DMEA Form 9
Rev. 6/57

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE Idm-E NO._____ DMEA NO. 4860

Application
- [x] Denied
- [ ] Withdrawn

Contract
- [ ] Terminated - Not Certified
- [ ] Terminated - Certified
- [ ] Cancelled
- [ ] Royalty Agreement

The records contained in this file are marked (x) and arranged in this order:

Folder No. 1:

Left Side

- [ ] Royalty Audits
- [ ] Certification of Discovery
- [ ] Closing Letter
- [ ] Cost Audits
- [ ] Termination Notice or Agreement
- [ ] Recision Notice
- [ ] Assignment of Contract
- [ ] Contract Amendments
- [ ] Contract with all exhibits and annexes
- [ ] Owner's Consent to Lien and Subordination Agreement
- [x] Application and attachments

Right Side

- [ ] Project summary (final)
- [ ] Work Comoleted analysis (final)

All other material filed in chronological order including the following reports if checked:

- [ ] Field Team Semi-Annual Report for Certified Project
- [ ] Final Field Team Report (Tab)
- [ ] Operator's Final Report (Tab)
- [ ] Interim Field Team Reports
- [ ] Operator's monthly reports and all attachments
- [x] On-site Exam Report (Tab) 2/26/58.
- [ ] Settlement Sheets
- [ ] Drill Logs

Additional Folders:

Left Side

Folders No._____: Reports

- [ ] Analysis of Semi-Annual Inspection Reports
- [ ] Project Summary (Interim) by DMEA Engineers

Right Side

- [ ] Field Team Semi-Annual Report for Certified Project
- [ ] Field Team Interim Reports
- [ ] Operator's Monthly Reports with transmittal, narrative and maps.

Folders No._____: Maps (Use pocket folder or envelope)

Folders No._____: Settlement Sheets

Folders No._____: Drill Logs

Folders No._____: Royalty material

17963

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
1605 Evans Avenue
Reno, Nevada

October 28, 1957

Memorandum

To: Operating Committee, DMEA, Interior Building
Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Loan Application (Lead-Zinc-Copper-Selenium)
Wayne M. Mann & J. Kenneth Mann
Paymaster Group and Wayne M. Mann Claims
Esmeralda County, Nevada

Enclosed are three sets of MF-103, Application for Aid forms, relative to above subject. The fourth set has been retained in our files.

S. Ricker

Attachments

OFFICIAL
DMEA
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DATE	INITIALS	CODE

Form MF—103
Revised Feb. 1957

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42—R1035.3
Approval expires June 30, 1958

APPLICATION FOR AID IN AN EXPLORATION PROJECT

PURSUANT TO DMEA ORDER I, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

NAME OF APPLICANT (Full legal name and mailing address as it should appear on contract if one is executed)

Wayne M. Mann, Trustee
Paymaster Trusteeship
PO Box 4
Shattuc, Illinois

RECEIVED OCT 30 1957 D.M.E.A.

APPLICANT NOT TO USE THIS BLOCK

Docket Number: DMEA- 4860
Date Received: 10/30/57
Government Participation %:
Region: II
Division Code: 500

BUSINESS ORGANIZATION (Check one)

- Individual [ ]
- Corporation [ ]
- Partnership [ ]
- Other (Specify) [X] Trusteeship

State in which firm is organized:

LIST CORPORATE OFFICERS OR PARTNERS HERE, IF APPLICABLE

Name	Address	Title
Wayne M. Mann	PO Box 4 Shattuc, Illinois	Trustee
J. Kenneth Mann	PO Box 162 Tonopah, Nevada	Field Manager

Mineral(s) for which you wish to explore: Lead, zinc, selenium, & copper

Estimated Cost of Project: $ 5,500.00

LOCATION OF PROPERTY

Name	County	State
Ferris-Steen	Esmeralda	Nevada

GENERAL INSTRUCTIONS

Before filling out this application, please read DMEA Order—I, Amended, "Government Aid in Defense Exploration Projects." To assure prompt action, your application must provide all applicable material and information specified on the back of this application form. Avoid unnecessary correspondence and delays by submitting complete and accurate information. *Please submit four copies of this application and all accompanying papers* except as otherwise noted. Place your name and address on each sheet. Each item of information, maps, and reports required as a part of this application is described on the back of this form. Identify each attached statement by the item number to which it applies. If an item does not apply to your application, show the item number on your statement and after it write "not applicable." Maps or sketches should be used to supplement narrative descriptions of the property location and boundaries in item 1, existing mine workings and geology in item 2, and the proposed exploration project in item 4. When this information is not too complex, all of it may be shown on one map or sketch. All documents and other attachments submitted as a part of this application, except those in item 2(g) which you mark to be returned, become the property of the Government and will not be returned to the applicant. Send true copies, *not originals*, of leases, contracts, and other documents which are an essential part of your business records. *File this application with the Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest DMEA Field Office.*

CERTIFICATION

The undersigned, whether as an individual, corporate officer, partner, or otherwise, both in his own behalf and acting for the applicant, certifies that the information set forth in this form and accompanying papers is correct and complete, to the best of his knowledge and belief.

23 October 1957
Dated

Wayne M. Mann
BY *(Signature)*

Trustee
Title

A wilfully false statement or certification to any Department or Agency of the United States Government is a criminal offense. U. S. Code, Title 18, Sec. 1001.

INFORMATION REQUIRED WITH THIS APPLICATION

1. *Applicant's Property Rights:*

(a) State the legal description (section, township, and range; metes and bounds; patent number of claims) of the land upon which you wish to explore and all land adjacent to the proposed project area which you own or control. Describe any part of the project land or workings which should not be subject to Government lien for royalty payments. If the land consists of unpatented claims, state the book and page number for each recorded location notice, including amended locations, and the place where recorded (courthouse, recorder's office, county, and state).

(b) State all the names by which you know the property.

(c) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise. If you are not the owner, submit with this application one exact copy of the lease, contract, or other document (with address of owner) under which you control the property.

(d) Describe all liens, mortgages, or other encumbrances on the property.

2. *Physical Description:*

(a) Describe in detail and illustrate with maps or sketches all mining or exploration operations which you know have been or are being conducted upon the lands, including existing mine workings. Describe all production facilities.

(b) State your interest, if any, in operations stated in 2*(a)*.

(c) State, as far as you know, the past and current production, supporting your statement with copies of settlement sheets, mine records, or published data if available.

(d) Describe known ore reserves on the property giving quantities and grades and sampling methods used, supporting your statement with copies of assay certificates and assay maps if available.

(e) Describe by narrative and maps or sketches the geologic features of the property, including ore minerals, geologic formations if known, and type of deposit (vein, bedded, etc.).

(f) State your reasons for expecting to find ore, and if you have sampled the area you propose to explore, show where the samples were taken, describe sampling methods used, and provide copies of assay certificates.

(g) Send with your application at least *two* copies of all geologic or engineering reports, assay maps, or technologic information which you may have, indicating on each whether you require its return to you.

3. *Accessibility of Project:*

(a) To aid DMEA representatives who may be required to examine the property, state the name and address of the person who will meet the DMEA representative; give directions for reaching the property; and describe accessibility of the property including the mine workings.

(b) Name the shipping and supply points and places where employees reside and state the distances between them and the property.

4. *The Exploration Project:*

(a) Describe fully the proposed exploration project giving individual footages and sizes of openings *for each item of work.* Use narrative, maps, plans, and longitudinal and cross sections as necessary. Show the location of the proposed work as related to geologic features such as veins, ore-bearing beds, contacts of rock formations, etc. Show also the relation of the proposed work to any existing mine workings and to *property boundaries* or to the closest identifiable corner.

(b) If an access road to the project must be built, show the location on the property map and state the length, type, and construction methods proposed.

(c) In the event that an exploration contract with DMEA is executed, how soon will the work start and how many months will be required to complete it? State your anticipated average daily or monthly rate of progress for each type of work.

5. *Experience:*

State your operating experience and background with relation to your ability to carry out this exploration project, and also that of the person or persons who will supervise the operations.

6. *Estimate of Costs:*

Furnish detailed estimates of the costs *for each item of the work proposed in 4(a)* under the headings listed below with a total for each heading and the estimated total cost of the project. Costs for any work to be performed by an independent contractor should be shown separately under category *(a)* below. Costs for any work that is not to be performed by an independent contractor should be given in detail under categories *(b)* through *(g)*.

(a) Independent contracts. State the cost of any proposed independent contract for the performance of all or any part of the work, expressed in units of work, such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved. Cost estimates should be supported by bids from three contractors if possible. *(Note* – If none of the work is to be contracted, write "none" after this item.)

(b) Personal services. For necessary supervision, engineering and geological services, and labor, include an itemized schedule of numbers, classes, rates of wages, salaries or fees, and periods of employment. State whether these technicians and employees are available.

(c) Operating materials and supplies. List items of material and supplies with their cost. Include under this heading power, water, and fuel, and units of equipment and tools costing less than $50 each.

(d) Operating equipment. List items of operating equipment to be used giving specifications and indicating how each item is to be acquired – i.e., rented, purchased, or provided by the applicant. If it is rented or purchased, state the estimated rental or purchase price. If it is to be furnished by the applicant, give its present fair market value.

(e) Initial rehabilitation and repairs. Describe the type and the cost of necessary *initial* rehabilitation or repair of existing buildings, fixtures, installations (exclusive of mine workings), and movable operating equipment now owned by the applicant, which will be used on the exploration project.

(f) New buildings, fixtures, installations. Describe each building, fixed improvement, and installation to be purchased, constructed, or installed for the exploration project stating specifications and cost including labor, materials and supervision.

(g) Miscellaneous. For the operating equipment listed in 6*(d)*, describe the type and estimate the cost of repairs and maintenance expected during project operations. Do not repeat initial repairs listed in 6*(e)*. Show also the costs of analytical work, accounting, workmen's compensation and employees' liability insurance, payroll taxes, and other required costs that do not fall within the previous categories.

Note – No items of general overhead, corporate management, interest, taxes (other than payroll and sales taxes), or any other indirect costs, or work performed or costs incurred before the date of the contract, should be included in the estimate of costs.

7. *(a)* State whether you are prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation stated in Sec. 7 of DMEA Order–I, Amended.

(b) Explain to what extent you propose to furnish your share of the costs by providing money, by use of equipment owned by you, or otherwise.

* * * * *

INT.–DUP. SEC., WASH., D.C. 15539

OFFICIAL FILE COPY.
D M & A
RECEIVED OCT 30 1957

DATE	INITIALS	CODE

Information concerning Mineral Property

1. Applicant's Property Rights:
   (a) Description of Property
      1. There are eleven (11) unpatented Lode Mining Claims consisting of approximately 220 acres, the mining claims known as 1. Rainy Day; 2. Rainy Day #1; 3. Wonder; 4. Wonder #1; 5. Monster #1; 6. Monster 7. Jumbo 8. Jumbo #1; 9. Burro; 10. Burro #1; 11. Rattler, all recorded in the Recorders office in Esmeralda County, Nevada; said mining claims are known as the "Paymaster Group", in the Lone Mountain District under the names of William Farris, and Fred Steen of Tonopah, Nevada.

      2. The second group of claims are six (6) unpatented Lode Mining Claims consisting of approximately 120 acres, these mining claims known as Royal Flush, and Royal Flush #1 recorded in Book 1-N, page 279 June 6, 1957 in Esmeralda County, Nevada and Royal Flush #2, Royal Flush #3, Royal Flush #4, Royal Flush #5, recorded on June 21, 1957 in book 1-N, Page 285, Esmeralda County, Nevada under the name of Wayne M. Mann.

   (b) The 17 claims are all contiguous and are known as:

      The Farris-Steen claims
      The Paymaster Lead-zinc claims
      The Paymaster Canyon claims
      The Paymaster Trusteeship claims
      The Mann claims

   (c) The interest held in the 11 Farris-Steen claims came from a verbal agreement executed with Ira Jacobson sometime in June 1956, later written up in August 1956 and finally formalized on the 3rd day of October 1956. The interest held in the 6 Royal Flush claims come directly from locating the property. A copy of the lease is attached.

   (d) There are no liens, mortgages or encumbrances on the property.

2. Physical Description:

   (a) Enclosed you will find a sketch map of the 11 Farris-Steen claims. On the Burro claim bulldozer work has been accomplished and samples from this vein showed $6.30 in silver, 2.6% lead, and 25.90% zinc. This is the best showing and came from about 6 feet from the surface. This hole has since been covered and came difficult to work. On the Monster claim we had a loader on a vein there and took out about 40 tons of the material. An average of this ran $2.77 in silver, .6% in lead and 7.5% in zinc. This is from an assay from Ed Eisenhauer dated June 28, 1957.

   On a mass test of approximately 5 tons covering ore from three places on the vien on the Monster claim and from the vein on the Burro claim, we obtained an average of $3.47 in Silver, .2% copper, 3.0 lead, and 8.5 zinc. This is from an assay from Ed. Eisenhauer in Los Angeles dated January 10, 1957.

   On the Royal Flush claims, a map of which is enclosed, Jack Hamilton, geologist took samples from an abandoned mine on the Royal Flush claim.

Results from this mine taken March 18, 1957 indicate the following according to assays by Minerals Refining Co., 5221 South Major St., Murray, Utah, Invoice No. 3-15-57- 1, 2, 3, 4, 5, 6 indicate:

assay no.	(Taken from Royal Flush Claim)		
1.	Shaft Mine--2nd Level on right:	6.4% lead	
		11.8% zinc	
2.	"	1st Level	.1% lead
			1.7% zinc
3.	"	storage ore	7.4% lead
			11.5% zinc
5.	"	bottom level	.2% lead
			.8% zinc

(Taken from Royal Flush #3 Claim)

4.	Rat Hole (assay No.4)	18.0 lead	
		1.3 zinc	
5.	Stake Mine	8.4 lead	
		.7 zinc	

(b) My interest is approximately 60% of the mineral in the Farris-Steen claims not counting a sliding scale gross royalty as defined by contract.
My interest in the Royal Flush claims is 100%.

(c) There has been no production since World War I that I know of from the old mine on Royal Flush claim, and no production whatever on the 11 Farris-Steen claims. I have no data on these mines, but the area is adjacent to the Booth mine which has produced some ore I understand, but I have no information on how much the production has been.

(d) There are no known ores or measured reserves in the sense of any accurate estimations. More exploration is needed to find out if the area is of any value. The samples taken on the assays above were taken by cross-cuts of the veins by Jack Hamilton, geologist. The other assays from Eisenhauer were from mass samples taken after cutting in on the vein with an end loader and hauling about 7 tons to Los Angeles.

(e) Not enough is known about the geological composition at this time to make any definite statements. I understand the ore is galina and cerrusite in lead, and the silver is similiar to the Tonopah silver. The deposit is a vein deposit and it can be traced on the surface for some distance.

(f) We expect to find ore because we have already have some evidence of it, but much more exploration is needed before any substantial amount of money is spent. See the enclosed maps and assays for additional information. I am hopeful that I can get these assays returned as they are my only copies.

(g) As yet, there are no geological or engineering reports, only samples taken from the veins exposed.

3. Accessibility of Project:

(a) J. Kenneth Mann, living in the 1957 brown and white trailer, 2nd on the high ramp, at the Depot Trailer Court, Tonopah, Nevada, telephone 982 will meet the representative of the DMEA. If he isn't there, Mr. Fred Steen of Tonopah will accompany the representative.

Take the road past the Tonopah dump going south, and stay on this road until you pass the valley and start on the rise (total of about 12 miles) and turn left on the only road turning left and this will take you to Paymaster Canyon. The old Booth Road and mine can be seen to the right. When that is sighted, turn to the left at the only road turning left, and you can see the workings on the Monster claim. On the right, you will see the old abandoned mine shaft on the Royal Flush claim.

(b) Employees will reside at Tonopah, Nevada. This is about 18 miles from the mine. Shipping points for the ore will have to be determined.

4. The Exploration Project:

(a) We expect to have a superintendent of the operation which probably will be myself. Two drillers will be employed to do drilling, one of which will be J. Kenneth Mann. We intend to do the following drilling:

1000 feet of drilling in approximately 5 or 6 holes if possible. We will use a Schramm Rota-Drill with an AX size core, using tungsten-carbide bits if possible, and diamond bits together with a core barrel to obtain cores of the ore.

See map for proposed drilling sites. These may be changed after DMEA men inspect the property.

(b) Access roads to drill sites will have to be constructed. This will consist of approximately ½ mile of roads, and will be bulldozed.

(c) Work would begin within 30 days from the time the DMEA approved of the project. Unless unforeseen difficulties arise, we would expect to complete the project within 30 days from the time it began.

We would expect to complete 50 feet of drilling per day.

5. Experience

I have been in the mineral exploration business for 4 years, and my brother, J. Kenneth Mann has been in the drilling business for approximately 2 years. He did about 10,500 feet of drilling in Tonopah on the Byron Foster property and the area around the Lambertucci property for uranium.

6. Estimate of Costs:

Unless it is contrary to the policy of DMEA I would like to submit a plan whereby I, as an individual would contract with National Resources Development Company, a corporation owned by members of my family. We have a bulldozer near the property, an end loader near the property, compressor near the property, and a drill rig near the property. We already have experience with the equipment, and feel as if we could do the job.

NRDC would contract to the drilling and development for 1000 feet for $5.00 per foot of drilling, including diamond drilling for purposes of taking cores. This would include making the necessary roads, hiring the personnel, making the necessary assays, and submitting reports.

Because of the remoteness of the area, it would be impractical to obtain contracts for such a small operation.

There is the problem of taking cores. This sometimes is difficult to do. We want to do the best job possible, but we would not want to contract to do a job impossible for us to handle. We think we can do it and are hopeful that a DMEA representative can stop by and inspect our equipment.

If after consideration by the DMEA such an arrangement on the finances is contrary to the policy, I shall be glad to submit an alternative plan.

Estimated actual costs of operation of our equipment is as follows for the job:

40 hours of roadwork at $10.00 per hour.....	$400.00
25 days of drilling at 40ft/day	
(40¢/g)Gas costs.....	$485.00
" Gas costs for transportation to property..	$275.00
Reconversion for AX size rods.....	$600.00
Bits for the job, 25¢@100 (diamond)	$2500.00
Superintendent	500.00
Driller	500.00
Helper	400.00
	$5560.00

However, since the proposition would be of such assistance, and we might be able to save on bit costs by using bits made as was suggested by Mr. Long, we would contract to do the entire job for $5000.00.

7. (a) We would be willing to share the cost of the proposed project in accordance with the regulations on Government participation stated in Sec. 7 of DMEA order-1 Amended.

(b) We would share in the cost by providing money to National Resources Development Company.

I hope this information is satisfactory. It was a pleasure to talk with you at our meeting on October 4th. Mr. Barnes sends his regards.

Sincerely,

Wayne M. Inman

Incls: Copy of lease, 2 maps, 11 copies pertaining to assays.

KENNECOTT COPPER CORPORATION
NEVADA MINES DIVISION
McGILL, NEVADA

September 12, 1955

Mr. M. J. Kniefel
Box 13
Tonopah, Nevada

Dear Mr. Kniefel:

Enclosed is a certificate of assay showing the results on the sample you recently submitted.

Material of the character indicated by your sample would have a smelter settlement valuation of approximately $21.06 per ton. The treatment rate on material of this character and valuation is about $7.92 per ton, leaving a net return to the shipper of $13.14 per ton before transportation charges are deducted.

This type material would be accepted for treatment at this plant. Enclosed is an information blank which we ask that the shipper please fill out and return to this company when making shipment.

Yours very truly,

Edward Pescut
Smelter Superintendent

This came to me from Fred Steen and Mr. Ferris and represents ore taken from the Raymaster claims.

The reason shipments were not made was on account of the high cost of transportation. After mining costs, and payment of royalty, it was decided that the operation would be a marginal one and Mr. Kniefel turned the property back to Ferris & Steen.

/Bmc.

ASSAY CERTIFICATE

UNITED STATES SMELTING REFINING AND MINING COMPANY

Name [redacted]

[redacted], [redacted]

Midvale, Utah, September 6, 19 55

[redacted]	Oz. Gold Per Ton	Oz. Silver Per Ton	Per Cent Copper	Per Cent Lead	Per Cent Silica	Per Cent Iron	Per Cent Zinc	Per Cent Sulphur	Per Cent Lime	Per Cent Antimony	Per Cent Bismuth	Per Cent Arsenic	Per Cent Cadmium	Bars	Per Cent
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]			8.9								

[redacted]

ASSAY CERTIFIC .TE

Los Angeles, Calif., March 28, 1977

I hereby Certify that the samples described below were assayed from

Owner Mark and Sample	Gold		Silver		Copper		Lead		Zinc		Platinum		Palladium		Iridium		Rhodium		Ruthenium		Osmium	
	Oz. per ton	Value per ton	Oz. per ton	Value per ton	Per cent	Value per ton	Per cent	Value per ton	Per cent	Value per ton	Oz. per ton	Value per ton	Oz. per ton	Value per ton	Oz. per ton	Value per ton	Oz. per ton	Value per ton	Oz. per ton	Value per ton	Oz. per ton	Value per ton
Mich.											1.06	$ 2.77		$		$ 2.77						

MINERALS REFINING CO.

Date: [illegible]
Sample marked: [illegible]
Received from: [illegible]
Box 1[illegible]
Tokopah, Nevada

COMPLETE X-RAY SPECTROGRAPHIC ANALYSIS

[illegible]	Indium	[illegible]
[illegible]	Iron	[illegible]
[illegible]	Lanthanum	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	Lead	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	Magnesium	[illegible]
[illegible]	Manganese	[illegible]
[illegible]	Molybdenum	[illegible]
[illegible]	Nickel	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	Palladium	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	Selenium	[illegible]
[illegible]	Strontium	[illegible]
[illegible]	Tantalum	[illegible]

[illegible] range in concentration greater than 10%; S, 1-10%; [illegible] 0.1-1.0%; T, 0.01-0.1%; [illegible] [illegible] [illegible], semiquantitative methods were used in analysis.

MINERALS REFINING CO.

[illegible] (partial)

By _____

MINERALS REFINING CO.
5221 South Major St.
Murray, Utah
P. O. Box 207
Midvale 84047
Invoice No. [illegible]

Date: March 18, 1997
Sample marked: [illegible] Level Shaft Mine
Received from: National Resources Development
P. O. Box 180
Tonopah, Nevada

COMPLETE X-RAY SPECTROGRAPHIC ANALYSIS

[illegible]	Indium	Tellurium
[illegible]	[illegible] Iron	Terbium
[illegible]	Lanthanum	Thallium
[illegible]	[illegible]	[illegible]
[illegible]	Lutetium	[illegible]
[illegible]	[illegible] Manganese	[illegible]
[illegible]	Mercury	[illegible]
[illegible]	Molybdenum	[illegible] Tungsten
[illegible]	Neodymium	[illegible]
[illegible]	[illegible] Nickel	[illegible]
[illegible]	Praseodymium	[illegible]
[illegible]	Radium	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	Rubidium	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	Scandium	[illegible]
[illegible]	[illegible] Selenium	[illegible]
[illegible]	[illegible] Strontium	[illegible]
[illegible]	Tantalum	[illegible]

G, greater than 10% value in concentration greater than 10%; S, 1-10%; W, 0.1-1.0%; T, 0.01-0.1%; ND, not detected.
Spectrographic semiquantitative methods were used in analysis.

MINERALS REFINING CO.

By _____

Chemist [illegible] (gold)

MINERALS REFINING CO.
[illegible] South Major St.
Murray, Utah
P. O. Box [illegible]
ME[illegible]
Invoice No. 3-16-57-4

Date: March 18, 1957
Sample marked: [illegible]at Hole Mine
Received from: National Resources Develop.
P. O. Box 188
Tonopah, Nevada

COMPLETE X-RAY SPECTROGRAPHIC ANALYSIS

[illegible] Antimony	Indium	Tellurium
T Arsenic	10.4% Iron	Terbium
Barium	Lanthanum	Thallium
Bismuth	18.20% Lead	Thulium
Cadmium	Lutecium	Thorium
Cesium	1% Manganese	Tin
Cerium	Mercury	Titanium
Chromium	Molybdenum	Tungsten
Cobalt	Neodymium	Uranium
Columbium	T Nickel	Vanadium
5.2% Copper	Praseodymium	Ytterbium
Dysprosium	Radium	Yttrium
Erbium	Rhenium	1.3% Zinc
Europium	Rubidium	Zirconium
Gadolinium	Samarium	
Gallium	Scandium	
Germanium	ND Selenium	
Gold	W Strontium	
Hafnium	Tantalum	

In general, M refers to concentration greater than 10%; S, 1-10%; W, 0.1-1.0%; T, 0.01-0.1%; ND, not detected.
If figures are reported, semiquantitative methods were used in analysis.

MINERALS REFINING CO.

Charges: $ 10.00 (paid)

By _____

MINERALS REFINING CO.
5221 South Alpine St.
Murray, Utah
P. O. Box 367
Midvale 84047
Invoice No. 3-15-57-3

Date: March 18, 1957
Sample marked: Average Ore Shaft Mine
Received from: National Resources Devel. Co.
P. O. Box 188
Tonopah, Nevada

COMPLETE X-RAY SPECTROGRAPHIC ANALYSIS

Antimony	Indium	Ytterbium
Arsenic	3.85 Iron	Yttrium
Barium	Lanthanum	Thallium
Bismuth	7.05 Lead	Thulium
Cadmium	Lutecium	Uranium
Cesium	Manganese	Tin
Cerium	Mercury	38 Titanium
Chromium	Molybdenum	Tungsten
Cobalt	Neodymium	Uranium
Columbium	? Nickel	Vanadium
Copper	Praseodymium	Ytterbium
Dysprosium	Radium	Yttrium
Erbium	Rhenium	11.05 Zinc
Europium	Rubidium	? Zirconium
Gadolinium	Samarium	
Gallium	Scandium	
Germanium	ND Selenium	
Hafnium	Strontium	
Holmium	Tantalum	

In general, lines up to concentration greater than 10%; S, 1-10%; W, 0.1-1.0%; T, 0.01-0.1%; ND, not detected.
If figures are reported, semiquantitative methods were used in analysis.

MINERALS REFINING CO.

By _____

Charge of [illegible] ($[illegible]/lb)

MINERALS REFINING CO.
5221 South Major St.
Murray, Utah
P. O. Box 247
Ambient 6-3231
Invoice No. [illegible]

Date: [illegible]rch 18, 1977
Sample marked: [illegible]t level shaft mine
Received from: National Resources Develop.
P. O. Box 188
Tonopah, Nevada

COMPLETE X-RAY SPECTROGRAPHIC ANALYSIS

Antimony	Indium	Tellurium
T Arsenic	2.35 Iron	Terbium
Barium	Lanthanum	Thallium
[illegible]	[illegible] Lead	Thulium
Cadmium	Lutecium	Thorium
Cesium	[illegible] Manganese	Tin
Cobalt	Mercury	Titanium
Chromium	Molybdenum	T Tungsten
[illegible]	Neodymium	Uranium
Columbium	T Nickel	Vanadium
T Copper	Praseodymium	Ytterbium
Dysprosium	Radium	Yttrium
Erbium	Rhenium	2.07% Zinc
Europium	Rubidium	T Zirconium
Gadolinium	Samarium	
[illegible]	Scandium	
Germanium	ND Selenium	
Hafnium	T Strontium	
Holmium	Tantalum	

In general, M refers to concentration greater than 10%; S, 1-10%; W, 0.1-1.0%; T, 0.01-0.1%; ND, not detected.
If figures are reported, semiquantitative methods were used in analysis.

MINERALS REFINING CO.

Charges: $ [illegible] (per 4)

By _____

MINERALS REFINING CO.
5221 South Major St.
Murray, Utah
P. O. Box 267
Ambassador 6-5221

Invoice No. 3-15-57-1

Date: March 18, 1957
Sample marked: Shaft Mine-2nd level on rig
Received from: National Resources Develop.
P. O. Box 188
Tonopah, Nevada

COMPLETE X-RAY SPECTROGRAPHIC ANALYSIS

Antimony	Indium	Tellurium
T Arsenic	5.5% Iron	Terbium
Barium	Lanthanum	Thallium
Bismuth	6.4% Lead	Thulium
Cadmium	Lutecium	Thorium
Cesium	[illegible] Manganese	Tin
Cerium	Mercury	Titanium
Chromium	Molybdenum	T Tungsten
Cobalt	Neodymium	Uranium
Columbium	T Nickel	Vanadium
3.[illegible] Copper	Praseodymium	Ytterbium
Dysprosium	Radium	Yttrium
Erbium	Rhenium	11.[illegible] Zinc
Europium	Rubidium	Zirconium
Gadolinium	Samarium	
Gallium	Scandium	
Germanium	ND Selenium	
Hafnium	T Strontium	
Holmium	Tantalum	

In general, dit refers to concentration greater than 10%; S, 1-10%; W, 0.1-1.0%; T, 0.01-0.1%; ND; not detected.
All figures are reported, semiquantitative methods were used in analysis.

MINERALS REFINING CO.

By _____

Charge $ 20.00 (paid)

[redacted]

Spectro No.	Submitter's Sample Description	Estimated Percentage (%)											
		Ag	Pb	Zn	Si	Mg	TiO_2	Ca	Fe	Cu	In	Cd	Mn
-058	Ore Sample*	0.003	—	1	20-30		5-10	20-30	5-10	—	—	—	1-
-168	Dry Bone Zinc	0.0025	0.002	0.1	15-20	5-10	10-20	10-20	5-10	0.005	0.001	0.001	-1
-169	Formation Next to Lime Wall	0.0025	0.5	2-5	15-20	5-10	0.5-1	10-20	0.5-0.1	0.001	0.001	0.002	

*Note - Cd, In, Pb, or Cu not detected.

CAR/lo
1-30-33

PAYMASTER GROUP LONE MOUNTAIN

ASSAYS VARIOUS SAMPLES

	Silver	Lead	Zinc
Lead-zinc vein exposures:			
Four feet out upper workings	$4.10	1.06%	7.40%
Vein exposure Rattler claim	5.42	9.10%	16.00%
Vein exposure Monster Claim	6.42	11.[illegible]%	17.90%
Sundry samples:			
Sample from mouth	6.[illegible]	.90%	14.40%
[illegible]	3.69	-	11.30%
[illegible]	1.[illegible]	.06%	4.10%
[illegible]	1.[illegible]	0.40%	3.[illegible]%
[illegible]	5.04	Tr	8.[illegible]%
[illegible]	.44	Tr	12.[illegible]%
[illegible]	.07	Tr	3.[illegible]%
Vein exposure Claim	6.[illegible]	2.06%	[illegible]
Sample cropping Barro Claim	[illegible]	5.9%	1.[illegible]%
Some of the above showed small gold value.			
Sample from large dry bone zinc cropping	2.25	1.5%	.[illegible]%

* * * * * * * * * * * * *

Miscellaneous samples taken from copper vein:

Across a width of about 14 feet-general sample Au.06 Ag.[illegible]-Cu 2.2

Other samples on copper exposures gave 5.74%-2.74%-1.[illegible]% and 12.[illegible]% cu. The latter a picked sample.

PURCHASE OF MINERAL RIGHTS AND MINING LEASE

THIS AGREEMENT made and entered into on this Third (3rd) day of October 1956, by and between WAYNE M. MANN, P. O. Box 4, Shattuc, Illinois, hereinafter referred to as "Lessee" and FRED STEEN and W. M. FERRIS, of Tonopah, Nevada, hereinafter referred to as "Lessors,"

W I T N E S S E T H

WHEREAS the Lessors are in possession and the owners of all the mineral rights of eleven (11) unpatented Lode Mining Claims consisting of approximately 220 acres, the mining claims known as 1. Rainy Day; 2. Rainy Day #1; 3. Wonder; 4. Wonder #1; 5. Monster #1; 6. Monster 7. Jumbo 8. Jumbo #1; 9. Burro; 10. Burro #1; 11. Rattler, all recorded in the Recorders office in Esmeralda County, Nevada; said mining claims are known as the "Paymaster Group", in the Lone Mountain District, in Section _____, Range _____, Township _____, Esmeralda County Nevada; and

WHEREAS the Lessee is desirous of obtaining from the Lessors a lease-purchase agreement on said premises for the purpose of exploring for and mining minerals and any and all materials classified as metals, other than oil, gas or other hydrocarbon substances;

NOW, THEREFORE, THIS AGREEMENT WITNESSETH:

For and in consideration of the sum of One Dollar ($1.00) in hand paid by Lessee to Lessors, receipt whereof is hereby acknowledged, and in consideration of the rents, royalties, covenants and agreements hereinafter set forth, the parties hereto agree as follows:

I. LEASE - PURCHASE OF THE DEMISED PREMISES

The Lessors hereby warrant that they have the demised property properly monumented and are the legal owners and in full possession thereof holding good title to the demised premises described herein and own the mineral rights thereon; the Lessors do hereby lease, demise and let unto the Lessee and the Lessee does hereby hire from the Lessors the above described property for the purpose of exploring for minerals and/or metals upon the surface and beneath the surface of the ground which is the subject matter of this Agreement hereinafter more particularly described.

DMEA

TO HAVE AND TO HOLD said leased premises for the purpose of mining ores, minerals and materials therefrom unto the Lessee for the term of five (5) years beginning on the 3rd day of October, 1956, and ending on the 3rd day of October, 1961. In the event that on the date of termination, that is on the 3rd day of October, 1961, Lessee is conducting and has conducted mining operations on the demised premises during all or part of the preceding twelve (12) months and Lessors have received in full the minimum monthly royalty as set forth herein this lease-purchase agreement shall continue in full force and effect until the 3rd day of October, 1966. If, however, on said 3rd day of October, 1961, being the first termination date of the lease set forth above, the provisions of paragraphs "4" and/or "5", of Section II thereof shouldbe in effect, then said termination date shall be deemed to be thirty (30) days after resumption of mining operations as set forth in said paragraphs "4" and/or "5". In determining the preceding twelve months period specified in this paragraph, those months or any part thereof during which mining operations were suspended in accordance with said paragraphs "4" and/or "5" shall be treated as non-existent.

II. Royalties

The Lessors hereby reserve and Lessee hereby agrees to pay directly, or cause to be paid by buyer to the Lessors, royalty upon all ores of every nature whatsoever mined, shipped and sold from the property during the term of this lease as follows:

1. (a) 5% of all monies received for raw ore, which sells for $15.00 or less per ton;
   (b) 7½% of all monies received for raw ore, which sells for above $15.00 but not more than $30.00 per ton;
   (c) 10% of all monies received for raw ore, which sells for above $30.00 but not more than $150.00 per ton;
   (d) 15% of all monies received for raw ore, which sells for above $150.00 per ton.

it being expressly understood and agreed by the parties hereto that before royalty all transportation charges on the ore, shipped from the property to buyer's point of acceptance shall be deducted from monies received therefor.

There shall be no deductions, however, by reason of development and mining of ore or ores where the development and mining of ore or ores is done by the same company.

2. Unless instructions have been given by Lessors to have the buyer of the ore or ores make royalty payments directly to Lessors, then Lessee is to make payments of royalty to Lessors within five (5) days after receipt of money by Lessee from buyer for each shipment of ore made by the Lessee from said property. Royalty payment checks are to be deposited to the Lessors' account in the First National Bank of Nevada, at Tonopah, Nevada, and the Lessee shall render a statement of account to Lessors with each royalty settlement check, together with a copy or photostat of buyer's settlement statement.

3. Beginning on the 1st day of April, 1957, and on the first day of each and every month thereafter, Lessee shall pay to Lessors a minimum royalty of $500.00 until operations are begun. Upon beginning of mining operations, Lessee shall be credited on each minimum monthly royalty payment date with the amount of the royalties, as set forth in "1" above, paid to Lessors in the preceding month and/or due to Lessors on ores shipped during the preceding month for which buyer has accepted and given credit although settlement checks may not have yet been received by Lessee. The minimum royalty shall not be paid by Lessee in any month in which the minimum monthly royalty is equal to or less than the royalties. Lessee shall work a minimum of forty-five (45) shifts per month or the equivalent thereof.

4. If the Lessee at any time finds it necessary to temporarily suspend shipment of ores because a period of development work or repairs is required, he at his sole discretion, may temporarily suspend the shipments for a period not to exceed ninety (90) days at any one time, and shall give Lessors written notice of his intention to temporarily suspend such shipments, setting forth the reasons therefor; however, Lessee shall continue the payments to Lessors of the minimum monthly royalty unless the royalty set forth in "1" above has exceeded the minimum monthly royalty of $500.00 in each and every month for the preceding

twelve (12) months shall be credited by Lessors against the minimum monthly royalty payable during the period when said shipments are temporarily suspended.

5. If for any reason over which Lessee has no control such as, by way of illustration but not in limitation, Act of God, riot, war, invasion, flood, fire, strike, order of government or governmental agency, or inability to sell the ores or concentrates because instructions have been received from buyer or buyers not to ship, it shall become necessary for Lessee to suspend operations for a period of ten (10) days or more, Lessee shall so notify Lessors in writing and all minimum monthly royalty payments by Lessee to Lessors shall cease during the period in which operations are so suspended. Upon the cessation of any such cause, Lessee shall immediately resume operations and shall so notify Lessors in writing and the payment of the minimum monthly royalty shall be resumed. If operations are resumed on or before the fifteenth day of the month, the next monthly royalty payment shall be made on the first day of the succeeding calendar month; if resumed after the fifteenth day of the month, then the first mining monthly royalty payment shall be made on the first day of the second succeeding calendar month.

III. Title

Lessors hereby warrant and covenant that they hold good, sufficient and marketable title to the mining claims demised under this agreement subject only to the paramount title of the United States of America, that they will place a quit claim to the Mineral Rights, hereunder with a third party to be selected by the parties hereto, who will be given a copy of this agreement, with instructions to said third party to deliver said quit claims to Lessee upon payment of the full purchase price hereunder. If any legal action is commenced, wherein Lessors paramount title is in jeopardy, Lessee shall have the right to help Lessors protect the paramount title and, at Lessee's option, if money is to advance the same, so that the Mineral Rights hereunder shall be safeguarded. Lessee, however, assumes no responsibility for the outcome of such title suits. It is mutually agreed between the parties hereto that should Lessee advance any sum toward paramount title protection, said sum may be repaid by being withheld from royalties due Lessors hereunder, or by means in repayment of the loan. In no way will any advancement of money be considered as a lien against the paramount title held by Lessors.

IV. OPERATION OF DEMISED PREMISES

1. Immediately upon execution of this agreement, the Lessee shall be permitted to enter upon the demised premises and throughout the term of this lease the Lessee shall have the sole right to explore, develop and/or mine, extract and remove ores of every nature whatsoever, which includes all ore, ore-bodies, metal-bearing quartz, rock or earth, metals, minerals, mineral substances - with the exception of oil, gas or other hydrocarbon substances - valuable stones, chemicals, metallics or non-metallic substances, therein or thereon contained, including all tailings, or otherwise, and to smelt, mill, concentrate, reduce and sell the ore irrespective of form in which it is produced or obtained from the demised premises by whatsoever means is practical according to Lessee's wish and sole judgement; such as by way of illustration but not in limitation, digging holes, trenches, core, rotary or churn drilling, sinking shaft or shafts, driving drifts, crosscuts, tunneling (driving adits) or otherwise; including the installation of a temporary pilot mill for making mill tests of the ore on the property and/or removing ore from the demised premises for pilot mill tests to be made elsewhere when the lessee deems such tests necessary to determine proper method to concentrate or process the ore or ores found on the premises prior to the installation of a mill for regular or steady production.

2. All work upon the demised premises shall be done in a good and workmanlike manner and according to proper mining practices and the mining laws of the State of Nevada and any other applicable laws governing such an operation. All mine workings, where necessary, or where directed by the State Mine Inspector or his deputy, shall be timbered properly and substantially and with a view towards developing a workable mine or mines. All mine openings when in use shall be kept clear of obstructions and in condition so that they can be safely entered. The laws of the State of Nevada and all safety requirements of the State Mine Inspector or his deputy shall be complied with promptly by lessee.

3. At Lessors' risk, they or their properly authorized agents may enter at all working hours when mine is in operation upon or in any mill or other property used by the Lessee in connection with operations upon the demised premises for the purpose of inspection or in connection with

sampling of ores or concentrates, but in so doing Lessors or their authorized agents shall not interfere in any way with mining operations by Lessee nor use the efforts or time of Lessee's employees. Records of logs kept by Lessee of drill hole findings, whether cuttings or cores, are to be available for Lessors inspection at time of drilling.

4. At the Lessors' risk, they or their duly authorized agents shall have access at all reasonable times during regular business hours to the books and records of Lessee which are connected in any way with the operations on said demised premises, but in so doing Lessors or their duly authorized agents shall not disrupt in any way the operations of Lessee nor use the efforts or time of Lessee's employees.

5. The Lessee shall not incur any debts or liens against the demised premises or any part thereof without the written consent of Lessors during the term of this lease-purchase agreement, otherwise they shall indemnify and save harmless the Lessors and said premises from any and all liens.

6. Notices of non-responsibility are to be posted by Lessors and kept posted in a conspicuous place or places upon said premises, in the manner and form prescribed by law.

7. The Lessee hereby assumes any and all liability arising as a result of accidents or injuries to his agents or employees or any other persons, except to Lessors or their duly authorized agents, occurring or about the demised premises while in the possession of the Lessee, and the Lessors shall be indemnified against any liability or responsibility for or on account of any such accidental injury, it being understood and agreed that the hazard of such assumption of liability therefor by Lessee is taken into consideration by the parties hereto in fixing the consideration under this lease-purchase agreement.

8. The Lessee shall at all times during the life of this lease promptly pay all taxes upon any machinery, equipment or improvements placed on the demised premises, and the Lessors reserve the right to pay such taxes if Lessee at any time fails to pay the same while owing Lessors monies for any reason whatsoever. Any such payments made by Lessors shall be charged against Lessee and be paid to Lessors before the removal of any of said taxable equipment from the premises.

9. The Lessee shall carry liability insurance in accordance with the laws of the State of Nevada continuously throughout the life of this lease and shall make all payments required under Social Security and other laws of the United States of America and the State of Nevada now or hereafter enacted.

10. Lessors agree to grant, and do hereby grant, to Lessee the privilege of installing a mill for the treatment of ore upon the premises, of capacity necessary to treat the ore mined, such mill and appurtances to be deemed the property of the Lessee hereunder.

11. Lessors hereby specifically consent and agree that Lessee has the right to use rented or leased machinery and/or equipment of every nature whatsoever in the operation conducted on the demised premises.

12. Lessors hereby specifically consent and agree that Lessee has the right to contract with other individuals, firms or Corporations to conduct mining operations and any work in connection therewith on all or any part of the demised premises, but in such event Lessee shall not be relieved of any of the terms and conditions set forth herein on his part to be kept and performed.

13. Lessors agree that all roads now leading through and upon the premises, or which may be constructed thereon shall be open to Lessee and Lessee agrees to keep said roads in condition which will enable mining or milling operations to be conducted.

14. Upon the termination of this lease the Lessee shall leave all openings well and substantially covered and/or adequately fenced.

15. It is understood and agreed that the Lessee shall have the right to develop and use such water on the demised premises as is necessary for this mining operation.

16. Lessors hereby consent and agree that Lessee has the right to erect any buildings necessary for mining and/or milling purposes also for housing employees and their families, camp buildings and/or a house trailer camp. All necessary sanitary facilities shall be installed according to the laws of the State of Nevada and applicable local laws, if any. Lessors agree that any employee of the Lessee who moves his own house trailer onto said demised premises shall be allowed to remove the same without hindrance and that it will not be held by Lessors for any monies which may be due to Lessors by Lessee.

V. TERMINATION BY DEFAULT OR CONSENT

1. If the Lessee shall default in any of the terms and conditions on his part to be kept and performed, Lessors may terminate this lease upon giving thirty (30) days prior written notice to Lessee of their intention so to do, setting forth therein the specific default or violation on the part of the Lessee. If the Lessee within the said thirty days shall make good the stated default or cease the stated violation, then this lease shall continue in full force and effect, otherwise it will cease and terminate.

2. Lessee has the right to terminate this lease by giving Lessors thirty (30) days prior written notice of his intention so to do.

VI. DUTIES AND RIGHT UPON TERMINATION

Upon the termination of this lease by its expiration, or sooner by either Lessors or Lessee as set forth in "V" above, it is understood and agreed as follows:

1. Lessee shall deliver to the Lessors the peaceable possession of the demised premises and shall be relieved of any further liability hereunder but he shall not be discharged from any obligation theretofore accrued in favor of the Lessors.

2. Lessee shall have the right and shall be allowed a reasonable time to remove from the demised premises all articles, chattels, equipment and fixtures whatsoever which are leased or rented from third parties. Lessee shall also have the right and shall be allowed a reasonable time to remove all items belonging to him which can be removed without material damage to the realty such as, by way of illustration but not in limitation, all tools, power units, hoisting machinery, head frames, generator equipment, motors, mine track, pipe lines, electrical switches and transformers, wiring, conveyors, ore bins and chutes, scales, crushing and/or screening equipment, milling and/or smelting equipment, air compressor pumps, mechanical ore loaders, motor trucks, automobiles, forging equipment, camp supplies and equipment and portable camp housing.

3. Lessee shall not destroy or injure and must leave in good condition all items which cannot be removed without material damage to the realty such as, by way of illustration but not in limitation, all permanent building, excepting prefabricated steel or wood bolted buildings, with wiring and/or plumbing intact.

4. If Lessee owes Lessors any monies upon the termination of this lease settlement thereof must be made in full before any machinery, equipment or supplies, other than rented or

leased equipment, can be removed from the demised premises, or, if machinery, equipment and supplies are sold by Lessee, the monies received from the sale thereof shall be the property of Lessors until all monies due to Lessors shall have been paid.

VII. WAIVER

Any waiver made or allowed to be made under the terms of this Agreement shall not be construed as a continuing waiver of any condition therein.

VIII. ASSESSMENT WORK

Lessee agrees to perform all annual assessment work on the unpatented lode mining claims herein described during the life of this Agreement, as required by law and to file the same with the County Recorder of Esmeralda County, Nevada, thirty (30) days before the date of expiration date for the annual assessment work to be done and to mail a copy of recorded 'Proof of Labor' to Lessors hereunder.

IX. PURCHASE OF MINERAL RIGHTS

It is agreed between the parties hereto that the full purchase price of the Mineral Rights under this Agreement shall be Sixty Thousand ($60,000.00) dollars. All royalties paid to Lessors, gross and minimum, shall accrue to the purchase price. In the event of termination of this Agreement, by either party hereto, all royalties paid heretofore shall be considered lease rental royalties and as such liquidated. In the event of termination of this Agreement, under its terms or by abandonment, because of lack of ore, or lowered market prices making it impossible to uphold a profitable mining operation, Lessee agrees to render Lessors a full quit claim to the premises, to give Lessors clear title to same.

X. NATURE AND EXTENT OF THIS PURCHASE OF MINERAL RIGHTS

1. This is a Lease to operate with right to purchase.

2. Times is the essence of this lease-purchase agreement, and of each and every term and condition contained herein.

3. This instrument may be transferred and assigned in whole or in part by any of the parties hereto and, when so transferred and assigned, this instrument and all its parts and provisions shall inure to the benefit, shall run in favor of and be obligatory upon such transferee with the same force and effect as though such transferee had originally been made a party hereto, all of their rights, so assigned, as well as all their obligations hereunder, so assigned, whatsoever the same may be, shall forthwith cease and terminate.

XI. COMMUNICATIONS

All notices provided for in this lease-purchase agreement must be given in writing, either by personal delivery or by registered mail addressed, as the case may be, to the Lessee or the Lessors, at their respective addresses as follows:

Wayne M. Mann, P.O. Box 162, Tonopah, Nevada
Fred Steen and W. M. Ferris, P.O. Box 811
Tonopah, Nevada

The date of any such notice shall be deemed to be the date of personal delivery thereof or the date of its mailing.

XII. LAWS APPLYING

The laws of the State of Nevada shall be the laws applicable to this lease-purchase agreement and to all its terms and conditions.

This lease-purchase agreement shall inure to the benefit of and be binding upon the parties hereto, their heirs, executors, administrators and assigns respectively.

IN WITNESS WHEREOF the parties hereto have hereunto set their hands and seals as of the date and year first above written.

Sadie E. Farris
W M Farris (L.S.)
Lessor
Josephine Steen
Fred Steen (L.S.)
Lessor

Wayne M. Mann (L.S.)
Lessee

OFFICIAL FILE COPY
BLM
RECEIVED
DATE

STATE OF NEVADA,
County of NYE } ss.

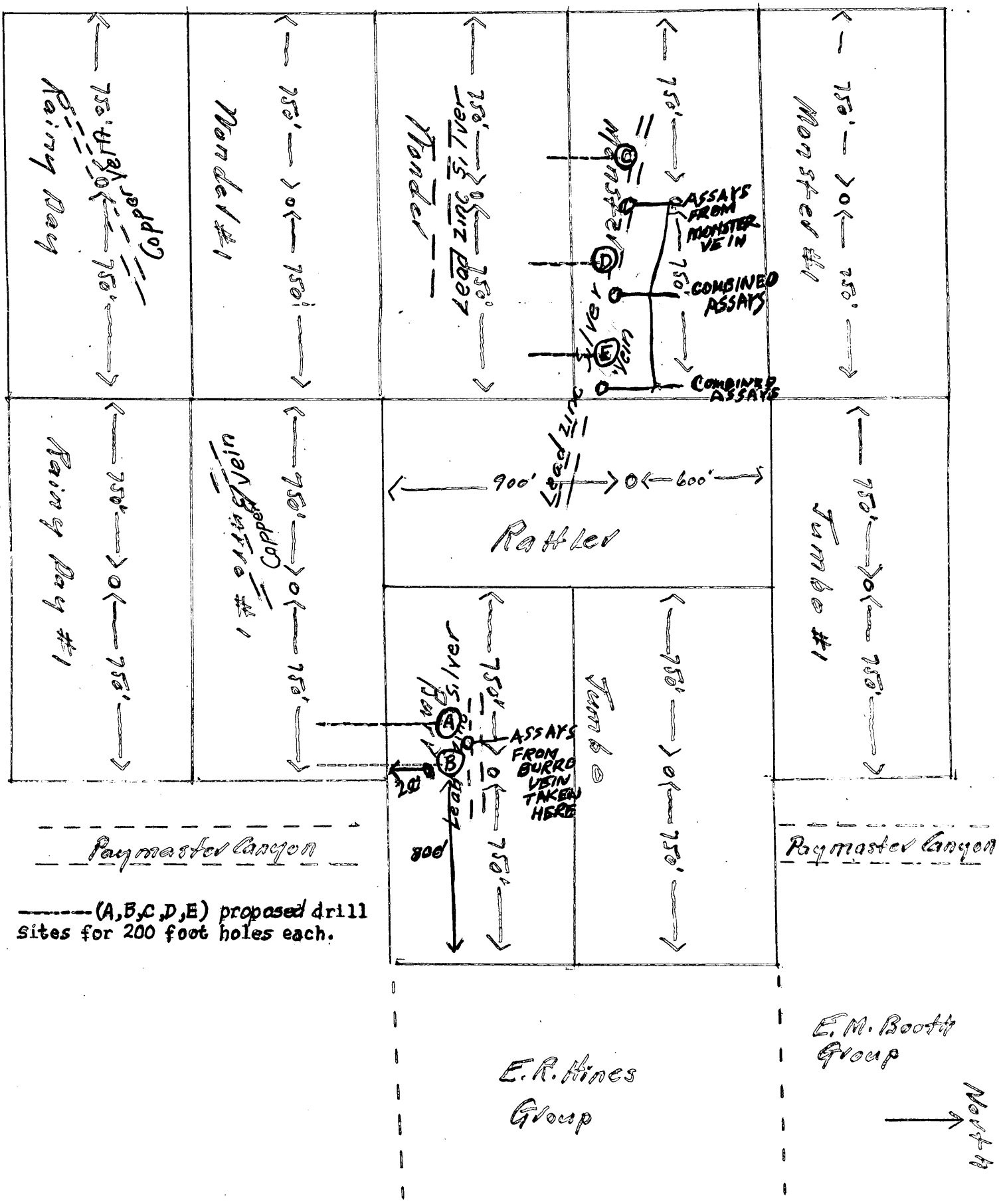
On this 24th day of November A. D., one thousand nine hundred and fifty-six personally appeared before me, Emerson F. Titlow, a Notary Public in and for the said County of Nye, Sadie E. Farris, W. M. Farris, Josephine Steen, Fred Steen, Wayne M. Mann known to me to be the persons described in and who executed the foregoing instrument, who acknowledged to me that they executed the same freely and voluntarily and for the uses and purposes therein mentioned.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal at my office in the County of Nye, the day and year in this certificate first above written.

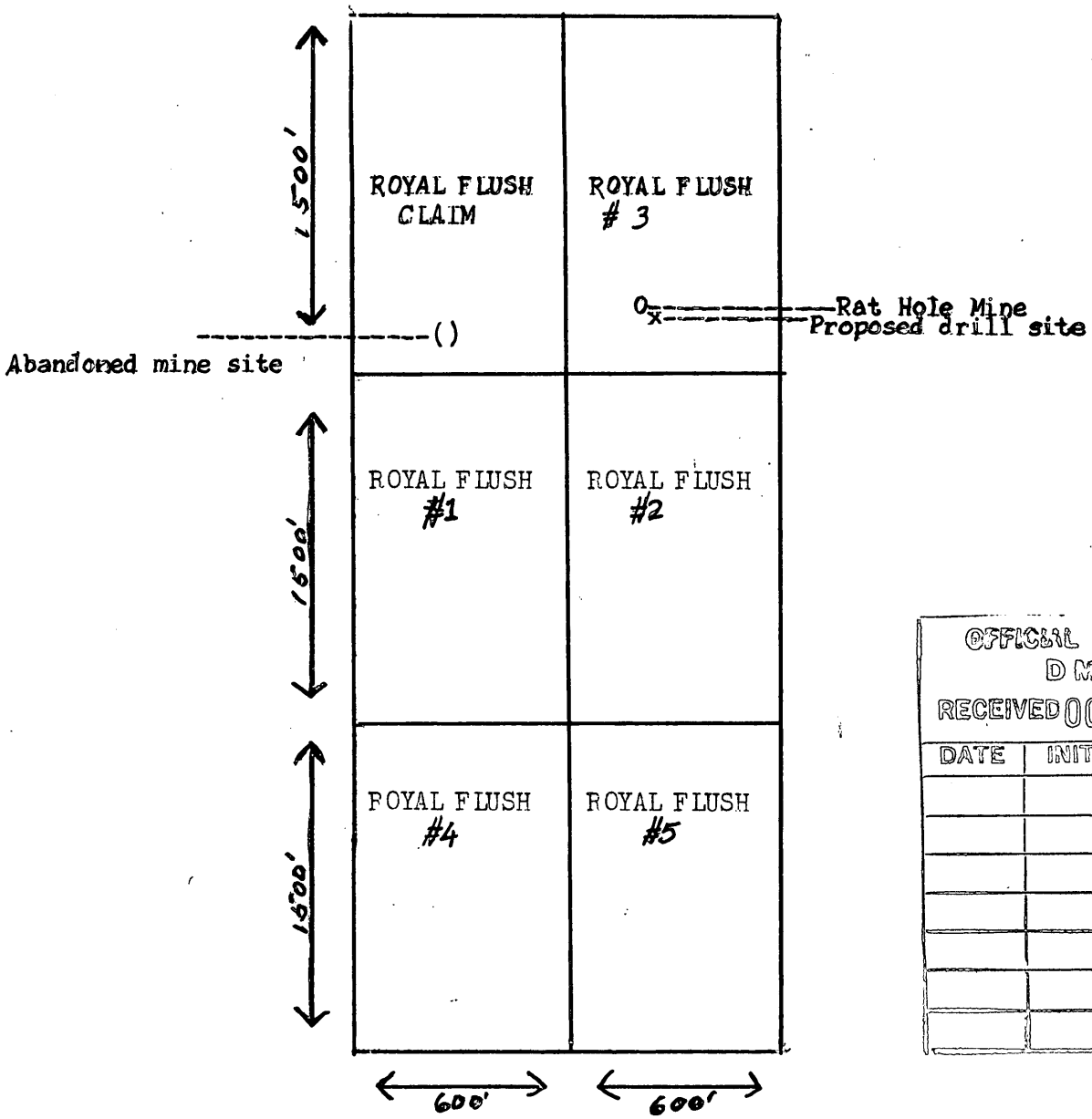
Emerson F. Titlow
My commission expires 4/6/57
Notary Public in and for the County of Nye, State of Nevada.

Carlisle's Form No. 36 N—(Acknowledgement General)

Paymaster Group - 11 Claims
Long Mountain Mining District
Farris & Steen



ROYAL FLUSH CLAIMS
OWNED BY WAYNE M. MANN



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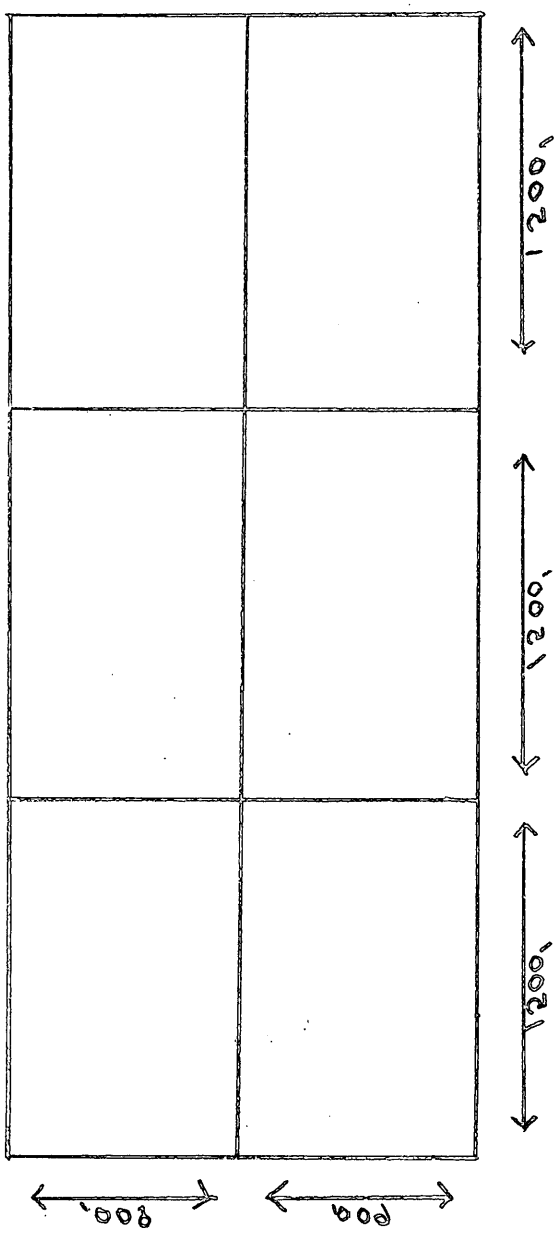
DMEA
RECEIVED OCT 30 1957

DATE	INITIALS	CODE



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DMEA
RECEIVED OCT 30 1957

DATE	INITIALS	CODE

U. S. Government Messenger Envelope

Standard Form No. 65 (Rev. 1/46)

1. Use blocks consecutively, one a
2. Void previous block.
3. Write clearly.

NAME OR TITLE OF PERSON, DEPARTMENT, ADDRESS, AND ROOM		NAME OR TITLE OF PERSON, DEPARTMENT, ADDRESS, AND ROOM	
Hyden	RUN / STOP		RUN / STOP
Administrative Branch	RUN / STOP		RUN / STOP
Harold Fletcher attn Mrs Hibbard	RUN / STOP		RUN / STOP
Mr Owen Kennedy ~~Geological Survey~~	RUN / STOP		RUN / STOP
Mr. Chamberlain Ext. 4454	RUN / STOP		RUN / STOP
	RUN / STOP		RUN / STOP
	RUN / STOP		RUN / STOP
	RUN / STOP		RUN / STOP
	RUN / STOP		RUN / STOP
	RUN / STOP		RUN / STOP

Send surplus envelopes to supply room for reissue.

Use other side

Use RUN and STOP only when messenger service between Government buildings in Washington is required. Your mail room has RUN and STOP information.

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
6/17	Jensen	500
6/18	Selbridge	130
6/18	Lamb	130
6/18	Kiilsgaard	130
"	Johnson	110
"	Mittendorf	100
		220

JUN 19 1958

Mr. Wayne M. Mann, Trustee
Paymaster Trusteeship
Post Office Box 4
Shattuc, Illinois

Re: Docket No. DMEA-4860 (Lead-Zinc-Copper-Selenium)
Wayne M. Mann, Trustee
Paymaster Group and Wayne M. Mann Claims
Esmeralda County, Nevada

Dear Mr. Mann:

Your application for aid for an exploration project and other reports available to us in Washington concerning your claims have been reviewed.

Projects approved by the Defense Minerals Exploration Administration must, in its judgment, show definite promise of yielding materials of acceptable grade in quantities that will significantly improve the mineral supply position for the National Defense Program.

Careful study of all our information, although noting a small amount of lead-zinc mineralization on your property, indicates to us that the probability of disclosing significant ore reserves is not sufficiently promising to justify Government participation. We regret to advise you, under these circumstances, that your application for exploration assistance is denied.

We wish to thank you for your interest in the Defense Mineral Program and for bringing your property to our attention.

Sincerely yours,

C. O. Mittendorf

Administrator

WRGriswold/er 6/17/58 (6/4/58)
Copy to: Docket
Admr R File
Op. Committee
Mr. Bishop, USBM
Mr. Kiilsgaard, USGS
Region II (2)
Chron.

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
6/4	Swanner	500
"	Johnson	110
		~~100~~
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		100
		225

Mr. Wayne M. Mann, Trustee
Paymaster Trusteeship
Post Office Box 4
Shattuc, Illinois

Re: Docket No. DMEA-4860 (Lead-Zinc-Copper-Selenium)
Wayne M. Mann, Trustee
Paymaster Group and Wayne M. Mann Claims
Esmeralda County, Nevada

Dear Mr. Mann:

We have been advised by our Field Team that you have relinquished your lease and option on the cited property. We must assume, therefore, that you are no longer interested in proceeding with the exploration project and hence, we are considering your application as having been withdrawn.

If at any future time you might decide to again apply for Government assistance in exploring the cited property, kindly refer to the captioned docket number.

Sincerely yours,

Administrator

WRGriswold/er 6/4/58
Copy to: Docket
Admr R File
Op. Committee
Mr. Bishop, USBM
Mr. Kiilsgaard, USGS
Region II (2)
Chron.

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code

June 17, 1958

Memorandum for the Docket

From: Director, Division of Base Metals

Subject: Denial of Application, Docket No. DMEA-4860, Wayne M. Mann, Trustee, Paymaster Group and Wayne M. Mann Claims, Esmeralda County, Nevada, Lead-Zinc-Copper-Selenium.

Trenching on the cited property has shown zinc values of casual interest. However, a review of the project by the Field Team shows that the zinc values are present in a non recoverable form, possibly isomorphous with iron in siderite. In any event, in a highly complex form. We therefore, concur with all reviewers and recommend denial. However, Mr. N. E. Nelson feels that if another application should be filed, we should investigate further. With this we are not in accord.

W. R. Griswold

8623

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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

June 3, 1958

Re: DMEA 4860; PB-ZN-CU-SE
Wayne M. Mann, Trustee
Paymaster Group & Wayne
Mann Claim
Esmeralda County, Nevada

Memorandum

To: W. R. Griswold, DMEA

From: O. M. Bishop, USBM

Subject: Field team report on application May 14, 1958

The field team notes that the applicant gave up the lease and option on the property February 15, 1958 and no longer has an interest.

The field examiners, Henry W. Jones (USBM) and J. E. Carlson (USGS) agree that the potential of the property is too limited to warrant DMEA exploration.

On the bases of these reasons, I recommend that the applicant be denied.

O. M. Bishop

O. M. Bishop

cc: Division of Minerals
Mr. Kiilsgaard
Mr. Lamb
Mr. Bishop
F I L E S

OFFICIAL FILE COPY
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RECEIVED MAY 27 1958

DATE	INITIAL	REF
5/27	H.G.	225
5/27	[illegible]	500

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

May 23, 1958
Re: DMEA 4860
Wayne M. Mann, Trustee
Paymaster and Wayne M. Mann claims
Esmeralda County, Nevada
$5,500.00 - Lead-zinc-copper-selenium

Memorandum

To: W. R. Griswold, Defense Minerals Exploration Administration

From: N. E. Nelson, U. S. Geological Survey

Subject: Review of Supplemental Field Team Report.

The laboratory work on the samples of ore from the prospect shows an unexpected gangue rock, hedenbergite, instead of siderite as first classified. If, as now suggested by the examiners, mineralized pyroxenite dikes or sills are present, the outlook is changed, but not necessarily unfavorably. I know of no similar deposit.

The sampling indicates the dike is from 11½ to 15 feet thick in the No. 2 trench and not less than 4 feet in No. 3 trench in which the total thickness apparently has not yet been determined. If, as indicated by the maps, the length of the mineralized dike showing in trenches 2 and 3 has not been fixed, that is the ends are 'open', curiosity as to its extent is justified and drilling warranted. Such drilling should cut the dike deep enough, if possible, to show the nature and percentage of the primary ore minerals.

However, as the applicant has dropped his lease and option, revival of the application is not recommended. In my opinion should another application be filed, further investigation is warranted.

N. E. Nelson

N. E. Nelson

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
1605 Evans Avenue
Reno, Nevada

May 14, 1958

5/19	C	220
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Memorandum

To: Operating Committee, DMEA, Interior Building
Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-4860 (Lead-Zinc-Copper-Selenium)
Wayne M. Mann, Trustee
Paymaster Trusteeship
Paymaster Group and Wayne M. Mann Claims
Esmeralda County, Nevada
(Your letter, March 17, 1958)

Subject application has been reviewed and property was re-examined by one of our engineers and additional sampling was done. Three copies each of memoranda from our engineer and geologist are enclosed. Roscoe Smith and I agree with the conclusion that DMEA exploration is not justified.

You will note that the applicant dropped his lease and option on February 15, 1958.

S. Ricker

Attachments

Reviewed by
DMEA OPERATING COMMITTEE
5-21-58
(date)

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UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
1605 Evans Avenue
Reno, Nevada

May 13, 1958

Memorandum

To: Mr. S. Ricker, Executive Officer, DMEA Field Team, Region II

From: Henry W. Jones, mining engineer.

Subject: Application report, DMEA-4869 (Lead-Zinc-Copper) Paymaster Claims, Esmeralda County, Nevada

In accordance with Mr. Selfridge's request of March 17, 1958, to further review the application, I obtained additional samples from the property for assay and mineral identification.

Three distinct rock types were assayed. The one having the highest zinc value (8.7 percent) was submitted to the mineralogy laboratory at Reno and classified as: "rusty, highly oxidized hedenbergite rock containing brown masses of limonite, yellow-green ferrous iron-stained masses, and coatings of clay, white crusts of calcite, and brown-black stains of manganese dioxide. Calamine is the only zinc mineral present but zinc, as an admixed impurity, occurs in all the oxide products."

Further inspection of the property convinces me that the vein structure is too small and discontinuous to suggest that a significant discovery could be made by DMEA exploration. Also, the mineralogical examination indicated the extraction of zinc from this rock would involve a complex metallurgical process.

In addition, I learned that the applicant's lease and option had been dropped February 15, 1958 and that the property had reverted to the original owners, who did not seem interested in an exploration loan.

Reviewed by
DMEA OPERATING COMMITTEE
5-21-58
(date)

Mineral Deposits Branch

April 24, 1958

Memorandum

To: DMEA Field Team, Region II

From: J. E. Carlson, geologist, U.S. Geological Survey

Subject: Application Report, DMEA-4860 (lead-zinc-copper) Paymaster claims, Esmeralda County, Nevada

In accordance with Mr. Selfridge's request of March 17, 1958, we have reviewed the application report in the light of the appraisals made of it by N. E. Nelson and O. M. Bishop. Since submitting the application report we have obtained additional mineralogic data which further confirms our recommendation that the application be denied.

The application report recommended denial owing to the low estimated reserves of about 3,000 tons containing 8 percent zinc in a replacement deposit of siderite along a bedding fault in limestone. All the reserves are in the deposit at trenches 2 and 3. The implication is that the zinc is isomorphous with iron and manganese in the siderite and that the zinc is not recoverable. Because this is only an inference we subsequently arranged for laboratory analyses to learn definitely the location of the zinc.

Reviewed by
DMEA OPERATING PROCEDURES

From the X-ray diffraction pattern and from microscopic work the material proved to be hedenbergite instead of siderite and small resinous crystals previously identified as sphalerite were found to be garnet. These identifications have been confirmed by the Bureau of Mines laboratory in Reno and our work confirms their assays, but in neither laboratory have we been able to identify the zinc minerals or to determine the location of the zinc. Some of the zinc is an impurity in limonite and calcite coating the hedenbergite. A few tiny crystals of smithsonite accompany the limonite and calcite. The analytical work has taken about four days in our G&P laboratory where more time from previous commitments can not be spared at present. We plan to do more laboratory work on this material as soon as time permits, but in the meantime we have no explanation for why the zinc assays are as high as they are.

From the mineralogic results we must conclude that the deposit is a pyroxenite dike along a bedding fault in limestone even though the field relationships (fig. 4) are more suggestive of a replacement deposit. We can conclude also that the reserve estimate is a valid one and that the probability of a minable deposit is no greater than we previously inferred.

We would welcome an exploration program to probe in the primary zone for scientific information but we doubt if a project can be recommended on the basis of the probability of a significant ore deposit.

DMEA Form 7
(12-56)

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3/17	Griswold	500
3/17	GCS	130
"	Johnson	110
"	Gottendorf	100
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		500

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MAR 17 1958

Mr. Spangler Ricker
Executive Officer
DMEA Field Team, Region II
1605 Evans Avenue
Reno, Nevada

Re: Docket No. DMEA-4860 (Lead-Zinc-Copper-Selenium)
Wayne M. Mann, Trustee
Paymaster Trusteeship
Paymaster Group and Wayne M. Mann Claims
Esmeralda County, Nevada

Dear Mr. Ricker:

We have received your February 27, 1958 memorandum, with enclosed report by H. W. Jones and J. E. Carlson, covering the cited application. We are enclosing memoranda dated March 7 and 10, 1958, by N. E. Nelson, Geological Survey, and O. H. Bishop, Bureau of Mines, respectively, relating to the proposal.

You will note that Mr. Bishop is not in accord with the recommendation for denial; suggesting that further surface trenching and some diamond drilling appears warranted. We are inclined to agree with Mr. Bishop, at least to the extent that we lack a firm basis for denial. Undoubtedly, as mentioned by Mr. Nelson, "the material is not now of ore grade", but probably the same could be said of very many lead-zinc ore deposits, on the basis of today's unfavorable markets. You will note that Mr. Nelson further states "As mapped, the orebody is about 100 feet long and both ends are 'open'."

In view of the divergences of opinion we are referring the application back to you for further review and reconsideration. Possibly a compromise might be to do some bulldozing to see if the mineralized zones have any worth-while continuity; to be followed by diamond drilling if such continuity could be established.

Sincerely yours,
George C. Selfridge
Chairman, Operating Committee (WRG)
WRGriswold/er 3/17/68
Copy to: Docket
Admr R File
Op. Committee
Mr. Bishop, USBM
Mr. Kiilsgaard, USGS
Chron.

Enclosures
APPROVED:

P. F. Yopes (WRG)
Member, Bureau of Mines

Thor H. Kiilsgaard (WRG)
Member, Geological Survey

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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

March 10, 1958

Re: DMEA 4860; Pb-Zn-Cu-Se
Wayne M. Mann, Trustee
Paymaster Group & Wayne Mann Claim
Esmeralda County, Nevada

Memorandum

To: W. R. Griswold, DMEA

From: O. M. Bishop, USBM

Subject: Field examiners report of February 26, 1958 and Field Team memorandum of February 27 on subject property.

The applicant proposes 5 diamond drill holes totaling 1,000 feet and costing $5,500 to explore for mineralization on the inferred extensions of faults exposed in trenches and pits.

The field examiners examined the property and sampled exposed mineralization in the pits and trenches. They noted that loci of mineralization were in 3 different fault zones of small displacement, that mineralization was hydrothermal, but rock alteration was limited. Siderite, limonite, hydrous iron sulfate and gypsum appeared to be the most common gangue minerals. Ore minerals exposed in Trench 2 near Pit No. 1 and Trench 3 crosses one of the veins and exposes 19.5 feet of mineralization (Samples 550, 551 and 552) which assayed about 0.8 percent lead, 6.3 percent zinc, 0.2 percent copper and 2.5 ounces of silver per ton. A 15.0-foot sample on nearby parallel trench which appears to crosscut the structure assayed 1.0 percent lead, 5.9 percent zinc, 0.27 percent copper and 1.6 ounces of silver. Trench No. 4 about 1,500 feet to the east shows similar but narrower mineralization, and Trench No. 5 about 1,200 feet southeast shows about 6.5 feet of 0.1 percent lead, 1.4 percent zinc, 0.13 percent copper and 0.8 ounces silver.

The examiners note that the 3 groups of assays are on different structures. They further note that the exploration program outlined is predicated on continuity of structure between pits 3 and 4. The examiners consider that a revised program is not warranted as the target is too small and the ore is too low grade to justify exploration.

I do not think the sampling-assaying done by the examiners support this conclusion. It appears to me that an alternate program of surface trenching, with 3 or 4 diamond drill holes would be well supported by the facts as reported.

O. M. Bishop

O. M. Bishop

cc: Division of Minerals
Mr. Kiilsgaard
Mr. Lamb
Mr. Bishop
F I L E S

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

3/10 C 220
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March 7, 1958
Re: DMEA 4860
Wayne M. Mann
Paymaster, Mann, etc. claims
Esmaralda County, Nevada
$5,000 Lead, Zinc, copper,
silver, and selenium

Memorandum

To: W. R. Griswold, Defense Minerals Exploration Administration

From: N. E. Nelson, U. S. Geological Survey

Subject: Review of Field Team Report

The applicant requested assistance in exploring by drilling the possible downward extensions of replacement siderite-zinc veins in limestone from one of which on the Monster claim 40 tons of ore appears to have been recently mined. Low values in copper, lead and silver accompany the zinc. In general, as shown by the thorough sampling, the material is not now of ore grade.

As estimated by the examiners, the reserves are:-

Class	Units	Grade
Measured	Few pounds	---
Indicated	Few tons	---
Inferred	3,300	3 ounces silver per ton 8% zinc per ton

The inferred ore is exposed on the Monster claim in trenches Nos. 2 and 3 in which the orebody is shown by sampling to be about 7-1/2 to 9 feet thick in trench No. 2, and 30 feet long in trench No. 3. As mapped, the orebody is about 100 feet long and both ends are 'open'. The ore occurs in limestone bedded with phyllite and shale, all resting on a quartzite footwall which dips at 40 to 50°. Smaller showings on the Jumbo and Burro claims, cuts 4 and 5 respectively, suggest the presence of similar, but as for cut 5, lower grade mineralization.

The examiners recommend denial of the application. I concur with the recommendation, however, the denial might be made without prejudice.

N. E. Nelson

N. E. Nelson

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
1605 Evans Avenue
Reno, Nevada

February 27, 1958

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3/10	[illegible]	500

Memorandum

To: Operating Committee, DMEA, Interior Building
Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-4860 (Lead-Zinc-Copper-Selenium)
Wayne M. Mann, Trustee
Paymaster Trusteeship
Paymaster Group and Wayne M. Mann Claims
Esmeralda County, Nevada
(Your letter, November 18, 1957)

Enclosed are three copies of a report by J. E. Carlson, Geological Survey, and H. W. Jones, Bureau of Mines, on subject property.

Roscoe Smith and I concur in the recommendation that the application for DMEA exploration aid be denied.

S. Ricker

Attachments.

Reviewed by
DMEA OPERATING COMMITTEE
3-7-58
(date)

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ON-SITE Report

UNITED STATES
DEPARTMENT OF THE INTERIOR
FRED A. SEATON, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION II

APPLICATION REPORT

DMEA-4860 (lead, zinc, copper, and selenium)
Mr. Wayne M. Mann, Trustee, Paymaster Trusteeship
Paymaster group and Wayne M. Mann claims
Esmeralda County, Nevada

by

H. W. Jones
U. S. Bureau of Mines

J. E. Carlson
U. S. Geological Survey

February 26, 1958

Reviewed by
DMEA OPERATING COMMITTEE
3/7-58
(date)

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Location, Accessibility, and Local Facilities	2
History, Property, and Ownership	3
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Ore Deposits	6
Sampling	8
Reserves	9
Exploration	10

ILLUSTRATIONS

Figure 1 . . . . . Index map

2 . . . . . Farris-Steen claims

3 . . . . Geologic sketch map, Farris-Steen claims

4 . . . . Pits and trenches on Farris-Steen claims

INTRODUCTION

Mr. Wayne M. Mann, Trustee, Paymaster Trusteeship, P. O. Box 4, Shattuc, Illinois, applied to the Defense Minerals Exploration Administration, docket DMEA-4860, for Government assistance in a $5,500 program to explore for lead, zinc, copper, and selenium on two groups of claims in Paymaster Canyon, Esmeralda County, Nevada. The claims are known as the Farris-Steen (Paymaster) group and the Royal Flush (Wayne M. Mann) group.

A field investigation was requested by the Operating Committee and the property was examined by H. W. Jones, U. S. Bureau of Mines, and J. E. Carlson, U. S. Geological Survey, on December 5, 1957, accompanied by Mr. J. K. Mann, the applicant's representative. The property was re-examined on January 17, 1958, after the snow had melted, by R. M. Smith and J. E. Carlson.

Prospect pits and trenches on the Farris-Steen claims were examined and mapped by the pace and compass method. The applicant reported that these exposures are the best on the property and are the ones on which he based his proposed exploration. Eleven samples were taken of the best showings on the claims. Prospect shafts on the Royal Flush claims are abandoned and inaccessible.

CONCLUSIONS AND RECOMMENDATIONS

A replacement deposit of siderite is accompanied by zinc, lead, copper, and silver minerals in very small fractures along a concordant normal fault in silicified limestone. Other normal faults contain mineralized gouge. Other deposits which contain a trace of malachite in quartz were included in the application. Selenium was included because it commonly accompanies copper.

The siderite deposit is probably continuous to moderate depth, but it is small, discontinuous along the strike, and of low grade. Reserves of 3,300 tons containing 8 percent zinc and 3 ounces of silver per ton are inferred. A target of significant size or value is not indicated at depth or elsewhere along the strike of the mineral-bearing zones.

We recommend that Government assistance be denied.

LOCATION, ACCESSIBILITY, AND LOCAL FACILITIES

The claims are in sec. 11, T. 1 N., R. 40 E., M.D.B.&M., Lone Mountain mining district, Esmeralda County, Nevada (fig. 1), near the head of Paymaster Canyon at an altitude of 5,800 feet. They are reached by traveling southwest from the north side of Tonopah 10.7 miles on an improved gravel road; turn right (west)

over a low pass into Paymaster Canyon and continue for 3.2 miles down the canyon; turn right (west) and ascend a gentle slope 0.8 mile to the northernmost trench on the Farris-Steen claims. The Royal Flush group is on the east side of the canyon about opposite the other group.

The property is accessible to passenger cars throughout the year.

Housing, labor, supplies, and materials are available at Tonopah, and the nearest rail siding is at Luning, Nevada, 74 miles northwest of Tonopah by paved road. Power must be generated locally.

HISTORY, PROPERTY, AND OWNERSHIP

There are no mines in the immediate area that have a recorded production. However, the old mining camp of Weepah, 10 miles west of the property, produced nearly $2,000,000 in gold and silver, and the Tonopah mining district, 15 miles northeast of the property, produced $148,000,000 in gold, silver, lead, and copper.

The Farris-Steen claims (fig. 2) consist of 11 unpatented lode mining claims owned jointly by William Farris and Fred Steen of Tonopah, and are recorded in the Esmeralda County Courthouse, Goldfield, Nevada.

Rainy Day	Monster No. 1
Rainy Day No. 1	Jumbo Nos. 1 and 8
Wonder	Burro
Wonder No. 1	Burro No. 1
Monster	Rattler

The Royal Flush group consists of the Royal Flush and Royal Flush 1 through 5.

DEVELOPMENT

The property is developed by a pit (No. 1) 6 feet in diameter and 8 feet deep, by two shallow trenches (No. 2), and by a bulldozed cut 6 feet deep, 20 feet long, and 10 feet wide (No. 3) on the Monster No. 1 claim; by one pit 5 feet deep each on the Wonder, Wonder No. 1, and Rainy Day claims; by a bulldozed cut 12 feet long, 6 feet wide, and 3 feet deep (No. 4) on the Jumbo No. 8 claim; and by a cut 50 feet long and 7 feet deep (No. 5) on the Burro claim (fig. 3).

GEOLOGIC SETTING

The claim area is one of low, rounded hills, shallow washes, and a relief of about 300 feet. Slopes are covered by rubble and outcrops are not prominent. The east edge of the area is covered by alluvium.

The claim area contains exposures of thin- to medium-bedded limestone, phyllite, slaty shale, and quartzite in beds that dip about 50° SE. and strike N. 60° E. These rocks are reported by Ball[1/] to

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1/ Ball, S.H., 1907, A geologic reconnaissance in southwestern Nevada and eastern California: U.S. Geol.Survey Bull. 308, p. 28

be Prospect Mountain equivalents of lower Cambrian age, but have been mapped by Ferguson and Muller[1/] as undifferentiated rocks

---

1/ Ferguson, H. G., and Muller, S. W., 1949, Structural geology of the Hawthorne and Tonopah quadrangles, Nevada: U.S. Geol. Survey Prof. Paper 216.

---

of Cambrian age.

About a mile northwest of the claim area, the metasedimentary rocks have been intruded by the Lone Mountain batholith. The strike of the bedded rocks around the periphery of the batholith is generally parallel to the granite contact, and the dip is outward from it. Rock attitudes observed in and near the claim area are of consistent dip and strike and do not reflect folding (fig. 3), although they have been offset by faults.

The rocks are mainly light gray to dark green slaty shale and phyllite in thin, hard, blocky beds. Light gray, thin-bedded limestone occurs in two layers, each about 150 feet thick. It is well foliated locally and banded by white, quarter-inch calcite layers. Limestone and shale-phyllite beds near fault and shear zones are silicated, and some of these are completely replaced by silica.

White to yellowish crypto-crystalline quartzite in layers 5 to 15 feet thick made up of beds about 6 inches thick is exposed in outcrops and in excavations. Individual lenses do not appear to be continuous for more than a few hundred feet along the strike. Some joint surfaces in the quartzite contain introduced silica which preceeded the metallic minerals. One eight inch layer of white silica concordantly bedded with shale and phyllite contains small quartz crystals, and is probably vein quartz.

The rocks are cut by three sets of faults; one set strikes north and dips 35 degrees west (trench 5); the second set strikes east and dips 30° to 40° N. (trenches 1 and 3); and the third set strikes north and dips 45° E. (trench 3). These faults are probably normal faults. The fault zones exposed in trenches and pits are as much as 10 feet wide, and displacements range from a few feet to a few tens of feet. They consist of fault gouge and breccia that is poorly indurated and mostly oxidized. Smaller faults and joints crosscut the main structure.

ORE DEPOSITS

The mineral deposits occur along concordant fault and shear zones in metamorphic rocks and contain chiefly iron minerals with small amounts of zinc, copper, lead, and silver minerals. They

are a combination of replacement and vein type deposits, hydrothermal in origin, and are essentially parallel to the beds of the host rock.

The primary ore minerals consist of sphalerite, chalcopyrite, galena, and unknown silver minerals. The U. S. Bureau of Mines chemist[1/] who ran the samples reported small amounts of bismuth,

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1/ Arrington, Clyde, oral communication.

---

probably from bismuthinite, but a quantitative determination of this element was not obtained. Gold is present in trace amounts and specks of cinnabar were seen under the microscope. Secondary minerals consist of siderite, smithsonite, hydrous iron sulfate, gypsum, limonite, and manganese oxide.

Alteration by ore fluids is not intense, is masked by supergene alteration, and is confined to a few feet on either side of fault and shear zones. No evidence of hydrothermal alteration was observed on the property except in prospect pits and trenches, although the other parts of the mineralized zones are probably covered by float.

Trench 3 reveals siderite in irregular layers an inch to a foot thick along a bedding fault in limestone. Large masses of a light

green, fibrous mineral with the siderite is tentatively identified as a hydrous iron sulfate[1/].

1/ Coleman, R. G., oral communication.

In Trench 5 abundant gypsum in half-inch veinlets parallel to the bedding is probably the result of iron sulfide decomposition in carbonate rocks. The gypsum occurs in a zone along a north-striking fault. Limonite is ubiqutous and some shows boxwork after chalcopyrite. Trench 4 contains a small mass of manganese oxide on the phyllite foot wall of a small fault, but this mineral was not seen elsewhere in the claim area.

The three pits (figs. 2 and 3) in the southwestern part of the claim area, called "zinc-copper-lead veins" in the application, expose no favorable structure and contain only trace amounts of copper staining in quartz.

SAMPLING

Eleven samples were taken from pits and bulldozed cuts and are shown by number on figure 4.

Sample No.	Length, feet	Percent Pb	Zn	Cu	Ozs./ton Au	Ag
549	6.0	0.2	0.7	0.05	trace	0.20
550	6.0	0.2	7.2	0.15	trace	4.00
551	6.0	1.9	10.2	0.03	trace	2.90
552	7.5	0.2	1.4	0.20	trace	0.40
553	15.0	1.0	5.9	0.27	trace	1.60
554	7.0	0.2	4.4	0.03	trace	1.20
555	4.0	0.1	12.8	0.10	trace	0.90
556	3.0	0.2	7.3	0.02	0.01	6.00
557	grab	0.2	9.6	0.02	trace	1.30
558	1.5	0.1	2.6	0.10	trace	0.20
559	5.0	0.1	1.1	0.15	trace	1.00

All assays for selenium were negative.

RESERVES

Reserves are summarized as follows:

Class	Units	Grade
Measured	few pounds	---
Indicated	few tons	---
Inferred	3,300 tons	8 percent zinc and 3 ounces silver per ton

Reserves of about 3,300 tons containing 8 percent zinc and 3 ounces of silver per ton are inferred in the siderite deposit exposed by trenches 2 and 3. This deposit is estimated to be 100 feet long, 5 feet wide, and to extend 100 feet down the dip, and to contain 10 cubic feet of rock per ton. Two-thirds of the deposit is assumed to be "ore". Other mineralized zones on the property are too small and too low grade to be considered as reserves.

EXPLORATION

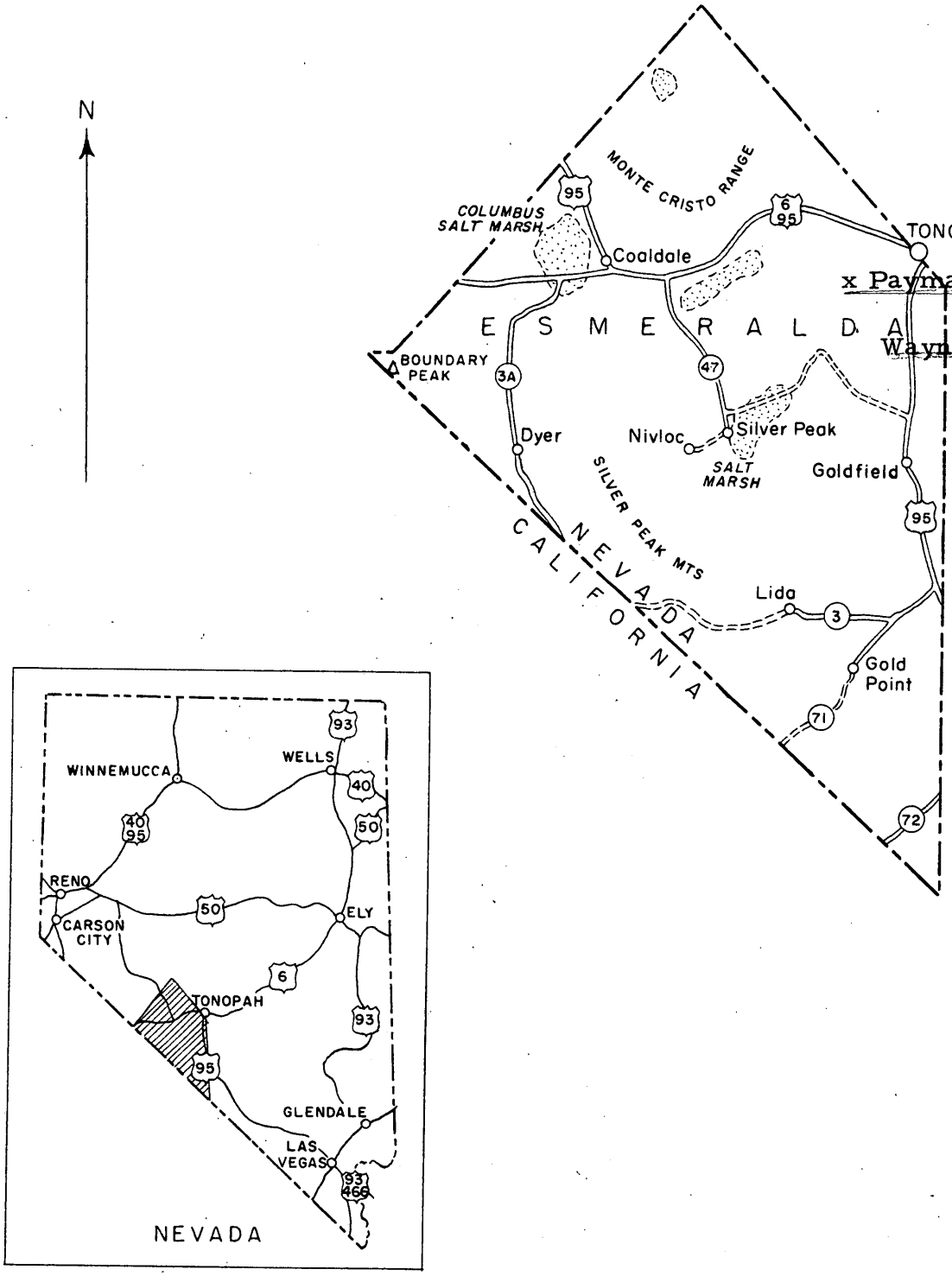
The applicant proposes to drill about 5 diamond drill angle holes a total of 1,000 feet to explore the mineralized zones on the Monster and Burro claims (fig. 2). He estimates the cost to be $5,500.

This proposal is designed to explore a vein inferred by the applicant to be continuous along the strike between pit 4 and pit 3 and another vein inferred to have approximately the same strike at pit 5. The proposed drill holes are inclined parallel to the dip near pit 3 and parallel to the strike at pit 5. Although the plan is conservative and core recovery would be excellent the applicant has little conception of geologic controls or of what constitutes ore.

A revised program was not suggested because the target is too small and too low grade to justify further exploration, either by the Government or the applicant.

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMEA-4860
(lead, zinc, copper, selenium)



x Paymaster group and Wayne M. Mann group

Figure 1. INDEX MAP OF ESMERALDA COUNTY, NEVADA

0 20 40 60 Miles

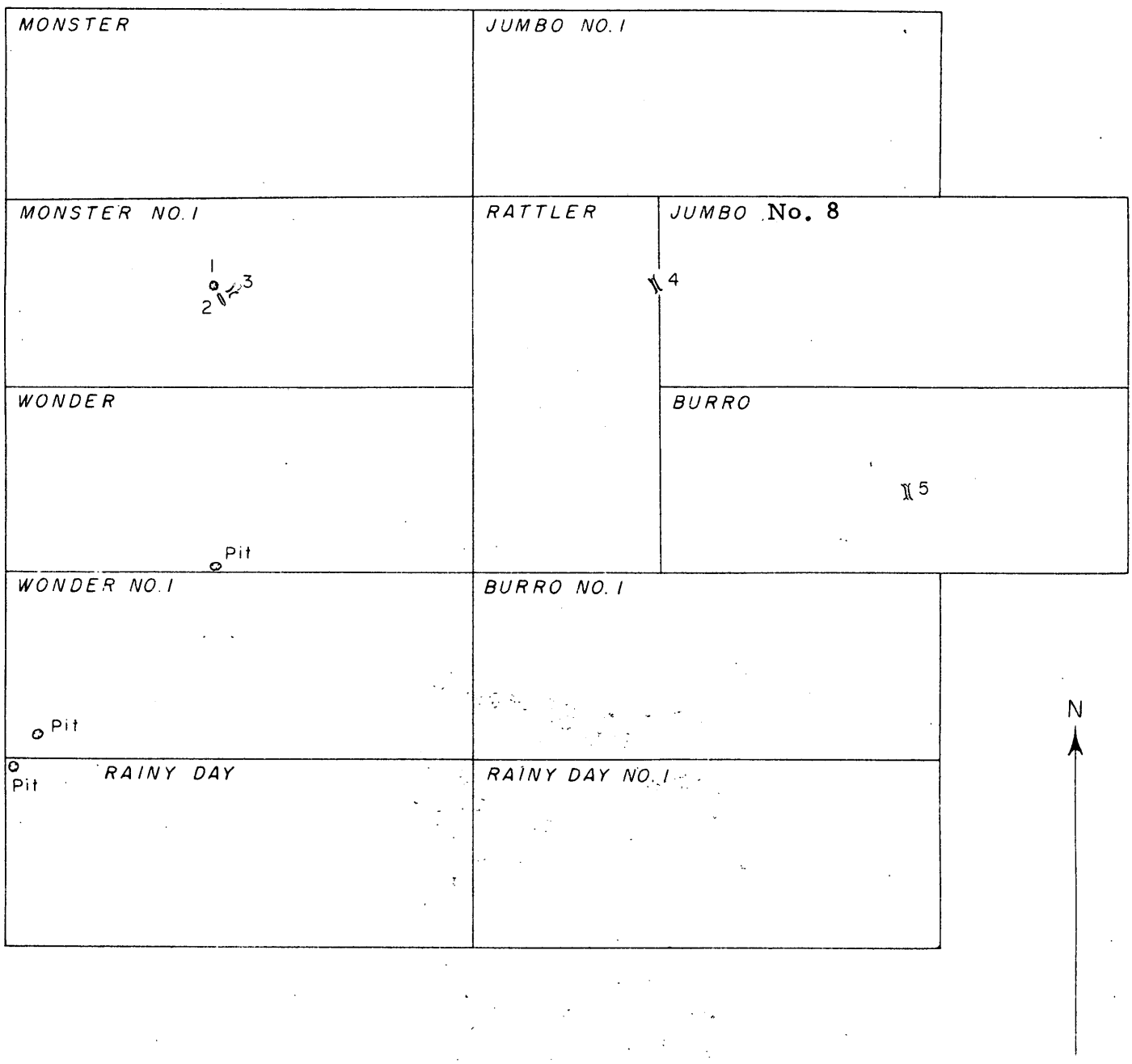


Figure 2. FARRIS-STEEN CLAIMS, ESMERALDA COUNTY, NEVADA

0 500 1000 1500 Feet

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMEA 4860
(LEAD, ZINC, COPPER, SELENIUM)

R. 40 E.

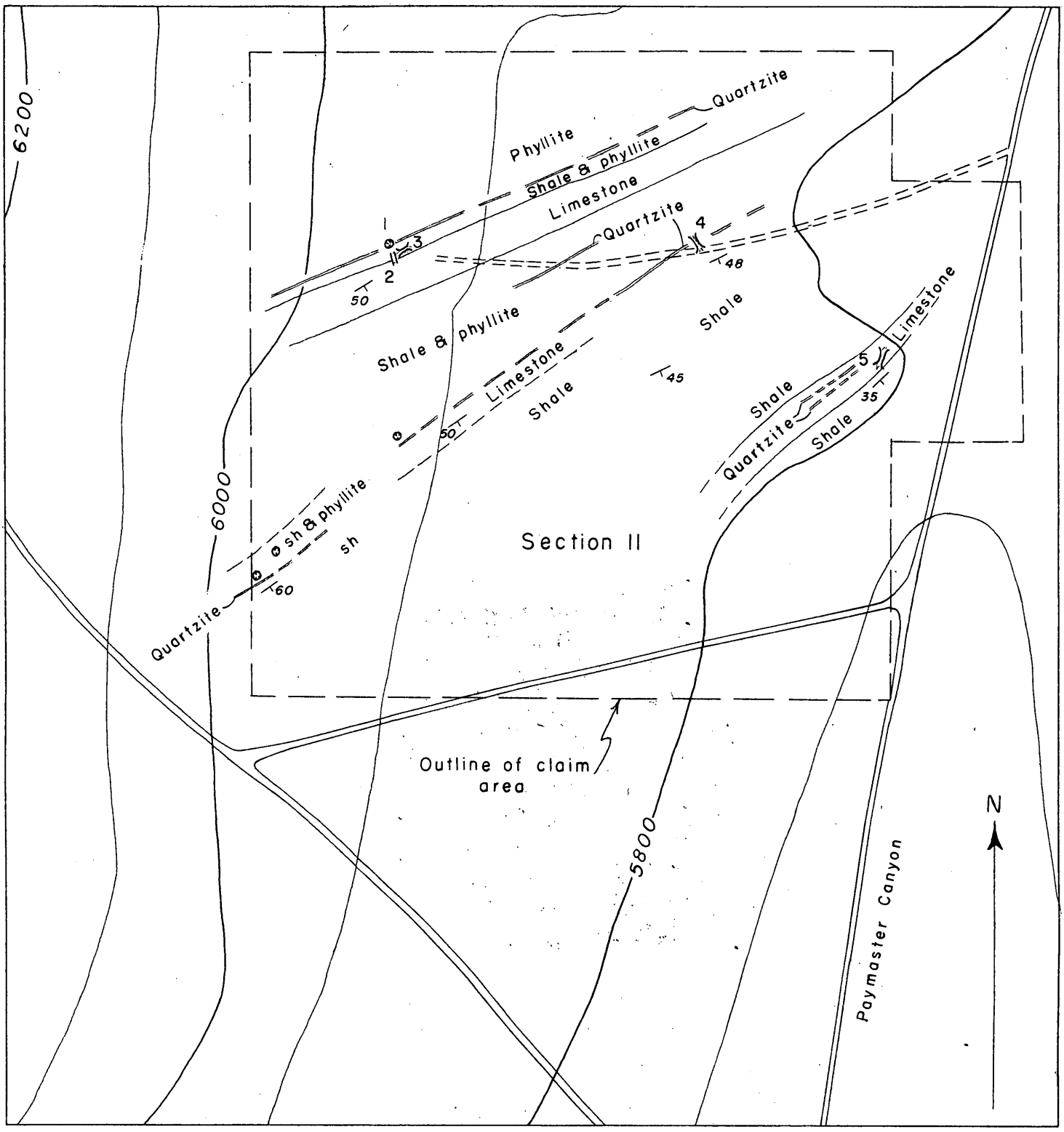
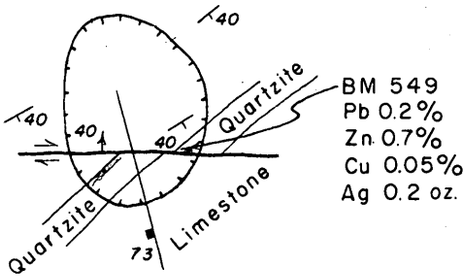
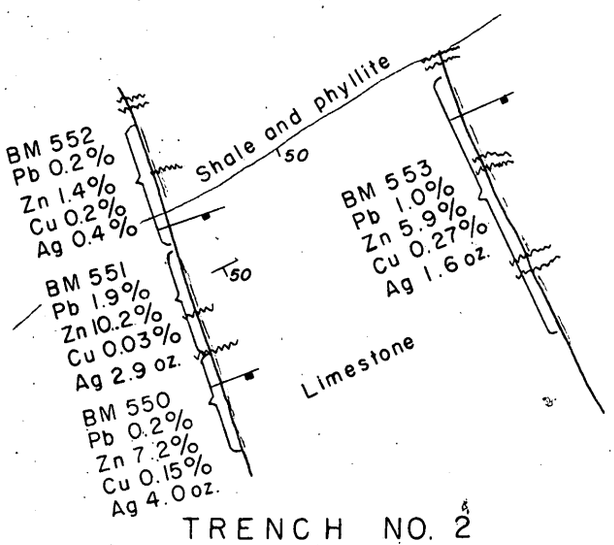


Figure 3. GEOLOGIC SKETCH MAP, FARRIS-STEEN CLAIMS
ESMERALDA COUNTY, NEVADA

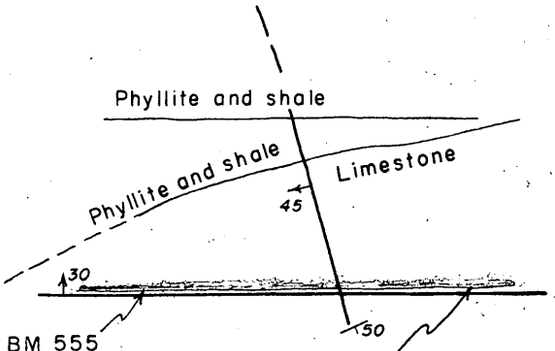
0 660 1320 Feet



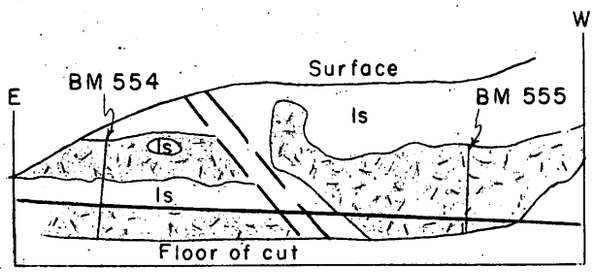
PIT NO. 1



TRENCH NO. 2

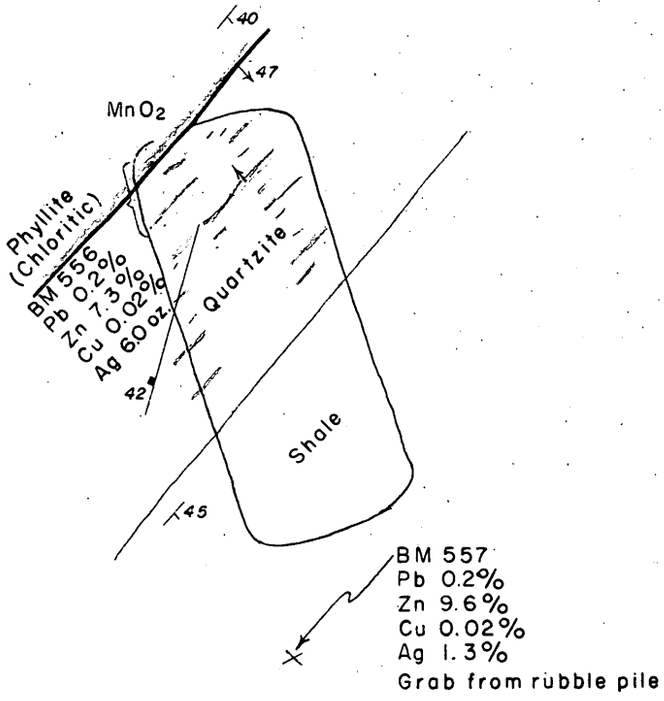


PLAN

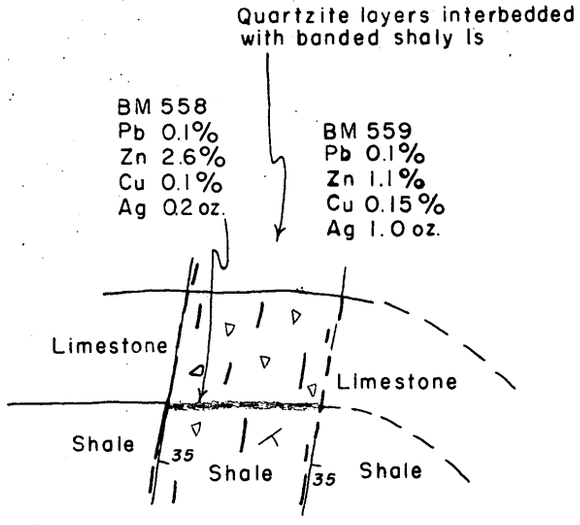


SECTION, SOUTH WALL

TRENCH NO. 3



TRENCH NO. 4



TRENCH NO. 5

Figure 4. PITS AND TRENCHES ON FARRIS-STEEN CLAIMS
ESMERALDA COUNTY, NEVADA

0 10 20 30 Feet

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
11/14	[illegible]	500
	Fuswold	500
11/15	Martin	130
"	[illegible]	110
"	[illegible]	100
		~~HB~~
11/19	[illegible]	220
		500

500

NOV 18 1957

Mr. Spangler Ricker
Executive Officer
DMEA Field Team, Region II
1605 Evans Avenue
Reno, Nevada

Re: Docket No. DMEA-4860 (Lead-Zinc-Copper-Selenium)
Wayne M. Mann, Trustee
Paymaster Trusteeship
Paymaster Group and Wayne M. Mann Claims
Esmeralda County, Nevada

Dear Mr. Ricker:

The cited application is being referred to your office for consideration, a field examination of the property if warranted, and recommendations.

If you should consider the application favorably, the Applicant should be requested to obtain Consent to Lien and Subordination Agreement from the lessors, Fred Steen and W. M. Ferris. Also, we would appreciate receiving a property map showing the claims and the location of the proposed work.

Copies of memoranda dated November 1 and November 8, 1957, by O. M. Bishop, Bureau of Mines, and W. P. Williams, Geological Survey, respectively, relating to the project are enclosed for your information.

Also, enclosed is a copy of the application for the use of the Field Team.

Sincerely yours,

W. S. Martin
ACTING Chairman, Operating Committee (SLB)

JWAlt/er 11/14/57
Copy to: Docket
Admr R File
Op. Committee
Mr. Bishop, USBM
Mr. Riilsgaard, USGS
Chron.

Enclosures

APPROVED:

Frank D. Lamb (SLB)
Member, Bureau of Mines

W. P. Williams (SLB)
Member, Geological Survey

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
11/14	Alt	500
	Yuravich	500
11-15	Martin	130
11-15	Lamb	130
11-15	Williams	130
"	Johnson	110
"	Mittendorf	100
		~~HB~~
		220
		500

NOV 18 1957

Mr. Wayne M. Mann, Trustee
Paymaster Trusteeship
Post Office Box 4
Shattuc, Illinois

Re: Docket No. DMEA-4860 (Lead-Zinc-Copper-Selenium)
Wayne M. Mann, Trustee
Paymaster Trusteeship
Paymaster Group and Wayne M. Mann Claims
Esmeralda County, Nevada

Dear Mr. Mann:

Your application for Government assistance to explore the cited property has been reviewed by the Division of Base Metals of the Defense Minerals Exploration Administration and is being referred to:

Mr. Spangler Ricker
Executive Officer
DMEA Field Team, Region II
1605 Evans Avenue
Reno, Nevada

If additional information concerning your application is needed, the Field Team will get in touch with you at an early date.

As requested in your application, we are returning the eleven assay reports which are enclosed in this letter and are as follows:

Various Samples Submitted by Fred Steen, December 1952.
United States Smelting, Refining and Mining Company, September 6, 1955.
Kennecott Copper Corporation, September 12, 1955.
Paymaster Group Lone Mountain, Assays Various Samples
6 Assay sheets, Minerals Refining Company, March 18, 1957.
The Eisenhauer Laboratories, June 28, 1957.

Sincerely yours, JWAlt/er 11/14/57
Copy to: Docket
Admr R File
Op. Committee
Mr. Bishop, USBM
Mr. Kiilsgaard, USGS
Region II (2)
Chron.

C. O. Mittendorf (for)
Administrator

8623

Enclosures

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

DATE	INITIALS	
11/12	C	220
11/12	Alb	500

Memorandum November 8, 1957

To: W. R. Griswold, Defense Minerals Exploration Administration

From: W. P. Williams, U. S. Geological Survey

Subject: Review of application, DMEA 4860 (lead-zinc - copper - selenium), Wayne M. Mann & J. K. Mann, Paymaster group, Esmeralda County, Nevada.

The applicant proposes to explore for lead, zinc, copper, and selenium ore deposits on 17 contiguous mining claims located in the Lone Mountain district.

The applicant states that the deposit is of vein type which has been partly developed by some old mine openings and by surface trenching. Assays submitted by the applicant show wide variation in grade. Spectrographic analyses did not detect the presence of selenium, hence the reason for exploring for selenium is unknown to me.

The proposed project would consist of road building and a total of 1,000 feet of core drilling. The applicant states he wishes to do the work himself, submits no drilling bids.

I believe the application should be submitted to the Field Team for further evaluation. If a DMEA project is warranted, the problem of hole spacing and direction probably needs more attention and revision.

W. P. Williams

W. P. Williams

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

OFFICIAL FILE COPY
DMEA
RECEIVED NOV 1 1957

DATE	INITIALS	CODE
11/4	C	220
11/4	alt	500

November 1, 1957

Re: DMEA 4860; Lead-Zinc-Copper. $5,560
Wayne M. Mann, Shattuc, Illinois
Paymaster Claims
Esmeralda County, Nev.

Memorandum

To: W. R. Griswold, Defense Minerals Exploration Administration

From: O. M. Bishop, Commodity Specialist, Branch of Base Metals

Subject: Review of application dated October 23, 1957, received October 30, 1957

Wayne M. Mann owns the controlling share of a block of claims in Esmeralda County, Nevada, 13 miles south of Tonopah, on which he applies for DMEA participation in an exploration project that he estimates will cost $5,560.

Apparently several veins carrying values in copper, lead, zinc, and silver outcrop on six of his seventeen unpatented lode claims. He implies there was some production from a now abandoned mine of one of the claims.

Mr. Mann proposes a plan whereby he, as an individual, contracts with a corporation owned by his family to drill 1,000 feet of cored hole to test the outcropping veins at depth.

Though there is insufficient information accompanying the application to evaluate it, the high assay values of bulk samples

taken from the outcrops and the rather extensive occurrence of mineralized exposures warrant an examination by the field team.

O. M. Bishop

O. M. Bishop

Copy to Division of Minerals
Branch of Base Metals (3)
T.H. Kiilsgaard, Room 5224
F.D. Lamb, Room 3608
F I L E S

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

October 30, 1957

Mr. Wayne M. Mann, Trustee
Paymaster Trusteeship
P. O. Box 4
Shattuc, Illinois

Dear Mr. Mann:

Subject: DMEA-4860

Your application for exploration assistance, dated October 23, 1957 submitted to our office at Reno, Nevada has been assigned Docket Number DMEA-4860 and referred to the Base Metals Division in the Washington office. Kindly identify all future correspondence relating to your application by this Docket Number.

Sincerely yours,

Allen S. Dakan, Director
Operations Control and
Statistics Division

Copy to:

Region II