point of delivery (the f. o. b. point); *except,* that charges of *the buyer* arising in the regular course of business, and shown as deductions on the buyer's settlement sheets, on account of the cost of treatment processes performed by *the buyer,* sampling and assaying to determine the value of the production sold, and freight paid by *the buyer* to a carrier (not the Operator), shall be allowed as deductions in arriving at the "gross proceeds" as that term is used herein. Any costs of treatment processes, sampling or assaying, or transportation, performed or paid by the Operator or by anyone other than the buyer, are not deductible in arriving at the "gross proceeds" as that term is here used. The term "treatment processes," as here used, means those processes (such as milling, concentrating, smelting, refining, or equivalent) applied to the crude ore or other production after it is extracted from the ground, to put it into a commercially marketable form; excluding fabricating or manufacturing.

(d) *Unsold production.*—If any production (ore, concentrates, metal, or equivalent), after the lapse of six months from the date the ore was extracted from the ground, remains neither sold nor used by the Operator in integrated manufacturing or fabricating operations (for instance, if it is stockpiled), the Government, at its option, as long as it so remains, may require the computation and payment of its royalty on the value of such production in the form (ore, concentrates, metal, or equivalent) it is in when the Government elects to require computation and payment. If any production is used by the Operator in integrated manufacturing or fabricating operations before the Government makes its election, the Government's royalty on such production shall be computed on the value thereof in the form in which and at the time when it is so used. "Value" as here used means what is or would be gross income from mining operations for percentage depletion purposes in Federal income tax determination, or the market value, whichever is greater.

(e) *Percentages of royalty.*—The percentages of the Government's royalty shall be as follows:

One and one-half (1½) percent of amounts ("gross proceeds" or "value") not in excess of eight dollars ($8.00) per ton of production in the form in which sold, held, or used, plus one-half (½) percent for each additional full fifty cents ($0.50) by which such amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) percent of such amounts.

(For instance: the royalty on an amount of five dollars ($5.00) per ton would be one and one-half (1½) percent; on an amount of ten dollars ($10.00) per ton, three and one-half (3½) percent.)

(f) *Time for computation and payment.*—The Government's royalty shall be computed and paid currently upon each lot sold, held, or used in integrated operations, as the case may be, as above provided in this article.

(g) *Lien for payment.*—To secure the payment of its percentage royalty, there is hereby granted to the Government a lien upon the land or the Operator's interest in the land and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

(h) *Notice to purchasers.*—The Operator shall give notice of the Government's claim for royalty to any purchaser of the production, and shall authorize and direct such purchaser to pay the royalty directly to the Government and to furnish the Government with copies of the settlement sheets. If the records of any production and sales or other disposition of production, whether the production is by the Operator or by others, are not made available to the Government, the amount of the royalty may be estimated by the Administrator, Defense Minerals Exploration Administration, or his successor, and his estimate thereof shall be final and binding upon the Operator.

(i) *No obligation to produce.*—Nothing in this contract is to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any production operations.

(j) *Government not obligated to buy.*—Nothing in this contract shall be construed as imposing any obligation on the Government to purchase any minerals mined or produced from the land.

ARTICLE 8. *Termination of the Government's obligations.*—(a) If in the opinion of the Government operations at any time have failed to achieve anticipated results that indicate the probability of making a worthwhile discovery, and in the opinion of the Government further operations are not justified, the Government may give the Operator written notice thereof, and thereupon the Government shall be free of all obligation to pay on account of units of work not then performed, and the Operator shall be free of all further obligation to prosecute the work other than such as may be necessary and incidental to winding up, reporting, and accounting.

(b) If in the opinion of the Government the Operator is in any manner in default under the terms of the contract, the Government may give the Operator written notice of such default with a specification of reasonable time within which the default must be cured; and if the Operator fails to cure such default as required, thereupon the Government shall be relieved of all obligation to pay on account of units of work not performed when the notice was given, and the Operator shall be free of all obligation to prosecute the work other than such as may be necessary and incidental to winding up, reporting, and accounting. The remedy provided for the Government in this paragraph "(b)" is in addition to any other remedy provided in this contract, and in addition to any other remedy the law may provide for breach of contract.

(c) The giving of any notice by the Government under the provisions of this Article 8 shall not affect the Government's rights as provided for in the contract with respect to a percentage royalty, and such rights shall be fully preserved.

ARTICLE 9. *Notices to be given by the Government* may be delivered to the Operator, or may be sent by registered mail addressed to the Operator at his mailing address stated in this contract. If mailed, notices are deemed to have been delivered five days after the date of mailing.

ARTICLE 10. *Officials not to benefit.*—No member of or delegate to Congress or resident commissioner shall be admitted to any share or part of this contract or to any benefit that may arise therefrom; but this provision shall not be construed to extend to this contract if made with a corporation for its general benefit.

ARTICLE 11. *Changes and added provisions.*—

Executed in sextuplicate the day and year first above written.

OZARK-MAHONING COMPANY
(Operator)

By J. G. Trewartha
Vice President

THE UNITED STATES OF AMERICA

By Frank E. Johnson
ACTING Administrator, Defense Minerals Exploration Administration

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I, A. M. Sperberg, certify that I am the Assistant secretary of the corporation named as Operator herein; that J. G. Trewartha who signed this contract on behalf of the Operator, was then Vice President of said corporation; that said contract was duly signed for and in behalf of said corporation by authority of its governing body, and is within the scope of its corporate powers.

A. M. Sperberg

[CORPORATE SEAL]

U. S. GOVERNMENT PRINTING OFFICE 16—70618-1

RECEIVED
JUL 13 1955

EXPLORATION PROJECT CONTRACT
OZARK-MAHONING COMPANY
DOCKET NO. DMEA-3644

ANNEX I

The land referred to in Article 2 of the contract form is in Section 27, Township 12 South, Range 7 East and is as follows:

Land leased by Operator (mineral rights)

NE quarter of the NW quarter and the NW quarter of the NE quarter.

Land owned by Operator (mineral rights)

The NE quarter of the NE quarter.

RECEIVED
JUL 13 1955

EXPLORATION PROJECT CONTRACT
OZARK-MAHONING COMPANY
DOCKET NO. DMEA-3644

EXHIBIT "A"

Description of the Work

Explore for fluorspar, lead and zinc by AX minimum size diamond drilling. The purpose of the drilling is to determine the location and characteristics of the Structures B, C, D, E, and F, shown on the attached Map #1, and possibly other unknown ore-bearing structures.

The work is divided into two successive stages. The Operator shall perform Stage I and so much of the work under Stage II as is approved in advance in writing by the Government.

The location, inclination, direction, and extent of all drilling is subject to the approval of the Government.

Stage I

Stage I consists of drilling approximately 10 holes along the approximate line marked "Cross sectional line" on Map #1, at plus or minus 45 degrees to the favorable ore horizon. The holes shall average approximately 450 feet in depth.

The initial hole shall probe for the extensions of Structure B. Subsequent holes shall be drilled to the northwest of the initial hole at no closer than 200-foot intervals. No portion of a drill hole may be within 150 feet of the external boundary of the land described in the contract.

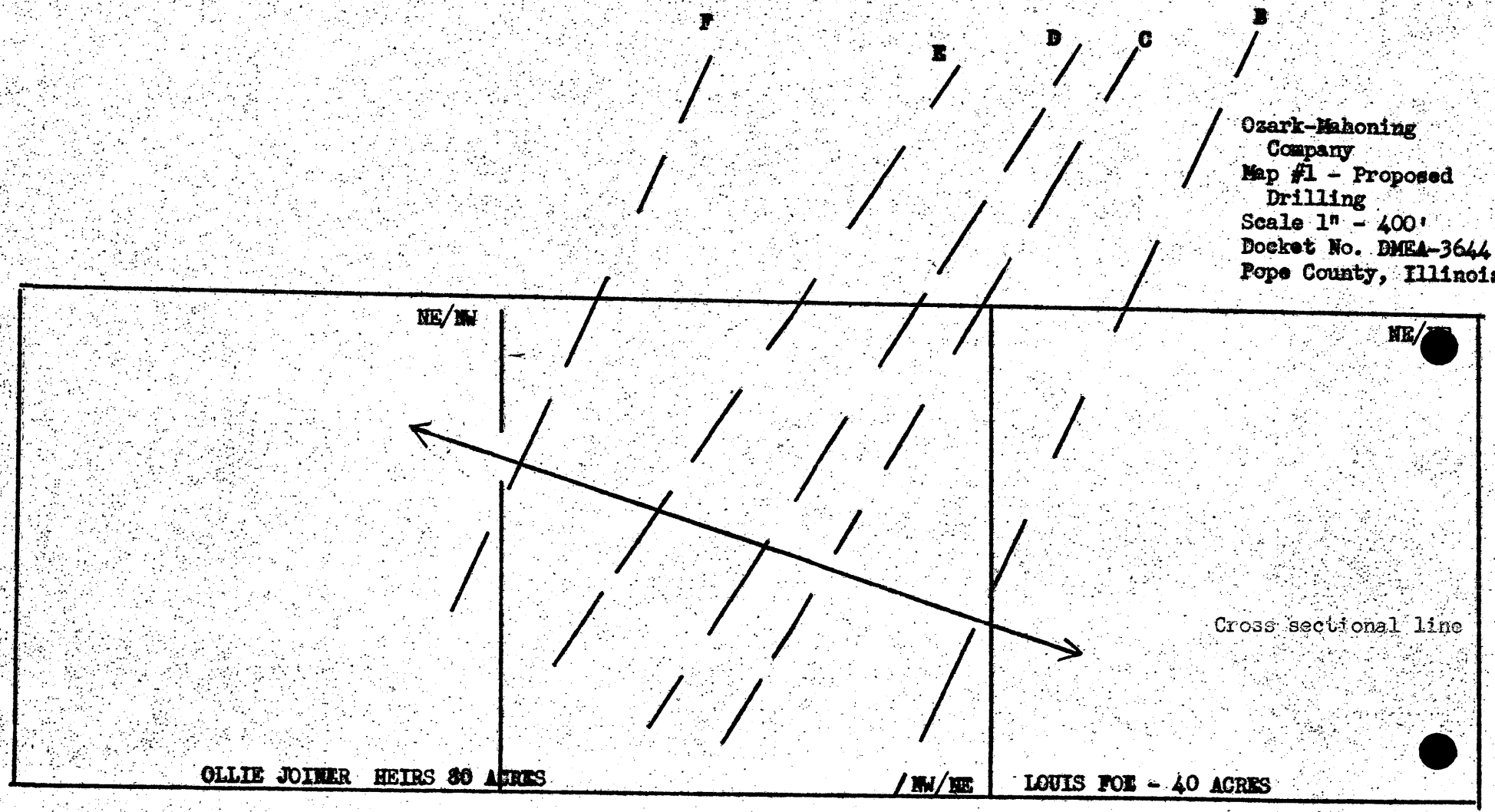
Stage II

Stage II consists of not to exceed 7,500 feet of drilling on favorable structures indicated in Stage I. The minimum interval between holes shall be 200 feet.

Fixed Unit Costs

(The fixed unit costs include all costs whatsoever necessary to complete the project.)

Stage I		
4,500 feet of diamond drilling @ $2.78/ft.	$12,510.00	
Stage II		
7,500 feet of diamond drilling @ $2.78/ft.	20,850.00	
Estimated Total Fixed Unit Costs		$33,360.00
Government Participation @ 50%		$16,680.00



Section 27, T-12 S., R. 7 E.

MF-203
Revised March 24, 1955

For Government's Use Only
EXPLORATION PROJECT CONTRACT
Operator Ozark-Mahoning Company
Docket No. DMEA- 3644
Contract No. Idm-E 818
Contract Date JUN 16 1955

CONSENT TO LIEN

RECEIVED
JUL 13 1955

To the United States of America:

Referring to that certain land in the County of Pope, State of Illinois, described as follows:1/

The NE Quarter of the NW Quarter and the NW Quarter of the NE Quarter Section 27, Township 12 South, Range 7 East.

which is the subject of a proposed exploration project contract, hereinafter called the "contract," with the United States of America, hereinafter called the "Government;" in consideration of the contract and as an inducement to the Government to enter into it, the undersigned hereby--

1. Undertakes and agrees that property in which the Government may acquire an interest or equity under the contract may be dismantled, severed from the land, and removed, as may be provided in the contract; and the Government's interest and equity in such property shall be prior and superior to any adverse right or claim of the undersigned;

2. Grants to the Government a lien upon all of the undersigned's right, title, and interest in the land and upon any production of minerals therefrom to secure the payment to the Government of a percentage royalty on production as may be provided for by the contract;2/ and represents and undertakes that there are no claims, liens, or encumbrances upon the undersigned's right, title, or interest in the land prior to that hereby granted to the Government other than the following:3/

3. Undertakes and agrees neither to commit any act nor assert any claim in conflict with the provisions of this Consent to Lien; and to give advance notice of the Government's rights under this Consent to Lien to any subsequent transferee, mortgagee, encumbrancer, or lessee of any of the undersigned's right, title, or interest in the land; and

1/ Either (a) insert the legal description of the land, or (b) strike out the words "as follows" and insert "in a lease [or contract, deed, or other document] dated _____, and recorded in book _____ page _____ official records of said county." If (b) is used, the book and page of recordation cannot be dispensed with. If the space provided is insufficient, use an Annex, and refer to the Annex in the space.

2/ Mining or production from the land is not required, and in the absence of production there is no obligation to repay the Government.

3/ Write "none" if that is the case. Do not leave lines blank.

4. Consents to all amendments and assignments of the contract without notice thereof, and agrees that this Consent to Lien shall extend and apply thereto.

5. Added provision: _____

Dated this 30th day of June, 1955.

Maggie Joiner	1 Maggie Joiner	[Seal]	Rosiclare, Hardin County, Ill.
B. E. Joiner	2 B E Joiner		
Eugene Rose	3 Eugene Rose	[Seal]	" " " " " " "
Gladys Rose	4 Gladys Rose		Marion, Crittenden Co., Ky.
Mildred Lowry	5 Mildred Lowry	[Seal]	" " " " " " "
I. A. Lowry	6 I. A. Lowry		Albert Lea, Freeborn Co. Minn.
			" " " " " " "

I, _____ certify that I am the _____ (Secretary, etc.) of the corporation named herein; that _____ who signed this agreement was then _____ (President or Vice-President, etc.) of said corporation; that said agreement was duly signed for and in behalf of said corporation by authority of its governing body, and was within the scope of its corporate powers.

_____

[Corporate Seal]