February 12, 1958

Memorandum

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

From: Personal Assistant, Morris, Tennessee

Subject: Monthly report and voucher

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

Idm-E1103	The New Jersey Zinc Company Docket No. DMEA-4674 2nd payment - month of November Amount $15.00

Helen R. Miller

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

Official

EXTRA COPY
DMEA
RECEIVED FEB 19 1958

DATE		CODE
2/19	FEJ	110
2/19	[illegible]	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-41

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of November, 1957 Docket No. DMEA 4674 Contract No. 1103
Operator's Name The New Jersey Zinc Company Minerals Zinc-Lead-Copper
Address 160 Front Street, New York 38, NY
Contract Amount, $8,370.00 Government Participation: 50% Amount, $4,185.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:				2/24/58		
Core Drilling	--	5,219.10	5,219.10		5478.30	5478.30
Overburden	--	1,264.40	1,264.40		986.00	986.00
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
Core boxes	--	112.50	112.50		112.50	112.50
(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						
Incidental Allowance	--	1,374.02	1,374.02		1374.02	1374.02
Analyses	$1.00	21.00	102.00	30.00	21.00	51.00
(8) Contingencies (specify):						
TOTALS	$1.00	7,991.02	8,072.02	30.00	7971.82	8001.82

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

Date November 20, 1957 *Payee The New Jersey Zinc Company

Per [signature] Title Superintendent

*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)

21.85

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

$ 15.00

Signature Helen R. Miller
(Authorized Certifying Officer)

Date FEB 12 1958 Vou. No. 126

(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 1103 in accordance with the terms of the contract.

Signature [illegible] Title Mining Engr. Date 11/26/57

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

EXECUTIVE OFFICER
DMEA FIELD TEAM

Signature [illegible] Title REGION V Date FEB 10 1958

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED FEB 17 1958

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of November 1957 Docket No. DMEA 4674 Contract No. 1103

Operator's Name The New Jersey Zinc Company Minerals Zinc-Lead-Copper

Address 160 Front Street, New York 38, NY

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 BRWL(AX)	feet	--	--	5,219.10	1933		2040	2.70
Over Overburden	feet	--	--	1,264.40	436		360	2.90
Auger								
Stripping								
Analyses	1	81.00	27	102.00	34		100	3.00
Core boxes	1	--	--	112.50	50		50	2.50
Roads and Trails								
Incidental Allowance	feet	--	--	1,374.02	2369		2400	0.58
TOTAL DISTRIBUTED COSTS		81.00		8,072.02				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		81.00		8,072.02				

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: The only cost this month is 27 analyses.

Date November 20, 1957 Operator The New Jersey Zinc Co.

Per W. L. Albers Title Superintendent

W. L. Albers

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)

H. L. Burmeister 11/26/57

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

THE NEW JERSEY ZINC COMPANY

(ESTABLISHED 1848)

CABLE ADDRESS
JERSEZINC

160 FRONT STREET

NEW YORK 38, N.Y.

November 20,1957

PLEASE ADDRESS REPLY TO

P. O. Box 67
Mineral, Virginia

Mr. H. L. Burmeister
U. S. Bureau of Mines
College Park, Maryland

Re: Monthly Report, November, 1957
DMEA 4674 (Zinc-lead-copper)
Bondurant Area
Buckingham County, Virginia
Contract No. Idm-E 1103

Dear Sir:

Attached is the November report on our DMEA contract for the Bondurant area. The only cost to be reported this month is 27 analyses, for which the assay sheets are enclosed. Also enclosed are the driller's invoices for holes 73-B through 78-B, which were previously reported on forms MF 104 and 104A.

Very truly yours,

W. L. Albers,
Superintendent

CLH EZW
CLHamilton/mmk
in quintuplicate

ACTION ON INTERIM
OR FINAL FIELD EXAM REPORT

Date 10-21-57

Referred to:

1. ~~Mr. McCombs~~
2. ~~Mr. Johnson~~
3. ~~Mr. Charlton~~
4. Docket Control Mails and Files.
5. Division
6. Docket Control Mails and Files
7. 500

Note comments in report regarding:

1. Amendment required to allow 7th hole. Contract specifies
2. 6 holes (not an estimated 6 holes)
3. Only variation in "locations, directions, inclinations, and depths", but not number of holes,
4. permitted.

Talbut 10/22/57

and take appropriate action.

- - - - - - - -

Action taken by Division:

Robert E. Adams

gh

MONDAY

1957		
	F	S
	4	5
0	11	12
17	18	19
24	25	26
31		

4

NOV. 1957

DECEMBER				
S	M	T	W	T
1	2	3	4	5
8	9	10	11	12
15	16	17	18	19
22	23	24	25	26
29	30	31		

APPOINTMENTS

A. M.

8 A. M. 72B 496'

9 A. M. 280' 73B 314'

10 A. M. 280' 74B 368'

11 A. M. 250' 75B 300'

12 Noon 76B 330'

1 P. M. 77B 319'

2 P. M. 78B 292'

3 P. M. 2369'

4 P. M.

5 P. M. 2400' allowed

6 P. M.

OFFICIAL FILE COPY
DMEA
RECEIVED OCT 21 1957
DATE | CONTACTS | CODE
10/21 | gb | 220
21 | Cam | 100
10/22 | Klug | 500

INTERIM REPORT ON OPERATING CONTRACT

DMEA 4674 (Zinc, Lead, Copper)
Contract Idm-E 1103
New Jersey Zinc Company, Bondurant Area
Buckingham County, Virginia

This project was inspected on October 10, 1957 by H. L. Burmeister, Bureau of Mines and Helmuth Wedow, Jr., Geological Survey.

Field work was completed on this project on September 30, 1957 when the seventh core drill hole, 78B was bottomed. The contract specifies that six holes be drilled but permission to drill more than six was given by the Executive Officer in a letter to the Operator under date of September 19, 1957. All holes were collared approximately as specified under the revised locations. The seventh or added hole 78B, was collared 370 feet northeast of hole 77B.

Drilling completed in September is summarized below.

Hole No.	Overburden Feet From	Overburden Feet To	Rock - BXWL Feet From	Rock - BXWL Feet To
75B	45	50	50	300
76B	0	40	40	330
77B	0	53	53	319
78B	0	91	91	292

Following are the data available at this time on values found in the mineralized sections of the above drill holes. Each of the four holes encountered approximately 20 feet of mineralization in the footage between the definite geologic markers found in this drilling.

Drill hole 75B- The average of 9 core assays between 249 feet and 258 feet was 3.01 percent Zn, 1.23 percent Pb, and 0.06 percent Cu. Mineralization from 237 feet to 249 feet is estimated as a trace.

Drill hole 76B- No assay returns are available on the core at this time. The core is mineralized from 256 feet to 271 feet and from 266 feet to 271 feet the content is estimated to be approximately 2 percent Zn plus Pb with a trace of Cu.

Drill hole 77B- No assay returns are available but the following estimates are made by the Operator. From 257 feet to 282 feet, 1 percent Zn, with a trace of Pb and Cu. From 269 feet to 273 feet 3 percent Zn and a trace of Pb.

Drill hole 78B- No assay returns are available at this time but the following estimates are made by the Operator. From 228 feet to 247 feet, 1 percent Zn, 0.75 percent Pb and a trace of Cu. From 232 feet to 236 feet, 1.5 percent Zn, 2.0 percent Pb. From 240 feet to 247 feet, 2.0 percent Zn, 1½ percent Pb and a trace of Cu.

The Operator's report for September was being prepared and when received at College Park will be held until receipt of assay returns and drilling contractor's invoice.

October, 1957

H. L. Burmeister

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

Form MF-104 (Rev. April 1952)

Budget Bureau No. 42-R1036.5

RECEIVED DEC 12 1957 D.M.E.A.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

PAID ON VOUCHER & SCHEDULE OF PAYMENTS K- 20

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of September, 1957 Docket No. DMEA 4674 Contract No. 1103

Operator's Name The New Jersey Zinc Company Minerals Zinc-lead-copper

Address 160 Front Street, New York 38, N.Y.

Contract Amount, $8,370.00 Government Participation: 50 % Amount, $4,185.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Contracts:				12/26/57		
~~Short Form~~ Core Drilling BXWL(AX)	2718.90	2500.20	5219.10	2910.60	2567.70	5478.30
~~Bulldozing~~ Overburden	678.60	585.80	1264.40	472.70	513.30	986.00
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
Core boxes	-	112.50	112.50	—	112.50	112.50
(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						
Incidental Allowance	719.78	654.24	~~1274.02~~	719.78	654.24	1374.02
~~Analyses~~	21.00	-	21.00			
(8) Contingencies (specify):						
				4403.08		4950.82
				~~4124.08~~	3849.74	7971.82
TOTALS	4138.28	3852.74	7991.02	~~4124.08~~	~~3849.74~~	~~7971.82~~

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

Date 10/3/57 *Payee The New Jersey Zinc Company

Per [signature] Title Superintendent

*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:

$ 2062.04 ~~2069.14~~

Signature Helen R. Miller (Authorized Certifying Officer)

Date DEC 10 1957 Vou. No. 94

(See other side)

2069.14

(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 1103 in accordance with the terms of the contract.

Signature [illegible] Title Mining Engr. Date 11/26/57

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE: EXECUTIVE OFFICER DMEA FIELD TEAM

Signature Robert A. Kamen Title REGION V Date NOV 29 1957

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

RECEIVED DEC

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

Month of September 1957 Docket No. DMEA 4674 Contract No. 1103

Operator's Name The New Jersey Zinc Company Minerals Zinc-lead-copper

Address 160 Front Street, New York 38, N.Y.

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 BRWL (AX)	feet	2718.90	1078 ~~1007~~	5219.10	2039 ~~1933~~	-	2040	2.70
Overburden Chord	feet	678.60	~~234~~ 163	1264.40	~~436~~ 340		360	2.90
Auger								
Stripping								
~~Trenching~~ Analyses	1	2100	7	21.00	7	-	100	3.00
~~Test Pits~~ Core boxes	1	-	-	112.50	50	-	50	2.50
Roads and Trails								
Incidental Allowance	feet	719.78	1241	1374.02	2369	-	2400	0.58
TOTAL DISTRIBUTED COSTS		4138.28		7991.02				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		4138.28		7991.02				

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

Date 10/3/57 Operator The New Jersey Zinc Co.

Per [signature] Title Superintendent

REMARKS: Includes all of DDH 75-B, 76-B, 77-B, and 78-B

Some analyses and most of the contractors vouchers for the drilling not received by date of report.

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

(Instructions on reverse)

(For Government use only)

[signature] 11/26/57

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

BONDURANT AREA - NARRATIVE REPORT

SEPTEMBER 1957

During the month of September 1957 a total of 1196 feet was drilled. Drilling on the Bondurant, thus far, can be summarized as follows:

Hole No.	Overburden[x]	BXWL(AX)	Feet in Sept.	Feet to date
72-B	0-82(82')	82-446(364')	—	446'
73-B	0-50(50')	50-314(264')	—	314'
74-B	0-70(70')	70-368(298')	—	368'
75-B	0-50(50')	50-300(250')	5'OB-250'AX	300'
76-B	0-40(40')	40-330(290')	330'	330'
77-B	0-53(53')	53-319(266')	319'	319'
78-B	0-91(91')	91-292(201')	292'	292'
Footage this Month	189'[xx]	1007'	1196'	
Total footage	436'	1933'		2369'

[x] includes NX abd BX footage necessary to set casing.
[xx] If remainder of overburden in hole 75-B is included, even though not drilled this month, the figure becomes 234'.

Holes 75, 76, 77 and 78-B are shown on maps AXV-573, 576, 577 and 578 respectively, which are attached hereto. Formation boundaries on the sections correspond to those used in the attached logs. Abbreviations conform to a standardized list in use at the Mineral office and can also be correlated with the names used on the logs.

The three marker beds "A", "B" and "C", mentioned in the previous report, were penetrated by all the holes and continued to aid in stratigraphic interpretations. The relative projections of the mineralized zone and markers "B" and "C", shown in plan on maps 573, 576, 577 and 578, are generally parallel and indicate stratigraphic control of ore deposition.

Traces of zinc, lead and copper were penetrated between th "B" and "C" markers in all four holes drilled this month. One hole, 78-B, included a high grade zone from 244½ to 246 which was estimated at 7% zinc, 5% lead. Nine feet penetrated in hole 75 assayed 3.01% zinc, 1.23% lead, and 0.06% copper. Other footages sent for assay but not yet returned include 262-271 in 76-B, 269-282½ in 77-B and 228-247 in 78-B.

In general, the grade of the mineralized zone appears to be submarginal, but runs highest near the north and on both sides of the dolerite dike.

DDH 75-B

Started: August 31, 1957
Bottomed: Sept. 6, 1957
Location: 212 feet N65°E of 73-B
Coordinates: 416,332.51N 1,985,197.47E
Bearing: N45° W @ collar, N53° W @ 200'
Inclination: -45° @ collar, -42° @ 200'
Elevation at collar: 345'

0-48	Overburden
48-171	Amphibole-carbonate-biotite-chlorite-quartz gneiss. 130-133 Estimated 6% pyrite.
171-185½	"A" Marker-Carbonaceous biotite-chlorite-quartz schist.
185½-224½	Garnet-biotite-chlorite-quartz schist. "B" Marker-Carbonaceous biotite-chlorite quartz schist @ 199-212. 201-212 Estimated 1% pyrite, 1% pyrrhotite.
224½-290	Sericite-quartz schist and biotite-sericite-quartz schist and gneiss. 237-249 Estimated trace zinc, lead, and copper. 249-253 Assay-4.19% Zn, 1.73% Pb, 0.07%Cu, 2.80%Fe, 4.38% S. // 253-258 Assay-2.07% Zn, 0.82% Pb, 0.06%Cu, 3.92%Fe, 4.62% S. //
290-300	"C" Marker-Carbonaceous biotite-chlorite-quartz schist.
300'	Bottom

DDH 76-B

Started: Sept. 10, 1957
Bottomed: Sept. 16, 1957
Location: 200 feet N44°E of 75-B
Coordinates: 416,475.37N 1,985,336.98E
Bearing: N42° W @ collar, N49½°W @ 200'
Inclination: -46°@ collar, -42°@ 200'
Elevation @ collar: 361'

0-38 Overburden

38-192 Amphibole-carbonate-biotite-chlorite-quartz gneiss, chlorite biotite-quartz gneiss, and carbonate quartzite.
151-157 Estimated 1½% pyrite.
174-177 Estimated 1% pyrite.

192-216 "A" Marker-Carbonaceous biotite-chlorite-quartz schist.

216-250 Garnet-chlorite-quartz schist "B" Marker-Carbonaceous biotite-chlorite-quartz schist @ 228-241.

250-330 Sericite-quartz schist and chlorite-biotite-sericite-quartz schist and gneiss. "C" Marker-Carbonaceous biotite-chlorite-quartz schist @ 297-317.
256-266 Estimated trace of zinc, lead, and copper.
266-271 Estimated 2% zinc and lead, trace copper.
269½-4" Estimated 5% zinc, 2% lead.

330 Bottom

DDH 77-B

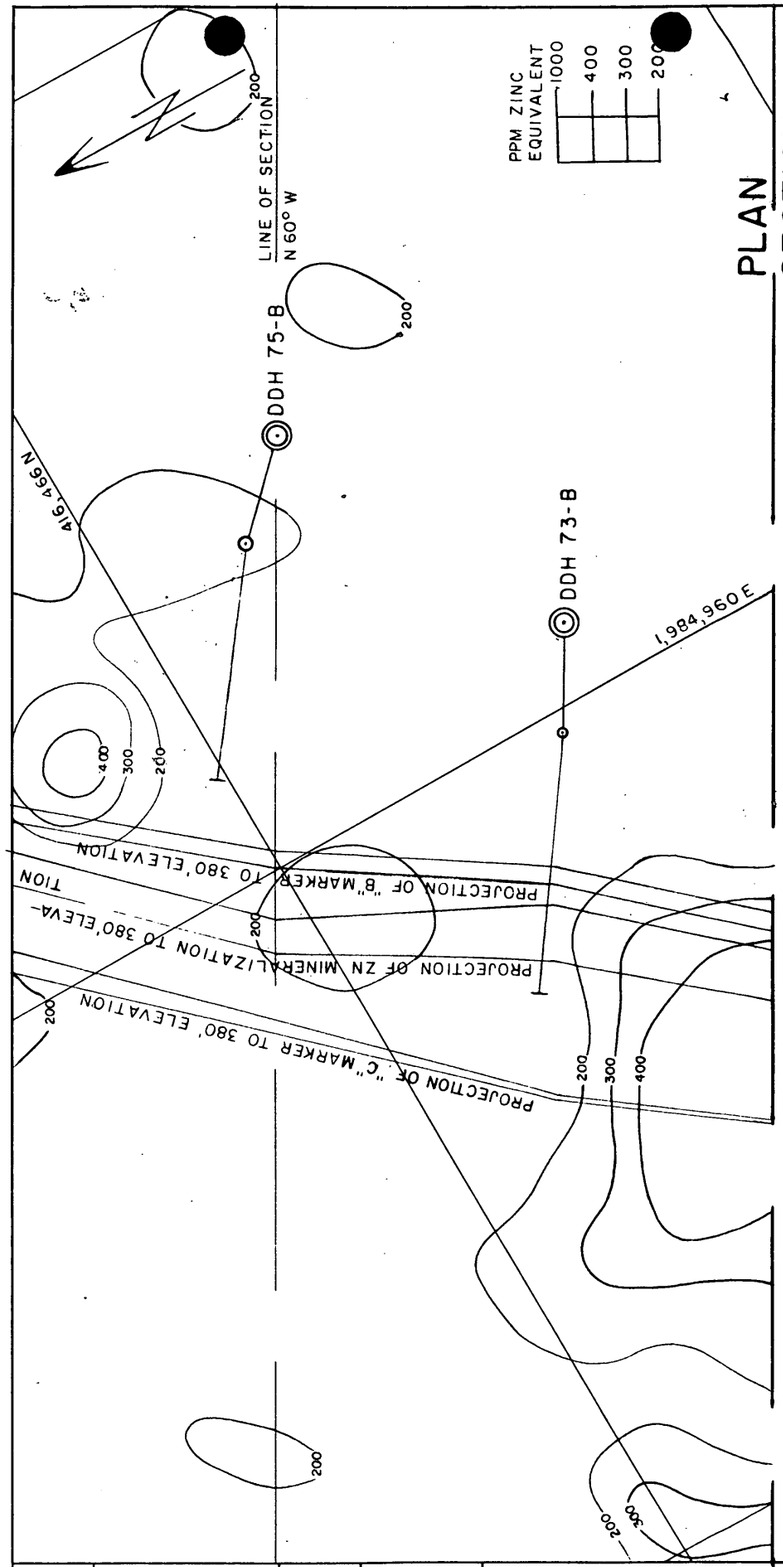
Started: Sept. 18, 1957
Bottomed: Sept. 25, 1957
Location: 204 feet N45°E of 76-B
Coordinates: 416,621.09N 1,985,476.95E
Bearing: N40° W @ collar, N44½° W @ 200'
Inclination: -45° @ collar, -46° @ 200'
Elevation at collar: 359'

0-33	Overburden
33-209	Dolerite-Serpentine-pyroxene-feldspar dike.
209-216	"A" Marker-Carbonaceous chlorite-quartz schist.
216-253½	Garnet-chlorite-quartz schist "B" Marker @ 231-241½.
253½-309½	Biotite-sericite-quartz schist and sericite-quartz schist 257-282½ Estimated 1% zinc, trace lead and copper including an estimated 3% zinc, trace lead and copper @ 269-273.
309½-319	"C" Marker-Carbonaceous chlorite- quartz gneiss.
319	Bottom

DDH 78-B

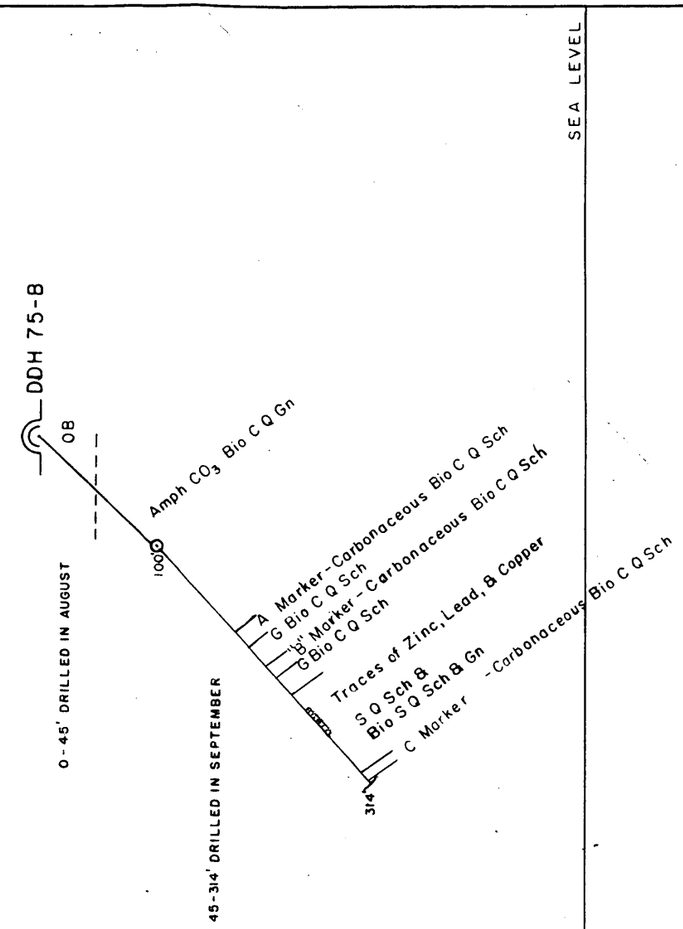
Started: Sept. 26, 1957
Bottomed: Sept. 30, 1957
Location: 370 feet N41°E of 77-B.
Coordinates: 416,915,84N
1,985,697.75E
Bearing: N47° W @ collar,
N56° W @ 200'
Inclination: -45° @ collar,
-42° @ 200'
Elevation at collar; 378'

0-65	Overburden
65-169	Amphibole-biotite-chlorite-quartz gneiss.
169-186½	"A" Marker-Carbonaceous chlorite-quartz schist.
186½-220	Garnet-sericite-chlorite-quartz schist "B" Marker @ 210-221.
220-292	Sericite-quartz schist and biotite-sericite-quartz schist and gneiss. "C" Marker @ 271-287 228-247 Estimated 1% zinc, ¾% lead, trace copper including an estimated 1½% zinc, 2% lead @ 232-236 and an estimated 2% zinc, 1½% lead, trace copper @ 240-247.
292	Bottom



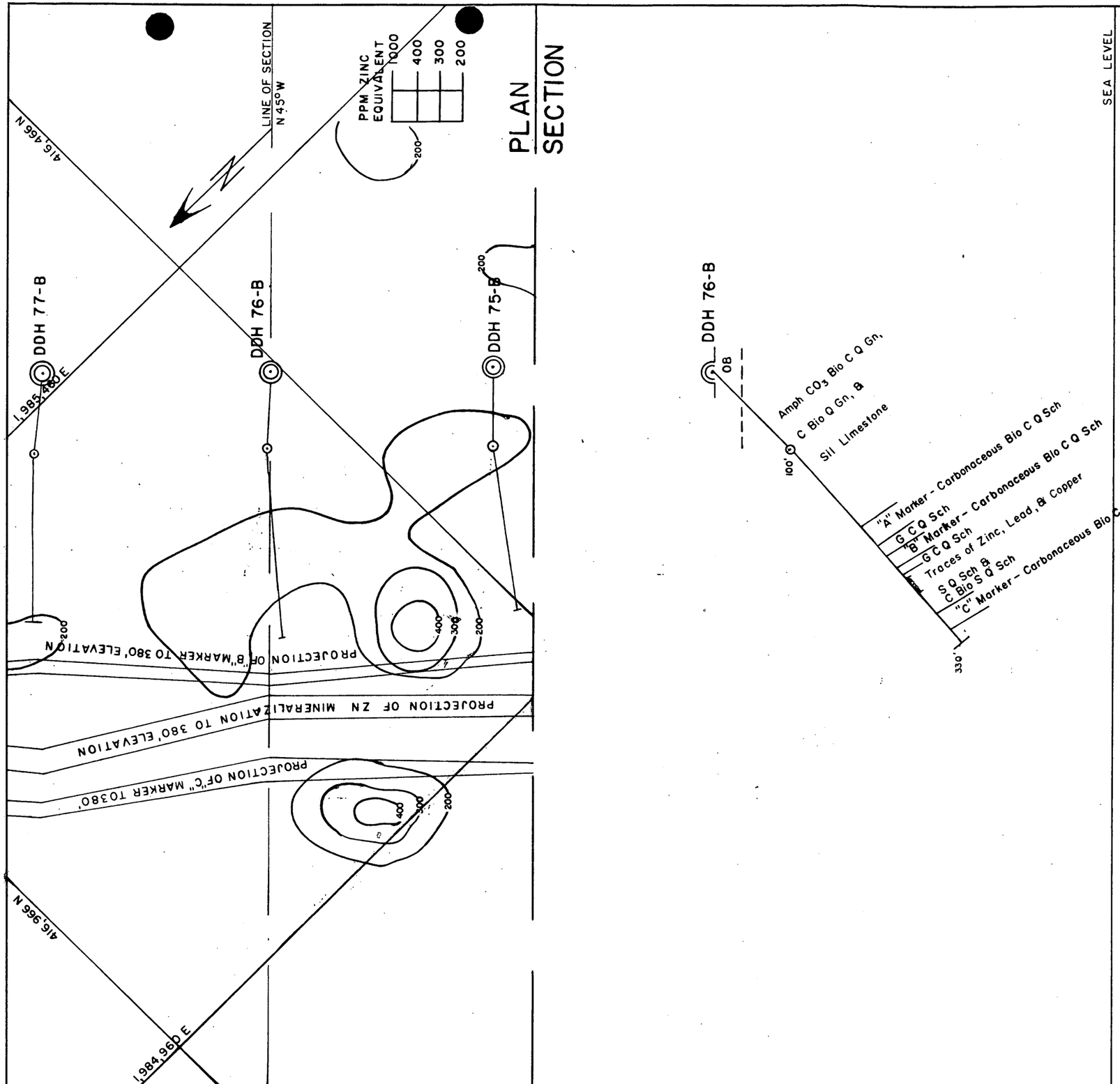
PLAN

SECTION



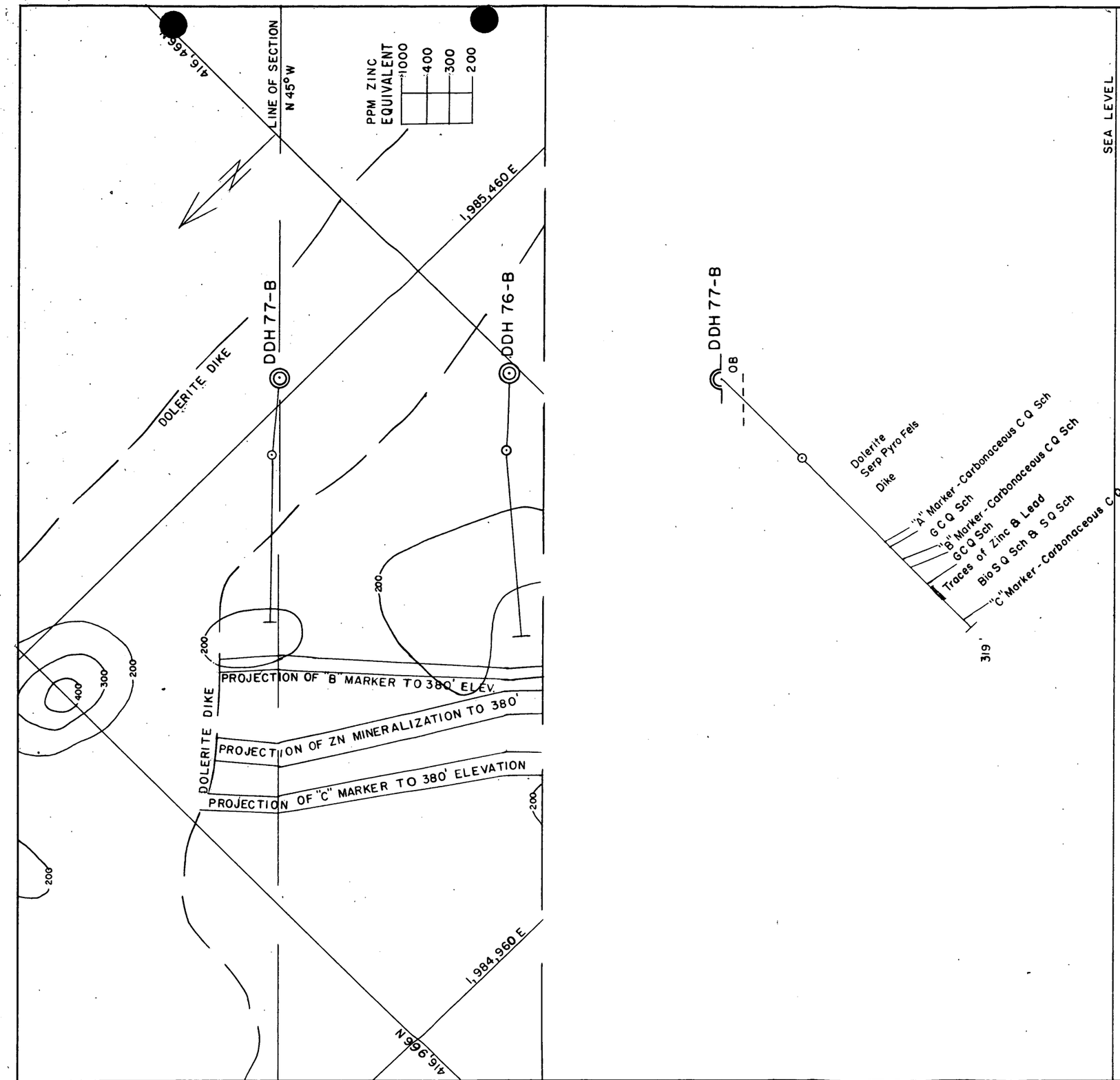
SERIAL NUMBER		DATE ISSUED		REFERENCE DRAWINGS	REVISIONS	THE NEW JERSEY ZINC COMPANY MINERAL, VA.	DRAWN CLH	PLAN & VERTICAL SECTION	DATE 9/10/57
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK. ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED. THIS DRAWING MUST BE RETURNED TO THE NEW JERSEY ZINC COMPANY.				AXV-542-D	CLH 9/10/57		TRACED	DDH 75-B	SCALE 1" = 100'
							CHECKED	BONDURANT AREA	AXV-573-B-A
							APPROVED		

X5453B 1M 11-54



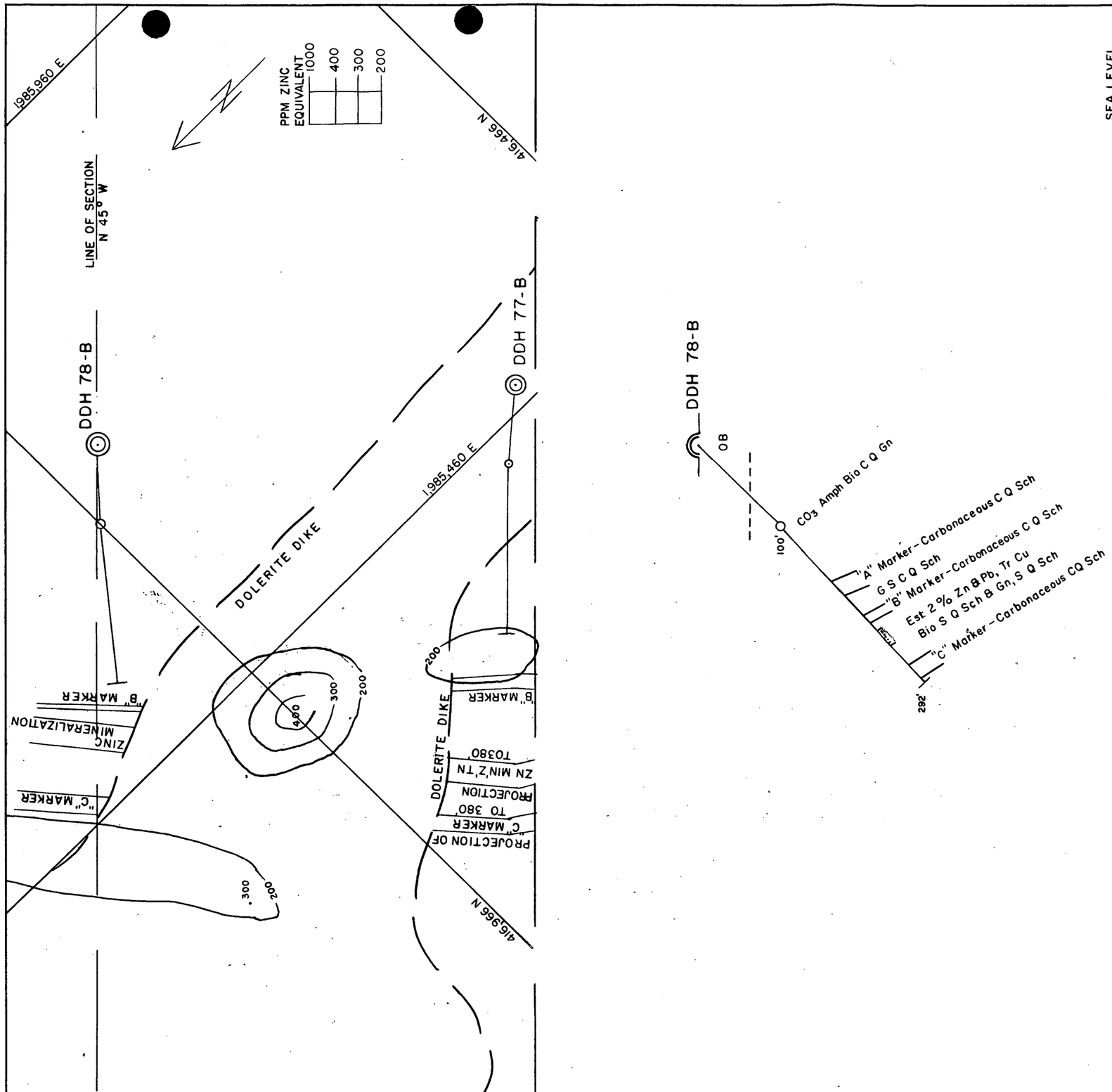
SERIAL NUMBER		DATE ISSUED		REFERENCE DRAWINGS	REVISIONS	THE NEW JERSEY ZINC COMPANY MINERAL, VA.	DRAWN CLH	PLAN & VERTICAL SECTION DDH 76-B BONDURANT AREA	DATE 9/18/57
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK. ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED. THIS DRAWING MUST BE RETURNED TO THE NEW JERSEY ZINC COMPANY.				AXV-542-D	CLH 9/18/57		TRACED		SCALE 1" = 100'
							CHECKED		AXV-576-B-A
							APPROVED		

X5453B 1M 11-54



SERIAL NUMBER		DATE ISSUED		REFERENCE DRAWINGS	REVISIONS	THE NEW JERSEY ZINC COMPANY MINERAL, VA.	DRAWN CLH	PLAN & VERTICAL SECTION	DATE 10/2/57
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK. ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED. THIS DRAWING MUST BE RETURNED TO THE NEW JERSEY ZINC COMPANY.				AXV-542-D	CLH 10/2/57		TRACED	DDH 77-B	SCALE 1" = 100'
							CHECKED	BONDURANT AREA	AXV-577-B-A
							APPROVED		

X5453B 1M 11-54



SERIAL NUMBER		DATE ISSUED		REFERENCE DRAWINGS	REVISIONS	THE NEW JERSEY ZINC COMPANY MINERAL, VA.	DRAWN JET-CLH	PLAN & VERTICAL SECTION	DATE 10/3/57
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK. ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED. THIS DRAWING MUST BE RETURNED TO THE NEW JERSEY ZINC COMPANY.				AXV-542-D			TRACED	DDH 78-B	SCALE 1" = 100'
							CHECKED	BONDURANT AREA	AXV-578-B-A
							APPROVED		

X5453B 1M 11-54

THE NEW JERSEY ZINC COMPANY
(ESTABLISHED 1848)
CABLE ADDRESS
"JERSEZINC"
160 FRONT STREET
NEW YORK 38, N.Y.

October 11, 1957

PLEASE ADDRESS REPLY TO
P. O. Box 67
Mineral, Virginia

W. T. Millar
Supervising Mining Engineer
U. S. Bureau of Mines
College Park, Maryland
Attention: Mr. H. L. Burmeister

Re: Monthly Report
DMEA 4674 (zinc-lead-copper)
Bondurant Area
Buckingham County, Virginia
Contract No. Idm-E 1103

Dear Sir:

Attached is the September 1957 report on our DMEA contract for the Bondurant area. In accordance with our verbal agreement of October 10, 1957 we are including all completed holes on forms 104 and 104-A, even though drillers invoices are not yet available. Thus, the Bondurant project will continue to be treated as it was in the last monthly report. We understand, however, that only completed and invoiced holes will be vouchered on other DMEA projects in the future, even though all footage drilled during the month may be included in the narrative report.

Very truly yours

W. L. Albers,
Superintendent

E. L. Weinberg/jjf
in quintuplicate

OFFICIAL FILE COPY
DMEA
RECEIVED SEP 16 1957

DATE	INITIALS	CODE
9-17	C	220
9/18	Plug	500

INTERIM REPORT

Docket No. DMEA 4674, Contract Idm-E 1103
New Jersey Zinc Company, Bondurant Area
Buckingham County, Virginia

This project was inspected on September 5, 1957 by H. L. ~~Burmeister, Bu~~reau of Mines and Helmuth Wedow, Jr., Geological Survey. This report is by the engineer. The examiners were accompanied by Dr. W. H. Brown, district geologist.

It was found that the Operator's report for the last four days of July and for the month of August had just been completed but not yet mailed to company offices for signature. The report was in good order except that distribution of units and costs had not been made on Form-104A and Form-104 had not been properly completed. On the previous visit the engineer had completed a set of forms to be used as a guide. Corrected forms will be made for the August report. The core stored at the Company's Arminius Mine as well as the remaining core in the field was inspected.

When drill hole B-72 intercepted slight mineralization from 357 to 380 feet it was determined that the dip of the structure was at a higher angle than had been anticipated. For this reason and with Government consent, drill hole B-73 was collared about 200 feet closer to the strike line than B-72. Drill hole B-73 encountered meager zinc mineralization from 169 to 197 feet which is estimated as a trace. The best portion of the core, 189 to 193 feet, was split

for analysis but the results were not yet returned. This hole was bottomed at 314 feet. Drill hole B-74 was collared approximately 200 feet northeast of hole B-73 on the strike line and bottomed at 368 feet. This hole intercepted slight zinc mineralization, estimated as a trace, from 189 to 208 feet. No assays have been made as yet. Drill hole B-75 collared approximately 200 feet northeast of hole B-74, was drilling at 268 feet at the time of visit and was planned to bottom at about 320 feet. Zinc mineralization intercepted from 235 to 260 feet is estimated to be slightly greater than found in the previous holes. For this reason it was agreed that the next hole will be located to the northeast of hole B-75. No assays have been made to date on core from B-75.

Total footage drilled to the time of visit was 1,396 feet. All drilling has been BXWL and at an average rate of 55 feet per shift when drilling. An average of 42 feet per shift is drilled over the period of tearing down at a completed hole, moving to the next location, setting up and drilling out the new hole. Core recovery is exceptionally high although in many sections a foot long core is made up of disks not to exceed 1/8 inch in thickness.

During this visit, the application on the Valzinco Area, DMEA 4673, was reviewed in relation to drill hole locations in the light of results obtained in a self potential survey made subsequent to the Field Team examination. A memorandum of this review is prepared for the Valzinco Area file.

September, 1957

H. L. Burmeister by D.m.E.
H. L. Burmeister, Engineer
U. S. Bureau of Mines

Form MF-204 (Rev. April 1952)

RECEIVED DEC 12 1957 D.M.E.A.

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

PAID ON VOUCHER & SCHEDULE OF PAYMENTS K- 20

OPERATOR'S MONTHLY REPORT AND VOUCHER (Amended)

Month of July & August, 1957 Docket No. DMEA 4674 Contract No. 1103

Operator's Name The New Jersey Zinc Company Minerals Zinc-lead-copper

Address 160 Front Street, New York 38, N.Y.

Contract Amount, $8,370.00 Government Participation: 50 % Amount, $4,185.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent ~~Short Form~~ Contracts:				12/26/57 [illegible]		
Core Drilling BXWL(AX)	2500.20	0	2500.20	2567.70	✓	2567.70
~~Trenching~~ Overburden	585.80	0	585.80	513.30	✓	513.30
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
Core boxes	112.50	0	112.50	112.50	✓	112.50
(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						
Incidental Allowance	654.24	0	654.24	654.24	✓	654.24
(8) Contingencies (specify):						
				3847.74	✓	3847.74
TOTALS	3852.74	0	3852.74	~~3852.74~~	—	~~3852.74~~

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

Date 9/16/57 *Payee The New Jersey Zinc Company

By [signature] Title Superintendent

*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:

$ 1923.87

Signature Helen R. Miller
(Authorized Certifying Officer)

Date DEC 10 1957 Vou. No. 94

(See other side)

1926-37

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. E 1103 in accordance with the terms of the contract.

Signature W. S. Cummington Title Mining Engr. Date 11/26/57

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Robert A. Lawrence Title EXECUTIVE OFFICER DMEA FIELD TEAM REGION V Date NOV 29 1957

MONTHLY REPORT OF OPERATOR

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

RECEIVED DEC 12 1957 D.M.E.A.

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

Month of July, August, 1957 Docket No. DMEA 4674 Contract No. 1103
Operator's Name The New Jersey Zinc Company Minerals Zinc-lead-copper
Address 160 Front Street, New York 38, N.Y.

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 BXL (AX)	feet	2500.20	~~925~~ 951	2500.20	~~926~~ 951	-	2040	2.70
Over Chamburden	feet	535.40	~~202~~ 177	535.40	~~202~~ 177	-	360	2.90
Auger								
Stripping								
Trenching Analyses	1				0	-	100	3.00
Test Pits Core boxes	1	112.50	50	112.50	50	-	50	2.50
Roads and Trails								
Incidental Allowance	fee	654.24	1128	654.24	1128	-	2400	0.50
TOTAL DISTRIBUTED COSTS		3852.74	-	3852.74				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc								
TOTAL COSTS		3852.74	-	3852.74				

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

Date 9/16/57 Operator The New Jersey Co.

By W. L. Albers Title Superintendent

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: Includes all of DDH 72B, 73B, and 74B.

Vouchers for above holes not available by date of report.

(Instructions on reverse)

(For Government use only)

W. W. Burmeister 11/26/57

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

WALTON & WOOD, INC.

Merchants

Building Supplies --- Farm Implements

Dealer for Dodge and Plymouth Cars and Trucks

Terms: Cash

Phone Dial Mineral 2241

Pendletons, Va., 8-1-1957

M New Jersey Zinc Co.

Delivery Service

20	50 Case Paper	@	$112.50

Certified True Copy

THE NEW JERSEY ZINC COMPANY

Geologist

BONDURANT AREA-NARRATIVE REPORT
JULY AND AUGUST 1957

As reported in our letter of August 14, 1957, drilling was begun on the Bondurant area on July 26, 1957. From that date thru August 31, 1957 a total of 1173 feet was drilled, distributed as follows:

Hole No	Overburden*	BXWL(AX)	Total
72 B	0-82(82')	82-446(364')	~~466'~~ 446' 7-13
73 B	0-50(50')	50-314(264')	314
74 B	0-70(70')	70-368(298')	368
75 B	0-45(45')	incomplete	45
Total footage	247'	926'	1173'

*includes NX and BX footage necessary to set casing

Holes 72, 73 and 74 are shown on maps AXV-567,569 and 572 attached. Formation boundaries on the sections correspond to those used in the attached logs. Abbreviations conform to a standardized list in use at the Mineral office and can also be correlated with the names used on the attached logs.

Stratigraphic control was achieved thru recognition of three marker beds, "A", "B" and "C". Each one of these is a thin, black, carbonaceous schist separating formations of different composition.

Mineralization appears to be stratigraphically controlled and traces of zinc and lead up to an estimated 1% were penetrated in all three holes between the "B" and "C" markers.

DDH 72-B

Location: 400 feet south-east of center of gechemical anomaly.
Coordinates: 415,959,98N
1,984,994.06E
Bearing: N39½°W @ collar, -45°;
and N36° W @ 200', -43°;
Inclination: N41° W @ 400' -38½°;
Elevation at collar: 393'

0-80'	Overburden
80-92'	Chlorite-carbonate-sericite-quartz schist. Estimated 3% sulfides, mostly pyrrhotite with some pyrite disseminated through matrix
92-244'	Biotite-chlorite-carbonate-quartz-amphibole gneiss.
244-265½	Carbonate-biotite-sericite-quarts gneiss
265½-279	Carbonate-chlorite-amphibole-quartz gneiss.
279-290	"A" marker-carbonaceous-carbonate-chlorite-quartz schist.
290-327	Garnet-chlorite-quartz schist 285-286 Estimated 3% pyrite 327-330 Estimated 3% pyrite with pyrrhotite "B" marker
327-339½	
339½-446	Carbonate-sericite-quartz gneiss 357-380 Estimated traces of zinc and lead. 379½-380 Estimated 1% zinc; Zinc contained in red and honey-colored sphalerite 437-439-"C" marker
446	Bottom
Evaluation:	Non-productive

DDH 73-B

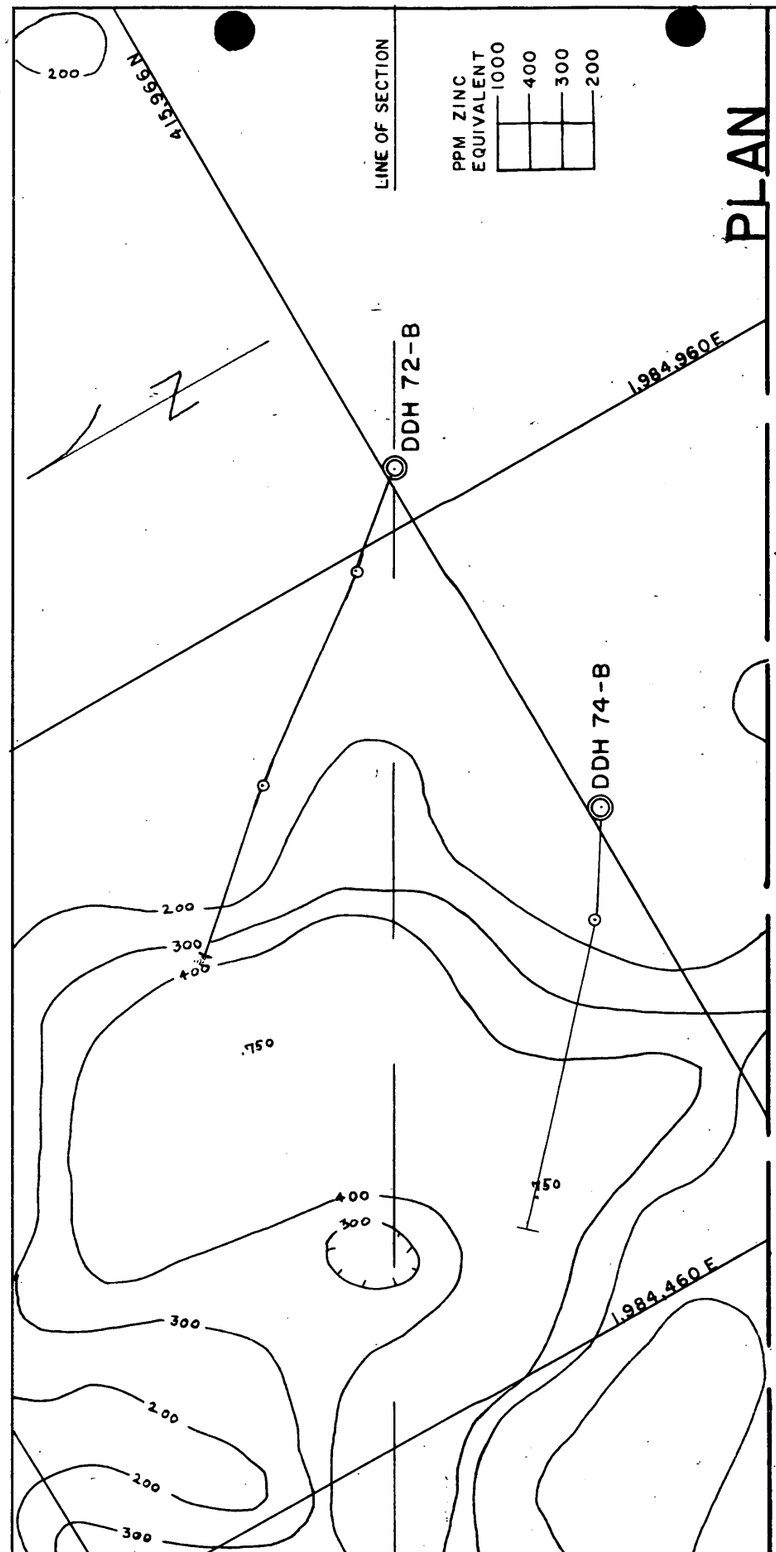
Location: 280 feet N3°E of 72-B
Coordinates: 416,241.69N
1,985,006.71E
Bearing: N59° W @ collar,
N43°W @ 200'
Elevation at collar: 356'
Inclination: -45° @ collar,
-40° @ 200'

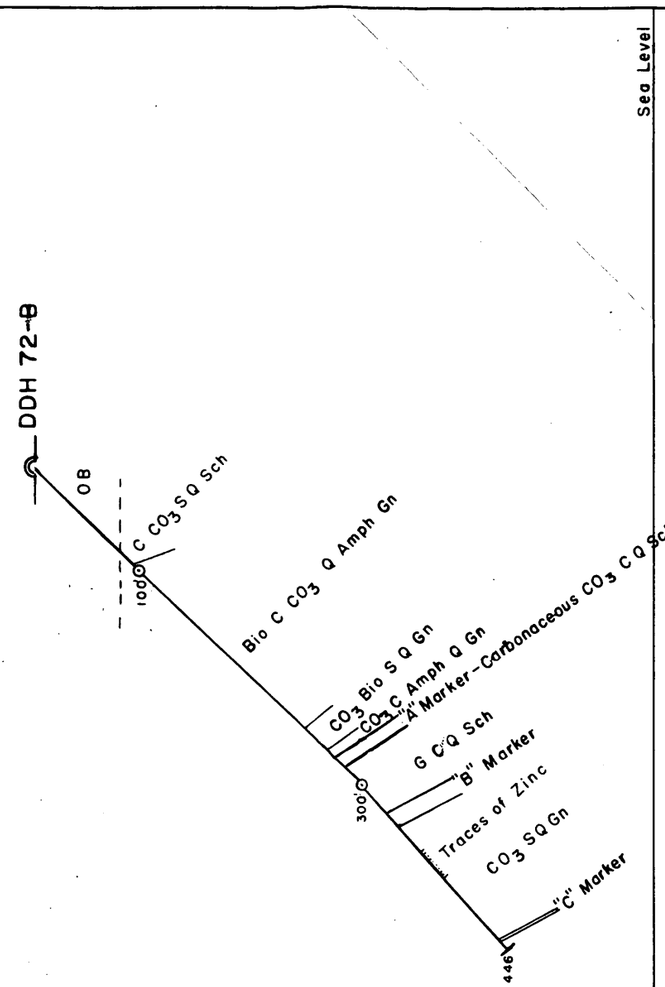
0-37	Overburden
37-98½	Biotite-chlorite-quartz gneiss and amphibole-biotite-chlorite-quartz gneiss, with carbonate. 62½-63½ Estimated 12% pyrite
98½-113	"A" marker-carbonaceous chlorite-quartz gneiss.
113-152	Garnet biotite-chlorite-quartz schist and gneiss. 142½-152-"B" marker
152-282	Sericite-quartz schist and chlorite-biotite-sericite-quartz schist and gneiss. 169-197 Estimated 1% zinc, traces lead zinc in red and honey colored sphalerite 254-260 "C" marker.
282-314	Biotite-chlorite-quartz gneiss
314	Bottom

DDH 74-B

Location: 247 feet S89° W of DDH 72-B
Coordinates: 415,959,02N
1,984,745,97E
Bearing: N57° W @ collar,
N47° W @ 200'
Elevation at collar: 394'
Inclination: -45° @ collar,
-42½° @ 200'

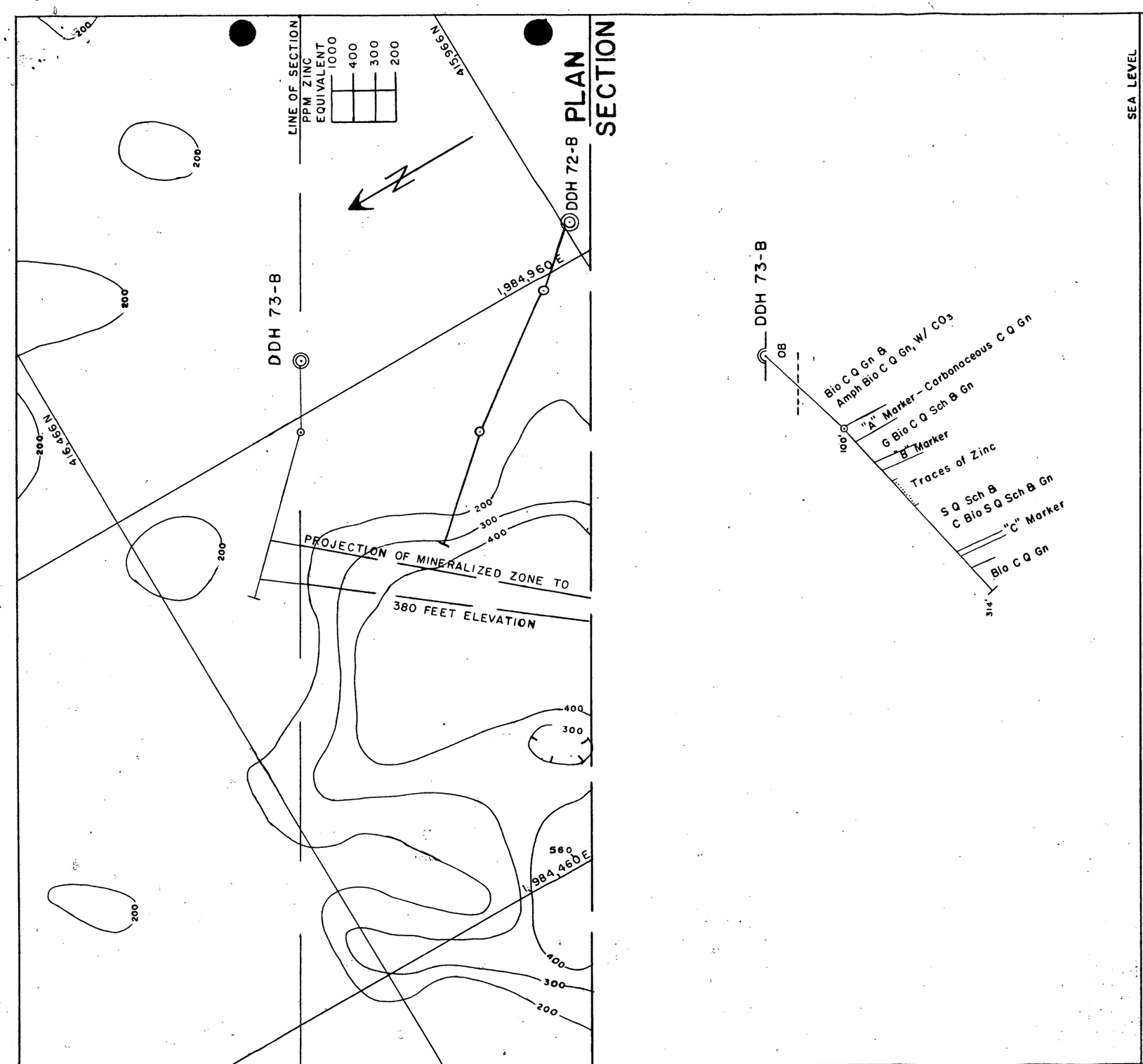
0-60	Overburden
60-112	Biotite-sericite-quartz gneiss and amphibole-biotite-chlorite-quartz gneiss. Estimated 2% pyrite.
131-171	Garnet-biotite-chlorite-quartz schist ("B" marker 158-171)
171-305	Sericite-quartz schist and chlorite-biotite-sericite-quartz schist and gneiss. ("C" marker 282-285½) 193-208 Estimated traces of zinc and lead; zinc contained in honey-colored sphalerite.
305-368	Sericite-biotite-chlorite-quartz schist
368	Bottom





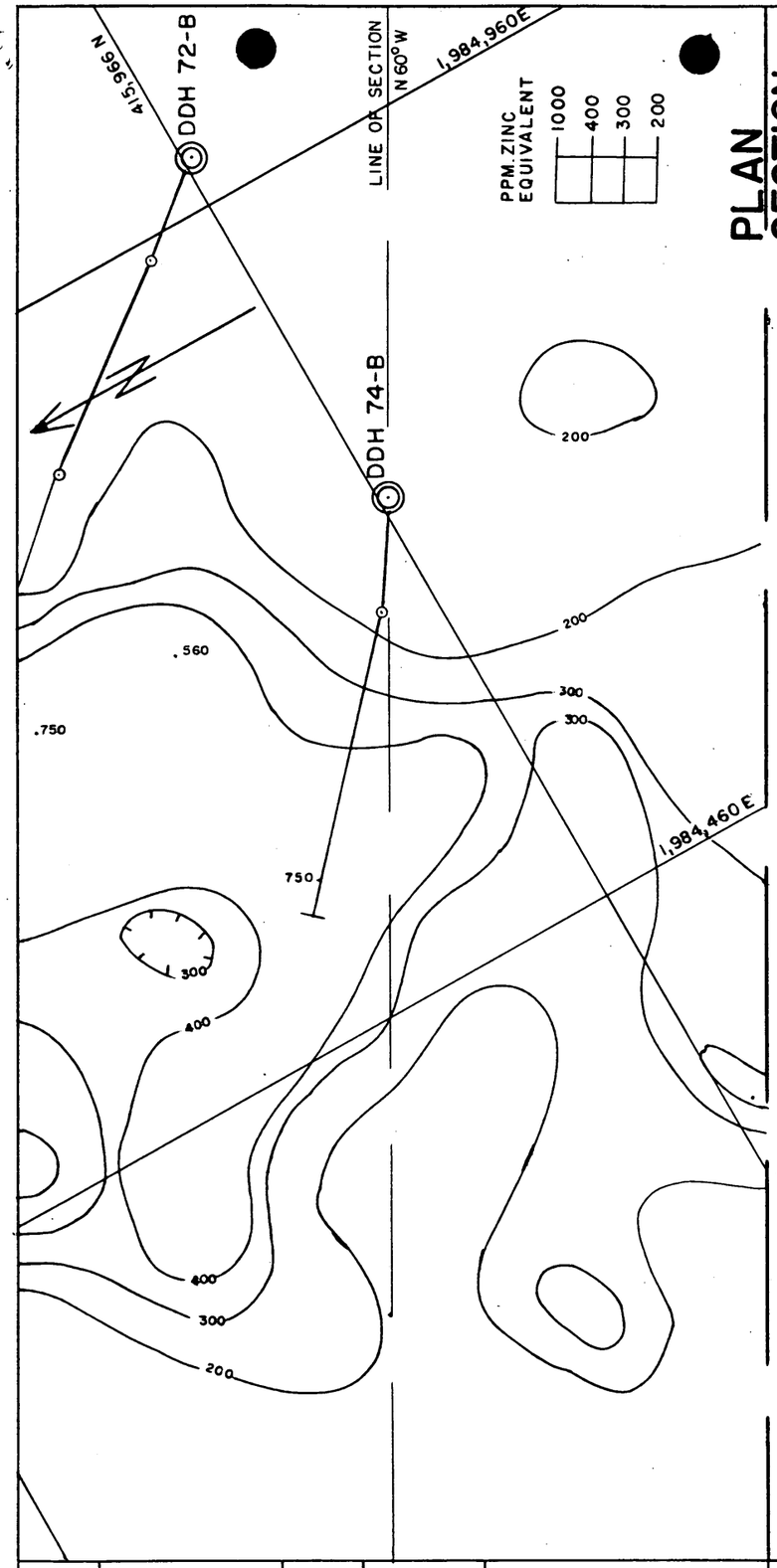
SERIAL NUMBER		DATE ISSUED		REFERENCE DRAWINGS	REVISIONS	THE NEW JERSEY ZINC COMPANY MINERAL, VA.	DRAWN E L W	PLAN & VERTICAL SECTION	DATE 7/57
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK. ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED. THIS DRAWING MUST BE RETURNED TO THE NEW JERSEY ZINC COMPANY.				AXV-542-D	ELW 8/14/57		TRACED		SCALE 1" = 100'
					CLH-8/27/57		CHECKED	DDH 72B	
					CLH 9/4/57		APPROVED	BONDURANT AREA	AXV-567-B-

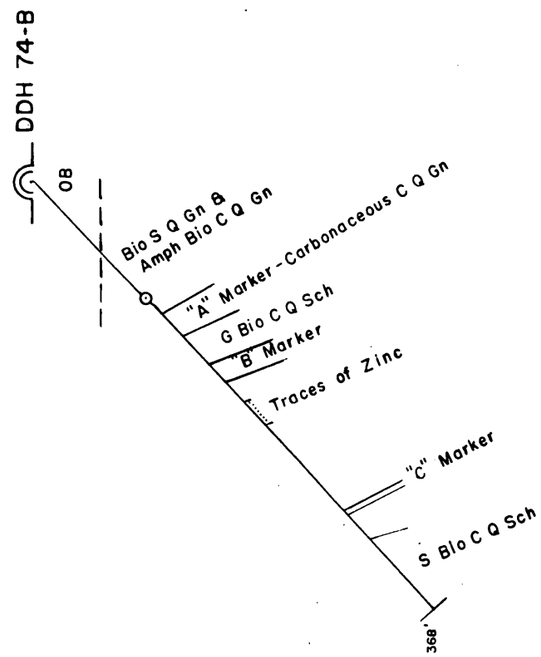
X5453B 1M 11-54



POSTED TO DATE CLH 8/27/57 CLH 9/4/57	THE NEW JERSEY ZINC COMPANY	DRAWN CLH DATE 8/15/57 TRACED SCALE: 1"=100'	PLAN & VERTICAL SECTION DDH 73-B BONDURANT AREA
			DISTRICT MINERAL, VA. FILE NO. AXV-569-B-A

X 5407 B 1M 3-53





SERIAL NUMBER		DATE ISSUED		REFERENCE DRAWINGS	REVISIONS	THE NEW JERSEY ZINC COMPANY MINERAL, VA.	DRAWN CLH	PLAN & VERTICAL SECTION DDH 74-B BONDURANT AREA	DATE 9/4/57
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK. ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED. THIS DRAWING MUST BE RETURNED TO THE NEW JERSEY ZINC COMPANY.				AXV-542-D	CLH 9/4/57		TRACED		SCALE 1" = 100'
							CHECKED		AXV-572-B-A
							APPROVED		

X5453B 1M 11-54

156 IMPERIAL 10248

THE NEW JERSEY ZINC COMPANY
(ESTABLISHED 1848)
CABLE ADDRESS
"JERSEZINC"
160 FRONT STREET
NEW YORK 38, N.Y.

October 11, 1957

PLEASE ADDRESS REPLY TO
P. O. Box 67
Mineral, Virginia

W. T. Millar
Supervising Mining Engineer
U. S. Bureau of Mines
College Park, Maryland
Attention: Mr. H. L. Burmeister

Re: Monthly Report
DMEA 4674 (zinc-lead-copper)
Bondurant Area
Buckingham County, Virginia
Contract No. Idm-E 1103

Dear Sir:

Attached is the September 1957 report on our DMEA contract for the Bondurant area. In accordance with our verbal agreement of October 10, 1957 we are including all completed holes on forms 104 and 104-A, even though drillers invoices are not yet available. Thus, the Bondurant project will continue to be treated as it was in the last monthly report. We understand, however, that only completed and invoiced holes will be vouchered on other DMEA projects in the future, even though all footage drilled during the month may be included in the narrative report.

Very truly yours

W. L. Albers,
Superintendent

E. L. Weinberg/jjf
in quintuplicate

THE NEW JERSEY ZINC COMPANY

(ESTABLISHED 1848)

CABLE ADDRESS
"JERSEZINC"

160 FRONT STREET,

NEW YORK 38, N.Y.
September 16, 1957

PLEASE ADDRESS REPLY TO
P. O. Box 67
Mineral, Virginia

Mr. Robert A. Laurence
Regional Executive Officer
Defense Minerals Exploration Administration
Room 13, Post Office Building
Knoxville 2, Tennessee

Subject: Monthly Reports
Docket DMEA 4674, Contract 1103
Bondurant Area, Buckingham
County, Virginia

Dear Mr. Laurence:

Your letter of September 11, 1957 has been received and its contents noted. According to your request we shall only voucher completed holes hereafter although we shall include, in the narrative, all footage drilled. We are forwarding, herewith, corrected vouchers for July and August which omit the 45 feet in hole 75-B. You may either substitute these in place of the vouchers already submitted or discard them if it appears too late for such a substitution. Please notify us if you choose to use the substitute vouchers since we will then include all of hole 75-B in the report for September.

Our contractor bills us for each hole on its completion and not monthly as you mention. Because of rather circuitous routing of the vouchers we do not receive them for a month or two after the hole completion. We will forward them as soon as possible after receipt.

If we understand your last comment correctly, in the future all five copies of our reports should be sent directly to Mr. H.L. Burmeister in College Park, Maryland, who will in turn forward copies to you.

Very truly yours,

W. L. Albers,
Superintendent

E.L.W.
E. L. Weinberg/jjf
In quintuplicate

RECEIVED
SEP 19 1957
College Park
Knoxville, Tenn.

OFFICIAL FILE COPY
DMEA
RECEIVED AUG 23 1957

DATE	INITIALS	CODE
8/23	Com	100
8/26	[illegible]	500

INTERIM REPORT

DMEA-4674, Idm-E1103 (Copper-lead-zinc)

Operator: The New Jersey Zinc Company, Austinville, Virginia

Location: Bondurant area, Buckingham County, Virginia

Since the last inspection of the Bondurant project by H. L. Burmeister on August 1, 1957 one diamond drill hole has been completed. A summary of the available data on this hole follows:

Hole No.	Property	Total Depth	Remarks
72B	Burruss	446	0-80 Overburden; 80-446 Carbonate-bearing quartz-mica schists and gneisses with some garnet and amphibole locally abundant. Rare pyrite and pyrrhotite throughout, though locally abundant. Two prominent fault zones @ 274-285 and 429-431. Significant mineralization: scattered shines of sphalerite and pyrite with traces of galena @ 363-380. Drill hole surveys show the following bearings and inclinations: Collar: N. 36½ W., -43NW; at 200 feet: N42W, -43NW; at 400 feet: N41W, -38½NW. Collar elevation: 393 feet.

Hole 73B was drilling at the time of the current inspection. By agreement with Burmeister the Operator moved the site of Hole 73B to a position about 200 feet northwest of the site 200 feet northeast of DDH-1 (72B) as shown on the map accompanying the contract. Thus, Hole 73B is about 280 feet almost due north of Hole 72B. On the completion of Hole 73B, the next hole will be located at a site about 100 feet up dip (northwest) from the location originally planned at 400 feet northeast of the first hole. Available pertinent information on Hole 73B is given below:

Hole No.	Property	Present Depth	Est. Total Depth	Remarks
73B	Burruss	154	375	0-31 Overburden; 34-154 rock as in Hole 72B; prominent fault zone @ 94-106 probably same as that @ 274-285 in Hole 72B.

Inspected: August 16, 1957

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

EXTRA COPY
D M E A
RECEIVED AT
DATE | | CODE
8/22 | 78 | 110
8/22 | Klug | 500

Austinville, Va.
August 14, 1957

Regional Executive Officer
Defense Minerals Exploration Administration
Room 13, Post Office Building
Knoxville 2, Tennessee

Subject: Monthly Report
Docket DMEA #4674, Contract #1103
Bonderant Area, Buckingham County, Va.

Dear Sir:

The drilling on the Bonderant Project was begun on July 26, 1957. The first hole, 72-B, was at a depth of 134 feet at the end of the month. This hole is incomplete.

It is our understanding that a report should be submitted after a hole is completed and we have been billed for the same, and inasmuch as 72-B is incomplete no report is being forwarded.

Very truly yours,

W. L. Albers,
Superintendent

WHoratioBrown/mjf
In quintuplicate

OFFICIAL FILE COPY
DMEA
RECEIVED AUG 9 1957

DATE	INITIALS	CODE
8/9	P.K	220
8/12	Com	100
8/21	Hug	500

INTERIM REPORT

Docket No. DMEA 4674 - Contract Idm-E 1103
New Jersey Zinc Company, Bondurant Area
Buckingham County, Virginia

This project was inspected on August 1, 1957 by H. L. Burmeister, Bureau of Mines. The engineer was accompanied by Mr. W. H. Brown, district geologist for the Operator and Mr. E. L. Weinberg, company geologist in direct charge of this exploration.

The E. J. Longyear Company moved in a single drill on July 25 and started drilling on July 26, 1957. The drill is practically new and is truck mounted as is the tubular steel head rig. Drilling is being done with BXWL equipment. Operations are on a single shift, 6 day per week basis and may continue so on this contract due to lack of drill operators.

At the time of visit, the first hole, 72B was at 258 feet and had penetrated 80 feet of overburden and 178 feet of rock. The rock is a carbonate series of quartz gneisses containing some garnet and amphibole. Sparse pyrite and pyrrhotite mineralization appears in most of the core to date. A Tro-Pari hole survey was made during the visit, indicating a bearing of N 42° W and an inclination of 43 degrees. The hole has flattened 1 degree per 100 feet below overburden. Drill hole 72B is located on the ground as specified in the examination report and contract maps. The coordinate numbers have been slightly changed to accommodate the anomalies.

It is planned to drill the second hole, 73B at a point 200 feet northeast of hole 72B. If ore is found in 73B it is planned to drill 74B at a point 200 feet northeast of hole 73B.

Report forms were left with Mr. Weinberg, who is in direct charge of this exploration. The manner of completing a monthly report was reviewed with Mr. Weinberg and Mr. Brown. Mr. Brown stated that in the case of other New Jersey Zinc Company contracts now operating, the drilling company vouchers were submitted the month following the actual drilling. It was agreed that this procedure would also apply to this contract. Core logs will be submitted for all drilling done each month and will not be held for completion of a hole.

The Operator's first monthly report will include work done in late July and all of August.

August, 1957

H. L. Burmeister

H. L. Burmeister
Mine Examination and Exploration
Engineer, U.S. Bureau of Mines