UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
REGION V

ELECTROTECHNICAL
EXPERIMENT STATION

P. O. BOX 217
NORRIS, TENNESSEE

June 19, 1958

Memorandum

To: Jay L. Chambers, Defense Minerals Exploration Administration, Interior Building, Washington 25, D. C.

From: Personal Assistant, Norris, Tennessee

Subject: Monthly reports and vouchers

We are enclosing two copies of the following monthly report and voucher:

Idm-E1177 Roland F. Beers, Inc.
Docket No. DMEA-4886
1st and final payment - month of April
Amount $2959.75

Helen Miller
Helen R. Miller

Attachments
/hbm
Copies to R. A. Laurence
V. J. Lynch
Norris files
Day files

Contract FILE COPY
DMEA
RECEIVED JUN 23 1958

DATE	INITIALS	CODE
6/23	C	220
"	[illegible]	110
6/24	Kthy	500

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

PAID ON VOUCHER & SCHEDULE OF PAYMENTS K-

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of April, 1958 Docket No. DMEA 4886 Contract No. Idm-E 1177
Operator's Name Roland F. Beers, Inc. Minerals Copper-Zinc
Address 447 Pinewoods Ave. (P.O. Box 1019) Troy, N. Y.
Contract Amount, $ 6,222.00 Government Participation: 50 % Amount, $ 3,111.00

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 Contracts:						
Drilling Diamond	4572.50	-	4,572.50			
Bulldozing						
Crosscutting						
Drifting						
Incidental allowance	930.00	-	930.00			
(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						
Core boxes	117.00	-	117.00			
Liability Insurance						
Mobilization and demobilization of personnel and equipment	300.00	-	300.00			
(8) Contingencies (specify):						
TOTALS	5919.50	-	5,919.50	5919.50		5919.50

I certify that the above bill is correct and just and that payment therefor has not been received.
Date May 6, 1958 *Payee Roland F. Beers, Inc.
Per John L. Baker Title Assistant Secretary and Assistant Treasurer

*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:
$ 2959.75
Signature Helen R. Mellen
(Authorized Certifying Officer)
Date JUN 19 1958 Vou. No. 181
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E 1177 in accordance with the terms of the contract.

Signature R. Burmeister Title Mining Engr. Date 5/12/58

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Robert A. Laurence Title EXECUTIVE OFFICER DMEA REGION V Date JUN 17 1958

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

RECEIVED JUN 23 1958 D.M.E.A.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of April 1958 Docket No. DMEA 4886 Contract No. Idm-E 1177

Operator's Name Roland F. Beers, Inc. Minerals Copper-Zinc

Address 447 Pinewoods Ave. (P. O. Box 1019) Troy, N. Y. $3111.00

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
~~Drilling~~ Mobilization ~~Crosscutting~~ and demobilization ~~Raising~~ of personnel and ~~Stations~~ equipment		300.00		300.00	✓			300.00
Winzes								
Drilling: ~~Rock~~ Overburden	Feet	247.80	84	247.80	✓ 84	2.95 ft.		2.95
Core ~~Cross~~ BX	Feet	4324.70	1466	4324.70	✓ 1466	2.95 ft.		2.95
Auger								
~~Engineering~~ Incidental ~~Expense~~ allowance	Feet	930.00	1550	930.00	✓ 1550	.60 ft.		.60
~~Expense~~ Core boxes	Each	117.00	39	117.00	✓ 39	3.00 each		3.00
Roads and Trails								
TOTAL DISTRIBUTED COSTS		5919.50		5919.50				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased	N	N		N				N
Initial Rehabilitation and Repairs		O		O				O
New Buildings, Improvements, etc.		N		N				N
		E		E				E
TOTAL COSTS		5919.50		5919.50				6222.00

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

REMARKS:

Date May 6, 1958 Operator Roland F. Beers, Inc.

Per John D. Baker Title Assistant Secretary and Assistant Treasurer

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)

Subject to allowing 50' @ 2.95 ft replace 50' @ 3.50 not needed. 5/12/58

H. F. 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

INVOICE

E. J. LONGYEAR COMPANY

Diamond Core Drilling Contractors

76 SOUTH 8TH STREET
MINNEAPOLIS 2, MINNESOTA

April 28, 1958

MAY 5 1958
OFFICIAL FILE COPY
DMEA
RECEIVED JUN 23 1958
DATE | INITIALS | CODE

Roland F. Beers, Inc.
P. O. Box 3725 - University Station
Charlottesville, Virginia

Attn: Dr. R. S. Young
Branch Manager

INVOICE NO. 45802

FORM 403 SM 1-58

Exploratory drilling during the month of April, 1958, carried out in Spotsylvania County, Virginia, as per the terms of our agreement dated October 16, 1957

Total footage drilled during the month of April, 1958 1550.0 feet.

Hole No.		From	To	Footage	Rate	Amount
DH - 1	Overburden Drilling	0.0	20.0	20.0	2.95	59.00
DH - 1	BXWL Diamond Drilling	20.0	301.0	281.0	2.95	828.95
DH - 2	Overburden Drilling	0.0	22.0	22.0	2.95	64.90
DH - 2	BXWL Diamond Drilling	22.0	300.0	278.0	2.95	820.10
DH - 3	Overburden Drilling	0.0	10.0	10.0	2.95	29.50
DH - 3	BXWL Diamond Drilling	10.0	351.0	341.0	2.95	1,005.95
DH - 4	Overburden Drilling	0.0	12.0	12.0	2.95	35.40
DH - 4	BXWL Diamond Drilling	12.0	251.0	239.0	2.95	705.05
DH - 5	Overburden Drilling	0.0	20.0	20.0	2.95	59.00
DH - 5	BXWL Diamond Drilling	20.0	347.0	327.0	2.95	964.65
						4,572.50

Core Boxes

DH - 1	AX/BXWL boxes	10				
DH - 2	AX/BXWL boxes	7				
DH - 3	AX/BXWL boxes	8				
DH - 4	AX/BXWL Boxes	6				
DH - 5	AX/BXWL boxes	8				
		39	@		3.00	117.00

Mobilization and demobilization - Personnel and Equipment 300.00

4,989.50

THIS IS THE FINAL INVOICE

OFFICIAL FILE COPY
DMEA
RECEIVED APR 23 1958

DATE	INITIALS	CODE
4/23	C	220
23	[illegible]	100
"	[illegible]	110
4/23	[illegible]	200
4/23	[illegible]	[illegible]

INTERIM REPORT ON OPERATING CONTRACT

DMEA 4886 (Copper, zinc), Contract Idm-e 1177
Roland F. Beers, Inc., Pruitt Prospect,
Spotsylvania County, Virginia

Core drilling operations under this contract were inspected on April 16, 1958 by W. P. Williams, Geological Survey, and H. L. Burmeister, Bureau of Mines.

At the time of visit, drill holes No. 1 and No. 2 had been completed at 300 feet and 250 feet respectively. Drill hole No. 3 was drilling at 111 feet. To accommodate to ground conditions, the collar of hole No. 1 had been moved 20 feet northeasterly along the line of the electromagnetic axis. For the same reason, the collar of hole No. 3 was moved 30 feet southwesterly along the line of the electromagneitc axis.

The three holes penetrated overburden to an average depth of 20 feet. From bottom of overburden to an average depth of 70 feet, each hole was drilled through soft oxidized mica schist in which core recovery was poor. From an average depth of 70 feet to bottom of each hole the core recovery was excellent, as indicated on the attached log sheets.

Drilling is being done with BXWL equipment. At the time of visit the drill was below 100 feet in good coring material. Drill speed was 425 rpm. and hydraulic pressure was 300 psi. The drill is being operated on a 2 shift per day basis and excluding moving time, advance has averaged 50 feet per shift.

Supervision by the Operator's representative on the first 2 holes left something to be desired, but the examiners were assured that this would be corrected. No difficulty is anticipated in drilling the remaining

holes, and if necessary the Operator will contact the Knoxville office in the absence of the examiners.

The Operator was supplied with sufficient forms to complete reports under this contract. The Operator's representative was thoroughly instructed in the manner of submitting reports. As this contract is expected to be completed in less than a month after the start of drilling, it was suggested that the monthly report be made complete and in detail. The Operator will probably request that such a report be also accepted as his final report.

No significant mineralization has been discovered to the date of visit.

April, 1958

H. L. Burmeister, Engineer
U. S. Bureau of Mines

W. P. Williams, Geologist
U. S. Geological Survey

APPENDIX

DEPTH (ft.) Fr.	To	CORE RECOV.	DIAMOND DRILL HOLE No. 1 LOG
0	20	0	Overburden
20	58	27	Iron-stained mica and garnet schist. No sulphides noted.
50	61	3	Pale gray, very fine grained mica schist. Sandy texture.
61	91	15	Iron-stained quartzitic schist. Very fine-grained. Core ground and broken.
91	117	24	Medium-gray mica schist with 1/16 inch dissem. garnets. No sulphides noted. Core good, fractured at wide intervals @ 80°.
117	146	16	Yellowish gray, iron stained mica schist, very fine-grained. No sulphides noted. Core fissile, shaly.
142	191	44	Greenish gray, very fine-grained, hornblende schist. Local yellowish green ferruginous seams with very fine-grained dissem. pyrite. 1 inch thick white quartz seam with dissem. pyrite, @ 189 feet.
919	261	70	Medium gray to black, fine-grained biotite-hornblende schist. 1/8 inch thick pyrite and pyrrhotite seams thru-out @ ∠ 75° to core. 6 inch white quartz @ 235 feet; ¼ inch to ½ inch thick white quartz stringers thru-out.
261	291	30	Medium gray, sericite schist with scattered fine-grained garnets. Local dissem. pyrite, pyrrhotite. Possibly very sparse chalcopyrite. ¼ inch to 1 inch thick white quartz seams thru-out.
291	301	10	Greenish-gray chlorite schist. Very sparse dissem. pyrite, pyrrhotite. No chalcopyrite noted.
		239	

Bottom

DEPTH (Ft.) Fr.	To	CORE RECOV.	DIAMOND DRILL HOLE No. 1 (con't) Log
			Core Recovery -- 239/301 = 79.4%
			Conclusions: The appearance of the core toward the bottom of the hole indicates that metal sulphide values were becoming less and that the hole depth of 301 feet provided a fair test of the rock penetrated. Deepening of the hole is not recommended. No ore-grade rock penetrated.

DIAMOND DRILL HOLE No. 2
Log

0	22	0	Overburden
22	53	14	Iron-stained mica schist. Local dissem. garnets. Gassanous 0 - 48 feet.
53	77	13	Silver-gray mica schist. No sulphides noted.
77	102	19	Dark gray to black chlorite and sericite schist. Limonite-stained seams 81 - 88 feet. Local dissem. garnets; very fine dissem. pyrite.
102	137	29	Medium-grained mica schist. Limonite-stained seams 131 - 137 feet. No sulphides noted.
137	147	10	Dark gray to greenish black chlorite schist. Local green chlorite. Local sparse dissem. fine-grained pyrite.
147	158	10	Greenish gray mica schist. Local dissem. garnets. Limonitic seams @ 60° throughout.
158	178	17	Brecciated hornblende and mica schist. Core broken. Abundant pyrite 174 - 174.5 feet; dissem. pyrite - pyrrhotite 176 - 178 feet; possibly very sparse chalcopyrite.
178	241	63	Greenish gray mica schist. White quartz bands and dissem. pyrite @ 187 feet; 195 feet, 210-220 feet, 229 feet, 231 feet, 237-238 feet, 240-241 feet.

DEPTH (Ft.) Fr.	To	CORE RECOV.	DIAMOND DRILL HOLE No. 2 (con't) Log
241	281	38	Dark gray mica schist. Abundant dissem. graphite. Chloritic 265 - 283 feet. Brecciated white quartz plus dissem. pyrite and manganese stain 247-251 feet, 263-264 feet, 272-275 feet, 278-281 feet, 293-294 feet.
281	300	19	Dark gray biotite schist. Local green chlorite. Sparse dissem. pyrite. 4 inch thick white quartz seam @ 294 feet.
			Bottom
			Core recovery -- 232/300 = 77.3%
			Conclusions: The hole could be deppened with possible advantageous results. No ore-grade rock penetrated.

DIAMOND DRILL HOLE No. 3

0	20	0	Overburden
20	60	14	Sericite schist, much iron stain, core rusty to silver color.
60	88	14	Fresh, silvery gray sericite-mica schist. Abundant local garnets. No sulphides noted.
88	109	11	Sericite schist; no sulphides noted. Sparse local garnets.
109	111		Sericite-garnet schist.

(Drilling in progress)