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

RECEIVED
FEB 27 1958
D.M.E.A.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1036.5

PAID ON VOUCHER & SCHEDULE OF PAYMENTS K- 62

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of January, 1958 Docket No. DMEA 4673 Contract No. Idm-E-1109
Operator's Name The New Jersey Zinc Company Minerals Zinc-lead-copper
Address 160 Front Street, New York 38, NY
Contract Amount, $12,770.00 Government Participation: 50 % Amount, $6,385.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling BXWL (AX)	2527.20	4468.50	6995.70	3/14/58		
Bulldozing Overburden	701.80	3134.90	3836.70			
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
Core boxes	-	315.00	315.00			
(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 allowances	353.40	820.80	1174.20			
Analyses	-					
(8) Contingencies (specify):						
TOTALS	3582.40	8739.20	12321.60	3582.40	8739.20	12321.60

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

Date Jan. 20, 1958 Payee The New Jersey Zinc Company

Per W. L. Allen Title General Supt.

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

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

(Instructions on reverse)

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

$ 1791.20

Signature Peter R. Miller
(Authorized Certifying Officer)

Date FEB 25 1958 Vou. No. 135

(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 1109 in accordance with the terms of the contract.

Signature W. L. Summerlatte Title Mining Engr. Date 2/10/58

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature D. Lynch Title ACTING EXECUTIVE OFFICER DMEA REGION V Date FEB 18 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 27 1958 D.M.E.A.

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of January 1958 Docket No. DMEA 4673 Contract No. Idm-E-1109

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 BXWL(AX)	feet	2527.20	936	6995.70	2591		3400	2.70
Over ~~Overburden~~	feet	701.80	242	3836.70	1323		600	2.90
Auger								
Stripping Analyses	1	-	-	-	-		100	3.00
Trenching Core boxes	1	-	-	315.00	140		140	2.50
Test Pits								
Roads and Trails								
Incidental allowance	feet	353.40	1178	1174.20	3914		4000	0.30
Total Distributed Costs		3582.40		12321.60				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs		3582.40		12321.60				

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 January 20, 58 Operator The New Jersey Zinc Co.

Per W. L. Albers Title General Supt.

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)

Remarks: Costs this month are for holes 85, 86 and 87. This completes the reporting of costs for the Valzinco area.

(For Government use only)

W. W. Burmeister 2/10/58

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

INTERIM REPORT

DMEA-4673, Idm-E1109 (Zinc-Lead- Copper) 1/16 gb 220
1/3 Cou 100
1/20 Klg 500

Operator: The New Jersey Zinc Company, Mineral Virginia

Location: Valzinco Area, Spotsylvania County, Virginia.

During this Interim the two remaining holes to be drilled under contract were completed. Drill hole 85-V had been completed prior to the last report but had not been logged. Pertinent information concerning these holes is as follows:

Hole No.	Total Depth	Remarks
85-V	424 ft	Bearing at collar N66°W. Inclination at collar -60°. Bearing at 200' depth N61 1/2°W Inclination at 200' - 56° From 0-90' was overburden. Material encountered was biotite schist. Traces of Pb, Zn and Cu was found from 251-320' and from 396-419'.*
86-V	370 ft	Bearing at collar N70°W. Inclination at collar - 59°. Bearing at 200' N66 °W. Inclination at 200' -53°. Overburden from 0-90 ft. Material encountered was biotite schist. Scattered traces of Pb, Zn, and Cu mineralization was found from 212-257', 271-278', 291-366.*
87-V	384 ft	Loc: 400 ft SW of 86-V. Bearing at collar- N68°W. Inclination at collar 60°. Bearing at 300' - N65 1/2°W Inclination at 300' - 46°. Overburden from 0-62'. Traces of Zn and Pb mineralization from 106-308'.*

* No assays were made on any of this core because only traces were found.

The Operator's December voucher and reports have been corrected in conformance with H. L. Burmeister's letter of Dec. 30, 1957 to the Operator relative to NX and BX drilling.

The location of DDH 87-V was indefinite in the Interim Report of December 6, 1957. The hole location was to be dependent upon results obtained from 85-V and 86-V. On completion of these holes, 87-V was located 400 feet southwest of 86-V which was the better hole.

Inspected: January 8, 1958

H. L. Burmeister, Mining Engineer
Bureau of Mines

L. E. Shirley, Mining Engineer
Bureau of Mines

Helmuth Wedow, Jr., Geologist
Geological Survey

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

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

PAID ON VOUCHER & SCHEDULE OF PAYMENTS K- 35

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of December 1957 Docket No. DMEA 4673 Contract No. Idm-E-1109

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

Address 160 Front Street, New York 38, NY

Contract Amount $12,770.00 Government Participation: 50 % Amount, $6,385.00

ITEMS OF COSTS	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling BXWL(AX)	2721.60	1746.90	4468.50	1/20/58		
Overburden	1499.30	1635.60	3134.90			
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
Core boxes	--	315.00	315.00			
(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	457.50	363.30	820.80			
Analyses	--	--	--			
(8) Contingencies (specify):						
TOTALS	4678.40	4060.80	8739.20	4678.40	4060.80	8739.20

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

Date 1/3/58 *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:

$ 2339.20

Signature Helen R. Miller
(Authorized Certifying Officer)

Date JAN 16 1958 Vou. No. 116

(See other side)

2339.20

(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 1109 in accordance with the terms of the contract.

Signature R. L. Burmeister Title Mining Engr. Date 1/13/58

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Robert A. Lawrence Title EXECUTIVE OFFICER DMEA FIELD TEAM REGION V Date JAN 15 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
OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of December 195 57 Docket No. DMEA 4673 Contract No. Idm-E-1109
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 BXWL(AX)	feet	2721.60	1008	4468.50	1655		3400	2.70
Over burden	feet	1499.30	517	3134.90	1081		600	2.90
Auger								
Analyses	1	--	--	--	--		100	3.00
Core boxes	1	--	--	315.00	140		140	2.50
Test Pits								
Roads and Trails								
Incidental Allowance	feet	457.50	1525	820.80	2736		4000	0.30
Total Distributed Costs		4678.40		8739.20				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs		4678.40		8739.20				

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: Costs this month are for holes 82, 83 and 84

Date 1/3/58 Operator The New Jersey Zinc Co.

Per 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.

(Instructions on reverse)

(For Government use only)

1/13/58

MINING ENGINEER
U. S. BUREAU OF MINES

INSTRUCTIONS

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

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

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

GPO 872894

Valzinco Area - Narrative Report

December 1957

During December 1957, a total of 921 feet was drilled in holes 85-V through 87-V. Drilling of the Valzinco area was completed December 30 when DDH 87-V was bottomed. The drill is now moving to the Hunter area in Louisa County.

The drilling can be summarized as follows:

Hole No.	Overburden	BXWL (AX)[x]	Feet in December	Feet to Date
79-V	0-224 (224)	224-433 (209)	-	433
80-V	0-190 (190)	190-404 (214)	-	404
81-V	0-150 (150)	150-374 (224)	-	374
82-V	0-193 (193)	193-689 (496)	-	689
83-V	0-174 (174)	174-354 (180)	-	354
84-V	0-150 (150)	150-482 (332)	-	482
85-V	0-90 (90)	90-424 (334)	344	424
	(10' in Dec.)			
86-V	0-90 (90)	90-370 (280)	370	370
87-V	0-62 (62)	62-384 (322)	384	384
Footage this month	162	936	1098	
Total footage	1323	2591		3914

Drill holes 85-V, 86-V, and 87-V are shown on maps AXV-601, 602, and 603 respectively, which are attached. Formation boundaries correspond to those used in attached logs. Abbreviations conform to a standardized list in use at the Mineral office and can be correlated with the names used on the logs.

The three drill holes penetrated gneisses and schists similar to those penetrated by previous drill holes, with correlation still difficult.

All three holes penetrated traces of sphalerite, galena, and chalcopyrite but a definite mineralized zone is not present. Hole 86 penetrated the best showings but only in trace amounts.

[x] includes NX and BX footage necessary to set casing

North Valzinco, Anomaly 3

DDH 85-V

Started: November 29, 1957
Bottomed: December 4, 1957
Location: 403 feet N39°E of 84-V
Coordinates: 92,310.16N
74,877.25E
Elevation: 347
Bearing: N66°W @ collar
N61½°W @ 200'
Inclination: -60° @ collar
-56° @ 200'
Objective: Test geochemical anomaly

0 - 90	Overburden
90 - 206½	Biotite-sericite-quartz-feldspar schist
206½ - 424	Feldspar-biotite-sericite-quartz schist and gneiss 251-320, 361½, 396-419 - Scattered traces of zinc, lead, copper
424	Bottom

North Valzinco, Anomaly 3

DDH 86-V

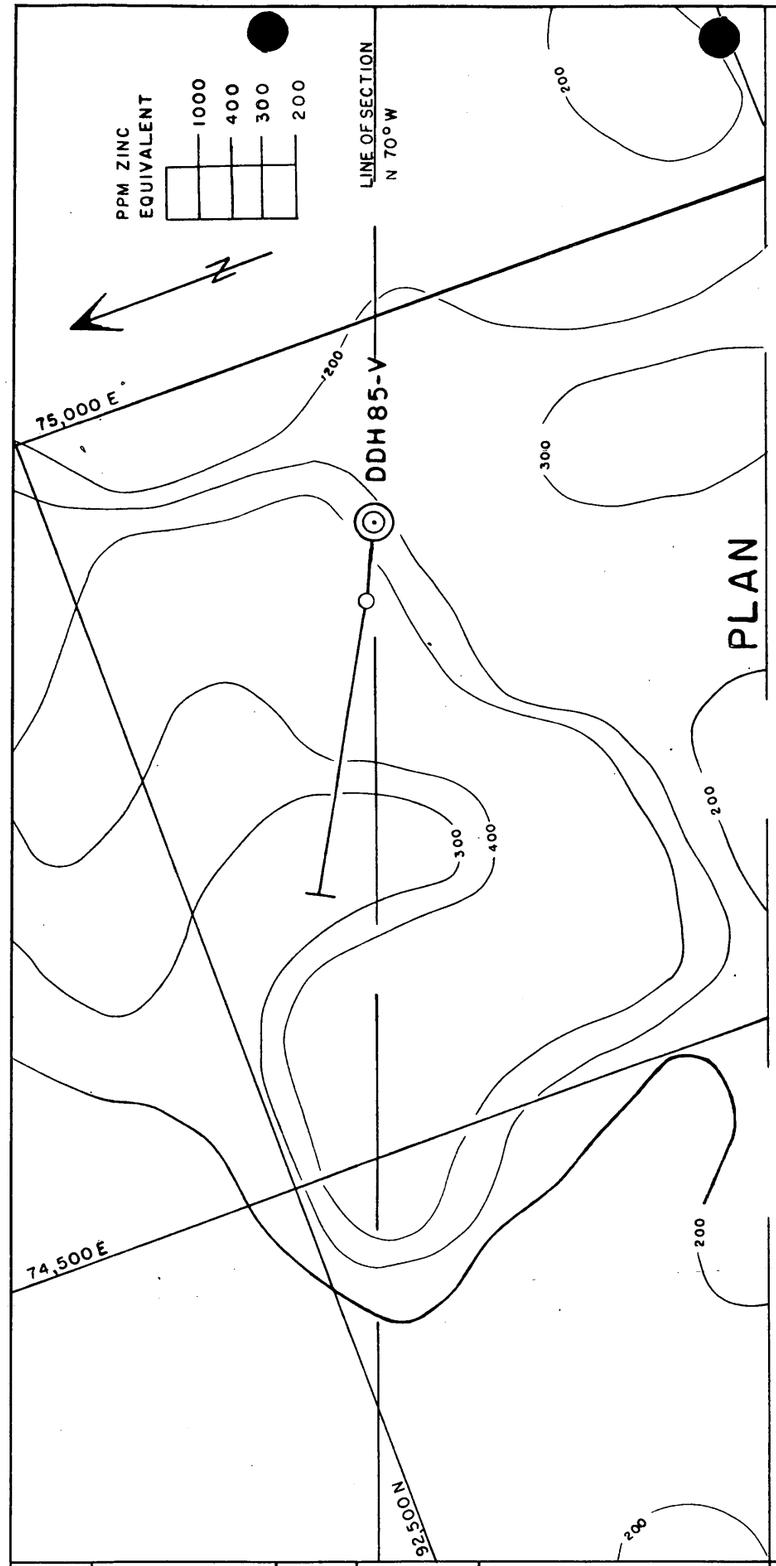
Started: December 7, 1957
Bottomed: December 16, 1957
Location: 396 feet S41°W of DDH 84-V
Coordinates: 91,690.90N
74,877.25E
Elevation: 387
Bearing: N70°W @ collar
N66°W @ 200'
Inclination: -59° @ collar
-53° @ 200'
Objective: Test geochemical anomaly

0 - 90	Overburden
90 - 190	Quartz-sericite-biotite-feldspar gneiss (137½-151½ Diabase)
190 - 370	Feldspar-biotite-sericite-quartz schist and gneiss 212½-257, 271-278, 291-366 - Scattered traces of zinc, lead and copper
370	Bottom

DDH 87-V

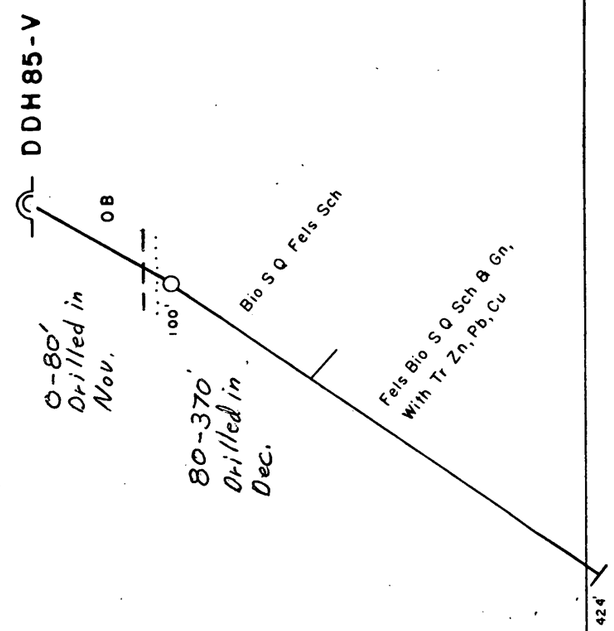
Started: December 18, 1957
Bottomed: December 30, 1957
Location: 402 feet S40°W of 86-V
Coordinates: 91,384.02N
74,106.56E
Elevation: 395
Bearings: N68°W @ collar,
N65½°W @ 300'
Inclination: -60° @ collar
-46° @ 300'
Objective: Test geochemical anomaly

0 - 62	Overburden
62 - 103	Biotite-quartz sericite-feldspar gneiss and conglomerate
103 - 193	Sericite-quartz-feldspar schist and gneiss 106-193 Traces of zinc and lead
193 - 384	Biotite-sericite-feldspar-quartz schist and gneiss 195-308 Traces of zinc and lead
384	Bottom



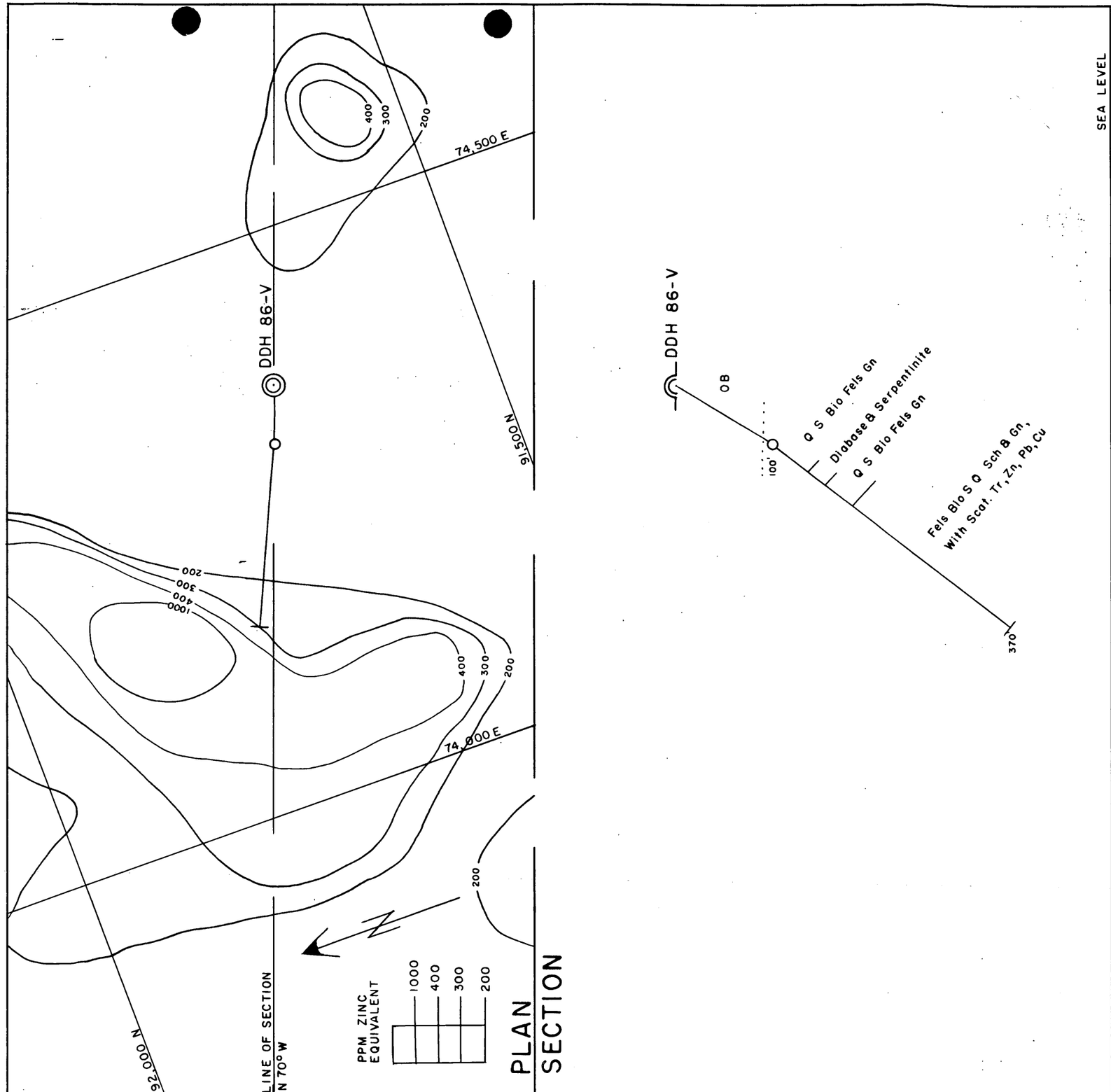
PLAN

SECTION



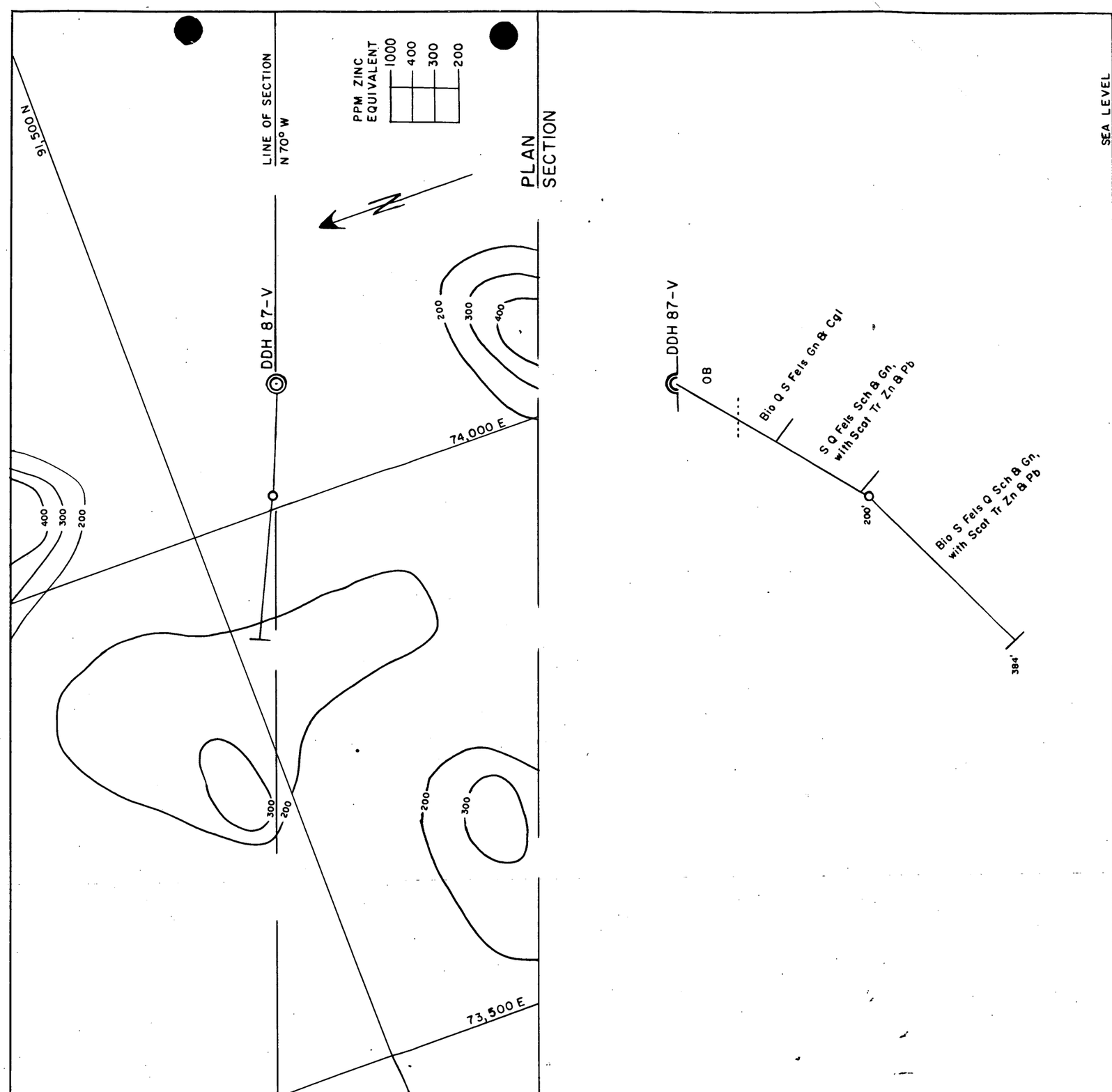
SERIAL NUMBER		DATE ISSUED		REFERENCE DRAWINGS	REVISIONS	THE NEW JERSEY ZINC COMPANY MINERAL, VA.	DRAWN W.R.H.	PLAN & SECTION DDH 85-V NORTH VALZINCO AREA	DATE 12/10/57
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK. ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED. THIS DRAWING MUST BE RETURNED TO THE NEW JERSEY ZINC COMPANY.				AXV-554-D-B			TRACED		SCALE 1" = 100'
							CHECKED		AXV-601-B-A
							APPROVED		

X5453B 1M 11-54



SERIAL NUMBER		DATE ISSUED		REFERENCE DRAWINGS	REVISIONS	THE NEW JERSEY ZINC COMPANY MINERAL, VA.	DRAWN CLH	PLAN & SECTION DDH 86-V NORTH VALZINCO AREA	DATE DEC. 17, 1957
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 - 554 - D			TRACED		SCALE 1" = 100'
							CHECKED		AXV - 602 - B - A
							APPROVED		

X5453B 1M 11-54



SERIAL NUMBER		DATE ISSUED		REFERENCE DRAWINGS	REVISIONS	THE NEW JERSEY ZINC COMPANY MINERAL, VA.	DRAWN CLH	PLAN & SECTION DDH 87-V NORTH VALZINCO AREA	DATE 1/2/58
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-554-D			TRACED		SCALE 1" = 100'
							CHECKED		AXV-603-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.

January 2, 1958

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, December 1957
DMEA 4673, Contract Idm-E-1109
Valzinco Area
Spotsylvania County
Virginia

Dear Mr. Burmeister:

Attached is the December, 1957 report on our DMEA contract for the Valzinco area.

Very truly yours,

W. L. Albers,
Superintendent

CLHamilton/mmk
in quintuplicate

OFFICIAL FILE COPY
DMEA
RECEIVED DEC 18 1957

DATE	INITIALS	CODE
12/18	gb	220 DMEA
12/23	Klug	

X

INTERIM REPORT ON OPERATING CONTRACT

4673 (zinc, lead, copper) Contract Idm-E1109
New Jersey Zinc Company, Valzinco Area
Spotsylvania County, Virginia

Operations under this contract were inspected on December 6, 1957 by W. P. Williams, Geological Survey and H. L. Burmeister, Bureau of Mines. Operations under the terms of the contract were discussed and reviewed with Messrs. E. Weinberg and C. Hamilton, geologists for the Operator.

At the time of the last report, November 14, core drill hole 83-V had penetrated 174 feet of overburden on the 60 degree hole and was drilling at 253 feet. The hole was drilled and bottomed in mica schist at 354 feet. From 181½ feet to 308 feet, the core contains only scattered traces of zinc, lead and copper mineralization with the exception of the ½ foot section from 244½ feet to 245 feet which is estimated at 2.0 percent zinc and 0.25 percent copper. This is the last hole that will be drilled on anomaly No. 2.

Drill hole 84-V, the initial hole on anomaly No. 3, was collared at a point 135 feet N 60° W. of the original contract indicated location. This hole penetrated 150 feet of overburden and continued through gneiss, conglomerate and schist to bottom at 482 feet. Traces of zinc, lead and copper mineralization were found from 160 feet to 482 feet with the exception of the following brackets ---

160½'	to 161'	- estimated	½% Zn,	Trace	Pb
214½'	to 215'	- "	1/4 % Zn,	"	Pb
346'	to 347'	- "	1/4 % Zn,	"	Pb and Cu
437'	to 438½'	- "	1½% Zn,	"	Pb
445'	to 445½'	- "	1½% Zn,	"	Pb
448'	to 448½'	- "	1½% Zn,	"	Pb

Drill hole 85-V is collared 400 feet N20° E of the initial hole as indicated on anomaly No. 3 on the contract map. The hole is drilled at this location and on a 60 degree inclination in an effort to reduce overburden drilling. Overburden accounted for 90 feet of drilling and the hole bottomed at 425 feet. None of the core had been logged at the time of visit.

At the time of visit the drill was being moved to the location of hole 86-V which is 450 feet S 59° W of the originally designated location of the initial hole on anomaly No. 3. The change in location and inclination to 60° is also due to overburden conditions. This will be the eighth hole drilled as hole 82-V took the place of two holes as previously reported.

The location of drill hole 87-V will depend upon results obtained in holes 85-V and 86-V. Total drilling in the first 7 holes is 3161 feet of which 1167 was in overburden. There remains 839 feet of drilling in this contract.

December 1957

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

RECEIVED JAN 16 1958 D.M.E.A.

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

PAID ON VOUCHER & SCHEDULE
ON PAYMENTS K- 33

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of November, 1957 Docket No. DMEA 1673 Contract No. Idn-B-1109
Operator's Name The New Jersey Zinc Company Minerals Zinc-lead-copper
Address 160 Front Street, New York 38, NY
Contract Amount, $12,770.00 Government Participation: 50% Amount, $6,385.00

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: Short Form				647' @ 2.70 1/20/58 WPK		
Core Drilling DRIL(AX)	1633.50	--	1633.50	1746.90	—	1746.90
~~Bulldozing~~ Overburden	1757.40	--	1757.40	1635.60	—	1635.60
Crosscutting				564' @ 2.90		
Drifting						
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
Core boxes	--	315.00	315.00	—	315.00	315.00
(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	363.30	--	363.30	363.30	-	363.30
Analyses	--	--	--			
(8) Contingencies (specify):						
TOTALS	3754.20	315.00	4069.20	3745.80	315.00	4060.80

I certify that the above bill is correct and just and that payment therefor has not been received.
Date 12/13/57 *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:
$ 1872.90
Signature [signature] (Authorized Certifying Officer)
Date JAN 14 1958 Vou. No. 110
(See other side)

1872.90

(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-1109 in accordance with the terms of the contract.

Signature W. A. Burmeister Title Mining Engr. Date 12/26/57

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Robert A. Lawrence Title EXECUTIVE OFFICER DMEA REGION V Date JAN 6 - 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

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of November 1957 Docket No. DMEA 4673 Contract No. Idm-E-1109
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	Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core BXWL(AX)	feet	1633.50	605	1633.50	605		3400	2.70
Over ~~xxxx~~burden	feet	1757.40	606	1757.40	606		600	2.90
Auger								
~~xxxxx~~ Analyses	1	--	--	--	--		100	3.00
~~xxxxx~~ Core boxes	1	--	--	315.00	140		140	2.50
Test Pits								
Roads and Trails								
Incidental Allowance	feet	363.30	1211	363.30	1211		4000	0.30
TOTAL DISTRIBUTED COSTS		3754.20		4069.20				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc								
TOTAL COSTS		3754.20		4069.20				

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

Date 12/13/57 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)

REMARKS: The only costs shown this month are for holes 79, 80, and 81, for which we enclose copies of the drillers invoices.

(For Government use only)

N. L. Burmeister 12/26/57

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

Valzinco Area - Narrative Report

November 1957

During November, 1957, a total of 1392 feet was drilled. Drilling of anomalies 1 and 2 was completed with hole 83-V and drilling on anomaly 3 started with hole 84-V. The drilling can be summarized as follows:

Hole No.	Overburden[x]	BXWL (AX)	Feet in October	Feet to Date
79-V	0-238 (238)	238-433 (195)	--	433
80-V	0-194 (194)	194-404 (210)	--	404
81-V	0-174 (174)	174-374 (200)	--	374
82-V	0-193 (193)	193-689 (496)	476	689
83-V	0-180 (180)	180-354 (174)	354	354
84-V	0-150 (150)	150-482 (332)	482	482
85-V	0-80 (80)	None	80	80
Footage this month	410'	982'	1392	
Total footage	1209'	1607'		2816'

[x]includes NX and BX footage necessary to set casing

Drill holes 82-V, 83-V, and 84-V are shown on maps AXV-589, 596, and 598 respectively, which are attached. Formation boundaries correspond to those used in 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.

Correlation of formations from one hole to the next continues to be difficult. However, all the holes on anomaly 1 (79-V through 82-V) penetrated biotite-sericite-quartz gneiss below the overburden and the lower contact of that formation can be correlated through the four holes. Zinc and lead mineralization occurs below the contact in all four holes. The deeper part of hole 82-V which is on strike from 83-V cannot be correlated with 83-V. Hole 84-V on anomaly 3 penetrated gneisses, schists, and conglomerates similar to those penetrated on anomalies 1 and 2. It is quite possible that some of the formations are of igneous origin.

All three holes drilled this month penetrated traces of sphalerite, galena, and chalcopyrite, but a definite mineralized zone is not present. Hole 84-V on anomaly 3 penetrated the best showings between 346 and 450, with an estimated 1½% zinc and traces of lead at 437-438½ and 445-445½.

South Valzinco, Anomalies 1 and 2

DDH 82-V

Started: October 30, 1957
Bottomed: November 8, 1957
Location: 400 feet N29½°E from 80-V
Coordinates: 81,072.66N
67,085.01E
Elevation: 417
Bearing: N69°W @ collar,
N69°W @ 300',
N74°W @ 500'
Inclination: -60° @ collar
-49° @ 300'
-45½° @ 500'
Objective: Test geochemical and self-potential anomalies

0 - 193	Overburden
193 - 201	Sericite-quartz schist and gneiss
201 - 268	Sericite-quartz-feldspar conglomerate and schist
268 - 307	Biotite-sericite quartzite
307 - 350	Carbonate-sericite-quartz gneiss and sericite-quartz conglomerate
350 - 689	Chlorite-biotite-feldspar-sericite-quartz schist and gneiss. 357-632 Scattered traces of zinc, lead, and copper including estimated ½% zinc, trace lead @ 527-531
689	Bottom

South Valzinco, Anomaly 2

DDH 83-V

Started: November 11, 1957
Bottomed: November 15, 1957
Location: 578 feet N10½°W of DDH 82-V
Coordinates: 81,642.32N 66,986.77E
Elevation: 408'
Bearing: N72°W @ collar
N59°W @ 300'
Inclination: -60° @ collar
-47° @ 300'
Objective: Test geochemical and self-potential anomalies

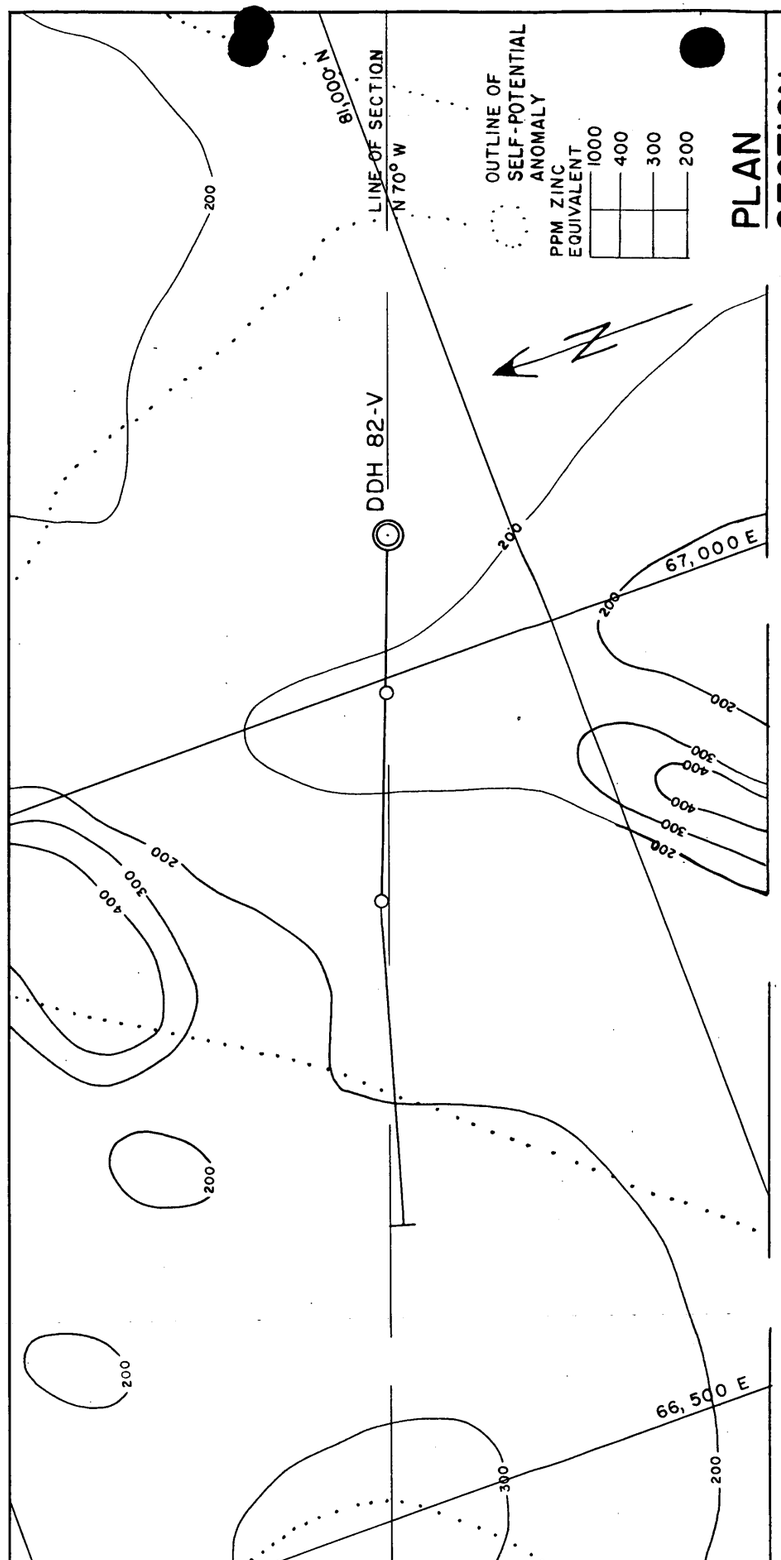
0 - 174	Overburden
174 - 210	Sericite-feldspar-quartz schist
210 - 338	Quartz-biotite-sericite-feldspar-gneiss and conglomerate 244½-245 Estimated 2% zinc, ¼% copper 271-276, 279½-280 Scattered traces of zinc in sphalerite
338 - 354	Biotite-sericite-quartz gneiss
354	Bottom

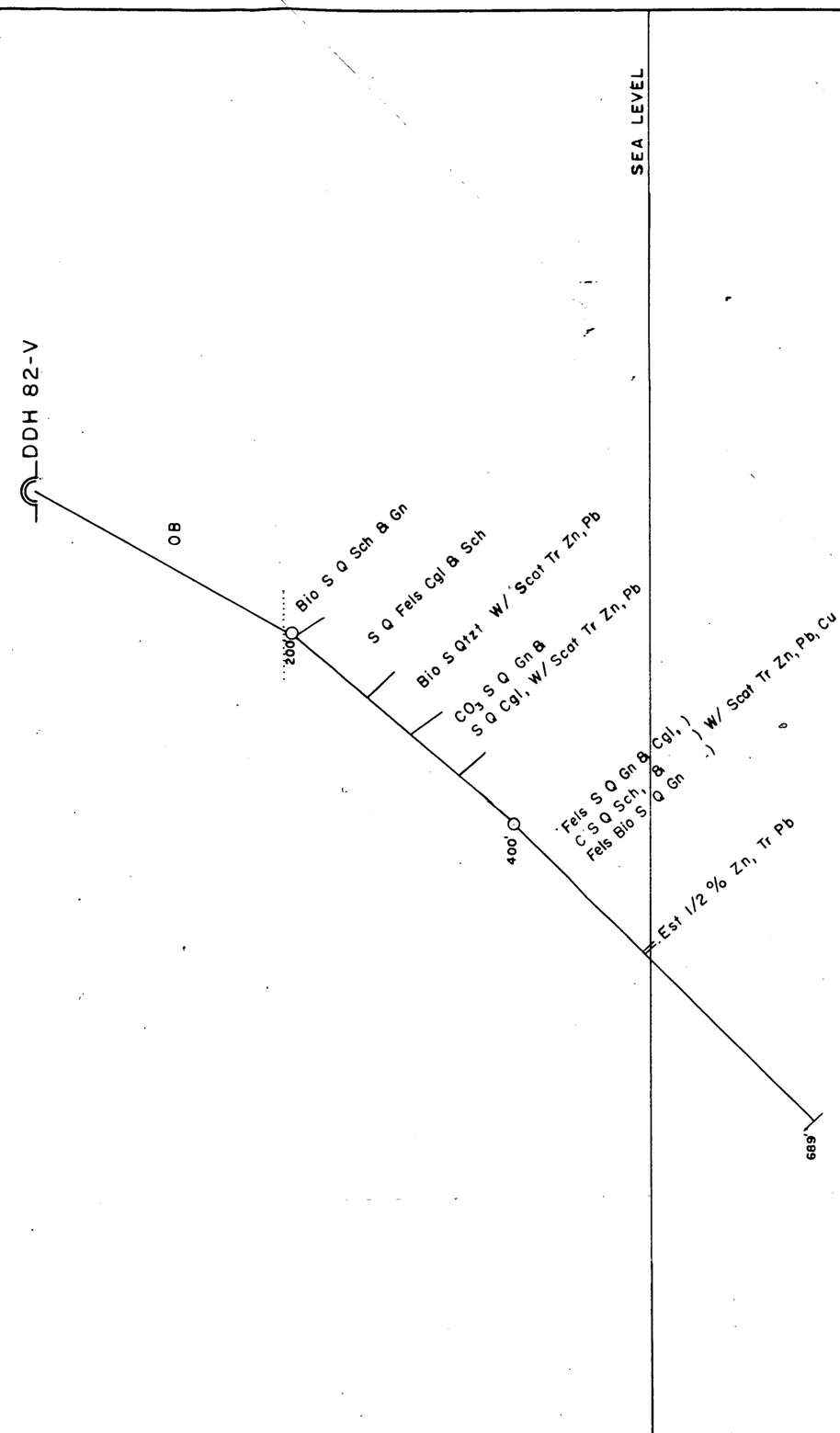
North Valzinco, Anomaly 3

DDH 84-V

Started: November 19, 1957
Bottomed: November 27, 1957
Location: 250 feet southeast of center of geochemical anomaly
Coordinates: 91,995.80N
74,621.57E
Elevation: 347'
Bearing: N72°W @ collar
N68¼°W @ 300'
Inclination: -60° @ collar
-50° @ 300'
Objective: Test geochemical anomaly

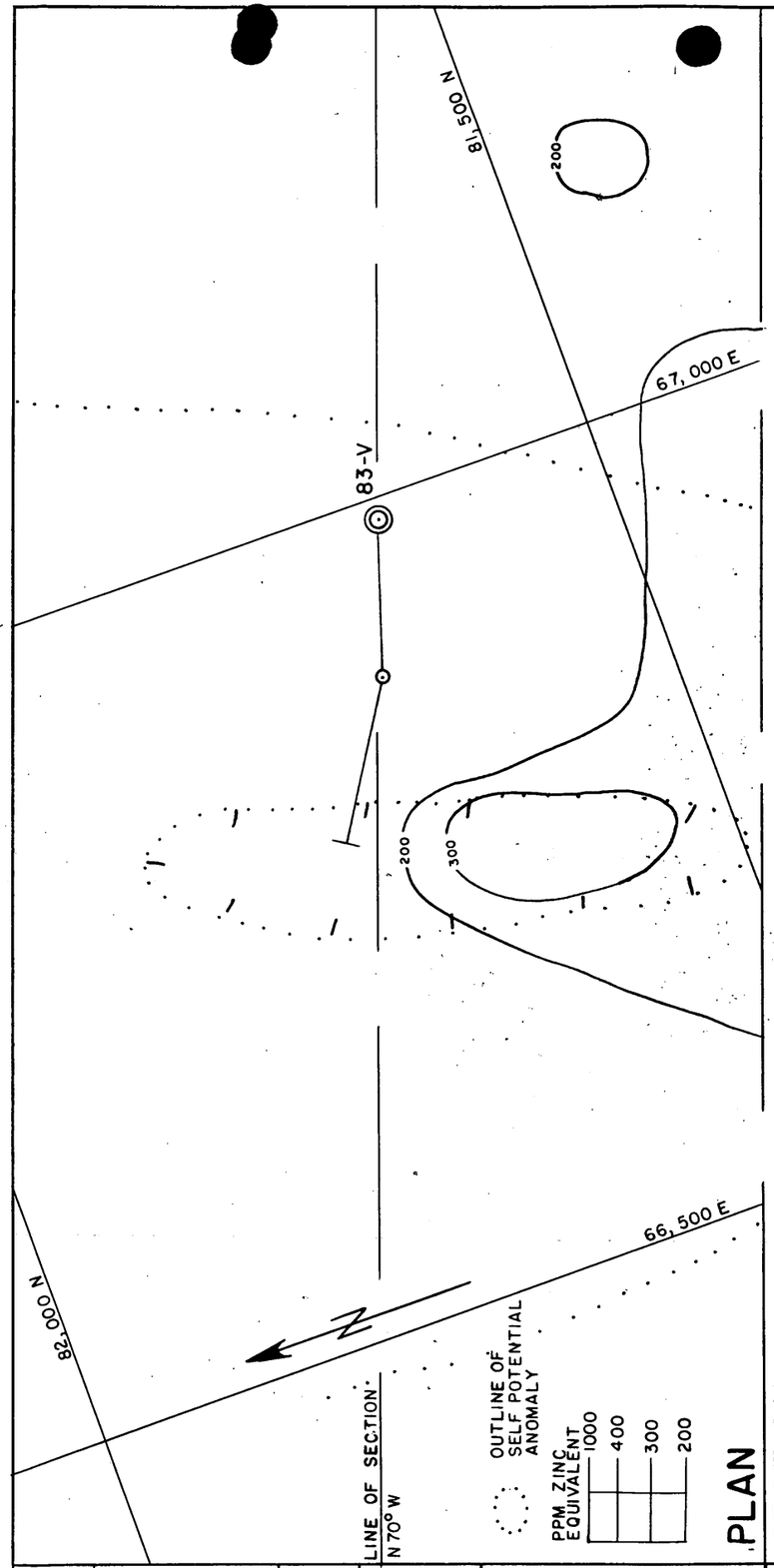
0 - 150	Overburden
150 - 289	Biotite-feldspar-sericite-quartz conglomerate, schist, and gneiss 160-160½ Estimated ½% zinc, trace lead 214-285 Scattered traces of zinc and lead. Recovery only 44½' out of 71' from 214-285
289 - 482	Biotite-feldspar-sericite-quartz schist 293-481½ Scattered traces of zinc, lead, and copper including: 346-347 Estimated ½% zinc, trace lead 437-438½, 445-445½ Estimated 1½% zinc, trace lead 448-448½ Estimated ½% zinc, trace lead
482	Bottom

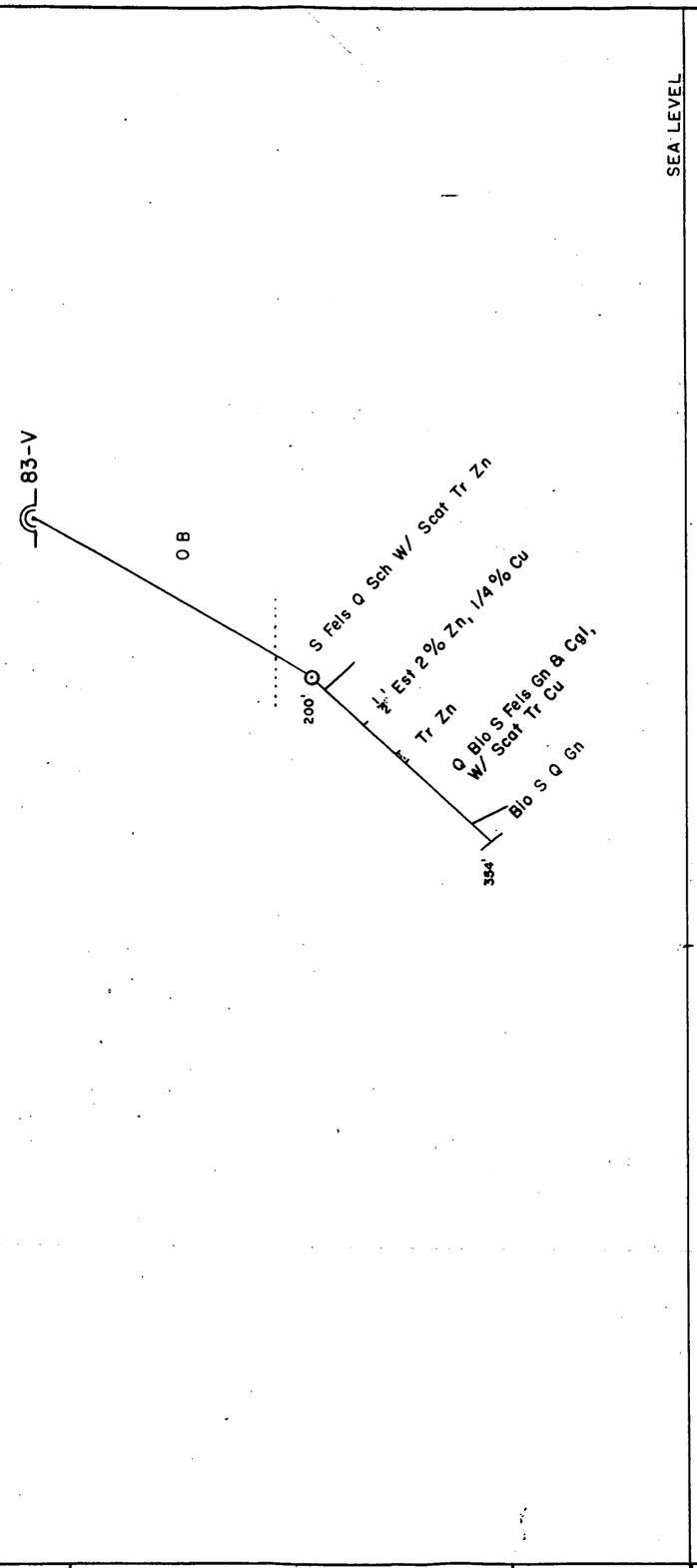




SERIAL NUMBER		DATE ISSUED		REFERENCE DRAWINGS	REVISIONS	THE NEW JERSEY ZINC COMPANY MINERAL, VA.	DRAWN CLH	PLAN & SECTION DDH 82-V SOUTH VALZINCO AREA	DATE 11/11/57
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK. ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED. THIS DRAWING MUST BE RETURNED TO THE NEW JERSEY ZINC COMPANY.				AXV-552-D			TRACED		SCALE 1" = 100'
							CHECKED		AXV-589-B-A
							APPROVED		

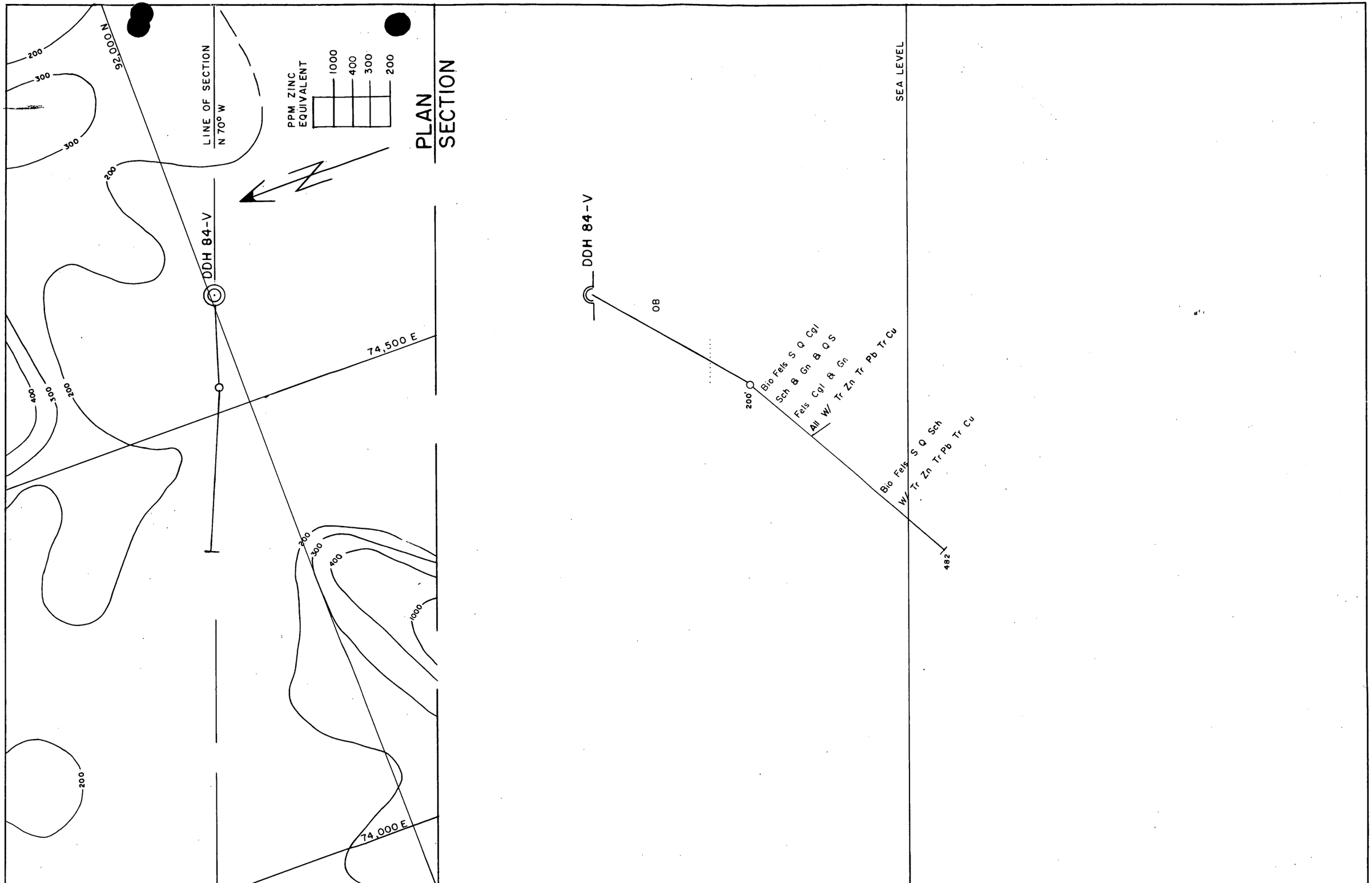
X5453B 1M 11-54





SERIAL NUMBER		DATE ISSUED		REFERENCE DRAWINGS	REVISIONS	THE NEW JERSEY ZINC COMPANY MINERAL, VA.	DRAWN CLH	PLAN & SECTION DDH 83-V SOUTH VALZINCO AREA	DATE NOV. 21, 1957
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		SCALE 1" = 100'
							CHECKED		AXV-596-B-A
							APPROVED		

X5453B 1M 11-54



SERIAL NUMBER		DATE ISSUED		REFERENCE DRAWINGS	REVISIONS	THE NEW JERSEY ZINC COMPANY MINERAL, VA.	DRAWN CLH	PLAN & SECTION	DATE NOV. 27, 1957
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-554-D			TRACED	DDH 84-V	SCALE 1" = 100'
							CHECKED	NORTH VALZINCO AREA	AXV-598-B-A
							APPROVED		

X5453B 1M 11-54

THE NEW JERSEY ZINC COMPANY

160 FRONT STREET

NEW YORK 38, N.Y.

December 12, 1957

PLEASE ADDRESS REPLY TO

P. O. Box 67
Mineral, Virginia

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

Re: Telephone Conversation with
C. L. Hamilton, December 9,
1957
DMEA 4673, Contract Idm-E-1109
Valzinco Area
Spotsylvania County,
Virginia

Dear Mr. Burmeister:

This is to confirm our understanding of your telephone conversation with Mr. C. L. Hamilton, December 9, 1957. We understand that footage drilled in overburden may exceed the footage estimated in the contract provided that neither total footage (overburden plus rock) nor total cost of drilling does not exceed the footage and cost of drilling allowed in the contract.

We would appreciate your confirmation of our thoughts above.

Very truly yours,

W. L. Albers,
Superintendent

CZH CLH

CLHamilton/mmk
in quintuplicate

THE NEW JERSEY ZINC COMPANY

(ESTABLISHED 1848)

CABLE ADDRESS
"JERSEZINC"

160 FRONT STREET

NEW YORK 38, N.Y.

December 10, 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 4673, Contract Idm-E-1109
Valzinco Area,
Spotsylvania County,
Virginia

Dear Sir:

Attached is the November, 1957, report on our DMEA contract for the Valzinco area. The overburden for 79-V, 80-V, and 81-V was reported incorrectly in the narrative of the October report and has been changed in this report to include NX and BX footage necessary to set the casing.

Very truly yours,

W. L. Albers,
Superintendent

CLH WMK
CLHamilton/mmk
in quintuplicate

RECEIVED NOV 25 1957
DATE
11/25 220
" 100
11/27 500

INTERIM REPORT ON OPERATING CONTRACT

DMEA 4673 (Zn,Pb,Cu), Contract Idm-E 1109
New Jersey Zinc Company, Valzinco Area
Spotsylvania County, Virginia

This project was visited on November 14, 1957 by H. L. Burmeister, Bureau of Mines and Helmuth Wedow, Geological Survey.

The Operator's report for October was completely prepared on the date of visit. This report contained an invoice for core boxes only and only the core boxes were vouchered on form MF 104. The report was received in College Park subsequent to this visit and has been transmitted to Knoxville.

Since the last interim report of October 10, drill hole 79-V was completed on October 14 at 433 feet. Mineralization consisted of traces of zinc, lead and copper from 273 feet to 433 feet.

The location of drill hole 80-V was moved from the original contract location to a new fence and again moved on evidence supplied by hole 79-V to avoid excessive overburden drilling. The inclination was changed from the proposed 45 degrees to 60 degrees for the same reason. The hole is collared at a point 380 feet N 19° E of hole 79-V. Overburden accounted for 190 feet of the total 404 feet of hole length. Scattered traces of zinc, lead and copper mineralization were found from 220 feet to bottom at 404 feet. The hole was completed on October 21.

The collar of drill hole 81-V is located 400 feet S 46° W from the final location of hole 79-V. The location was changed for the same reason as given for 80-V. The hole was drilled on a 60 degree inclination, encountered 150 feet of overburden and was bottomed at 374 feet on October 27. Traces of zinc, lead and copper mineralization were found from 207 feet to 369 feet.

Drill hole 82-V is located 400 feet N 30° E of the final location

of 80-V. Hole 82-V was originally planned for the southwest end of anomaly No. 1 but it's location was changed to the northeast end for the reason that the preceeding holes indicated a slight increase in mineralization to the northeast. It was decided that by abandoning the originally proposed location and collaring the hole at a point 400 feet N 30° E from 80-V, and also deepening beyond the proposed average depth, the following things could be accomplished: (1) eliminate the necessity of drilling the initial hole on anomaly No. 2 by an intercept in hole 82-V; (2) save approximately 100 feet of drilling and (3) make a lower intercept on mineralization indicated by anomaly No. 2.

This was done, with the hole penetrating both the anomaly No. 1 and anomaly No. 2 zones and bottoming at 689 feet. Generally slight and scattered, zinc, lead and copper mineralization was encountered from 340 feet to 623 feet. Included in this bracket was a 6 foot zone from 525 feet to 531 feet which is estimated to contain ~~5.0~~ 0.5 percent zinc.

Drill hole 83-V is the last to be drilled on anomaly No. 2 and is collared at a point 550 feet N 11° W from the collar of 82-V. The hole was drilling on a 60° inclination at 253 feet at the time of visit and is expected to bottom at approximately 400 feet.

Drill hole 84-V will be the initial hole on anomaly No. 3. This hole will be collared at the amended location, which is 200 feet N 60° W of the original location specified in the contract. Permission was given in the field to change the inclination from 45 degrees to 60 degrees because of possible recurrence of deep overburden. If this situation is not encountered, the Operator can revert to drilling at a 45 degree inclination. This hole

is expected to bottom at approximately 450 feet.

Drill core was reviewed and drill footage verified.

November, 1957

Helmuth Wedow, Geologist
U. S. Geological Survey

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

Form MF-104 (Rev. April 1952)

RECEIVED NOV 25 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- 27

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of October, 1957 Docket No. DMEA 4673 Contract No. Idm-E 1109

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

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

Contract Amount, $12,770.00 Government Participation: 50 % Amount, $6,385.00

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:						
Core Drilling DIAL (AX)	-	-	-	12/23/57		
Bulldozing Overburden	-	-	-			
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
Core Boxes	315.00	-	315.00			
(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	-	-	-			
Analyses	-	-	-			
(8) Contingencies (specify):						
TOTALS	315.00		315.00	315.00	—	315.00

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

Date 11/6/57 *Payee The New Jersey Zinc Company

Per W. R. Allen / B.H. 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:

$ 157.50

Signature Helen R. Melin (Authorized Certifying Officer)

Date NOV 22 1957 Vou. No. 89

(See other side)

1st

157.50

(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-1109 in accordance with the terms of the contract.

Signature L. Threadow Title GEOLOGIST, U. S. G. S. Date NOV 20 1957

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature V. J. Lynch Title ACTING EXECUTIVE OFFICER ~~DMEA REGION V~~ Date NOV 20 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
NOV 25 1957
D.M.E.A.

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

Month of October, 195 7 Docket No. DMEA 4673 Contract No. Idn-E 1109
Operator's Name The New Jersey Zinc Company Minerals Zinc-Lead
Address 160 Front Street, New York 38, N.Y. Copper

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core DMEA (AX)	feet	-	-	-	-		3,400	2.70
over Churnburden	feet	-	-	-	-		600	2.90
Auger								
Stripping Analyses	1	-	-	-	-		100	3.00
Trenching Core Boxes	1	315.00	140	315.00	140		140	2.50
Test Pits								
Roads and Trails								
Incidental Allowance	feet	-	-	-	-		4,000	0.30
TOTAL DISTRIBUTED COSTS		315.00		315.00				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		315.00		315.00				

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

Date 11/5/57 Operator The New Jersey Zinc Co.

Per W. Z. Allen, by B.G. Title Superintendent

REMARKS: Narrative indicates 1424 feet were drilled in holes 79-V, 80-V, 81-V and 82-V. Since no invoices have been received as yet for these holes, they are not included in the above 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)

H. Weden
GEOLOGIST, U. S. G. S.
NOV 20 1957

INSTRUCTIONS

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

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

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

GPO 872894

SOUTH VALZINCO - NARRATIVE REPORT

OCTOBER 1957

During the month of October 1957 a total of 1,424 feet was drilled. Drilling thus far on the Valzinco, anomalies 1 and 2, can be summarized as follows:

Hole No.	Overburden[x]	BXWL(AX)	Feet in Oct.	Feet to date
79-V	0-220(220')	220-433(213')	433	433
80-V	0-190(190')	190-404(214')	404	404
81-V	0-150(150')	150-374(224')	374	374
82-V	0-193(193')	193-213(20')	213	213
Footage this month	-753	671	1,424	
Total footage	-753	671		1,424

[x]includes NX and BX footage necessary to set casing.

Drill holes 79-V, 80-V, and 81-V are shown on maps AXV-580, 587, and 588 respectively, which are attached hereto. Formation boundaries on the sections correspond to those used in 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.

Exact correlation of formations from one hole to the next is difficult and no marker beds can be recognized. However, mineralization generally occurs below the biotite-sericite-quartz gneiss.

All three holes penetrated traces of sphalerite, galena, and chalcopyrite, but a definite mineralized zone is not apparent. Hole 80-V penetrated the best showings of sphalerite and galena @ 220-389, but they are present in only trace amounts.

South Valzinco

DDH 79-V

Started: October 3, 1957
Bottomed: October 14, 1957
Location: 200 feet SE of center of self-potential anomaly.
Coordinates: 80,334.69N
66,777.26E
Bearing: N70° W @ collar,
N76° W @ 300'
Inclination: -45° @ collar,
-43° @ 300'
Elevation: 419
Objective: Test geochemical and self-potential anomalies.

0-220	Overburden
220-433	Biotite-sericite-quartz schist, gneiss, and conglomerate, and sericite quartzite. 343-362 Estimated trace of zinc, lead, and copper. Traces zinc at 335, 340, 385, 379, 389, 397.
433	Bottom

South Valzinco

DDH 80-V

Started: October 14, 1957
Bottomed: October 21, 1957
Location: 407 feet N17°E from 79-V
Coordinates: 80,727.36N
66,896.68E
Elevation: 421 feet
Inclination: -60° @ collar,
-51° @ 300'
Bearing: N69° W @ collar,
N71° W @ 300 feet.
Objective: Test geochemical and self potential anomalies.

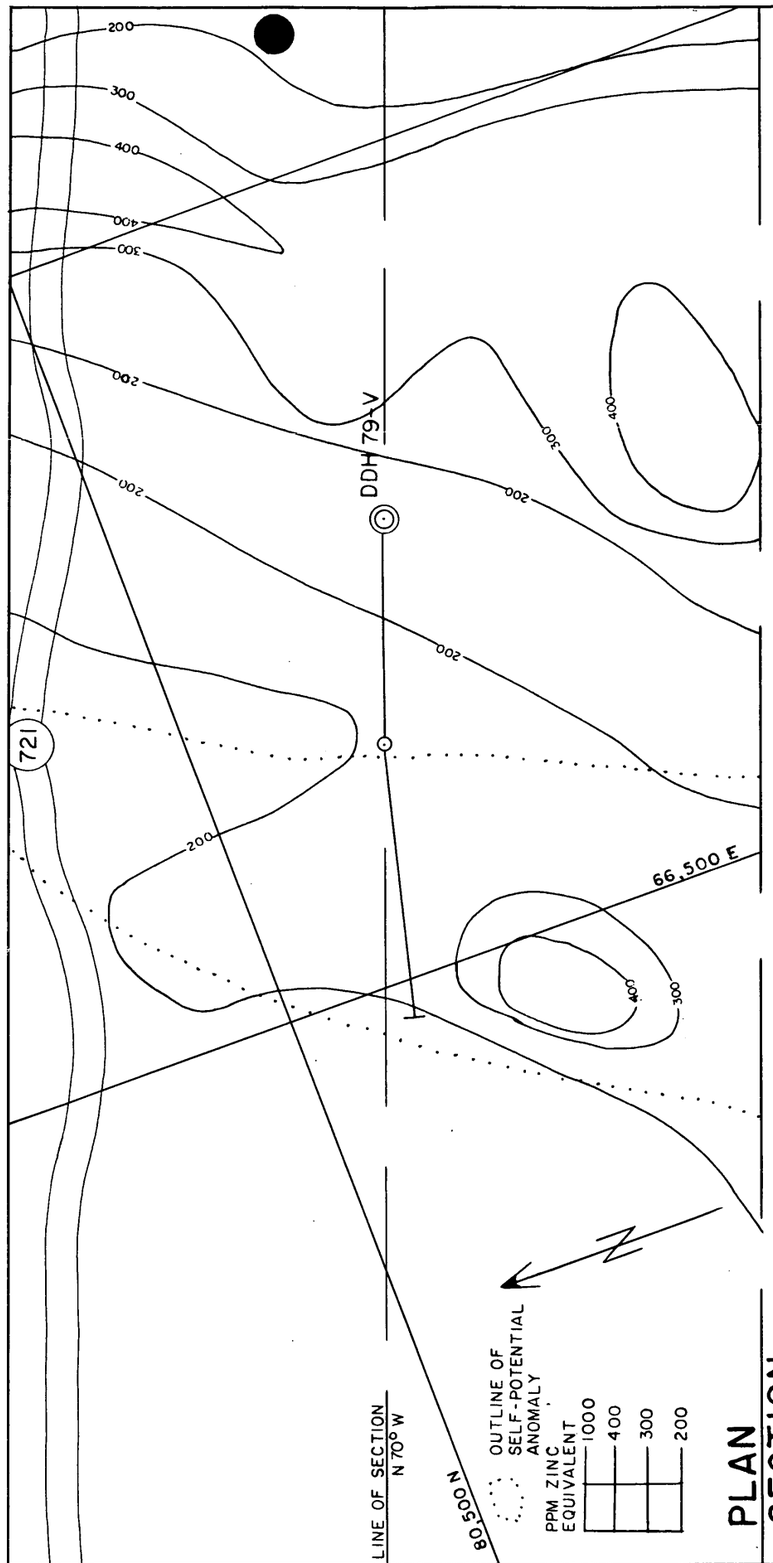
0-190	Overburden
190-218	Biotite-sericite-quartz gneiss.
218-254	Biotite-sericite-quartz conglomerate. Scattered traces of zinc and lead.
254-404	Sericite-biotite-quartz conglomerate, gneiss, and quartzite. 253-267,278-291 Estimated trace of zinc, lead, and copper.
404	Bottom

South Valzinco

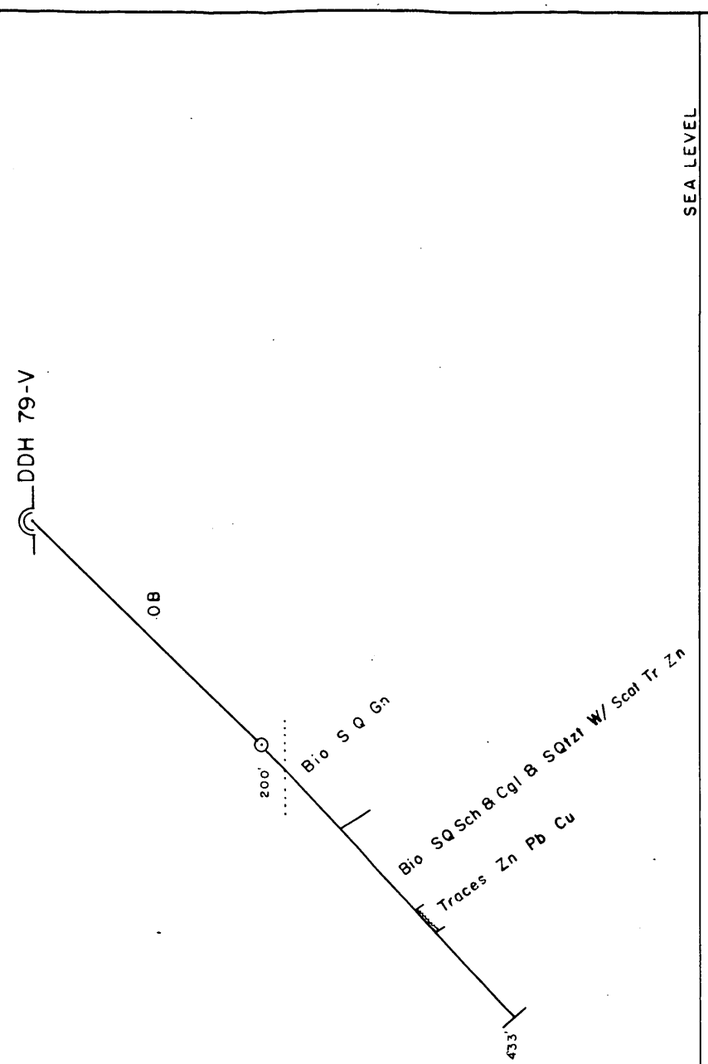
DDH 81-V

Started: October 22, 1957
Bottomed: October 27, 1957
Location: 418 feet S42½°W of 79-V
Coordinates: 80,052.21N
66,467.82E
Elevation: 408
Inclination: -59½° @ collar, -54½° @ 300 feet.
Bearing: N68° W @ collar, N69° W @ 300 feet
Objective: Test geochemical and self-potential anomalies.

0-150	Overburden
150-175	Biotite-sericite-quartz gneiss.
175-374	Feldspar-biotite-sericite-quartz conglomerate, gneiss and schist. 207-369 Scattered traces of zinc, lead, and copper.
374	Bottom



PLAN



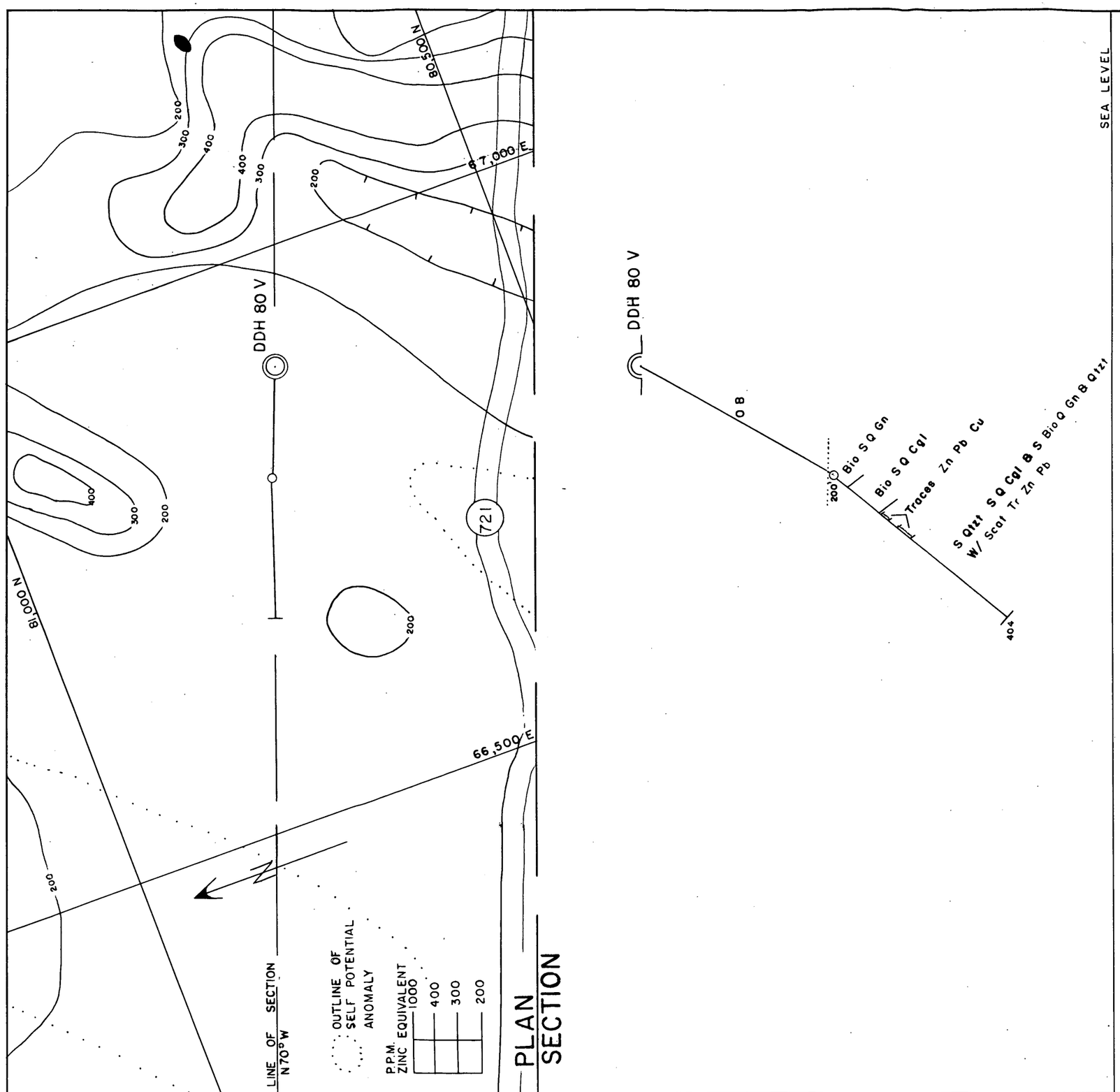
SECTION

SERIAL NUMBER		DATE ISSUED		REFERENCE DRAWINGS	REVISIONS	THE NEW JERSEY ZINC COMPANY MINERAL VA.	DRAWN C.L.H. TRACED CHECKED APPROVED
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-552-D			

PLAN AND SECTION
DDH 79. V
SOUTH VALZINCO AREA

DATE 11/5/57
SCALE 1"=100'
AXV-580-B-A

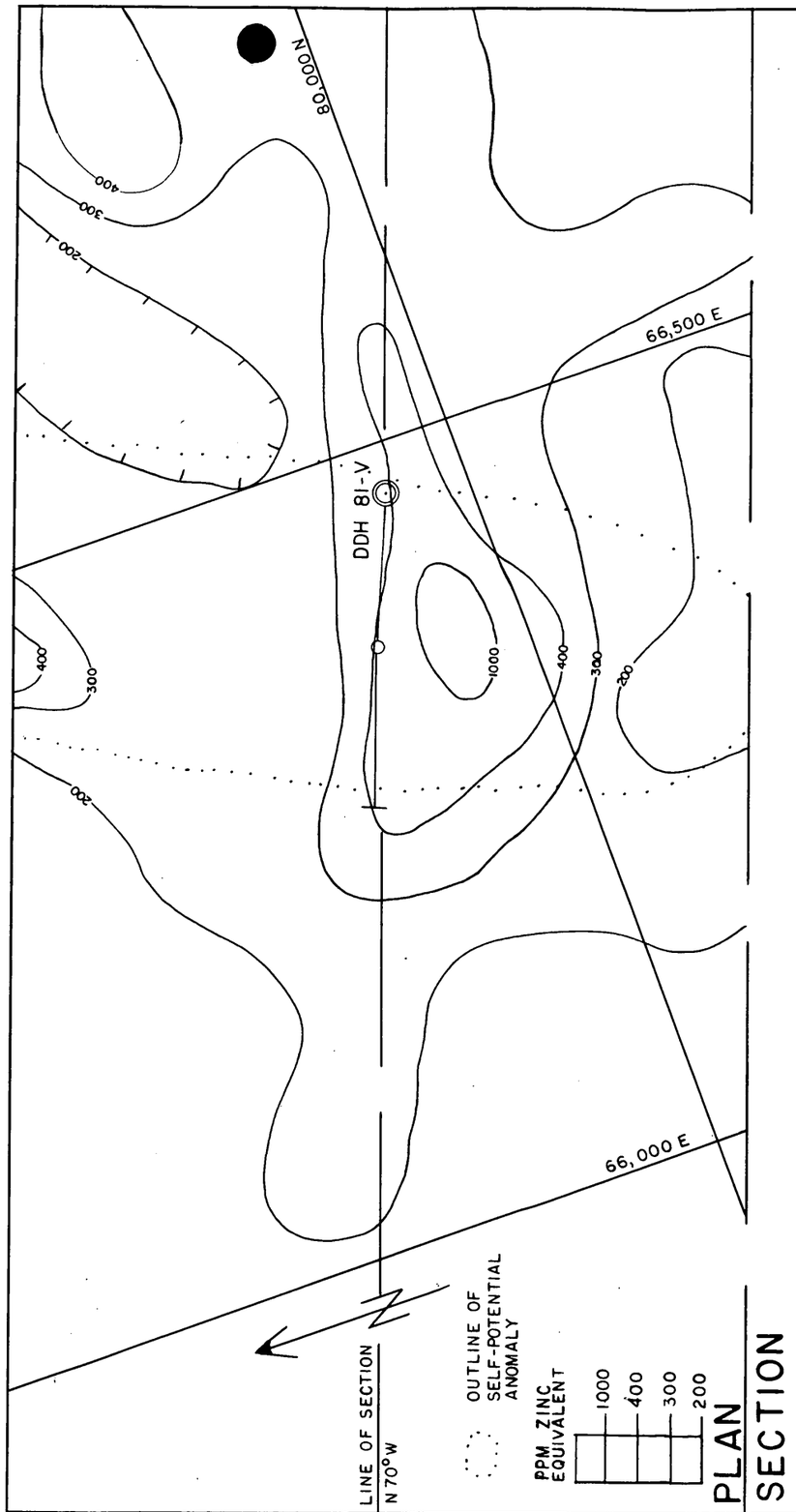
X5453B 1M 11-54

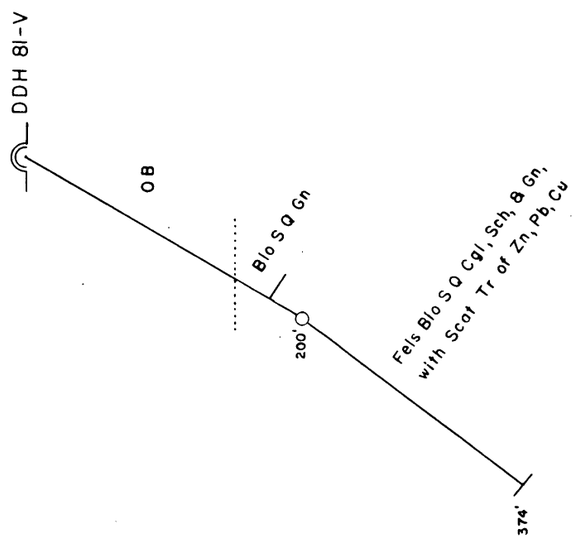


SERIAL NUMBER		DATE ISSUED		REFERENCE DRAWINGS	REVISIONS	THE NEW JERSEY ZINC COMPANY MINERAL VA.	DRAWN C.L.H.	PLAN AND SECTION DDH 80 V SOUTH VALZINCO AREA	DATE 11/6/57
				AXV-552-D			TRACED		SCALE 1" = 100'
							CHECKED		AXV-587-B-A
							APPROVED		

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.

X5453B 1M 11-54





SEA LEVEL

SECTION

SERIAL NUMBER		DATE ISSUED		REFERENCE DRAWINGS	REVISIONS	THE NEW JERSEY ZINC COMPANY MINERAL, VA.	DRAWN CLH	PLAN & SECTION	DATE NOV. 6, 1957
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-552-D			TRACED	DDH 81-V	SCALE 1" = 100'
							CHECKED	SOUTH VALZINCO AREA	AXV-588-B-A
							APPROVED		

BOUGHT OF **WALTON & WOOD, INC.**

MERCHANTS

BUILDING SUPPLIES - FARM IMPLEMENTS
DEALERS FOR DODGE & PLYMOUTH CARS & TRUCKS

TERMS: CASH LOUISA PHONE 91K13

WHOLESALE **RETAIL**

PENDLETON, VA. 10/31/57 194

M The New Jersey Zinc Company

NO.

To 140 Core Boxes @ $2.25 each.	$315 00

CERTIFIED TRUE COPY
THE NEW JERSEY ZINC COMPANY
C. W. Mallot Jr.
GEOLOGIST

2D840

YOUR ACCOUNT STATED TO DATE. IF ERROR IS FOUND, RETURN AT ONCE.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
ROOM 13 [illegible]
WASHINGTON 25, D. C.
KNOXVILLE 2, [illegible]

ORIGINAL FILE COPY
DATE
RECEIVED NOV 4 [illegible]
11/4 C 220
11/4 800
11/4 500

October 30, 1957

Memorandum

To: Field Team, DMEA Region V, Knoxville, Tennessee

From: Helmuth Wedow, Jr., USGS, Knoxville, Tennessee

Subject: Revised drill-hole location on the Valzinco project
Docket No. DMEA-4673, Contract Idm-E1109 (Zinc-lead-copper)
Valzinco area, Spotsylvania County, Virginia
The New Jersey Zinc Company, Mineral, Virginia

In a phone conversation today with E. L. Weinberg, the district geologist of the Operator, the writer verbally approved modification of the drilling pattern on the subject project as described below. This verbal approval will be followed by a formal written request from the Operator after which written approval by the Field Team may or may not be granted.

Holes 79V, 80V, and 81V have been completed on the Valzinco project along the strike fence located about 100 feet northwest of that proposed in the original contract. Hole 80V is about 400 feet northeast of 79V and Hole 81V is about 400 feet southwest of 79V. Hole 79V was drilled at an inclination of minus-45 degrees northwest and Holes 80V and 81V were drilled at a minus-60 degree inclination northwest. All holes were drilled to depths of approximately 400 feet. All holes penetrated a mineralized zone that shows increasing strength toward the northeast. Consequently, it has been proposed by the Operator and agreed to by the writer that the fourth hole on Anomaly #1 should be drilled 400 feet northeast of Hole 80V rather than 400 feet southwest of Hole 81V as shown on the contract map. It has been proposed and agreed to also that because the new site of the fourth hole on Anomaly #1 falls on a line essentially down-dip from the first hole proposed for Anomaly #2 that this first hole be dropped and the fourth hole of Anomaly #1 be deepened sufficiently to penetrate the possible ore zone projected from Anomaly #2. According to projects made on the basis of available data, this proposal can result in a saving of about 100 feet of drilling which can be used to advantage elsewhere on the project should results so warrant.

HW/mg
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INTERIM REPORT ON OPERATING CONTRACT

DMEA 4673 (Zinc, Lead, Copper), Contract Idm-E 1109
New Jersey Zinc Company, Valzinco Area
Spotsylvania County, Virginia

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

Core drilling was started on October 3, 1957 by collaring the initial hole 79V, on anomaly No. 1 at the revised location approved by the Executive Officer in a letter to the Operator under date of September 13, 1957 and detailed in a joint interim report of a field team visit September 5, 1957. The revised location of this initial hole is 125 feet N 50° W of the location indicated on the examination report map, Fig. 3. Drilling is being done on a two shift basis, using BXWL equipment.

Drill hole 79V is being drilled on a 45° inclination and at the time of visit was at 373 feet and expected to bottom at about 430 feet. This hole was drilled through 224 feet of overburden, which is equivalent to a vertical thickness of 150 feet. Traces of zinc mineralization were noted in the core from 326 to 335 feet and scattered traces of zinc, lead and copper from 355 to 370 feet.

If the depth of overburden found in drill hole 79V persisted in the entire contract, there could result approximately 2,000 feet of overburden drilling when only 600 feet are authorized in the contract. This condition will probably not develop fully but it was considered advisable by the examiners to permit some changes on anomaly No. 1 drilling to reduce overburden footage without changing the intercept point.

Permission was given to move the collar locations of the 2nd., 3rd., and 4th holes from the drill fence as shown on the contract map to a fence tentatively located 100 to 200 feet northwestward of the contract fence, and to use inclinations from 45° to 60° as indicated by conditions. The second drill hole, 80V will be collared about 410 feet, N 15° E of hole 79V. If further revision is necessary it can be made at a later date on the basis of accumulated data.

October, 1957

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

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INTERIM REPORT

DMEA-4673, Idm-E1109 (Zinc-lead-copper)

Operator: The New Jersey Zinc Company, Austinville, Virginia

Location: Valzinco area, Spotsylvania County, Virginia

Drilling is scheduled to start on the Valzinco project of the New Jersey Zinc Company approximately October 1, 1957, contingent on the completion of drilling on the current Bondurant project (DMEA-4674). Review of the Valzinco project by Messrs. Brown and Weinberg (geologists of the Operator), Mr. H. L. Burmeister (U. S. Bureau of Mines), and the writer at the Operator's district headquarters at Mineral, Virginia, indicated the need for the relocation of the initial drill-hole sites at each of the three anomalies scheduled for exploration.

Inclusion of the positions of self-potential geophysical anomalies (completed and submitted after the completion of the DMEA field examination report) in the consideration of the best possible initial drill-hole sites for each geochemical anomaly indicates that the drill-hole collar sites should be moved approximately as follows: Anomaly #1---N. 50° W., 100 feet; Anomaly #2---N. 50° W., 150 feet; Anomaly #3---N. 60° W., 200 feet. These revised drill-hole locations were approved verbally by Mr. Burmeister and the writer. A written request for approval of the new initial drill-hole sites is being submitted to the Field Team by the Operator.

Inspected: September 5, 1957

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

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