DMEA Form 9
Rev. 6/57

UNITED STATES
DEPARTMENT OF THE INTERIOR
~~Defense Minerals Exploration Administration~~
GEOLOGICAL SURVEY

OFFICIAL DOCKET FILE

~~Idm-E~~ NO. _____

OME ~~DMEA~~ NO. 6511

Application
- [ ] 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- [ ] Withdrawn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
- [ ] On-site Exam Report (Tab)
- [ ] 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

Change of address as of 11/3/65

Round Hill Road
Greenwich, Conn.

17963

LEASE AND OPTION

Received by OMF July 1, 1966

THIS AGREEMENT, made this 6th day of June, 1966, between OSCAR HOVELAND, a widower, of Helena, Montana, the lessor, and DANIEL D. KINLEY, of ~~Winchester, Massachusetts,~~ Greenwich, Connecticut the lessee. JK 6/10/66

W I T N E S S E T H:

THAT, WHEREAS, the above named lessor is the owner of the Santa Anita patented lode mining claim, hereinafter more particularly described; and, whereas, the above named lessee is the holder of a separate lease upon certain patented lode mining claims known as the Dandy Group, adjoining or adjacent to said Santa Anita;

AND, WHEREAS, the lessee desires to lease the said Santa Anita to be utilized in conjunction with said Dandy Group; and, whereas, there is situated upon said Dandy Group a certain shaft and certain underground workings through which the lessee proposes to work and operate both said Dandy Group and said Santa Anita;

NOW, THEREFORE, for good and sufficient consideration, the receipt whereof is hereby acknowledged, the parties hereby agree as follows, to-wit:

1. PROPERTY LEASED: The lessor hereby leases unto the lessee, and the lessee hereby leases from the lessor, the following described property in Section 28, T5N, R1W, M.P.M., in Broadwater County, Montana, to-wit:

The Santa Anita patented lode mining claim, Survey No. 9585.

Together with any and all water, water rights, ditches and ditch rights appurtenant to said lode mining claims, or any part thereof, owned or used in connection therewith, and the right to use the same, together with all buildings and other improvements now on said property or owned or used by lessor in connection therewith, and any and all ore dumps and tailing dumps situated on said

see letter 6/29/66

property, together with all and singular the tenements, hereditaments and appurtenances belonging or in anywise appertaining to said property.

2. TERM: This lease shall commence on the 1st day of June, 1966, and shall continue thereafter for a term of five (5) years (unless sooner terminated or forfeited), with option to renew for an additional term as hereinafter provided.

3. OPERATION OF PROPERTIES: The lessee shall enter upon the said property, or the said Dandy Group, and commence operations thereon within sixty (60) days from and after the date of this lease. The lessee shall thereafter pursue his operations upon or for the benefit of the said properties with reasonable diligence, and with due regard for the development of the said properties as a producing mine.

4. ROYALTIES: The lessee shall pay or cause to be paid to the lessor a royalty of ten per cent (10%) of the net smelter, mill or mint returns upon any and all ores, minerals, tailings and other materials extracted from the property herein leased, or upon any and all concentrates manufactured therefrom. Net smelter returns are hereby defined as the cash proceeds of such ores, minerals, materials, tailings and concentrates after the deduction of reasonable transportation, smelter, mill and mint charges only.

All said royalties and other payments hereunder shall be paid to the lessor at 7 North Main, Apt. 12, Helena, Montana, so long as the lessor shall maintain his permanent residence at said address, and thereafter at such other address as the lessor shall specify by notice in writing, if any, or if none, then in care of Henry Thomas Hoveland, Marysville, Montana.

The lessee shall notify the lessor in writing of each shipment made from the said property, including dates, approximate weights

and name of smelter, mill or other purchaser, and shall deliver to the lessor copies of all assays and mint, smelter and mill returns.

5. MINIMUM PAYMENTS:

(A) Throughout the first two years of this lease the lessee shall not be required to pay to the lessor any minimum royalty hereunder; provided, that in lieu thereof the lessee shall pay to the lessor the following:

(1) All net profits derived by the lessee from the operation of said properties and from all ores extracted therefrom, whether from the Santa Anita or from said Dandy Group, until the sum of $500.00 shall have been paid to the lessor.

(2) After payment of said $500.00, and thereafter throughout any remainder of the first two years of this lease, the lessee shall pay to the lessor a royalty of ten percent (10%) of the net smelter, mill or mint returns, as hereinabove defined, upon any and all ores, minerals, tailings and other materials extracted from the said Dandy Group.

(B) Beginning with the third year of this lease, the lessee shall pay minimum royalties of at least $4,000.00 per year, payable at the rate of $1,000.00 during each quarter. The first $1,000.00 minimum royalty payment shall be payable during the quarter beginning June 1, 1968, and a minimum royalty of $1,000.00 shall be payable during each quarter thereafter. Provided, that any actual royalties paid hereunder in excess of $1,000.00 during any quarter may be carried forward and applied against any subsequent minimum royalty requirement hereunder during that particular lease year, but not for any subsequent lease year.

6. WARRANTY OF TITLE: The lessor hereby warrants that he is the sole owner of said property, that his title thereto is clear and merchantable, and that there are no liens or encumbrances upon the same. Said lessor hereby covenants that he will forever warrant and defend the title and ownership of said property, and the quiet

and peaceable possession thereof, unto the said lessee, and his heirs and assigns, against the acts and deeds of the lessor, and all and every other person and persons whomsoever lawfully claiming or to claim the same.

7. LIENS: HOLD HARMLESS: The lessee shall keep the said property free and clear of liens for labor done or performed thereon, or materials furnished to the lessee on or for the same, and shall save the lessor harmless from all costs, loss, or damage which may arise by reason of injury to any persons employed by the lessee in or on the said property or any part thereof, or which may arise by reason of injury to any person, livestock or other property thereon during the lessee's possession or occupancy of the property, arising out of or in any manner connected with the lessee's operations thereon. Provided, that the lessor hereby consents to the lien of any O.M.E. or other governmental loan which may hereafter be granted the lessee in connection with said property, and agrees to execute appropriate Landowners Consent forms, or other appropriate forms, in connection therewith upon request of the lessee.

8. COMPLIANCE WITH LAW: The lessee shall conduct his operations in compliance with all applicable laws, rules and regulations of all duly constituted governmental authorities.

9. INSPECTION BY LESSOR: The lessor shall have the right at his own cost and risk to be present in person or by representatives at all reasonable times during operations upon said leased property, but without any unreasonable interference with said operations, and to examine the workings and operations of the lessee upon said property, and to examine the lessee's maps, plats and other records of his operations hereunder.

10. The lessee shall pay when due and before delinquent any and all taxes which shall be hereafter lawfully levied upon said

leased property, and all taxes upon any and all personal property of whatsoever nature placed upon the said property by the lessee during the term of this lease. Lessor and lessee shall each pay their respective portions of any and all gross or net product or proceeds taxes, if any, that are or may hereafter be levied upon or against production from said property.

11. INSURANCE: The lessee shall at all times during the term of this lease maintain effective coverage for all his operations and all employees in said operations under this lease, under one of the authorized plans of the Workmen's Compensation Act of the State of Montana.

12. DEFAULT: NOTICE: Time is of the essence of this agreement and failure of the lessee to make or cause to be made any payments as herein provided, or to keep or perform any agreement on his part to be kept or performed in accordance with the terms and provisions hereof shall, at the election of the lessor, cause the termination hereof, and any and all moneys which shall have been paid by the lessee to the lessor in royalties or otherwise shall be retained by the lessor as rent for the possession and use of said premises; provided, however, that in the event of a default on the part of the lessee and the election of the lessor as aforesaid to terminate this lease on account of such default, the lessor shall give the lessee a written notice specifying the particular default or defaults relied upon, and the lessee shall have thirty days after such written notice from the lessor within which to remedy said default or defaults; if said default or defaults shall be so remedied and no further default occur within said thirty-day period, this lease shall then be automatically restored to good standing. A waiver by the lessor of a particular breach of any

covenant or agreement shall not be construed as a waiver of any other breach, and the remedying of any particular breach shall not impair the lessor's rights resulting from any subsequent breach.

13. FORCE MAJEUR: In the event that the lessee shall be delayed at any time in keeping or performing any agreement on his part to be kept or performed hereunder by any act or neglect of the lessor, or by strikes, lockouts, unusual delay in transportation, order of duly constituted governmental authority, unavoidable casualty, act of God or any other cause beyond the reasonable control of the lessee, with the exception of financial inability, such delay shall not be deemed a breach of this lease or a default on the part of the lessee constituting a cause for the termination of this lease and option, and during any time said lessee is so delayed he shall be excused from the performance of the provisions hereof.

14. REMOVAL OF PERSONAL PROPERTY: Any and all rail, pipe, machinery, equipment and other property placed upon the said properties by the lessee shall be and remain lessee's personal property and shall not become a part of the real estate or a fixture or fixtures thereon, and may be removed therefrom by the lessee or his successors or assigns at any time prior to the termination of this lease by lapse of time or otherwise, or at any time within sixty days thereafter; provided, however, that all timbering placed or installed in any shaft, drift, tunnel or other underground workings, and all buildings and other structures erected upon said properties, shall remain in and upon the premises and become a part thereof; and provided, further, that any of the lessee's property not removed within sixty days after termination of this lease shall then become the property of the lessor.

15. OPTION TO RENEW: In further consideration of these premises and of the payments to be made and covenants and conditions to be performed hereunder, the lessor hereby grants the lessee the option to renew and extend this lease for an additional period of five (5) years from and after the initial term thereof, if the lessee is then in good standing hereunder, upon the same terms and conditions. If the lessee elects to exercise this option to renew, he shall give the lessor notice thereof at least sixty days prior to the expiration of the initial term hereof.

16. OPTION TO PURCHASE: In further consideration of these premises and of the payments to be made and covenants and conditions to be performed hereunder, the lessor hereby grants to the lessee the sole and exclusive option to purchase the said property at any time during the entire term of the lease, or any extension of renewal hereof, for the sum of Forty Thousand Dollars ($40,000.00); provided, however, that any and all royalties and other payments made hereunder before exercise of this option to purchase, including any payments made to the lessor hereunder upon or by reason of production from the said Dandy Group, shall apply upon and be credited against such purchase price of the Santa Anita. Upon exercise of this option by the lessee, and payment or tender of the purchase price or balance to the lessor, the lessor shall execute and deliver to the lessee a good and sufficient grant deed to the said property and a current abstract showing merchantable title in the lessor. The lessor shall also deliver to the lessee all maps, reports and other documents in his possession concerning the said property.

17. CANCELLATION BY LESSEE: The lessee shall have the right to cancel, terminate and surrender this lease and relinquish the property to the lessor at any time during the term hereof, by giving the lessor written notice of his intention to terminate at least

sixty days prior to the date when such termination shall become effective; with such notice the lessee shall pay lessor any accrued royalties not theretofore paid, and shall deliver to the lessor copies of all maps, plats, assay and smelter returns, and other production and geological records of his operations on said properties.

18. SURRENDER OF POSSESSION: Upon termination of this lease by lapse of time or otherwise, the lessee shall surrender peaceable possession of the said properties and every part thereof to the lessor, and the lessor may take immediate possession thereof; provided, however, that the lessee shall have sixty days after such termination, as hereinabove provided, within which to remove all property which he is entitled to remove hereunder.

19. ADDRESSES FOR NOTICE: Any notices to be given hereunder shall be deemed complete when the same shall have been placed in any United States Post Office, securely sealed in an envelope properly addressed to the party to whom the same shall be directed, with full first class postage prepaid thereon. Until otherwise specified in writing by either of the parties hereto, any such notices to the lessor shall be addressed to 7 North Main Street, Apt. 12, Helena, Montana, and any such notices to the lessee shall be addressed to ~~8 Robinson Circle, Winchester, Massachusetts.~~ Round Hill Road, Greenwich, Connecticut DK 6/10

20. SUCCESSORS AND ASSIGNS: This agreement shall extend to and be binding upon and shall inure to the benefit of the successors and assigns of the respective parties hereto.

IN WITNESS WHEREOF, the parties have caused these presents to be executed the day and year first above written.

Oscar Hovelsrud
LESSOR

Donald D. Kinley
LESSEE

STATE OF MONTANA)
: ss.
COUNTY OF LEWIS & CLARK)

On this 6th day of June, 1966, before me, Blanche W. Maness, a Notary Public in and for the State of Montana, personally appeared Oscar Hoveland, a widower, known to me to be the person whose name is subscribed to the foregoing Lease and Option as a Lessor, and acknowledged to me that he executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my notarial seal the day and year in this certificate above written.

Blanche W. Maness
Notary Public for the State of Montana
Residing at Helena, Montana
My commission expires 4-18-67

STATE OF ~~MASSACHUSETTS~~ NEW YORK)
: ss.
COUNTY OF NEW YORK)

On this 10 day of June, 1966, before me, WALTER FREYTAG JR, a Notary Public in and for the State of ~~Massachusetts~~ New York, personally appeared Daniel D. Kinley, known to me to be the person whose name is subscribed to the foregoing Lease and Option as Lessee, and acknowledged to me that he executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my notarial seal the day and year in this certificate above written.

Walter Freytag Jr.
Notary Public for the State of ~~Massachusetts~~
Residing ~~at Winchester, Massachusetts~~ New York
My commission expires

WALTER FREYTAG, JR.
NOTARY PUBLIC, State of New York
No. 24-1319450
Qualified in Kings County
Commission Expires March 30, 1967

MME FORM 6 REFERENCE SLIP
REV. 2-59 OFFICE OF MINERALS EXPLORATION

TO: Mrs. Ault	DATE	INITIALS
1.	10/14/65	
2.		
3.		
4.		
5. M.L.S.		

FROM: M. L. Smelser

OFFICIAL COPY
O. M. E.
RECEIVED
OCT 18 1965
INITIALS CODE

FOR: Check items for action desired

X Action	____ Reply for signature of	
____ Approval	____ Investigate	____ Surname
____ Comment	____ Recommendations	____ Signature
____ Conference	____ Rewrite	____ File
____ Instructions	Your information	

REMARKS: Transmittal of OME application
Daniel D. Kinley (Lead-Silver)
Jo Dandy and Santa Anita Mines
Broadwater County, Montana

Re. our telephone conversation this date attached is the original MME Form 40 and also a photostat of a letter 8/10/65 from Mr. Kinley which was delivered by Alan Brown his representative.

INT.-DUP. SEC., WASH., D.C. M56300-59

D. D. KINLEY
8 ROBINSON CIRCLE
WINCHESTER, MASSACHUSETTS

August 10, 1965

U. S. Department of Interior
Office of Mineral Exploration
South 157 Howard Street
Spokane 4, Washington

Gentlemen:

Herewith you will find my application for aid in an exploration project covering the Jo Dandy and the Santa Anita Mines in Broadwater County, Montana. My geological consultant has been interested in the potential of these mines for some years but the price of lead-silver ore until recently has made such a project uneconomical. Mr. Forbes Robertson, my consulting geologist, has made extensive studies which indicate a reasonable expectancy of high grade ore.

The executed lease for the Santa Anita has not been included ? in the substantiating data because I only have a verbal agreement with the owners at this time. I am filing now with the hope you can start preliminary processing of the project and will send copies of the lease when it has been executed.

It is hoped that the supporting information is sufficient for your consideration. My people are ready to supply any further information your office may require.

Thank you for your consideration.

Sincerely yours,

D. D. Kinley

DDK:TLP

N.B. This copy of the above letter dated 8/10/65 was handed in with the MME Form 40 and other papers by the applicant's representative, Alan D. Brown, when he visited this office on Oct. 8.

10/14/65 m.l.s.

RECEIVED
OCT 8 1965
O M E
SPOKANE, WASHINGTON

OME Form 40
Jan. 65

RECEIVED
OCT 8 1965
O M E
SPOKANE, WASHINGTON

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

Budget Bureau No. 42
Approval expires Dec. 31

APPLICATION FOR FINANCIAL ASSISTANCE IN MINERALS EXPLORATION

Pursuant to Public Law 85–701 (72 Stat. 700; 30 U.S.C. 641)

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

Daniel D. Kinley
8 Robinson Circle
Winchester, Massachusetts 01890

New address
Round Hill Road
Greenwich, Conn.

APPLICANT DO NOT USE THIS BLOCK

DOCKET NUMBER: 6511

DATE RECEIVED: 10-18-65

REGION: I

DIVISION CODE:

BUSINESS ORGANIZATION *(Check one)*

INDIVIDUAL	X
CORPORATION	
PARTNERSHIP	
OTHER *(Specify)*	

STATE IN WHICH FIRM IS ORGANIZED:

LIST CORPORATE OFFICERS OR PARTNERS HERE, IF APPLICABLE

NAME	ADDRESS	TITLE

MINERAL(S) FOR WHICH YOU WISH TO EXPLORE: Lead and silver

ESTIMATED COST OF PROJECT: $ 68,400.00

PROPERTY NAME	LOCATION COUNTY	STATE
Jo Dandy	Broadwater	Montana
Santa Anita	"	"

GENERAL INSTRUCTIONS

Before filling out this application, please read the *OME Regulations for Obtaining Federal Assistance in Financing Explorations for Mineral Reserves* (30 CFR Chap. III). 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 two 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 2, existing mine workings and geology in item 3, and the proposed exploration work in item 5. 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 3(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 Office of Minerals Exploration, Department of the Interior, Washington 25, D. C., or with the nearest OME 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, and that he would not ordinarily undertake the proposed exploration under current conditions and circumstances at his sole expense.

August 10, 1965
DATED

Daniel D. Kinley
BY *(Signature)*

Owner
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. Financial Eligibility:

(a) Submit evidence of efforts made within 90 days preceding the filing of this application to obtain credit from your bank of account and at least one other banking institution or other private source of credit. Such evidence shall include true copies of correspondence which show: (1) date of loan request, (2) amount and terms requested, (3) proposed use of loan funds, and (4) the replies from credit sources. If the loan was offered under terms which you consider unreasonable, state why you consider them so.

(b) List names and addresses of affiliated, parent, or controlling companies or organizations and state extent and nature of their interest.

(c) State how you propose to furnish your share of the cost of the exploration work.

2. Applicant's Rights in Land:

(a) State your interest in the land and mineral rights, whether owner, lessee, purchaser under contract, or other. If you are not the owner, submit one true copy of the lease, contract, or other document (with address of owner) under which you control the property. Describe all liens, mortgages, or other encumbrances on the land and state book and page number and official place where recorded.

(b) 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 adjacent land which you own or control. Describe any part of the land or workings which should not be subject to Government royalty and liens. If the land consists of unpatented claims, state book and page number for each recorded location notice, including amended locations, and official place where recorded. State all the names by which you know the property.

(c) For all land or mineral rights encumbered or not owned, submit five copies of Lien and Subordination Agreements on MME Form 52. If the agreements cannot be obtained, state reasons and provide copies of letters of refusal.

3. 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 land. Include existing mine workings and all production facilities.

(b) State your interest, if any, in operations described in (a).

(c) State, if 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, giving quantities and grades and sampling methods used. Support 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 have, indicating whether you require their return.

4. Accessibility of Property:

(a) To aid the OME representative who may examine the property, state name and address of person who will meet him; give directions for reaching the property; and describe accessibility of property and of any mine workings.

(b) Name the shipping and supply points and state the distances to the property.

5. Exploration Work:

(a) Describe fully the proposed exploration work giving individual footages and sizes of openings *for each item of work.* Use narrative, maps, plans, and sections as necessary. Show 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 *land boundaries* or to the closest identifiable corner.

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

(c) If an OME contract is executed, state how soon thereafter work would be started and finished. State your anticipated average daily or monthly rate of progress for each type of work.

6. Experience:

State your operating experience and background to conduct this exploration work and also that of the person who will supervise the work.

7. Estimate of Costs:

Furnish detailed estimates of the necessary costs *for each item of the work proposed in 5(a)* under the headings listed below with a total for each heading and the estimated total cost of the work. Costs for any work to be performed by an independent contractor should be listed separately under category (a) below. Costs for any work that is not to be performed by an independent contractor should be listed under categories (b) through (g).

(a) Independent contracts. State the total cost of any proposed independent contract for all or any part of the work, and the number of units and the unit cost for each type of work, such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, or 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. The cost of supervision, engineering and geological services, outside consultants, and labor should be itemized by numbers and classes of employees; rates of wages, salaries or fees; and periods of employment. State whether these services are available.

(c) Operating materials and supplies. List items of material and supplies giving quantity and cost of each. 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 equipment and tools costing $50 or more per unit. Give specifications and indicate how each item is to be acquired—i.e., rented, purchased or provided by the applicant. If rented or purchased, state the estimated rental or purchase price. If furnished by the applicant, state condition and present fair market value.

(e) Initial rehabilitation and repairs. Describe the type and the cost of *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 in the exploration work.

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

(g) Miscellaneous. Describe the type and estimate the cost of repairs and maintenance of the operating equipment listed in 7(d). Do not repeat initial repairs listed in 7(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*—The Government will not contribute to costs incurred before the date of the contract, or to costs of or incident to: (1) acquiring, using, or possessing land and any existing improvements, facilities, buildings, installations, and appurtenances, or the depreciation or depletion thereof; (2) general overhead, corporate [illegible] interest and taxes (other than payroll and sale[illegible] surance (other than employees' liability [illegible] (4) damages to persons or property (other [illegible] repair to or replacement of equipment or other [illegible] in the work).]

INT.-DUP. SEC., WASH., D[illegible]

[illegible]-R1368
1968

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
GEOLOGICAL SURVEY
So. 157 Howard Street
Spokane, Washington 99204
October 11, 1965

OFFICIAL COPY
O. M. E.
RECEIVED
OCT 13 1965

INITIALS	CODE

Memorandum

To: Chief, Office of Minerals Exploration

From: Field Officer, Region I

Subject: Transmittal of OME Application
Danield D. Kinley (Lead-Silver)
Jo Dandy and Santa Anita Mines
Broadwater County, Montana

Enclosed is a copy of an OME application to explore for lead-silver ore in the Jo Dandy and Santa Anita mines, Broadwater County, Montana. The application was delivered to this office by Alan D. Brown, representative for the applicant.

The application includes a lease for four of the Jo Dandy claims, but the Lien and Subordination Agreements are lacking. On the second page of the lease, dated July 3, 1965, in item 2 (Term) the commencement date of the lease is omitted. Neither a lease nor Lien and Subordination Agreements pertaining to the Santa Anita claim are included as they are still being negotiated. Brown was advised that probably processing would be held up until these documents are received.

Reports with the application indicate a metal ratio of 1 ounce silver to 3 percent lead. Brown was told that this might make it difficult to consider the proposal as a legitimate silver project. He was also advised that dewatering the Jo Dandy shaft and the indefinite amount of rehabilitation might be considered excessive in relation to the 350 feet of additional crosscutting to the Santa Anita structure and no further exploration along the Santa Anita vein.

After Brown left, a search of the DMEA files by Mrs. Smelser revealed that a similar proposal to explore these properties was made under Docket No. DMEA-4776. This application was withdrawn by the applicant, GeoChem Development Company, for lack of funds.

D. R. MacLaren

D. R. MacLaren

Enclosure

Re: Docket No. DMEA-4776 (Lead-Zinc)
GeoChem Development Co.
Santa Anita Claim
Broadwater County, Montana

OFFICIAL
COPY
O. M. E.
RECEIVED
OCT 13 1965
INITIALS | CODE

TO: U.S. DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
REGION I
SOUTH 157 HOWARD STREET
SPOKANE 4, WASHINGTON

SUPPORTING DATA FOR APPLICATION FOR FINANCIAL ASSISTANCE FOR THE JO DANDY AND SANTA ANITA MINES IN BROADWATER COUNTY, MONTANA.

DANIEL D. KINLEY
ROUND HILL ROAD
GREENWICH, CONN.

RECEIVED
OCT 8 1965
O M E
SPOKANE, WASHINGTON

INFORMATION REQUIRED WITH APPLICATION

1. FINANCIAL ELIGIBILITY

   a. HEREWITH LETTERS REQUESTING LOAN AND THEIR REFUSAL

   b. NONE

   c. D.D. KINLEY WILL FURNISH HIS SHARE OF COSTS FROM PERSONAL FUNDS

2. APPLICANTS RIGHTS TO LAND

   a. D.D. KINLEY IS LESSEE. COPIES OF LEASE TO JO DANDY MINE ATTACHED. LEASE TO SANTA ANITA MINE WILL BE SHOWN AS SOON AS AVAILABLE.

   b. SHOWN IN LEASE

   c. ATTACHED

3. PHYSICAL DESCRIPTION

   a. MAPS ATTACHED FOR PAST. CURRENTLY THERE ARE NO WORKINGS.

   b. NONE

   c. ATTACHED

   d. NONE

   e. ATTACHED

   f. GEOLOGICAL OPINION ATTACHED

   g. ATTACHED

4. ACCESSIBILITY OF PROPERTY

   a. INCLUDED

   b. INCLUDED

5. EXPLORATION OF WORK

   a. DESCRIPTION INCLUDED

   b. EXISTING ROAD ONLY NEEDS RECONDITIONING

   c. WORK WOULD START IMMEDIATELY

6. EXPERIENCE

   EXPERIENCE OF GEOLOGIST AND MINING ENGINEER GIVEN

7. ESTIMATE OF COSTS

   GIVEN IN DETAIL

FINANCIAL ELIGIBILITY

A. EVIDENCE OF EFFORTS TO OBTAIN LOAN

B. NONE

C. OUT OF POCKET PERSONAL CASH FUNDS

DANIEL D. KINLEY
FIVE HUNDRED RUTHERFORD AVENUE
BOSTON

June 25, 1965

The First National Bank of Boston
67 Milk Street
Boston, Massachusetts

Attention Mr. Gustav R. Breitzke

Dear Mr. Breitzke:

I am seeking the financing to do some mineral exploration in abandoned mine sites in Broadwater County, Montana. We anticipate dewatering the Dandy group mine and use it as a basis for exploring underground the area under the Santa Anita mine, located about one quarter of a mile from it.

It is anticipated that the total cost of this project will be in the neighborhood of $62,000. We are seeking financing for 75% of this.

Would you please let me know whether your bank would be interested in considering the possibility of this loan?

Sincerely yours,

DDK:TLP

THE FIRST NATIONAL BANK OF BOSTON
BOSTON, MASSACHUSETTS 02106

EMMONS J. WILLIAMS
VICE PRESIDENT

434-2222
Area Code 617

June 29, 1965

Mr. Daniel D. Kinley
500 Rutherford Avenue
Boston, Massachusetts

Dear Mr. Kinley:

We have carefully considered your request for financing as described in your letter of June 25 to Mr. Breitzke of our Bank. Unfortunately we have had little or no experience with the type of operation you describe and as a result, are reluctant to enter into a lending arrangement in this field. Furthermore, in view of the size of the requested loan, the location would make it difficult to follow this project closely. Consequently, based on the available information, we feel obliged to turn down your request unless the borrowing could be fully secured by marketable collateral.

NG

Very truly yours

E J Williams

THE FIRST NATIONAL BANK

OF BUTTE

UNITED STA[illegible] [illegible]EPOSITARY

ESTABL[illegible] [illegible]77

BUTTE, [illegible]ONTANA

July 1, 1965

Mr. Daniel D. Kinley
Five Hundred Rutherford Avenue
Boston, Mass.

Dear Mr. Kinley:

Referring to your letter of June 25, 1965 in which you requested financing for some mineral exploration work on the Dandy group of mining claims and the Santa Anita mining claim in Broadwater County, Montana, we regret that at the present time we are not in a position to make such a loan.

Yours truly,

John J. Mitchell

John J. Mitchell
Vice President

JJM:mct

APPLICANTS RIGHTS IN LAND

A. APPLICANT IS LESSEE

1. COPY OF LEASE OF DANDY MINE INCLUDED

2. A COPY OF THE LEASE ON THE SANTA ANITA WILL BE SUBMITTED AS SOON AS AVAILABLE

B. LEGAL DESCRIPTIONS OF BOTH THE DANDY AND THE SANTA ANITA MINES ARE INCLUDED

C. MME 52 FORMS

LEASE AGREEMENT

THIS AGREEMENT, made this 31 day of July, 1965, between GeoChem Development Company, a Montana corporation, having its principal place of business at Butte, Montana, the lessor, and Daniel D. Kinley, of Winchester, Massachusetts, the lessee,

W I T N E S S E T H:

THAT, WHEREAS, the lessor is the owner of the certain properties herein leased, consisting of four patented lode mining claims known as the Dandy Mine; and, whereas, there are situated upon said properties a shaft and certain underground workings;

And, Whereas, the lessee is attempting to obtain a lease or other arrangement concerning the Santa Anita lode mining claim, adjoining the properties herein leased, and may in the future acquire further properties adjoining or adjacent to the properties herein leased, and said lessee contemplates exploration and possible operation of said adjoining or adjacent properties through or by means of the said shaft and underground workings upon the properties herein leased; and, whereas, said shaft and underground workings will be valuable to the lessee not only for development and mining of said properties herein leased, but also in connection with said adjoining or adjacent properties;

Now, therefore, for good and sufficient consideration, the receipt whereof is hereby acknowledged, the parties hereby agree as follows, to-wit:

1. PROPERTY LEASED: The lessor hereby leases unto the lessee, and the lessee hereby leases from the lessor, the following described patented lode mining claims, situated in Sections 28 and 33, T5N, R1W, M.P.M., in Broadwater County, Montana, to-wit:

DANIEL D. KINLEY
ROUND HILL ROAD
GREENWICH, CONN.

Name	Survey No.
Dandy	10650
Dublin	10650
Detroit	10650
Denver	10650

Together with any and all water, water rights, ditches and ditch rights appurtenant to said lode mining claims, or any part thereof, owned or used in connection therewith, and the right to use the same, together with all buildings and other improvements now on said property or owned or used by lessor in connection therewith, and any and all ore dumps and tailing dumps situated on said property, together with all and singular the tenements, hereditaments and appurtenances belonging or in anywise appertaining to said property.

2. TERM: This lease shall commence on the _____ day of _____, 1965, and shall continue thereafter for a term of five (5) years (unless sooner terminated or forfeited), with option to renew for an additional term as hereinafter provided.

3. SEGREGATION OF ORES: The lessee shall have the right, under the terms and subject to all the conditions of this agreement, to remove ores, minerals, tailings, waste, water and other materials from the said leased property and to carry on general mining operations pertaining thereto by means of shafts and workings on other properties, and to remove ores, minerals, tailings, waste, water and other materials from other properties and to carry on general mining operations pertaining to such other properties on the surface of or through shafts and workings on the said leased property; but until weighed and sampled, all ores extracted and removed from the said leased property shall be kept separate from any ores extracted from any other properties.

4. ROYALTIES:

(A) The lessee shall pay or cause to be paid to the lessor a

DANIEL D. KINLEY
ROUND HILL ROAD
GREENWICH, CONN.

royalty of ten per cent (10%) of the net smelter, mill or mint returns upon any and all ores, minerals, tailings and other materials extracted from the properties herein leased, or upon any and all concentrates manufactured therefrom.

(B) The lessee shall pay or cause to be paid to the lessor a royalty of five per cent (5%) of the net smelter, mill or mint returns upon any and all ores, minerals, tailings, concentrates and other materials extracted or produced from properties adjoining or adjacent to the properties herein leased, which adjoining or adjacent properties which shall have been explored, developed or otherwise benefited by use of the said shaft or other workings upon the properties herein leased. As to such adjoining or adjacent properties, notwithstanding any other term or condition of this agreement, this provision shall continue in full force and effect throughout the operations thereon of the lessee, his successors and assigns, even though, after having utilized said shaft or workings on the properties herein leased, said operations may thereafter be conducted without the use of said shaft or workings; and this provision shall continue in full force and effect with respect to said adjoining or adjacent properties even though the lessee may terminate all operations upon the properties herein leased, and even though this lease may terminate in all other respects.

(C) Net smelter returns are hereby defined as the cash proceeds of such ores, minerals, materials, tailings and concentrates after the deduction of reasonable transportation, smelter, mill and mint charges only.

(D) The said royalties shall be paid to the order of the lessor at The First National Bank of Butte, Butte, Montana, by the smelter, mint or other purchaser, and the lessee shall notify the lessor in

DANIEL D. KINLEY
ROUND HILL ROAD
GREENWICH, CONN.

writing of each shipment ma from the said property, ..cluding dates, approximate weights and nam of smelter, mill or other purchaser, and shall deliver to the lessor copies of all assays and mint, smelter and mill returns.

5. MINIMUM WORK OR ROYALTY: After the first year of this lease, the lessee shall thereafter either perform upon the leased property not fewer than sixty (60) man shifts of labor during each full calendar month, or in lieu thereof pay minimum royalties of at least $100.00 during such calendar month; provided, that any work or labor in excess of sixty (60) man shifts performed in any calendar month may be carried forward and applied against the work and labor requirement hereunder for any of the next six (6) calendar months thereafter; and provided, further, that any actual royalties paid hereunder in excess of $100.00 during any calendar month may be carried forward and applied against the minimum royalty requirement hereunder for any of the next six (6) calendar months thereafter.

6. LIENS: HOLD HARMLESS: The lessee shall keep the said property free and clear of liens for labor done or performed thereon, or materials furnished to the lessee on or for the same, and shall save the lessor harmless from all costs, loss, or damage which may arise by reason of injury to any persons employed by the lessee in or on the said property or any part thereof, or which may arise by reason of injury to any person, livestock or other property thereon during the lessee's possession or occupancy of the property, arising out of or in any manner connected with the lessee's operations thereon.

7. COMPLIANCE WITH LAW: The lessee shall conduct his operations in compliance with all applicable laws, rules and regulations of all duly constituted governmental authorities.

DANIEL D. KINLEY
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8. INSPECTION BY LESSOR: The lessor shall have the right at its own cost and risk to be present by representatives at all reasonable times during operations, but without any unreasonable interference with operations, and to examine the workings and operations of the lessee and to examine the lessee's maps, plats and other records of his operations hereunder.

9. TAXES: The lessee shall pay when due and before delinquent any and all taxes which shall be hereafter lawfully levied upon said leased properties, and all taxes upon any and all personal property of whatsoever nature placed upon the said property by the lessee during the term of this lease. Lessor and lessee shall each pay their respective portions of any and all gross or net product or proceeds taxes, if any, that are or may hereafter be levied upon or against production from said properties.

10. INSURANCE: The lessee shall at all times during the term of this lease maintain effective coverage for all his operations and all employees in said operations under this lease, under one of the authorized plans of the Workmen's Compensation Act of the State of Montana.

11. DEFAULT: NOTICE: Time is of the essence of this agreement, and failure of the lessee to make or cause to be made any payments as herein provided, or to keep or perform any agreement on his part to be kept or performed in accordance with the terms and provisions hereof shall, at the election of the lessor, cause the termination hereof, and any and all moneys which shall have been paid by the lessee to the lessor in royalties or otherwise shall be retained by the lessor as rent for the possession and use of said premises; provided, however, that in the event of a default on the part of the lessee and the election of the lessor as aforesaid to terminate this lease on account of such default, the lessor shall give the lessee a written notice specifying the particular default or defaults relied

DANIEL D. KINLEY
ROUND HILL ROAD
GREENWICH, CONN.

upon, and the lessee shall have thirty days after such written notice from the lessor within which to remedy said default or defaults; if said default or defaults shall be so remedied and no further default occur within said thirty-day period, this lease shall then be automatically restored to good standing. A waiver by the lessor of a particular breach of any covenant or agreement shall not be construed as a waiver of any other breach, and the remedying of any particular breach shall not impair the lessor's rights resulting from any subsequent breach.

12. FORCE MAJEUR: In the event that the lessee shall be delayed at any time in keeping or performing any agreement on his part to be kept or performed hereunder by any act or neglect of the lessor, or by strikes, lockouts, unusual delay in transportation, order of duly constituted governmental authority, unavoidable casualty, act of God or any other cause beyond the reasonable control of the lessee, with the exception of financial inability, such delay shall not be deemed a breach of this lease or a default on the part of the lessee constituting a cause for the termination of this lease and option, and during any time said lessee is so delayed he shall be excused from the performance of such of the provisions hereof as shall be thereby delayed.

13. REMOVAL OF PERSONAL PROPERTY: Any and all machinery, equipment and other property placed upon the said properties by the lessee shall be and remain lessee's personal property and shall not become a part of the real estate or a fixture or fixtures thereon, and may be removed therefrom by the lessee or his successors or assigns at any time prior to the termination of this lease by lapse of time or otherwise, or at any time within sixty (60) days thereafter; provided, however, that all rail, pipe and timbering placed or installed

DANIEL D. KINLEY
ROUND HILL ROAD
GREENWICH, CONN.

in any shaft, drift, tunnel or other underground workings, and all buildings and other structures erected upon said properties, shall remain in and upon the premises and become a part thereof; and provided, further, that any of lessee's property not removed within sixty (60) days after termination of this lease shall then become the property of the lessor.

14. OPTION TO RENEW: In further consideration of these premises and of the payments to be made and covenants and conditions to be performed hereunder, the lessor hereby grants the lessee the option to renew and extend this lease for successive additional periods of five (5) years each, upon the same terms and conditions, provided that mining operations are being maintained and the lessee is in good standing hereunder at the time of each said renewal. If the lessee elects to exercise this option to renew, he shall give the lessor written notice thereof at least sixty (60) days prior to expiration of the then current term of this lease.

15. CANCELLATION BY LESSEE: The lessee shall have the right to cancel, terminate and surrender this lease and relinquish the property to the lessor at any time during the term hereof, by giving the lessor written notice of his intention to terminate at least sixty (60) days prior to the date when such termination shall become effective; with such notice the lessee shall pay lessor any accrued royalties not theretofore paid, and shall deliver to the lessor copies of all maps, plats, assay and smelter returns, and other production and geological records of his operations on said properties.

16. SURRENDER OF POSSESSION: Upon termination of this lease by lapse of time or otherwise, the lessee shall surrender peaceable possession of the said properties and every part thereof to the lessor, and the lessor may take immediate possession thereof; provided, however, that the lessee shall have sixty(60) days after

DANIEL D. KINLEY
ROUND HILL ROAD
GREENWICH, CONN.

such termination, as hereinabove provided, within which to remove all property which it is entitled to remove hereunder.

17. ADDRESSES FOR NOTICE: Any notices to be given hereunder shall be deemed complete when the same shall have been placed in any United States Post Office, securely sealed in an envelope properly addressed to the party or parties to whom the same shall be directed, with full first class postage prepaid thereon. Until otherwise specified in writing by either of the parties hereto, any such notices to the lessor shall be addressed to 8 First National Bank Bldg., Butte, Montana, and any such notices to the lessee shall be addressed to 8 Robinson Circle, Winchester, Massachusetts.

18. SUCCESSORS AND ASSIGNS; ASSIGNMENTS: This agreement shall extend to and be binding upon and shall inure to the benefit of the successors and assigns of the respective parties hereto; provided, however, that this agreement may not be assigned, nor said properties or any thereof sublet, without the express prior written consent of the lessor.

IN WITNESS WHEREOF, the parties have caused these presents to be executed the day and year first above written.

GeoChem Development Company, Lessor

By: [signature]
As Its President

ATTEST:

[signature]
As Its Secretary

[signature]
Lessee

DANIEL D. KINLEY
ROUND HILL ROAD
GREENWICH, CONN.

PHYSICAL DESCRIPTION

A. VERBAL DESCRIPTIONS AND AVAILABLE MAPS INCLUDED. THERE ARE NO EXISTING MINE WORKINGS OR PRODUCTION FACILITIES

B. NONE

C. PRODUCTION RECORDS OF THE JO DANDY ARE INCLUDED FOR THE TOTAL PERIOD OPERATED. TOTAL PRODUCTION OF THE SANTA ANITA TO 1948 AS REPORTED BY REED (1951 A.16) INCLUDED USBM IC 7592

D. ORE RESERVES UNKNOWN

E. REPORT BY GEOLOGIST FORBES ROBERTSON INCLUDED

F. ON BASIS OF GEOLOGICAL REPORTS

G. GEOLOGIC REPORTS

1. U.S. GEO. SURVEY BULLETIN 842, PAGES 306-308, 1933 ENTITLED METALLIFEROUS DEPOSITS OF THE GREATER HELENA MINING REGION, MONTANA

2. REPORT DATED OCT. 18, 1949 BY CARL TRAURMAN

3. LETTER DATED AUG. 30, 1943 BY C. "TURK" BEARSE

4. GEOCHEMICAL SURVEY REPORTED IN MONTANA BUREAU OF MINES AND GEOLOGICAL BULL. #7, PAGES 57-58, 1956

FORBES ROBERTSON
ELSAH, ILLINOIS

June 1, 1965

Mr. Myran J. Livingston
11704 Wilshire Boulevard
Los Angeles, California

Dear Mr. Livingston:

The following items are considered under the headings on Application for Financial Assistance in Mineral Expansion.

3) Physical Description.
(Surface and underground maps are included, one of the Dandy and the other a geological map of the workings at the Santa Anita.) A sketch map showing the relations of the ore deposits to the mine opening was published by Pardee and Schrader in U.S. Geological Survey Bulletin 842, published in 1933, page 307.

C) Enclosed are records of ore shipments from the Dandy mine throughout its period of operation.

D) Ore reserves are not known.

E) Descriptions of mineral and nature of the ore deposits are described in U.S. Geological Survey Bulletin 842, pages 306-8, 1933, titled "Metalliferous Deposits of the Greater Helena Mining Region, Montana." A report dated October 18, 1949 by Carl J. Trauerman is considered authoritative. Dr. Trauerman was associated with the Dandy mine from its inception and had a long and distinguished record as secretary of the Montana Mining Association many years prior to his passing a few years ago. A letter dated August 30, 1943 by C. "Turk" Bearse is considered authoritative so far as to his discussion of the actual openings underground at the time the Dandy mine was in operation. A geochemical survey from the Dandy to the Santa Anita was reported in Montana Bureau of Mines and Geology Bulletin 7, pages 57-8, 1956.

F) Dandy Mine. The Dandy mine was deepened from the 500 to the 600 level just before the mine was closed in 1931. It had been ancitipated to extend the shaft to the 1,000

foot level if the geological indications strongly suggested that ores should persist with depth. Pardee expressed this in his U.S. Geological Survey Bulletin report. The ores above the 600 level apparently were very incompletely prospected and developed.

The mine has never been mapped geologically. In sinking the shaft they encountered an ore shoot which on raising did not coincide with one of the surface ore shoots. There is every indication that certain favorable limestone beds have been replaced by lead and sulphur minerals to provide long pipes of ore of high grade. It is anticipated that detailed mapping of the mine would show the relations of the already developed shoots that may well be expected to focus attention on undiscovered shoots at the 5 and 600 foot level. I would anticipate that some mining could be initiated at the 600 foot level as soon as that level is exposed. Prospecting should be pursued immediately following mapping the mine, but there is no assurance that the ore exposed on the 600 foot level is clearly related to any ore shoot developed above.

Santa Anita. The mineralization at the Santa Anita is much more extensive at the surface than at the Dandy. As the geological situation is virtually identical to that of the Dandy and as the Dandy is known to be mineralized to 600 foot vertical depth, there is no geological reasnn why the ores at the Santa Anita should not persist to comparable depths. The fact that there is a long drift out toward the Santa Anita makes exploration of the Santa Anita pipes particularly attractive because with a few hundred feet of drifting about 900 feet of mineralized pipes may be anticipated. The relative intensities of the mineralization at the Dandy and the Santa Anita may be suggested from the geochemical work reported in bulletin 7 of the Montana Bureau of Mines and Geology on page 57. Not only is the metal anomoly at the Santa Anita much more intense, by factor of 3, the width of the anomolies is likewise several times greater. I think there is every reason to believe that the Santa Anita pipes should yield several times the amount of metal produced at the Dandy.

The Santa Anita is somewhat higher in elevation than the Dandy, consequently development from the 500 foot level

of the Dandy would be equivalent to something more than 600 feet at the Santa Anita. The silver content of the Santa Anita at the surface was not quite so great as that at the Dandy. Unfortunately the records at the Dandy do not clearly indicate the slope nor the depth of production. It would not be unreasonable to consider the possibility that silver may increase in depth and it is even probable that the silver content of some ore shoots will be distinctly greater than others.

why?

It is my opinion that the Santa Anita is a particularly attractive exploration venture in view of the fact that development of ores to a depth of about 600 feet may be achieved with but a few hundred feet of drifting from the Dandy shaft.

Respectfully submitted

Forbes Robertson

Forbes Robertson, Geologist

are from 1 to 6 feet wide and contain ore in streaks from 6 to 10 inches thick that is valuable for silver and contains cerusite, wolframite, quartz, calcite, and iron oxides.

The Parker group, 8 miles west of Radersburg in Johnny Gulch, contains pockets and shoots of ore composed chiefly of silver-bearing galena in a gangue of carbonate, quartz, and iron manganese oxides.

On the Rowell group, 4 miles south of Radersburg, ore shoots 2 to 5 feet thick contain pyrite, chalcopyrite, arsenopyrite, malachite, and chrysocolla at the places where a main vein is joined by stringers. The country rock is a white, partly bleached andesite.

Winchell observes that the ores of the Radersburg district are closely associated geographically with intrusions and extrusions of andesite, that the most valuable deposits are in fissure veins cutting the andesite, and that less productive deposits are found along contacts between the intrusive rock and earlier sedimentary rocks or in the sediments not far from such contacts. This mode of occurrence, he believes, indicates that the ores are genetically related to the andesite. As an alternative hypothesis the writers of the present paper suggest that the lodes are related in origin to unexposed bodies of intrusive quartz monzonite. There are several small areas of quartz monzonite in the western and northern parts of the district (pl. 2) at no great distance from the lodes. It is a reasonable speculation that others would come to view if the surface were lowered and that some or all of them represent an underground extension or an offshoot of the Boulder batholith. Under this view the Radersburg deposits would be classified with the group of the general region called "older lodes" (p. 193), which they resemble in composition.

JO DANDY MINE

In June, 1929, the Jo Dandy mine was being operated by the Butte Copper Consolidated Mines Co. under the direction of Col. A. P. Peake. This mine is relatively new and is situated in the foothills of the Elkhorn Range about 5 miles southwest of Radersburg. Most of its development workings, aggregating about 2,500 feet, have been opened since 1925.

The net smelter returns for ore shipped from July, 1927, to June, 1929, amount to more than $108,000. The total assay content of the ore was in round figures 40,000 ounces of silver and 2,700,000 pounds of lead, the value of which was about $178,000, the difference of $70,000 representing smelter charges and disallowances.

The rocks exposed are chiefly quartzite belonging to the Quadrant formation (Pennsylvanian). The beds strike north and dip about 50° E. They form part of the east limb of a large anticline (fig. 36)

that includes the underlying Madison limestone (Mississippian) and the overlying Phosphoria (Permian) and Ellis (Jurassic) formations, which are composed of limestone, sandstone, and shale. The only igneous rock observed is a dike or sill of andesite 20 feet thick that crops out a short distance south of the new shaft and is intruded near the boundary between the Quadrant and the Phosphoria.

Development workings include the new shaft, a vertical entry 600 feet deep, with drifts at different levels that aggregate 2,000 feet or more in length. These and other workings expose several lodes formed along bedding planes in the quartzite. To distinguish these from other lodes found along cross fractures they are called bedding lodes. Most of the drifts are run on one of the bedding lodes that

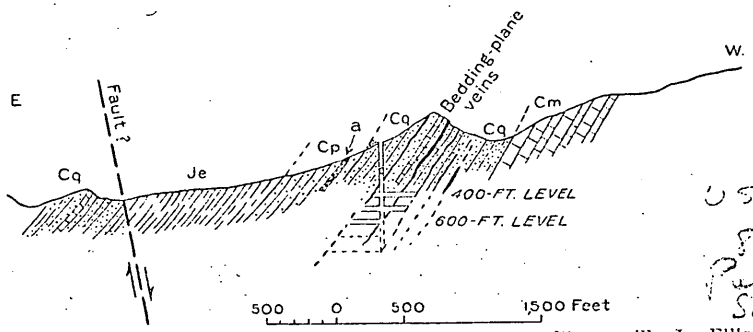

FIGURE 36.—Cross section of Jo Dandy mine. a, Andesite dike or sill; Je, Ellis formation; Cp, Phosphoria formation; Cq, Quadrant formation; Cm, Madison limestone

lies on the upper side of the particular quartzite beds that form the most prominent of the Quadrant outcrops. This lode is exposed continuously on the 500-foot level for a distance of 800 feet. Surface workings show it, or at least the group of which it is a member, to persist horizontally for half a mile or more. A similar lode on the under side of the quartzite beds mentioned is developed underground for a short distance, and three or four other lodes beneath that one are penetrated by a crosscut.

So far as shown the bedding lodes are regular and persistent. They range from an inch or two to a foot in width and consist mainly of iron and manganese oxides and fragments of crushed quartzite. Streaks of white secondary carbonate, mostly calcite, occur in them throughout, and they are said to assay small to moderate amounts of lead and a little silver.

At irregular intervals cross fractures occur, each of which displaces the bedding lodes slightly to the right (that is, to the east as one goes north or to the west as one goes south). Practically all the ore produced to date has come from bodies found along these cross frac-

tures where they intersect the bedding lodes. These ore bodies are mostly shaped like flattened cylinders and are generally called "pipes" by the miners. Their shorter diameters range from 1 to 4 or 5 feet, and the longer from a few feet to 15 feet or more. They extend for considerable distances parallel to the dip of the cross fractures, and in fact their depth limits have not been determined. The ore is composed mostly of cerusite with more or less iron and manganese oxides and a little calcite. Vein quartz was not observed, but silica is present in the form of fragments of quartzite. In places there remain streaks and bunches of galena which have escaped oxidation. Specimens from one of the surface workings contain yellow translucent crystals of pyromorphite. Smelter returns from different lots of the ore shipped show the silver content to range from 10 to 25 ounces to the ton and the lead from 34 to 64 per cent. The ratio of silver to lead is generally about 1 ounce to 3 per cent. As a rule the ore contains 25 per cent of insoluble matter (quartzite), 10 per cent of iron, less than 2 per cent of sulphur, and about 1 per cent of zinc. The outcrop of the lode shows a little copper stain in places.

The workings described do not extend below the oxidized zone, but the residual galena found in the lodes indicates that sulphides were the original ore minerals. They were deposited partly as a breccia filling but mostly as a replacement of quartzite. Some of the quartzitic beds are calcareous, but the ore bodies do not seem to show any marked preference for such beds. The deposits are of deep-seated origin, but there is no exposure near by of an igneous rock to which they might be genetically related except the andesite dike. Other than its nearness there is no evidence that this dike was the source of the lodes. The persistence of the lodes encourages the belief that much ore remains to be found in their unexplored parts.

PARK (HASSEL) DISTRICT

The Park or Hassel district occupies an area on the east side of the Elkhorn Mountains between the Winston and Radersburg districts. It is drained by Indian Creek and branches of Crow Creek and is reached by a road that goes west from Townsend. This district was examined in 1910 by Stone,[61] from whose report the following description is condensed.

The Park mines, on Indian Creek about 5 miles northwest of Hassel, were idle in 1910 and apparently had not been operated for several years. A mill and cyanide plant were once built there, but the recovery of precious metals was not successful. The ore is mostly pyrite with some arsenopyrite and galena and is valuable

[61] Stone, R. W., Geologic relation of ore deposits in the Elkhorn Mountains, Mont.: U. S. Geol. Survey Bull. 470, pp. 89–91, 1911.

chiefly for gold. The Little Anna, half a mile east of the Park mines, contains, as indicated by the size of the dump, several hundred feet of underground workings. This mine has been idle since 1904. The ore is quartz carrying arsenopyrite and pyrite. The Iron Mask mine has a vertical shaft probably more than 200 feet deep on a quartz ledge containing iron oxides and galena. The Silver Wave mine is on a lode that trends N. 60° W., dips 80° N., and contains pyrite and galena. The ore is said to net $35 a ton, chiefly in gold, with some silver and lead. The shaft is 350 feet deep, and 24 men were employed in September, 1910. Other mines in the neighborhood of the Silver Wave are the New Year group and the Crosscut mine.

In the vicinity of Hassel are two intrusions of granite, which probably were the cause of extensive mineralization. This district first began to produce about 1870, when the placer deposits along Indian Creek were mined. Later on veins were discovered that carried gold. Open-pit mining and long tunnels on some rich mineralized bodies produced about $500,000 in gold. One tunnel 2,800 feet long is said to be in ore assaying from 80 cents to $2.50 a ton. Three stamp mills were built, and one of them is reported to have operated when water could be obtained. Open cuts on the Little Giant vein show mineralized country rock along a fracture. It is reported that this mine produced nearly $300,000, of which the present operator has smelter returns of about $200,000. Much of the gold is said to have been lost in the tailings. In 1910 the Little Giant Co. was driving a tunnel to crosscut the lode. A deep vertical shaft of the Blacksmith mine at Hassel is said to have produced large quantities of ores that were milled unsuccessfully, and the mine has been closed since 1905.

Reports in the annual volumes of Mineral Resources for the period 1908–1928, which probably include but little if any of the amounts given by Stone, show a total production of $49,855 in gold and, in round figures, 25,000 ounces of silver, 80,000 pounds of copper, 433,000 pounds of lead, and 211,000 pounds of zinc. In the same reports the total value of the metals produced from 1910 to 1928 is given as $89,264. The two years before 1910 probably produced $15,000 or more, and the sum total for the district, including Stone's figures and the probable yield of the early-day placer mines, is not less than $1,000,000.

154419—33——21

From "Metalliferous Deposits of the Greater Helena Mining Region, Montana," by J. T. Pardee and F. C. Schrader, Geological Survey Bulletin 842, published in 1933, pages 306-308. (Sketch of part of mine in Bulletin 842.)

JO DANDY MINE

In June, 1930, the Jo Dandy mine was being operated by the Butte Copper Consolidated Mines Co. under the direction of Col. A. P. Peake. This mine is relatively new and is situated in the foothills of the Elkhorn Range about 5 miles southwest of Radersburg. Most of its development workings, aggregating about 2,500 feet, have been opened since 1925.

The net smelter returns for ore shipped from July, 1927, to June, 1929, amount to more than $108,000. The total assay content of the ore was in round figures 40,000 ounces of silver and 2,700,000 pounds of lead, the value of which was about $178,000, the difference of $70,000 representing smelter charges and disallowances.

The rocks exposed are chiefly quartzite belonging to the Quadrant formation (Pennsylvanian). The beds strike north and dip about 50°E. They form part of the east limb of a large antiCline (fig. 36) that includes the underlying Madison limestone (Mississippian) and the overlying Phosphoria (Permian) and Ellis (Jurassic) formations, which are composed of limestone, sandstone, and shale. The only igneous rock observed is a dike or sill of andesite 20 feet thick that crops out a short distance south of the new shaft and is intruded near the boundary between the Quadrant and the Phosphoria.

Development workings include the new shaft, a vertical entry 600 feet deep, with drifts at different levels that aggregate 2,000 feet or more in length. These and other workings expose several lodes formed along bedding planes in the quartzite. To distinguish these from other lodes found along cross fractures they are called bedding lodes. Most of the drifts are run on one of the bedding lodes that lies on the upper side of the particular quartzite beds that form the most prominent of the Quadrant outcrops. This lode is exposed continuously on the 500-foot level for a distance of 800 feet. Surface workings show it, or at least the group of which it is a member, to persist horizontally for half a mile or more. A similar lode on the under side of the quartzite beds mentioned is developed underground for a short distance, and three or four other lodes beneath that one are penetrated by a crosscut.

So far as shown the bedding lodes are regular and persistent. They range from an inch or two to a foot in width and consist mainly of iron and manganese oxides and fragments of crushed quartzite. Streaks of white secondary carbonate, mostly calcite, occur in them throughout, and they are said to assay small to moderate amounts of lead and a little silver.

At irregular intervals cross fractures occur, each of which displaces the bedding lodes slightly to the right (that is, to the east as one goes north or to the west as one goes south). Practically all the ore produced to date has come from bodies found along these cross fractures where they intersect the bedding lodes. These ore bodies are mostly shaped like flattened cylinders and generally called "pipes" by the miners. Their shorter diameters range from 1 to 4 or 5 feet, and the longer from a few feet to 15

feet or more. They extend for considerable distances parallel to the dip of the cross fractures, and in fact their depth limits have not been determined.

The ore is composed mostly of cerusite with more or less iron and manganese oxides and a little calcite. Vein quartz was not observed, but silica is present in the form of fragments of quartzite. In places there remain streaks and bunches of galena which have escaped oxidation. Specimens from one of the surface workings contain yellow translucent crystals of pyromorphite. Smelter returns from different lots of the ore shipped show the silver content to range from 10 to 25 ounces to the ton and the lead from 34 to 64 per cent. The ratio of silver to lead is generally about 1 ounce to 3 per cent. As a rule the ore contains 25 per cent of insoluble matter (quartzite), 10 per cent of iron, less than 2 per cent of sulphur, and about 1 per cent of zinc. The outcrop of the lode shows a little copper stain in places.

The workings described do not extend below the oxidized zone, but the residual galena found in the lodes indicates that sulphides were the original ore minerals. They were deposited partly as a breccia filling but mostly as a replacement of quartzite. Some of the quartzitic beds are calcareous, but the ore bodies do not seem to show any marked preference for such beds. The deposits are of deep-seated origin, but there is no exposure near by of an igneous rock to which they might be genetically related except the andesite dike. Other than its nearness there is no evidence that this dike was the source of the lodes. The persistence of the lodes encourages the belief that much ore remains to be found in their unexplored parts.

REPORT ON DANDY GROUP IN RADERSBURG DISTRICT

October 18, 1949

I am president and treasurer of Butte Copper Consolidated Mines, which owns the Dandy Group, consisting of four patented and one unpatented claims, about five miles southwest of Radersburg, Montana, and eleven miles west of the railroad station of Toston, in Broadwater County. This is about 70 miles northeast of Butte, and was last operated in 1931 through a 600-ft. shaft and several thousand feet of drifts. The company was incorporated in South Dakota on September 20, 1926 and started to develop a copper property near Elk Park, which later was abandoned. The company has outstanding 2,009,113 shares, par value 50¢, authorized capital 4,000,000 shares.

I was a director of the company when it started in 1926, but I resigned about a year later, as I was not enthusiastic about the people who were managing the property then. Colonel A. Peake, who started the Butte & Superior Company, was president and after his death in 1935, I was elected vice-president. My former partner was secretary-treasurer and he died on October 20, 1942. The company has 2000 stockholders scattered all over the United States. I have the full authority to lease the property. All taxes have been paid, but the company has a long time note outstanding for some $35,000, which will not interfere with operations. It might be too intricate a problem to put the company in shape to sell the property, but I have authority to lease it on a royalty basis. My wife is vice-president and secretary. The $35,000 note above referred to is outlawed by the statute of limitations and is in very friendly hands. The company is not legally obligated to pay it, but may pay it if it ever makes enough money to do so.

The property is opened by a 600-ft. shaft and in about three years, we shipped 4,362,000 pounds of lead worth $392,444.00. There is very little gold in the ore and about 1% zinc. The ore assays about 1 ounce of silver for every 3% lead, and our shipments assayed from 25% to 37% lead in carbonate and sulphides. The geology and ore occurrence is described on pages 306-308 of Bulletin 842 of the U.S.G.S., published in 1933. A copy of pages 306-308 of Bulletin 842 is attached. All the ore shipped came from below the 200-ft. level. As near as I can remember, there was still rich, mixed sulphide and carbonate ore on the bottom of the 500-ft. level, this ore being about 2 ft. wide.

The mine makes very little water and my plan of operation would be to sink the shaft another 100 or 200 feet and then drift under the ore bodies found on the upper levels which are now apparently worked out. Mr. Sawyer, the former manager, did not have any maps when he operated. The Butte Copper Consolidated also at one time optioned the Santa Anita, an adjoining property which had some very

high grade lead ore near the surface. The Santa Anita is owned by the Winslow Estate and we think it could be purchased, and the property worked in conjunction with the Dandy group. Butte Copper drove a long tunnel on its 500-ft. level towards the Santa Anita, but did not drive it far enough to get under the Santa Anita ore bodies.

The property is less than 2 miles from a power line of the Montana Power Company. Equipment at the property consists of the pumps that we used, which are now on the surface. There is a gallows-frame, hoist, compressor house, cook house, storehouse, garage, and several small individual bunk houses.

Enclosed is a copy of a letter written on August 30, 1943 by Mr. C. "Turk" Bearse, who was foreman of the Dandy when it was shut down in 1931.

For several years the surface of the property has been leased to John Luth, who has shipped both low grade and high grade ores from close to the surface west of the Dandy shaft. Two cars shipped by Mr. Luth assayed better than 60% lead. Shipment records of the company are available.

I believe there are good speculative possibilities in the Dandy group. It may always be a small mine, but there are possibilities that the ore bodies will widen with depth.

Respectfully submitted,

Carl J. Trauerman, President
BUTTE COPPER CONSOLIDATED MINES

p

Gurnsville, California
August 30, 1960

Mr. Carl Tran. mann
Butte,
Montana

Dear Friend:

Well, I was somewhat surprised to hear from you, and in particular concerning the Dandy Mine. I have always had a great respect for this mine. I worked in the Dandy when it belonged to George Winslow, the former owner, and it was only thirty-five feet deep. I was there all the time during the sinking and taking out all the ore from the old incline shaft and also during most of the workings of the new shaft.

To start with, the mine or the main shaft that was sunk by the Butte Copper Consolidated is 600 feet deep. The old incline shaft is 300 feet deep and the new shaft did not hit the ore body until it was sunk about 350 feet and the ore crossed the shaft there.

The largest orebodies that were taken out were taken out just above the 400 level and continued up above the 300 level. The orebody went to within 75 feet of the surface, but not being the original orebody that the old shaft was sunk on. It was an entirely different orebody.

The water level in the mine is about eighteen inches over the station floor on the 300 foot level, therefore, there is 300 feet of water in the mine now. The mine does not make much water once it is pumped out. Our pump was a Worthington, 250 gal. per minute and was on the 600-ft/ level, and I used to pump about four hours in the twenty-four to keep the mine dry.

On the 500-ft. level there was a long drift driven over southeast about 1600 or 1800 feet to hit the Santa Anita. This drift was Mr. Sawyer's, the former manager, idea, and I never had any faith in the Santa Anita and tried to discourage the driving of the tunnel, as I was positive there was nothing worth while.

We took a good deal of nice ore between the 500 and 400, both carbonate and galena ore. At the 600-ft. level the ore seemed to narrow, but one or two engineers who visited the mine were under the impression, or certain the ore would widen out again, and it would be more galena and less carbonate.

At the time of the shut-down it was said by Mr. Sawyer that we would get ready to sink an additional 400 feet, making the shaft a total of 1,000 feet. The lower level (600) was never prospected, as I would have liked to have done, as the crash was on and money was hard to get.

The rails are all in the mine yet, both on the 500 level and the 600, too. I think you would find the timbers in the shaft in good condition, as it was in real hard rock.

I heard Mr. Sawyer was in California, but I never have seen anyone who has seen him. I would like very much to see the Dandy mine start again, and I think with proper management there is a nice little mine there. Nothing would suit me better than being at the Dandy again and seeing it producing, which I am positive it will.

I am here with a quicksilver layout, but am getting a little tired of this country. I have been here three years now.

Well I will close, and if at anytime I can be of any service to you, don't hesitate.

Don't be afraid to advise the opening of the Dandy; it is a good bet, but I would recommend to sink at least 300 feet.

With best wishes, I will close. Tell Mr. Dorais hello for me.

Yours respectfully,

C. "Turk" Bearse
Box 513
Durnesville, California.

ACCESSIBILITY OF PROPERTY

A. ALLAN BROWN, MINING ENGINEER, 1315 WEST GRANITE STREET, BUTTE, MONTANA REPORTS

B. SHIPPING AND SUPPLY POINTS

4 ACCESSIBILITY OF PROPERTY

A. Alan D. Brown, 1315 West Granite Street, Butte, Montana
The property is approximately six miles S.W. of Radersburg, Montana and two miles by unimproved but passable road, from the so-called Johnny Gulch Road, a well-maintained county road. A. D. Brown will meet the O.M.E. representative at his convenience either in Butte, Montana, or Radersburg.

Practically all workings of the Santa Anita Mine are open for examination, including the winze. There is practically no timber in the mine. None of the Jo Dandy underground workings are accessible, as the shaft is flooded to the 400 foot level or 100 feet above the 500 foot level on which the proposed exploration work will be done.

B. Tosten, Montana, on the main line of the Northern Pacific Railroad is 12 miles from Radersburg by paved road and provides excellent rail facilities to the East Helena Smelter. Total distance from mine to smelter is 67 miles. Helena, 65 miles from Radersburg and Butte, about 90 miles from Radersburg are the major supply centers for mining machinery and supplies of all kinds.

EXPLORATION WORK

EXPERIENCE

5. EXPLORATION WORK

A. Three stages of work are proposed,

1. Installation of surface facilities and equipment.

2. Repair of the Dandy shaft to the water level, about 400 feet, and dewater and repair to the 500 foot level in order to geologically map and survey the 500 foot level exploration drift which has been driven toward the Santa Anita.

3. Repair 1200 feet of cross-cut and extend this cross-cut another 350 feet toward the Santa Anita structure in order to prospect this structure at depth. Cross-cut to be 7'x5' untimbered - supported by rockbolts if necessary.

B. The mine is presently accessible - existing road will have to be repaired some. This can be done by a grader or a bulldozer in a matter of one day.

C. Work would be started immediately, upon execution of an O.M.E. contract, towards arranging for equipment and supplies, and work on the site would start as soon as necessary machinery can be delivered to the site. It is expected that necessary repair and dewatering of the shaft can be accomplished in 35 days, and the 1200 feet of cross-cut be repaired in an additional 8 days. We would expect a daily advance of 15 feet per day while driving the cross-cut (3 shifts per day) or another 24 days to drive the 350 feet toward the Santa Anita. Total project time is 67 days.

6. Forbes Robertson, Geologist, PhD., 25 years' experience in teaching, exploration, research and consulting, etc. etc.

Alan D. Brown, graduate mining engineer, 20 years' experience in underground and open pit mining as an engineer, shift boss, assistant foreman and foreman.

ESTIMATE OF COSTS

7. ESTIMATE OF COSTS

A. Independant contracts:

All preliminary and repair work will be performed by the same men that are taking the mining contract on a guaranteed rate per day basis.

9 Miners - 296 man-shifts at $30.00 = $8,880.00 $1000 per month shift

Contract on 350 feet of 7'x5' @ $25.00 per foot
Cross-Cut - labor cost 8,750.00

Total independant contracts $17,630.00

B. Personal services:

No allowance for supervision, engineering, and geological services have been made as these functions will be performed by the loan applicant on a payment-deferred basis. Qualified men are available for these jobs.

C. Operating material and supplies:

18 Yds. Ready Mix conctete	@ 30.00/yd	$540.00	
Hardware, spikes, bolts, etc.		185.00	
Lumber and timber	150.00/m	860.00	
Small tools, axes, picks, bars, hoses etc.		500.00	
500 ft. ridgid type Ventube	2.00/ft	1,000.00	Depreciation
500 ft. mine ladders	.50/ft	250.00	
Shaft repair timber - estimated		2,000.00	50%
500 ft. 3" shaft column	115.00/c	575.00	D
Pump hose, floats, valves, etc.		200.00	
4 Mine cars	50.00	200.00	D
1200 ft. Flexible Ventube	1.50/ft.	1,800.00	D
1700 ft. 3" pipe	112.00/c	1,904.00	D
1400 ft. 1" pipe	25.42/c	356.00	D
1200 ft. 25# rail	170.00/ton	1,700.00	D
Miscellaneous		500.00	
Operational cost of compressor & deisel generator		700.00	
Supply cost for driving 350 ft of 7x5 cross-cut	20.00/ft ?	7,000.00	
Total		20,270.00	

D. Operating equipment

300 CFM deisel compressor, receiver and valves purchased - used		4,600.00
50 HP single drum electric hoist, rope sheave and cage - used		4,000.00
125 KW deisel-generator - used		8,000.00
15 HP Coppus ventair blower - used		500.00
2 MRU - 40 HP I.Rand pump - used		1,000.00
2 - Jackleg pneumatic drills (new)	@750.00	1,500.00
1 - Eimco air mucking machine - used		2,450.00
1 - Air trammer		1,000.00
Total		23,050.00

Depreciation on 60-mo. basis

E. There are no buildings or existing facilities on the property and the applicant does not possess any moveable operating equipment.

F. One pre-fabricated steel sectional building, 15'x 15' to house the hoist and serve as storage shed, to be erected by the miners as part of the preliminary work $ 750.00

G. Estimated cost of maintenance and repair of operating equipment 500.00

Since all labor is to be performed on an independent contract basis we do not anticipate any accounting and office expense, workmens' compensation, unemployment or payroll taxes.

Grand total money requested $62,200.00

ADD CONTINGENCY 6,200.00

$ 68,400.00

1927 Date		Smelter	No	Weight Gross	Moisture	Net	Silver Assay	Ounces	Price	Value	Lead Assay	Pounds	Price	Value	Gross Value	Freight	Price Differential	Deduction	Charges	Net from Smelter	Mailing	Insurance	Net to Company
May	17	American Smelting & Refg	1	102420	2275	100141	11.6	580.85	56½	328.16	43.2	43260.91	6.20	2682.19	3010.24	638.1	44891	2664.44	291.91	1722.71	246.43	5.50	1472.78
Aug	16	" " "	2	117980	2784	113196	9.85	557.49	54½	303.83	42.13	47712.11	6.75	3220.57	3524.40	916.3	71568	3329.99	335.63	2236.33	278.45	5.50	1954.38
	26	" " "	3	87420	3846	83574	8.45	227.74	54⅞	124.40	41.63	34781.85	6.60	2296.21	2420.60	542.0	52187	2294.95	250.30	1853.19	207.57	Accounts	
Oct	5	" " "	4	24880	2321	22559	11.65	420.84	55¾	234.62	32.8	23799.35	6.25	1487.46	1722.08	378.1	35699	1528.88	249.22	1225.24	137.84	98.31	
	6	" " "	5	29620	889	28731	17.3	248.52	55½	137.93	32.7	9395.04	6.25	585.94	723.92	257.1	14493	671.79	98.86	511.80	70.35	77.94	
	19	" " "	6	93720	3936	89784	9.15	411.26	56⅝	233.84	33.5	30076.74	6.25	1879.79	2111.63	473.3	45114	2294.48	305.24	876.50	222.59	219.12	
	30	" " "	7	83900	2853	81047	11.8	478.18	56⅝	270.77	37.7	29554.72	6.25	1847.17	2117.94	524.2	44331	1929.65	258.84	958.38	199.26	239.57	
Nov	20	" " "	8	82900	5803	77097	12.19	467.37	57⅞	268.13	34.55	26637.01	6.25	1664.81	1932.94	514.0	39705	1528.88	258.25	824.41	196.89	206.10	
	27	" " "	9	83880	5786	78092	11.05	431.46	57⅞	249.90	34.38	27257.10	6.30	1717.00	1966.90	520.1	40887	1581.33	260.04	841.77	199.21	210.44	
Dec	9	" " "	10	57460	3833	54127	9.8	265.22	58⅛	154.15	28.8	15580.57	6.50	1013.25	1167.40	303.0	23392	1144.74	196.05	467.45	136.49	116.86	
	21	" " "	11	75600	5094	70006	10.95	383.08	57¼	219.42	29.5	20657.77	6.50	1290.73	1510.15	381.8	30974	1288.81	252.02	646.39	179.05	160.10	
				882280	39926	848354	11.05	4474.18		2622.95	35.58	308686.17		19685.21	22208.16	5443.9	463088	21004.8	2763.98	10957.17	2109.61	1411.46	

DANIEL D. KINLEY
ROUND HILL ROAD
GREENWICH, CONN.

1928 Date	Smelter	No	Mine Smelter No	Weight Gross	Moisture	Net	Silver Assay	Ounces	Price	Value	Lead Assay	Pounds	Price	Value	Gross Value	Ore Freight	Differential	Deductions	Charges	Net from Smelter	Smelting	Royalty
														1516	1516					1516		329
Jan 9	Consolidated Smelting & Refining	10	56	2922			800	318.17	57 1/2	182.95	2765	21994	6.50	142961	161256	4273	329991	158151	299336	618704	260.98	154684
9	" "	12	58	23	54620	5077	720	38.151	57 7/8	220.95	2985	31717	6.50	206160	228285	5672	425295	230.65	380922	701999	266.96	225.50
28	" "	13	22	49	112320	6065	720	37.673	57 1/4	215.68	2960	31412	6.50	204178	225746	5659	471118	258.70	381500	886904	266.15	221.72
21	" "	14	60	85	112060	5939	710	21747	56 5/8	123.16	2970	22044	6.50	143286	155602	3899	330066	157.99	263.94	604991	183.35	151.23
28	" "	15	61	152	77200	3474	570	24.1	56	134.96	2915	22675	6.50	147437	158213	4035	340[illegible]	163.[illegible]	303[illegible]	578[illegible]	[illegible]	144.70
Feb 17	" "	16	62	290	87800	55	600	24[illegible]	57	1[illegible]	3[illegible]	25225	6.50	163[illegible]	175331	4079	378[illegible]	157.59	254.50	726.70	191.84	181.73
April 4	" "	17	63	437	80785	5816	1120	41986	57 1/2	23[illegible]	3400	26452	6.50	158712	175303	4175	376.78	167.58	262.58	708.36	171.85	167.12
14	" "	18	64	635	82620	4878	745	28.9[illegible]	57 1/2	1[illegible]	3500	26970	6.50	175.[illegible]	111249	2839	254.55	103.[illegible]	160.5[illegible]	557.16	121.13	
30	" "	19	65	883	51000	2653	555	13417	57 1/2	77.32	35[illegible]	16770	[illegible]	103[illegible]	210860	5313	464.55	137.75	256.58	1128.07	203.53	
July 18	" "	20	66	1555	85700	4628	733	31942	59[illegible]	188[illegible]	3820	30770	[illegible]	1720[illegible]	247195	5778	518.53	248.29	274.35	1886.63	221.35	
21	" "	21	67	1679	73200	5121	1265	55.7[illegible]	5[illegible]	328.47	3925	34569	[illegible]	214328	165373	3857	360.00	158.64	246.13	842.01	181.40	
24	" "	22	68	1611	76380	4201	780	28150	58[illegible]	1657.3	3325	24000	[illegible]	148800	217775	5153	467.32	201.83	276.22	1164.72	216.55	
26	" "	23	69	1621	74150	5727	960	40972	58 5/8	239.70	3675	31288	[illegible]	173785	348208	6090	531.75	225.67	297.25	1350.20	233.28	
27	" "	24	70	1637	78220	4711	1020	47588	59 7/8	285.39	3800	35457	[illegible]	219833	257763	6097	534.75	229.03	300.85	1487.56	233.60	
Aug 2	" "	25	71	1678	78340	4524	1315	61684	59 7/8	369.33	3800	35650	6.20	221030	288317	4740	585.46	230.11	5802	1748.87	138.65	
6	" "	26	72	1679	58380	642	2680	77369	59 7/8	463.25	2760	39031	6.20	241992	227042	5750	480.54	202.72	286.47	1225.63	185.48	
9	" "	27	73	1717	72740	4730	109	47965	59 1/4	284.19	3640	32036	6.20	198623	257137	6278	544.83	230.77	300.93	1434.78	202.57	
9	" "	28	74	1718	101260	6177	1205	57288	59 1/4	339.43	3820	36322	[illegible]	225196	267443	6136	548.43	231.46	274.56	1442.06	197.72	
13	" "	29	75	1754	78760	4849	1185	55760	58 3/4	327.59	3885	36562	6.20	226684	240758	5881	547.83	227.54	274.05	1478.50	187.72	
13	" "	30	77	1774	74860	4743	1260	56774	59.00	334.97	4065	36655	6.20	227241	246498	5878	517.24	217.12	282.04	1367.39	187.60	
17	" "	31	76	1773	74800	5119	1205	54033	59.00	318.77	3860	34616	6.20	214619	277583	5728	573.47	237.09	277.78	1520.86	191.24	
20	" "	32	78	1805	75620	4781	1510	68583	59.00	404.64	3990	38245	6.20	237119	235817	5925	478.77	197.88	292.89	1301.73	191.12	
21	" "	33	80	1822	75560	4403	1445	64416	58 7/8	379.25	3580	31918	6.20	197872	277058	6317	557.66	235.11	302.00	1587.23	203.76	
23	" "	34	79	1821	101880	6520	1660	79148	58 7/8	465.98	3898	37174	6.20	230460	207117	5023	408.69	177.03	255.84	1160.18	162.04	
28	" "	35	81	1871	81020	3727	1675	64733	59.00	381.72	3525	27246	6.20	168925	222460	5830	450.81	198.25	305.03	1741.1	188.08	
28	" "	36	82	1872	74040	4326	1365	61230	59.00	361.26	3350	30054	6.20	186334	153806	4342	325.76	153.11	286.44	717.05	164.04	
Sept. 13	" "	37	83	1876	82020	4183	655	25492	58 1/8	148.17	2790	21717	6.40	138989	207031	5286	418.05	197.31	275.17	1385.56	170.52	
13	" "	38	84	1927	95260	4007	1285	52754	58 1/8	306.63	3430	27870	6.40	178368	188570	5286	407.96	187.45	275.90	1047.87	170.52	
13	" "	39	85	1988	85260	4519	1008	40673	58 1/8	236.52	3385	27331	6.40	174918	132954	4299	388.51	183.02	278.71	930.71	170.44	
13	" "	40	86	2008	85120	4682	740	29762	57 3/4	171.88	3220	25701	6.40	165766	173941	4119	366.47	175.77	273.93	873.18	163.12	
17	" "	41	87	2009	81560	4323	785	30316	57 3/4	175.07	3165	24446	6.40	156454	158535	4074	333.54	159.91	278.80	764.20	161.36	
17	" "	42	88	2013	80680	3873	780	28035	57 7/8	162.25	2875	22236	6.40	142310	173958	4147	327.76	197.83	267.47	854.87	163.04	
17	" "	43	89	2014	81520	4973	577	22084	57 7/8	127.81	3270	25184	6.40	161177	368225	5906	723.81	283.45	727.9	2491.35	147.52	
18	" "	44	90	2015	74760	5123	1265	102633	57 7/8	593.79	6500	48254	6.40	308896	164555	4270	406.70	111.60	287.73	782.38	169.92	
20	" "	45	91	2049	84960	4758	535	21454	57 7/8	124.63	2965	23780	6.40	152192	163313	4074	345.54	162.97	272.38	800.85	161.36	
24	" "	46	92	2073	80680	4276	625	23876	57 7/8	138.79	3015	23036	6.50	149794	145077	4108	305.66	157.13	292.07	658.44	162.28	
Oct 5	" "	47	93	2126	81340	3660	560	27847	57 7/8	120.36	2625	20391	6.50	132541	142272	4157	299.25	159.13	294.21	626.52	164.14	
6	" "	48	94	2155	82320	4682	570	23163	57	125.97	2570	19950	6.50	129675	169555	4201	344.67	169.35	281.28	850.18	166.36	
6	" "	49	95	2183	83180	5157	885	34915	57 7/8	201.98	2945	22978	[illegible]	149357	189168	4418	382.44	183.21	293.51	972.92	177.36	
11	" "	50	96	2222	85660	5764	905	40421	58.00	234.44	3075	25496	6.50	165724	176601	4466	369.22	178.76	293.40	871.67	176.88	
18	" "	51	97	2273	88440	6368	690	28315	58 1/2	165.64	3000	24621	6.50	160037	147128	4222	296.85	151.07	296.40	674.08	167.20	
24	" "	52	98	2331	86600	5185	905	35257	58 1/8	204.93	2640	19790	[illegible]	128635								
					3570060	174478		1752762		10243.77		1123780		7395571	8419963	202907	17649.36	8334.17	11231.63	43646.32	2617.37	1252.47

DANIEL D. KINLEY
ROUND HILL ROAD
GREENWICH, CONN.

Date	Smelter	Mine Smelter No	No	No	Weight Gross	Pounds	Net	Silver Assay	Ounces	Price	Value	Lead Assay	Pounds	Price	Value	Gold Value	Freight	Price Differential	Deductions	Charges	Net from Smelter	Treatment	Royalty
Oct 24	Forward				3570060	192478	3377582		1752752		1024372		1173280		7395591	8419963	202727	1764926	833447	1123163	4364632	761937	1255247
24	American Smelting & Refg	53	99	2332	88940	6206	82734	1.36	56939	53 1/8	33085	32.15	26920	65	1749800	208075	5576	140380	19089	29056	112326	17985	
30	"	54	100	2367	82240	5792	76448	1.295	49678	57 3/4	28689	32.625	24929	65	1620297	190728	5099	373948	15644	23953	105158	16448	
Nov 13	"	55	101	2431	84760	6222	78485	1.185	46904	57 7/8	26941	32.04	25147	66	1634455	190366	5255	377206	15854	20954	107258	16952	
20	"	56	102	2476	88420	6748	81672	1.15	45236	58	26236	33.30	26197	65	1702280	196516	5296	392962	16397	19982	112240	17084	
19	"	57	103	2504	89500	7339	82161	.95	39026	57 3/4	22522	28.65	23539	65	1530103	175525	4526	350988	14336	27030	90222	17900	
Dec 6	"	58	104	2562	78850	6151	72729	.885	32993	58	19136	27.91	20577	63	1306614	149800	4034	308632	14489	22998	76552	15976	
6	"	59	105	2661	31983	259	31724	2.583	40972	57 7/8	23673	67.21	21321	63	1336297	157300	2527	319832	12421	3061	106158	6396	1099
6	"	60	106	2662	44420	3198	41222	.995	12315	57 7/8	7694	33.2	13685	63	868110	92604	3599	205826	9946	10697	49872	8884	
					4158200	234240	3923960		2076415		1211398		1355595		8570547	9781877	238743	2038398	97658	128074	5123716	877565	1255247

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DANIEL D. KINLEY
ROUND HILL ROAD
GREENWICH, CONN.

Date 1929	Smelter	Mine Bulletin No.	No.	Wet Gross	Wet Tare	Wet Net	Silver Assay	Silver Ounces	Silver Price	Silver Value	Lead Assay	Lead Pounds	Lead Price	Lead Value	Gross Value	Gross Freight	Gross Differential	Gross Deduction	Gross Charges	Net From Smelter	Net Stockline
Jan 7	Anaconda Smelting Mfg	61	107	2608	88720	4791	83929	.885	37558	57 7/8	21549	25075	.650	16291	217961	44480	34204	176021	34034	84788	100414
7	" " "	62	108	2594	86620	4764	81856	1.235	50546	57 7/8	29200	33125	.650	21524	205241	53370	40671	114555	28855	103801	173324
7	" " "	63	109	15	98940	7025	91915	1.315	60434	57 7/8	34923	38125	.665	25336	267557	61341	52565	244886	28630	154074	197188
15	" " "	64	110	34	86660	4940	81720	1.555	63537	57 1/4	36375	40035	.665	26627	255652	68461	49461	239890	23452	151405	173232
15	" " "	65	111	65	96700	5222	91478	1.480	67693	57 9/8	38837	40075	.665	26647	286731	76391	55915	235877	25750	169720	173340
22	" " "	66	112	88	77720	3974	73946	1.525	56383	57 1/2	32401	3980	.665	26467	228137	61561	44146	175523	22274	133602	155844
22	" " "	67	113	111	80000	4720	75280	1.490	56083	57 1/8	32037	3320	.665	22073	198241	44760	37497	160744	27771	106843	16000
22	" " "	68	114	112	82720	4975	77745	1.390	54172	57 1/8	30944	3135	.665	20844	173443	51411	36654	136032	37308	99773	165844
26	" " "	69	115	133	91380	5767	85623	.940	40243	56 7/8	22886	2720	.665	18088	177758	46615	34734	143024	39771	79338	187766
29	" " "	70	116	152	67320	4107	63213	.725	22915	56 5/8	12975	2725	.665	18125	127523	34100	25798	101725	28450	55725	13438
Feb 6	" " "	71	117	178	71980	4463	67517	.655	22112	56 3/4	12548	2990	.665	19885	146978	36135	30282	116843	28799	68169	143876
6	" " "	72	118	209	78180	4843	73277	.665	24365	56 7/8	13858	3790	.665	25203	195615	48443	40978	147172	25286	105982	156214
6	" " "	73	119	210	71580	5512	66068	.600	19820	56 7/8	11273	3325	.665	22111	157360	36615	32252	124745	24736	82571	143616
19	" " "	74	120	219	77380	4760	72620	.685	24886	56 3/4	14123	3764	.665	25031	205456	47198	43203	158253	21726	153345	154716 ✓
19	" " "	75	121	225	80080	5846	74234	.780	28951	56 5/8	16394	4020	.665	26733	214843	47165	44763	170080	19115	124648	16016 ✓
19	" " "	76	122	293	84140	5974	78166	1.225	47876	56 1/8	26870	4560	.685	31236	273771	66447	54066	263477	16220	168440	16828 ✓
19	" " "	77	123	316	86640	6151	80489	1.565	62983	56 00	35270	4330	.685	29661	274013	68445	52280	244480	16698	171764	173281 ✓
23	" " "	78	124	327	94720	5967	88753	.965	42377	55 7/8	23679	3650	.685	25025	245585	58703	48573	237165	21832	144341	18744 ✓
26	" " "	79	125	364	102020	7243	94777	.690	32678	55 7/8	18270	3540	.685	24473	252763	63325	50610	251967	27485	142048	204046 ✓
Mar 7	" " "	80	126	380	100000	6100	93900	.770	36152	55 7/8	20200	3680	.695	25576	260357	62000	51832	257268	27548	148031	90000
9	" " "	81	127	439	102000	5304	96696	.795	48106	56 1/2	27180	4050	.710	28750	305230	80558	58743	299351	28283	179532	20400
16	" " "	82	128	493	101440	4362	97078	1.310	63586	56 1/4	35769	4225	.725	30631	333127	82114	64523	317087	25726	204775	20288
25	" " "	83	129	544	94540	4588	90002	1.120	50401	56 1/4	28350	4205	.725	30486	302734	74469	56769	287716	24751	183605	168908
Apr 3	" " "	84	130	631	95780	5747	90033	.965	43440	56 1/2	24523	3875	.775	30050	274471	75647	52635	299564	23767	181772	19156
3	" " "	85	131	640	102840	5037	97801	1.005	49145	56 1/4	27644	4275	.775	33143	347587	81244	62311	319251	24478	217068	24568
9	" " "	86	132	680	104520	4480	98040	.950	46569	56 00	26078	4010	.775	31086	330763	82157	58771	319820	28236	201156	207704
19	" " "	87	133	747	97420	5748	91672	.950	43544	56 00	24385	3480	.715	22872	252477	60440	47851	246391	28006	144348	19484
May 3	" " "	88	134	857	91360	5482	85878	.885	38001	55 625	20948	3062	.700	18410	205048	55664	39450	268398	27740	110271	18272
3	" " "	89	135	873	90440	5246	85174	1.090	46430	54 625	25362	3545	.700	21407	236767	56071	45301	227938	23738	137732	18088
8	" " "	90	136	903	93500	5610	87890	.940	41308	54 75	22616	3240	.700	19332	221948	57771	42744	221971	27853	122266	18700
13	" " "	91	137	946	95840	4984	90856	1.280	58148	54 50	31670	3734	.700	23422	267172	59142	50889	254455	22168	143196	19168
21	" " "	92	138	994	84780	4493	80287	1.040	41749	54 375	22701	3670	.700	20625	228956	55256	44177	221538	26133	130068	16756
23	" " "	93	139	1003	76200	4267	71933	.805	28953	54 00	15634	3020	.700	15206	167675	38148	32584	137277	25104	88082	15240
28	" " "	94	140	1047	92800	4362	88438	1.085	47978	53 625	25728	3285	.700	20652	229032	57541	43578	227591	24776	129158	18560
June 10	" " "	95	141	1144	99720	5154	93566	1.020	47923	52 375	25100	3530	.700	23310	257290	61145	49785	267273	32257	142321	17824
15	" " "	96	142	1174	30640	248	20372	2.550	25974	52 375	13604	5670	.700	11557	94461	1631	17327	78124	3178	63783	11128
15	" " "	97	143	1195	66640	2066	64574	1.270	41004	52 375	21476	3520	.700	22730	180586	5264	34095	170910	20727	102123	13328
18	" " "	98	144	1207	87580	3854	83726	1.510	63213	52 75	33345	4010	.700	23574	268363	6717	50361	246977	22773	161956	17516
19	" " "	99	145	1230	85340	4488	80902	1.270	52181	53 00	27656	3400	.700	17549	220205	5271	41260	173923	24714	167654	17068
					3386620	174536	3197084		1729439		964276			1169197				8133393		9097669	2253341	1753872	9117562	9867933	5213758	4777974

DANIEL D. KINLEY
ROUND HILL ROAD
GREENWICH, CO

Date 1927	Smelter	No.	No.	Mine or Smelter No.	Weight Gross	Moisture	Net	Silver Assay	Ounces	Price	Value	Lead Assay	Pounds	Price	Value	Gold Assay	Ounces	Value	Gross Value	Price Freight	Differential	Deductions	Charges	Net from Smelter	Hauling
	Forward				33861.20	1.14534	31720.84		1.2734.39		964276		1,169,197		81333.93				70776.69	2253.94	1753.82	9175.52	786.33	52137.58	677.26
July 3	Amer. Smelt. & Ref. Co.	100	146	1309	58060		52784		82776		52.25		39784		30276				25205.56		6757	454.44		21893	152.25	176.12
3	" " "	101	147	1325	72260		57720		86540		52.25		30182		33534				26470		7289	503.01		21504	157474	184.52
9	" " "	102	148	1360	20620		165		20455		518.75		17773		11659				7938.6		1629	174.88		7755	3037	48.17	41.04
9	" " "	103	149	1361	68540		3358		65182		518.75		26876		25877				20801.5		5445	388.15		19065	12425	126.70	137.08
15	" " "	104	150	1411	90400		6057		84343		521.25		29895		27622				22054.4		5605	411.33		20644	29899	121.416	180.80
18	" " "	105	151	1429	89420		4739		84681		528.75		28880		33087				25188.0		5544	475.55		22447	28960	149.70	178.84
July 24	" " "	106	152	1448	89940		5127		84813		525.0		26604		33713				27562		5576	505.49		23966	30956	147087	179.88
26	" " "	107	153	1469	80320		4700		75420		525.25		23615		26661				17991.1		4980	399.91		14325	27225	115164	160.[illegible]
29	" " "	108	154	1489	88800		4884		83916		52[illegible]		32[illegible]		36251				24469.4		7015	543.76		25865	25[illegible]67	171852	1[illegible]
July 30	" " "	109	155	1[illegible]	77904		327[illegible]		73265		52[illegible]		45[illegible]		31723				21413.0		6[illegible]	475.85		22[illegible]	23114	158467	154.08
Aug 1	" " "	110	156	1512	88260		47[illegible]		833[illegible]3		227		74564		52[illegible]		43.65		36368		6973	545.[illegible]		25003	22744	183470	176.52
6	" " "	111	157	1537	84400		4726		79674		19.50		77682		52[illegible]		[illegible]		40880		6[illegible]	51328		23697	21273	170[illegible]	168.80
6	" " "	112	158	1550	92240		5258		86982		17.75		74695		52.25		47.55		41360		7287	620.40		27867	20614	178730	184.48
15	" " "	113	159	1589	94880		285		94595		42.65		201773		52.50		64.05		105030		7476	708.82		38511	11115	361566	189.76
15	" " "	114	160	1600	95960		4990		90970		15.65		71184		52.50		47.90		37372		7581	668.63		29806	13740	212384	191.92
15	" " "	115	161	1624	97580		4684		92896		14.45		67117		52.50		47.60		35236		7707	663.27		29818	17229	208878	195.16
21	" " "	116	162	1634	97400		4870		92530		11.60		51354		52.50		47.55		26760		7695	659.77		29645	17334	199876	194.80
24	" " "	117	163	1675	85940		4211		81729		13.25		54145		52.625		48.45		28474		6789	573.75		26547	19655	181723	177.88
27	" " "	118	164	1695	97440		4386		93054		15.75		74226		52.625		48.05		39041		7699	656.73		29570	20968	208377	194.92
30	" " "	119	165	1702	103360		5478		97882		13.55		66315		52.625		48.78		34878		8165	711.34		31820	19712	222200	206.72
30	" " "	120	166	1712	105000		5250		99750		13.35		66583		52.625		50.39		35039		8275	757.11		33558	19900	236492	210.00
Sept 5	" " "	121	167	1740	73040		4745		68295		14.10		62248		52.625		47.50		32758		7350	655.59		27[illegible]	18123	205898	186.08
5	" " "	122	168	1741	81320		782		80538		34.774		140112		52.625		61.60		73734		7[illegible]	1[illegible]4.37		40881[illegible]	6434	744463	31[illegible]	10655	281781	162.64
5	" " "	123	169	1747	104360		4676		99684		14.85		74478		52.625		50.50		39205		8244	754.25		33461	17383	240368	208.72
6	" " "	124	170	1768	87040		4700		82340		15.15		62372		52.125		48.30		39770		6876	596.55		26[illegible]	17043	189052	174.08
10	" " "	125	171	1790	101540		5382		96158		15.55		74763		52.25		45.25		39044		8022	662.76		27[illegible]	22114	208359	200.38
12	" " "	126	172	1815	75620		4685		70935		13.85		62972		51.75		40.70		32598		7554	558.88		26[illegible]	24890	172579	191.74
18	" " "	127	173	1848	44780		2114		42666		12.60		27005		50.875		40.20		13738		3554	258.48		13422	12344	77784	89.96
18	" " "	128	174	1849	51040		865		50175		38.00		71099		50.875		61.05		36171		5905	511.05		25079	7387	172516	102.08
21	" " "	129	175	1898	92260		5649		86597		17.9[illegible]		178821		50.875		43.25		37606		6[illegible]	2[illegible]7.91		29[illegible]83	7315	364097	266[illegible]	27[illegible]	185890	185.20
25	" " "	130	176	1920	87420		5595		81825		16.35		66891		50.00		33.79		32116		6[illegible]90	221600		25537[illegible]	6996	481774	233[illegible]	229[illegible]	152485	174.84
Oct 18	" " "	131	177	1948	97460		6629		90831		13.75		62460		50.00		32.40		29481		6[illegible]40	203318		23454[illegible]	6044	442218	256[illegible]	281[illegible]	131940	174.46
25	" " "	132	178	2146	79600		5731		73869		17.15		63342		49.75		41.20		30470		6[illegible]90	210243		24175[illegible]	6288	440438	23[illegible]	158021	148357	153.20
Nov 19	" " "	133	179	2228	47060		3482		43578		21.10		45974		48.75		38.45		16753		6[illegible]75	113096	.05	.108	2178	138203	1[illegible]	43[illegible]	241[illegible]	108.07	84794	9412
19	" " "	134	180	2259	58040		4252		53788		15.40		41253		44.85		34.65		18267		6[illegible]25	114293	.025	.194	3892	138601	1[illegible]	37[illegible]	26200	176.16	76483	11600
Dec 20	" " "	135	181	2264	95360		5149		90211		10.02		43366		49.00		25.70		22206		6[illegible]25	201231	.05	.223	4510	228997	1[illegible]	59[illegible]	46278	1[illegible]	124839	19072
					6430360		351142		6079418				4289874						2243343			1285477		16668	33400	1913133	45[illegible]	32[illegible]	1[illegible]	1[illegible]	1145218	1[illegible]

DANIEL D. KINLEY
ROUND HILL ROAD
GREENWICH, CONN.

Date 1920	Smelter	Our No	Mine Smelter No	Weight No.	Weight Gross	Weight Moisture	Weight Net	Silver Assay	Silver Ounces	Silver Price	Silver Value	Lead Assay	Lead Pounds	Lead Price	Lead Value	Gold Assay	Gold Ounces	Gold Value	Gross Value	Price Freight	Price Differential	Price Deductions	Price Charges	Net from Smelter	Hauling
Feb 6	Amer Smelt & Ref Co	136	182	1153	59880	3832	56048	1255	3351.70	44.25	13562	40.80	22868	6.25	1429.25				15684.87	37.20	34.302	7.66	14463	13162	92074	11976
May 9	" "	137	183	668	95040	3982	91058	2665	7208.66	42.812	51541	53.60	48801	6.50	2684.00	0.670	3.346	6.70	32059.11	75.08	73.200	3.06	22469	16697	201174	17820
Aug 11	" "	138	184	1155	90160	1893	88267	1615	7123.75	34.50	24589	53.95	47[illegible]	[illegible]	2589.95	[illegible]	[illegible]	[illegible]	28358.4	71.23	726.26	3.19	21438	14479	166189	15778
Sept 26	" "	139	185	1271	86960	2609	84351	1764	7434.34	36.812	27410	50.25	42[illegible]	[illegible]	2331.23	[illegible]	[illegible]	[illegible]	26093.23	68.70	611.68	2.34	18411	15077	119557
Oct 23	" "	140	186	1341	25060	1873	23187	135	1666	35.[illegible]	580	[illegible]	1218	[illegible]	63.6	[illegible]	7.73	154.6	2240.7	5.96	18.25	.19	7049	8863	
" "		141	187	1362	9060	607	8453	88	37.19	36.[illegible]	1336	26.40	2147	[illegible]	109.4	3.46	1.46	2.91	1557	5.64	30.30	13.23	7300	7045	
Nov 7	" "	142	188	1410	53940	2618	51322	1589	6485.79	36.50	23642	56.6	16[illegible]	5.70	2[illegible]	[illegible]	[illegible]	[illegible]	25857.6	62.3	67.294	2.34	18424	16096	11584
Dec 2	" "	142	188	1410	"	"	"	"	"	"	"	20	"	"	374	"	"	"	374	"	"	"	"	374	"
		143	189	1062	18580	3143	15437	1276	4809.1	32.812	15780	14.1	3104	5.10	158.20		1.55		1779.60	39.68	44.809	1.284	16178	9172	10804
					5892.60	20461	50881.3		44958.7		166626		24462.8		13942.80		1253	24.068	148857.69	379.80	358.920	134.856	97522	86961.5	98877

DANIEL D. KINLEY
ROUND HILL ROAD
GREENWICH, CONN.

1931		Mine No	Smelter No	Smelter No	Weight Gross	Weight Moisture	Weight Net	Silver Assay	Silver Ounces	Silver Price	Silver Value	Lead Assay	Lead Pounds	Gold Price	Gold Value	Gold Assay	Gold Ounces	Gold Value	Gross Value	Freight	Differential	Deductions	Charges	Net from Smelter	Trucking
Jan 29	Omer Smelting Co	144	190	69	91360	2664	85696	.685	2932.5	.30	8805	36.85	30722	4.75	1469.29	.0375	4.55	2.50	1647.34	46.14	441.52	106.95	260.63	647.57	125.62
Oct 13	" " "	145	191	135	48160	2312	45848	17.1	392.00	.26.18	10241	36.8	16872	4.50	75.84	.06	1.375	27.50	888.15	27.98	242.76	33.20	136.34	396.08	60.40
							131544																		

DANIEL D. KINLEY
ROUND HILL ROAD
GREENWICH, CONN.

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U. S. Government Messenger Envelope

Standard Form No. 65 Rev. (1957)
Promulgated by Bureau of the Budget Circular A-33 (Rev.)

65-104

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~~Charles R. Herbert~~ Room 4209 ~~[illegible]~~	STOP	Maps - Strets	STOP
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~~USGS~~ ~~LIBRARY~~	STOP		STOP
~~R. P. Williams~~ ~~Rm. 4210 GSA~~	STOP		STOP
~~Family Income~~ ~~Rm 5226 Int.~~	STOP		STOP
~~George H. [illegible]~~ ~~4459 Int. Bldg~~	STOP		STOP
~~Thor Kalegaard~~ ~~Rm 4236, GS Bldg~~	STOP		STOP

Use other side

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MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
7/28/67	Kirkpatrick	120
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		220
		~~120~~

JUL 28 1967

Mr. Daniel D. Kinley
Round Hill Road
Greenwich, Connecticut 06830

Re: OME-6511 (Silver)
Daniel D. Kinley
Jo Dandy and Santa Anita Mines
Broadwater County, Montana

Dear Mr. Kinley:

This is to acknowledge receipt of your letter dated July 18, 1967, regarding a new application for financial assistance to explore the Santa Anita mine from the Jo Dandy mine.

We will be glad to reopen this application under the same docket number (OME-6511) upon receipt of the information necessary to complete your original application and to update information which is now out of date, such as copies of letters to and from banks within 90 days preceding the filing of your new submittal, exploration plans, and cost estimates.

Some of the information necessary to meet the requirements of the OME program was lacking in the application, as we explained in our previous correspondence with you. Unless all of the information requested under the seven items listed on the back of the application form is submitted, we cannot complete our review of the application. Instructions on what is required are complete. Material already submitted need not be duplicated except as necessary to update the original application. Reference to the original application may be made for information that is still valid.

We note that you have not submitted the commencement date of the lease agreement with Geochem Development Company.

Evidence has not been submitted to show that the values of eligible metals may be expected to constitute the principal value of material in the target area. Records of production from the Santa Anita mine submitted with your letter dated July 18, 1967, show that lead constitutes the principal value of ore shipped. Records of recent shipments from the Jo Dandy mine are not evidence of the expected values at the Santa Anita mine.

23263

We also note that the map of the property and mine workings does not show workings of the Santa Anita mine in relation to the proposed exploration from the Jo Dandy mine. Only a portion of the Santa Anita claim is shown on the plan map, and no claim boundaries are shown on the map and section of the Santa Anita mine. A map showing all of the claims and mine workings in both mines should be submitted.

We understood that the original proposal was to crosscut to the Santa Anita mine from the Jo Dandy mine. You mention in your recent letter plans to drift to the target area. Please explain exactly what your present plan is, and indicate the proposed project on the map requested in the previous paragraph.

A set of application forms and of Lien and Subordination Agreements forms are enclosed for your use.

Submittal of the information necessary to complete and to update your application should not be construed as assurance that the Government will prepare an exploration contract.

Sincerely yours,

FRANK E. JOHNSON (gla)

Frank E. Johnson
Chief, Office of
Minerals Exploration

Enclosures

cc: Director's Reading File
Division File
Economic Geology File
OME Docket
OME Reading File
OME Region I w/cy incoming letter
Mr. Kirkemo

HKirkemo/gla 7-28-67

DANIEL D. KINLEY
ROUND HILL ROAD
GREENWICH, CONN.

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O. M. E.
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July 18, 1967

Mr. Frank E. Johnson
Chief, Office of Minerals Exploration
United States Department of the Interior
Washington 25, D. C.

Re: OME-6511 (Silver)
Daniel D. Kinley
Jo Dandy and Santa Anita Mines
Broadwater County, Montana

Dear Mr. Johnson:

This is in reference to my correspondence with you last October about an OME loan for extending the drift from the 500 foot level of the Dandy mine to the nearby Santa Anita in Broadwater County, Montana. At that time we were not able to proceed with the drift and, I believe, that application was withdrawn. Now we are in position to proceed with extending this drift and I would like to submit a new application for this loan.

Since last October we have completed the de-watering of the Dandy mine and now have it in production. Currently we are shipping an average of 8 to 10 tons a day from the 600 foot level of this mine. The ore is running approximately 30% lead and over 30 ounces of silver per ton, as indicated by the enclosed smelter returns. Lots #2 and #3 cover ore tailing from the cleanup operation in the mine. Lots #4 and #5, which have a higher percent of lead and silver, are new ore taken from the winze on the 600 foot level. The mine is being operated by lessors.

In addition we have obtained records of production from the Santa Anita mine, which are enclosed. This ore was taken out of the surface workings. The map of these surface workings was included in the original application. Presumably there will be 500 to 600 feet of this ore which can

Copy to OME Region I without enclosures

be mined up from the drift which we propose to drive over from the Dandy. Currently we are estimating 400 feet of drift which must be completed to reach the target zone at Santa Anita. We are estimating $30. per foot of drift for a total cost of $12,000, but we would like to allow $3,000 for contingencies for a total of $15,000 which we believe we should have to complete the drift.

Please let me know whether it is feasible to obtain an OME loan for the purpose of extending this drift, and what additional steps we need to take, if any, to apply for the loan.

Sincerely,

D. D. Kinley

Daniel D. Kinley
emn

MME Form 7
(2/63)

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Date	Surname	Code
1/30	Johnson	110
		220

November 30, 1966

Memorandum

To: The File

From: Harold Kirkemo, Office of Minerals Exploration

Subject: OME-6511 (Silver)
Daniel D. Kinley
Jo Dandy and Santa Anita Mines
Broadwater County, Montana

The Applicant has not replied to our letter of October 14, 1966. Accordingly, the subject docket is referred to the inactive file and considered as having been withdrawn.

Harold Kirkemo

Harold Kirkemo

cc: Director's Reading File
Division File
Economic Geology File
OME Reading File
Region I
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MMerrithew/mm (11/30/66)

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MME Form 7
(2/63)

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Date	Surname	Code
10/13	Kirkemo	130
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OCT 1 4 1966

Mr. Daniel D. Kinley
Round Hill Road
Greenwich, Connecticut

Re: OME-6511 (Silver)
Daniel D. Kinley
Jo Dandy and Santa Anita Mines
Broadwater County, Montana

Dear Mr. Kinley:

Thank you for your letter dated October 10, 1966, stating that you expect to start operations in the Dandy shaft next week, and requesting another 30 days for submittal of additional information to complete your OME application.

We will allow until November 30, 1966, for you to furnish the required information. Thereafter, your application will be considered as withdrawn and will be retained in our files in accordance with the General Instructions on the application form. If you wish to submit another application after November 30, you need only file information necessary to update data previously submitted and refer to the original application.

We wish you success with the work you are undertaking next week.

Sincerely yours,

FRANK E. JOHNSON

Frank E. Johnson
Chief, Office of
Minerals Exploration

cc: Director's Reading File
Division File
Economic Geology File
OME File
OME Region I w/cy incoming letter
OME Reading File
Mr. Kirkemo

HKirkemo/gla 10-13-66

23263

DANIEL D. KINLEY
ROUND HILL ROAD
GREENWICH, CONN.

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| 120

October 10, 1966

Mr. Frank E. Johnson, Chief
Office of Minerals Exploration
United States Department of Interior
Washington 25, D. C.

Dear Mr. Johnson:

Re: OME - 6511 (Silver)
Daniel D. Kinley
Jo Dandy and Santa Anita Mines
Broadwater County, Montana

I am sorry to be so late in replying to your letter of September 21st. My position requires that I be out of the country for considerable periods of time and I just returned yesterday from a two week trip to Europe. Your letter arrived immediately after I had left.

We have not progressed as rapidly as we had hoped we might in the exploration of the Dandy. During the summer we have gotten our equipment together and this has proven more difficult than we had anticipated because the type of equipment we have needed has become somewhat scarce in recent months with increased activity, particularly in the Western mining area. You may be familiar with this.

We now have all of our equipment in place and expect to start operation down the Dandy shaft early next week. We will have to recondition the shaft and de-water the mine, and as I understand it, it is difficult to put a time schedule on this since we do not know how much pumping will be required. However, it could easily be another thirty days before we will be in a position to do the exploration of the Dandy which is needed.

I can quite understand that you need to bring this application to some kind of conclusion. If you are unable to keep it open any longer, please return it to me and I will certainly understand. I would hope that we can simply re-apply whenever we have the necessary information. On the other hand, if you can hold it open a bit longer, while we do the exploration at the Dandy we would very much appreciate it.

Sincerely,

D. D. Kinley

(cc: OME Region I)

MME Form 7
(2/63)

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Date	Surname	Code
9/21/66	Kirkemo	120
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SEP 21 1966

Mr. Daniel D. Kinley
Round Hill Road
Greenwich, Connecticut

Re: OME-6511 (Silver)
Daniel D. Kinley
Jo Dandy and Santa Anita Mines
Broadwater County, Montana

Dear Mr. Kinley:

This is to inquire whether or not the work you planned on the Jo Dandy property this summer disclosed the information needed to complete your application for financial assistance under the OME program.

If so, and if you wish to submit this information, we will be glad to review it.

Please advise at your earliest convenience. We cannot keep an application in an incomplete status indefinitely.

Sincerely yours,

FRANK E. JOHNSON

Frank E. Johnson
Chief, Office of
Minerals Exploration

cc: Director's Reading File
Division File
Economic Geology File
OME Reading File
Region I
Kirkemo

HKirkemo/mm (9/21/66)

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MME Form 7
(2/63)

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Date	Surname	Code
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JUL 6 1966

Mr. Daniel D. Kinley
Round Hill Road
Greenwich, Connecticut

Re: OME-6511 (Silver)
Daniel D. Kinley
Jo Dandy and Santa Anita Mines
Broadwater County, Montana

Dear Mr. Kinley:

Thank you for your letter of June 29, 1966, enclosing a copy of a lease on the Santa Anita mine, and advising us that you plan to start work on the Jo Dandy property sometime this month.

If the geological, sample, and assay information obtained from your new work qualifies the properties for further consideration under the OME program, we will be glad to continue processing your application upon receipt of the new and up-to-date data.

Submittal of additional information should not be construed as a commitment by the Government to grant an exploration contract.

Sincerely yours,

FRANK E. JOHNSON

Frank E. Johnson
Chief, Office of
Minerals Exploration

cc: Director's Reading File
Division File
Economic Geology File
OME Docket
OME Region I w/cy letter 6/29/66
HKirkemo
OME Reading File
HKirkemo/gla 7-6-66

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DANIEL D. KINLEY
ROUND HILL ROAD
GREENWICH, CONN.

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JUL 1 1966
INITIALS | CODE

June 29, 1966

Mr. Frank E. Johnson, Chief
Office of Minerals Exploration
United States Department of the Interior
Office of Minerals Exploration
Washington 25, D. C.

Dear Mr. Johnson:

Re: OME-6511 (Silver)
Daniel D. Kinley
Jo Dandy and Santa Anita Mines
Broadwater County, Montana

You will recall that I asked you to keep the above file open while we worked on some of the difficulties which you had brought up in regard to the lease application. This is to let you know that we have now obtained a firm lease on the Santa Anita mine. I am enclosing a copy of this lease.

About the middle of July we expect to start work on the Dandy, which is adjacent to the Santa Anita. During the course of this work we expect to get further information on the mineral content both at the Dandy and the Santa Anita and I will keep in touch with you as this develops -- so that our application can be given further consideration.

Sincerely,

D. D. Kinley

Daniel D. Kinley

Enclosure

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MME Form 7
(2/63)

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Mr. Daniel D. Kinley
Round Hill Road
Greenwich, Conn.

JUN 3 0 1966

Re: OME-6511 (Silver)
Daniel D. Kinley
Jo Dandy and Santa Anita Mines
Broadwater County, Montana

Dear Mr. Kinley:

We have not heard from you since your letter of March 30, 1966. Will you please advise us when we may expect to receive the necessary data so that we may continue processing your application.

We wish to cooperate with you fully in allowing ample time to furnish the required information, but we cannot hold an application indefinitely. Therefore, if we do not receive the requested data within thirty days from the date of this letter, we shall consider the application as having been withdrawn.

If the application is withdrawn and you wish to reopen this case sometime in the future, you may do so by submitting new application forms (MME Form 40), new bank letters dated within the preceding 90 days, referring to this OME docket number, and furnishing the information previously requested together with any new information that you think might be helpful.

Sincerely yours,

FRANK E. JOHNSON (gla)

Frank E. Johnson
Chief, Office of
Minerals Exploration

cc: Director's Reading File
Division File
Economic Geology File
OME Reading File
Region I

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MME Form 7
(2/63)

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APR 4 1966

Mr. Daniel D. Kinley
Round Hill Road
Greenwich, Conn.

Re: SME-6511 (Silver)
Daniel D. Kinley
Jo Dandy and Santa Anita Mines
Broadwater County, Montana

Dear Mr. Kinley:

This is to acknowledge receipt of your letter of March 30, 1966. As requested, we will keep your file open until you can determine whether a lease commitment on the Santa Anita mine can be obtained and to allow time for you to gather data on the silver content of slag at the Santa Anita mine.

If these problems can be solved satisfactorily, we will be glad to give further consideration to your application.

Sincerely yours,

FRANK E. JOHNSON

Frank E. Johnson
Chief, Office of
Minerals Exploration

cc: Director's Reading File
Division File
Economic Geology File
OME Docket
OME Reading File
Region I w/cy of incoming letter
Mr. Kirkemo

HKirkemo/mm (4/4/66)

23263

DANIEL D. KINLEY
ROUND HILL ROAD
GREENWICH, CONN.

OFFICIAL
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O. M. E.
RECEIVED

March 30, 1966

Mr. Frank E. Johnson, Chief
Office of Minerals Exploration
United States Department of the Interior
Washington 25, D. C.

Dear Mr. Johnson: Re: OME-6511 (Silver)
Daniel D. Kinley
Jo Dandy and Santa Anita Mines
Broadwater County, Montana

I am sorry to be so long in answering yours of February 28th. As my wife explained to you in her letter of March 20th, I have been out of the country since about the middle of February and have just returned.

In your previous letter to me you indicated a number of things in the application which needed to be corrected in order to make our project eligible for federal funds. We are working on this and expect to resubmit the application. We have not as yet been able to complete our negotiations for the lease on the Santa Anita. During the negotiations the partners, who own this mine, have agreed to disagree and they have now changed their arrangement so that one of them is the sole owner. I expected that when I returned, I would have from them a signed copy of their proposed signed lease arrangements, but I have not received it. It may be some time before we are able to complete this application. The biggest problem that we are confronted with is the silver content of the Santa Anita mine. We may need additional geological information in order to give you further data on this silver content. Naturally, we will not attempt to develop this until we are sure we have the definite lease commitment on the Santa Anita.

I would appreciate it if you will keep this file open for the time being. We will let you know if there is any decision to abandon the project.

Sincerely,

D. D. Kinley

DANIEL D. KINLEY
ROUND HILL ROAD
GREENWICH, CONN.

6511

March 20, 1965

Mr. Frank E. Johnson
Chief, Office of Minerals Exploration
United States Department of the Interior
Office of Minerals Exploration
Washington 25, D. C.

Dear Mr. Johnson:

We have received your letter of February 28th requesting further information regarding our application. My husband is out of the country, but he will write to you when he returns.

Sincerely yours,

Margery R. Kinley

(Mrs.) D. D. Kinley

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MME Form 7
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FEB 28 1966

Mr. Daniel D. Kinley
Round Hill Road
Greenwich, Conn.

Re: OME-6511 (Silver)
Daniel D. Kinley
Jo Dandy and Santa Anita Mines
Broadwater County, Montana

Dear Mr. Kinley:

On January 11, 1966, we wrote you outlining certain information which was necessary to continue the processing of your application. To date, we have not had a reply to our letter. Will you please inform us of your plans regarding the application. If you have decided not to pursue it further, will you please so inform us.

Sincerely yours,

(signed) FRANK E. JOHNSON

Frank E. Johnson
Chief, Office of
Minerals Exploration

cc: Director's Reading File
Division File
Economic Geology File
OME Docket
OME Reading
Region I

MMerrithew/mm (2/25/66)

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OFFICIAL FILE COPY

Date	Surname	Code
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JAN 1 1 1966

Mr. Daniel D. Kinley
Round Hill Road
Greenwich, Conn.

Re: GMK-6511 (Silver)
Daniel D. Kinley
Jo Dandy and Santa Anita Mines
Broadwater County, Montana

Dear Mr. Kinley:

We regret the delay in not responding previously to your application and subsequent letters. The backlog of reports resulting from field examinations and contract activities in the late summer and fall has required our full-time attention and only recently have we been able to devote time to applications received in this period. We have been able to study your application in the past few days and offer the following comments.

The application as submitted is incomplete because you have not established any right to the Santa Anita property which you propose to explore from the Jo Dandy mine. Your lease agreement with Gooches Development Company states that "the lessee is attempting to obtain a lease or other arrangement concerning the Santa Anita lode mining claim...." No document was submitted to indicate that you subsequently secured the desired lease or had made other arrangements. Unless you can do so, we cannot process your application further. You must have rights to the property you propose to explore as required in the application under Item 2.

Incidentally, the commencement date of the lease agreement with Gooches Development Company is not entered on the copy submitted with the application.

One of the criteria considered in determining eligibility of a property for GMK assistance is that one or more of the eligible minerals must constitute the predominant value of the ore. At the Jo Dandy and Santa Anita mines, the value of the lead content far exceeds the value of the silver content. Unfortunately lead is not eligible for GMK assistance.

The expense of the extensive rehabilitation and repair work necessary to reach the face of the south crosscut from the Jo Dandy mine cannot be charged to an OME contract. Unlike the DMEA program, the OME program does not permit the Government to share in the costs of extensive preparatory work. The funds allotted to the program are intended mainly for new exploratory work. The Applicant, therefore, has to assume on his own account the costs of preparing old workings for reentry.

In summary, we cannot further process your application until the target area, the Santa Anita property, is leased or otherwise secured by you; evidence is submitted that silver occurs in quantities sufficient to constitute the principal value of the ore; and that you can rehabilitate the old workings on your own account.

If these problems can be solved satisfactorily, we will be glad to give further consideration to your application.

Sincerely yours,

(signed) FRANK E. JOHNSON

Frank E. Johnson
Chief, Office of
Minerals Exploration

HKirkemo/mm (1/11/66)
cc: Director's Reading File
Division File
Economic Geology File
OME Docket
OME Reading File
Region I w/cy of incoming ltr
Kirkemo

DANIEL D. KINLEY
ROUND HILL ROAD
GREENWICH, CONN.

OFFICIAL COPY
O. M. E.
RECEIVED
JAN 3 1966
INITIALS CODE
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December 29, 1965

Dear Mr. Johnson: Subject: OME-6511

On August 10th we submitted an application for exploration assistance to your office at Spokane, Washington. On October 9th you wrote me that this application had been assigned Docket No. OME-6511. On November 3rd I wrote you giving change of my address.

The reason for this letter is to ask if it would be possible for you to give me any kind of time schedule on which I will receive a reply as to the government's willingness to participate in this venture. We are attempting to develop our plans, both financial and from the standpoint of personnel needed for the management of the mine operation, for 1966. At this point we don't know whether it will be several months before you will be able to act on the application or whether some kind of reply will be forthcoming sooner.

It will be most helpful to get some kind of indication on this.

Sincerely,

D. D. Kinley

Mr. Frank E. Johnson
Chief, Office of
Minerals Exploration
United States Department of Interior
Office of Minerals Exploration
Washington 25, D. C.

DANIEL D. KINLEY
ROUND HILL ROAD
GREENWICH, CONN.

OFFICIAL
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O. M. E.
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November 3, 1965

Dear Mr. Johnson:

This is to thank you for assigning Docket No. OME-6511 and to ask that you please make note of my new address, as follows:

Round Hill Road
Greenwich, Conn.

Sincerely,

D. D. Kinley

Mr. Frank E. Johnson
Chief, Office of
Minerals Exploration
United States Department of Interior
Office of Minerals Exploration
Washington 25, D. C.

IME[illegible] Form 7
(1[illegible]

OFFICIAL FILE COPY

Date	Surname	Code
10/27	[illegible]	110
	[illegible]	120
	[illegible]	120M

October 26, 1965

Memorandum

To: The File

From: Harold Kirkemo, Geologist

Subject: OME-6511 (Silver)
Daniel D. Kinley
Jo Dandy and Santa Anita Mines
Broadwater County, Montana

The Applicant proposes a 3-stage project costing $68,400 to explore the downward extension of an ore shoot in the Santa Anita mine by extending a drift from the adjoining Joe Dandy mine. The project would include the following stages:

1. Construct building for hoist and storage.

own amount

2. Repair Jo Dandy shaft from surface to water level at about 400 feet. Dewater and repair shaft to below the 500-foot level. Map and survey 500-foot level.

3. Repair the ± 1,200-foot crosscut on the 500-foot level south toward the Santa Anita mine. Extend the crosscut an additional 350 feet or more to intersect the downward extension of the ore shoot exposed in the workings of the Santa Anita mine.

The application as submitted is incomplete because the Applicant's rights to the land involved have not been established. Financial eligibility has to be reestablished. The Government will have to decide whether the ratio of silver to lead (1:3) disqualifies the application, and whether the amount of funds for rehabilitation and necessary preparatory work is disproportionate to the amount requested for exploration.

8623

The Jo Dandy and Santa Anita mines are located about 9½ miles by road southwest of Radersburg, Montana, in section 28, T. 5 N., R. 1 W. Both mines have a modest production record--the Jo Dandy mine having yielded through 1931 about 120,000 tons of ore averaging 34 percent lead and 11.9 ounces silver per ton, and the Santa Anita mine a lesser tonnage averaging 23 percent lead, 1.3 percent zinc, and 5.7 ounces silver per ton.

The mines are developed along cross fractures which intersect quartzite, limestone, and dolomite members of the Quadrant Formation (Pennsylvanian age). Pipelike ore shoots occur at the intersections of the cross fractures with certain limestone and dolomite members of the formation. Individual ore shoots in the Jo Dandy mine range from 5 to 75 square feet in horizontal plan. The structure at the Santa Anita mine is reported to be a persistent vein ranging from 4 to 18 inches in width with irregularly shaped pipes in certain dominantly dolomitic beds. The vertical extent of the ore shoots has not been determined. The predominant vein minerals are hematite, limonite, cerussite, manganese oxides, and lesser amounts of wulfenite, pyrolusite, smithsonite, galena, sphalerite, and siliceous material.

The Field Officer notes that the commencement date of the lease on four of the Jo Dandy claims is omitted and that Lien and Subordination Agreements are lacking. Neither a lease nor Lien and Subordination Agreements is included for the Santa Anita claim.

The 90-day eligibility for the bank loan requests will have expired by November 1, 1965.

The present lessor, GeoChem Development Co., of the Jo Dandy claims applied for exploration aid under the DMEA program on July 1, 1957, (DMEA-4776, lead, zinc). The same exploration target was proposed, and the estimated cost was $46,936.00. The Applicant would have undertaken on his own account the shaft and tunnel repair, dewatering the shaft, and surface plant construction. The owners of the Santa Anita claim at that time refused to sign a Lien and Subordination Agreements form for the Applicant. In accordance with the Applicant's request, DMEA-4776 was withdrawn from further consideration on January 3, 1958.

The present application as well as the previous one does not include a map showing the location of the Santa Anita mine workings on the Santa Anita claim. Such a map is essential if any work is planned from the Jo Dandy mine.

HKirkemo/mm

Harold Kirkemo

Harold Kirkemo

cc: Director's Reading File
Division File
Economic Geology File
Kirkemo
OME Reading File

October 19, 1965

Mr. Daniel D. Kinley
8 Robinson Circle
Winchester, Massachusetts 01890

Subject: OME-6511

Dear Mr. Kinley:

Your application for exploration assistance, dated August 10, 1965, submitted to our office at Spokane, Washington, has been assigned Docket No. OME-6511.

Please identify all future correspondence relating to your application by this docket number.

Sincerely yours,

Frank E. Johnson
Chief, Office of
Minerals Exploration

Copy to Region I

Sierra Chiquita - Tailings

			Cu	Zn	Pb	Cu	
5-11-[illegible]	Lloyd Johnson	30460	.01	3.1	17.3	.05	
[illegible]	[illegible]	75040	.03	5.4	21.6	—	
6-13-26	[illegible]	55700	.025	6.8	23.79	—	
"		10500	.025	13.4	34.0	—	
[illegible]	"	48900	.06	3.85	18.5	.10	
5-13-[illegible]	[illegible]	86940	.0075	1.075	3.05	.05	
"	"	112620	.0125	1.05	3.9	.03	Dumps
5-23-[illegible]		87360	.0125	1.15	3.9	.05	
12-23-[illegible]	Clarke	93500	.020	3.45	13.05	—	
1-21-[illegible]	"	114300	.02	2.7	10.9	.05	
2-20-46	"	70420	.015	1.8	7.4	.20	
3-1[illegible]		[illegible]	.035	2.5	[illegible]	.10	
4-17-46	"	[illegible]	.010	3.6	[illegible]	.15	
5-24-46	"	56820	.010	2.0	[illegible].8	.10	
6-16-46	"	38270	.015	2.5	9.8	.20	

		Pounds	Ozs. Gold	Ozs. Silver	% Lead	% Copper
[illegible]-17-[illegible]	L. A. Winslow	73180	.03	9.35	44.8	—
[illegible]	✓	88920	.025	6.0	31.325	—
[illegible]	✓	61600	.03	6.9	35.25	—
[illegible]	✓	72560	.01	6.55	33.0	—
[illegible]	✓	61548	.02	6.75	32.46	—
[illegible]	✓	6872	.02	11.1	55.0	—
[illegible]	✓	15080	.05	12.4	39.0	—
[illegible]	✓	25320	.02	7.45	35.4	—
[illegible]	✓	34163	.015	10.05	44.4	—
[illegible]	✓	6837	.02	14.85	64.98	—
[illegible]	✓	4407	.05	11.15	31.25	—
[illegible]	✓	88073	.02	5.83	27.4	—
[illegible]	✓	72500	.025	6.925	46.35	—
9-[illegible]	Mike Thomas	91340	—	11.78	41.22	—
10-6-26	✓	101040	.02	10.9	47.9	.2
10-20-[illegible]	✓	36580	.02	10.6	57.3	—
[illegible]	Pathfinder Lease	19680	.03	9.7	25.6	—
[illegible]	L. A. Winslow	15280	Tr.	1.8	—	—
7-11-19	Thomas F. O'Hay	17420	.06	6.3	28.1	Tr.
[illegible]	Hamilton & Wardell	59320	—	3.1	17.7	—
[illegible]	[illegible]	[illegible]	—	1.2	6.3	—
[illegible]	[illegible]	[illegible]	—	4.9	16.2	—
[illegible]	[illegible]	[illegible]	—	56.8	19.3	—

[illegible]	Ocean Haveland	16400		Tn.	5.1	21.0	.05
[illegible]	Haveland & [illegible]	34900		.06	6.5	32.4	.02
[illegible]	✓	43310		.045	4.2	23.9	.02
[illegible]	✓	15360		.08	11.7	49.0	.08
[illegible]	✓	35400		.05	10.8	42.0	.05
3-10-44	✓	30000		.04	9.0	37.8	.05
3-22-44	✓	13000		.03	11.0	48.2	.04
5-13-49	✓	20100	X	.045	4.1	13.0	.10
8-19-44	Danner [illegible]	7830		.085	14.4	37.7	.05
[illegible]	[illegible]	28460		.037	10.1	34.9	.04
[illegible]	✓	37420		.03	9.2	39.4	.05
	✓	37240		.045	8.1	34.2	.60
11-2-42	✓	61200		.05	6.5	33.0	.12
[illegible]	✓	74300		.05	7.2	37.4	.03
3-19-43	✓	39860		.055	7.0	27.5	.03
8-8-45	[illegible] & Undersoth	84200	X	.0325	3.0	12.75	.02
4-29-47	✓	38660		.02	5.05	26.9	.08
7-7-47	✓	66600	X	.025	4.0	11.3	.10
[illegible]	[illegible]landa	96460	X	.045	2.3	8.3	.10
		12040	X	.085	2.65	8.1	.05
	[illegible] Horizon	9700	/	.025	4.2	14.6	.05
	[illegible] Clarke	78200		.015	1.8	8.6	.15
[illegible]	✓	[illegible]	v	.025	2.4	14.5	.08
	✓	[illegible]		[illegible]	[illegible]	[illegible]	.15
9-12-47	✓	51760		.010	1.95	9.0	.05
[illegible]	✓	[illegible]		.015	[illegible]	[illegible]	.15
[illegible]		[illegible]		.045	11.2	44.6	.10
10-25-47		110880		.008	[illegible]	7.1	.10
11-3-47		5910		.025	11.7	50.4	.15
		[illegible]		.015	2.26	9.4	.10
[illegible]		115640		.020	4.05	15.6	.15

Santa Cruz Tungsten Prospect

			Bi	Ag	Pb	Cu
5-18-45	Mary Deimeiss	38070	.037	2.9	11.6	.15
1-7-46	"	35380	.04	7.5	11.8	.20
5-17-45	"	9190	.033	4.3	14.2	.15

Jul 12 1967

7 12

AMERICAN SMELTING & REFINING CO.
EAST HELENA PLANT
EAST HELENA, MONTANA

Shipper: MINNEY ENTERPRISES
Mine: JOE DANDY
Class: CRUDE Shipping Point: Radersburg, Montana
Smelter Lot: 4

TRUCK 11,536 46,610

Assays	Gold Oz. Per Ton	Silver Oz. Per Ton	Wet Lead %	Copper %	Zinc %	Arsenic %	Antimony %	Bismuth %
A S.& R.Co.	0.13.5	37.6	26.0	0.10	1.2			
Shipper								
Umpire								
Settlement	0.13.5	37.6	26.0	0.10	1.2			

Assay Deduction	Percent Pay	METAL	Pay Quotation	Quotation Deduction
	100	Gold	31,818.25	
	95	Silver	1'658.4	.01
15	90	Lead	.14	.025
		Copper		

H_2O	Wet Weight	Dry Weight	Dry	Wet Tons
115.36	46,610	41,233	20,616	23,305
46,610	41,233	20,616		23,305

Date of Arrival: June 27, 1967

Settlement Assay		Total Content	Assay Ded.		Percent Pay		Pay Content	Pay Quotation	Quot. Ded.	Net to Shipper
13.50	Gold	2.78			100.00		2.78	31.818.25		88.45
3760.00	Silver	775.18			95.00		736.42	1.658.40	10.00	1,213.91
2,600.00	Lead	10,720.60	150.00		90.00		9,641.89	140.00	25.00	1,045.57
10.00	Copper	41.23					.00			

Special $7.50

Dry Tons X Total Contract Deductions $7.50	ST 6	20,616.54	7.50	2347.93
Sampling				154.62
[illegible] Content)				
Dry Content)				
[illegible] X Bullion Frt. Ass.	PR			
[illegible] X Bullion Frt. Cont.				
Sub-Total				2193.31
Wet tons X Frt. Rate	ST 5			
Sub-Total				
Advances $300.59 Morris Hagginner		APPLIED TO ADVANCES		300.59
Hauling @ $5.00 Robert Colbau	ST 5	23,305.00	5.00	116.53

LABOR ADJUSTMENTS CHARGES

EAST HELENA RATE	CONTRACT RATE	DIFFERENCE	CHARGES

Dry Tons X Total Contract Deductions	ST 6	20.610.545	7.50	2347.93 S
Sampling				154.50
Lbs. of Pb (Pay Content)				
Lbs. of Cu. (Pay Content)				
Tons of Pb & Cu X Bullion Frt. Act.	PR			
Tons of Pb & Cu X Bullion Frt. Cont.				
Sub-Total				2193.31 S
Wet tons X Frt. Rate	ST 5			
Sub-Total				
Advances		APPLIED	TO ADVANCES	500.00
Hauling	ST 5	23.305.00 S	5.00	116.53
Umpires				
				1194.15
				552.07

LABOR ADJUSTMENTS CHARGES

EAST	LENA	CONTRACT RATE	DIFFERENCE	CHARGES

57 1/2 % to Irving Trust Co

42 1/2 % to Morris Hannivan

Bonded $7.50

LABOR ADJUSTMENTS CHARGES

ST HELENA RATE	CONTRACT RATE	DIFFERENCE	CHARGES

Dry Tons X Total Contract Deductions $7.50	ST 6	[illegible]	7.50	[illegible]
Sampling				
Lbs. of Pb (Pay Content)				
Lbs. of Cu. (Pay Content)				
Tons of Pb & Cu X Bullion Frt. Act.	PR			
Tons of Pb & Cu X Bullion Frt. Cont.				
Sub-Total				
Wet tons X Frt. Rate	ST 5			[illegible]
Sub-Total				
Advances				
Hauling @ $5.00 Robert Cobban	ST 5	[illegible]	5.00	[illegible]
Umpires				
57% to Al Pinedo				544.77
Net Proceeds Morris Hammond				[illegible]

Special $7.50

LABOR ADJUSTMENTS CHARGES

EAST HELENA RATE	CONTRACT RATE	DIFFERENCE	CHARGES

Dry Tons X Total Contract Deductions $7.50	ST 6	27,962.40 S	7.50	6399.46
Sampling				209.72
Lbs. of Pb (Pay Content)				
Lbs. of Cu. (Pay Content)				
Tons of Pb & Cu X Bullion Frt. Act.	PR			
Tons of Pb & Cu X Bullion Frt. Cont.				
Sub-Total				
Wet tons X Frt. Rate	ST 5			
Sub-Total				3189.74 S
Advances				
Hauling @ $5.00 Robert Cobban	ST 4	30,950.00 S	5.00	154.75
Umpires				
5 1/2% Net Proceeds to Irving Trust Co				1745.12
4 1/2% Net Proceeds to Morris Hannineen				1289.87

Special $7.50

LABOR ADJUSTMENTS CHARGES

EAST HELENA RATE	CONTRACT RATE	DIFFERENCE	CHARGES

Dry Tons X Final Contract Deductions	$7.50	ST 6	19,467.46 S	7.50	723.55
					146.01
Lbs. of Pb (Pay Content)					
Lbs. of Cu. (Pay Content)					
Tons of Pb & Cu X Bullion Frt. Act.		PR			
Tons of Pb & Cu X Bullion Frt. Cont.					
Sub-Total					577.54 S
Wet tons X Frt. Rate		ST 5			
Sub-Total					
Advances $500.00 to Morris Haanninen					
Hauling @ $5.00 Robert Cobber			21,670.00 S	5.00	108.35
Umpires					
57½% Net Proceeds to Irving Trust Co					269.78
42½ Net Proceeds Morris Haanninen			APPLIED TO	ADVANCE	

AMERICAN SMELTING & REFINING CO.
EAST HELENA PLANT
EAST HELENA, MONTANA

7 27

Shipper: Kinley Enterprises
Mine: Joe Dandy
Class: Crude Shipping Point: Rodersburg Montana
Smelter Lot No: 1133 Mine Lot No: 5

9.653 61900

Assays	Gold Oz. Per Ton	Silver Oz. Per Ton	Wet Lead %	Copper %	Zinc %	Arsenic %	Antimony %	Bismuth %
A.S.& R.Co.	0.080	35.8	32.0	0.10	1.5			
Shipper								
Umpire								
Settlement	0.080	35.8	32.0	0.10	1.5			

Assay Deduction	Percent Pay	METAL	Pay Quotation	Quotation Deduction
	100	Gold	31,818.25	
		Silver	1,65.33	.01
		Lead	.14	.1025
		Copper		

Lot	Wet Weight	Dry Weight	Dry Tons	Wet Tons
9653	61,900	55,924	27,962	30,950
	61,900	55924	27,962	30,950

Date of Arrival: July 3, 1.67

Contract Assay		Total Content	Assay Ded.		Percent Pay		Pay Content	Pay Quotation	Quot. Ded.	Net to Shipper
8.00	Gold	2.24			100.00		224	31,818.25		71.27
3500.00	Silver	1,001.05			95.00		951.00	1653.30	10.00	1562.78
3200.00	Lead	17,895.93	150.00		90.00		15351.35	140.00	25.00	17765.41
10.00	Copper	55.93					.00			

Dry Tons X Total Contract Deductions	ST 6	27,962.40S	7.50	209.72
Sampling				
Lbs. of Pb (Pay Content)				
Lbs. of Cu. (Pay Content)				
Tons of Pb & Cu X Bullion Frt. Act.				
Tons of Pb & Cu X Bullion Frt. Cont.				
Sub-Total				
Wet tons X Frt. Rate	ST 5			
Sub-Total				
Advances				
Hauling	ST 5	30,950.00S	5.00	

LABOR INSTRUCTIONS

EAST HELENA RATE	CONTRACT RATE	DIFFERENCE	CRS

7 11
Jul 12 1967

AMERICAN SMELTING & REFINING CO.
EAST HELENA PLANT
EAST HELENA, MONTANA

Form No. 1

Shipper: MUNLEY ENTERPRISES
Mine: JOE DANDY
Class: CRUDE Shipping Point: RADERSBURG, MONTANA
Smelter Lot No. Mine Lot No:
70-164 43340

Assays	Gold Oz. Per Ton	Silver Oz. Per Ton	Wet Lead %	Copper %	Zinc %	Arsenic %	Antimony %	Bismuth %
A.S.& R.Co.	0.030	7.15	14.1	0.10	1.0			
Shipper								
Umpire								
Settlement	0.030	7.15	14.1	0.10	1.0			

Assay Deduction	Percent Pay	METAL	Pay Quotation	Quotation Deduction
	100	Gold	31,818.25	
1.0	100	Silver	1.658.4	.01
1.5	90	Lead	.14	.025
		Copper		

Date of Arrival: May 26, 1967

Bags	Net Weight	Dry Weight	Dry Tons	Wet Tons
	2330	38934	19.467	21.670
		38934	19.467	21.670

Assay		Total Content	Assay Ded.		Percent Pay		Pay Content	Pay Quotation	Quot. Ded.	Net to Shipper
[illegible]	Gold	.58			100.00		.58	31,818.25		18.45
[illegible]	Silver	139.19	100.00		100.00		119.72	1.658.40	10.00	197.35
1410.00	Lead	5489.82	150.00		90.00		4,415.22	140.00	25.00	507.75
10.00	Copper	38.94					.00			

Special $7.50

Dry Tons X Total Contract Deductions $7.50	ST 6	19,467.46S	7.50	723.55S
Sampling				146.01
Lbs. of Pb (Pay Content)				
Lbs. of Cu. (Pay Content)				
Tons of Pb & Cu X Bullion Frt. Act.	PR			
Tons of Pb & Cu X Bullion Frt. Cont.				
Sub-Total				577.54S
Wet tons X Frt. Rate	ST 5			
Sub-Total				
Advances [illegible]				
Hauling [illegible]	ST 5	21,670.00S	5.00	[illegible]

BOR ADJUSTMENTS CHARGES

EAST HELENA RATE	CONTRACT RATE	DIFFERENCE	CHARGES

JUN 2 3 1967

AMERICAN SMELTING & REFINING CO.
EAST HELENA PLANT
EAST HELENA, MONTANA

6 73

Shipper: [illegible]
Mine: JOE DANDY
Class: CRUDE Shipping Point: RADERSBURG, MONTANA
Lot No.: 978 Mine Lot No: 2

TRUCK 8.69 37170

Assays	Gold Oz. Per Ton	Silver Oz. Per Ton	[illegible] %	Copper %	Zinc %	Arsenic %	Antimony %	Bismuth %
A.S.& R.Co.	0.050	7.3	19.3	0.10	2.8			
Shipper								
Umpire								
Settlement	0.050	7.3	19.3	0.10	2.8			

H_2O	Wet Weight	Dry Weight	Dry Tons	Wet Tons
86.90	37170	33939	169.69	18585
	37170	33939	16.969	18.585

Assay Deduction	Percent Pay	METAL	Pay Quotation	Quotation Deduction
	100	Gold	31,818.25	
1.0	100	Silver	1.6780	.01
1.5	90	Lead	.14	.025
		Copper		

Date of Arrival: JUNE 8, 1967

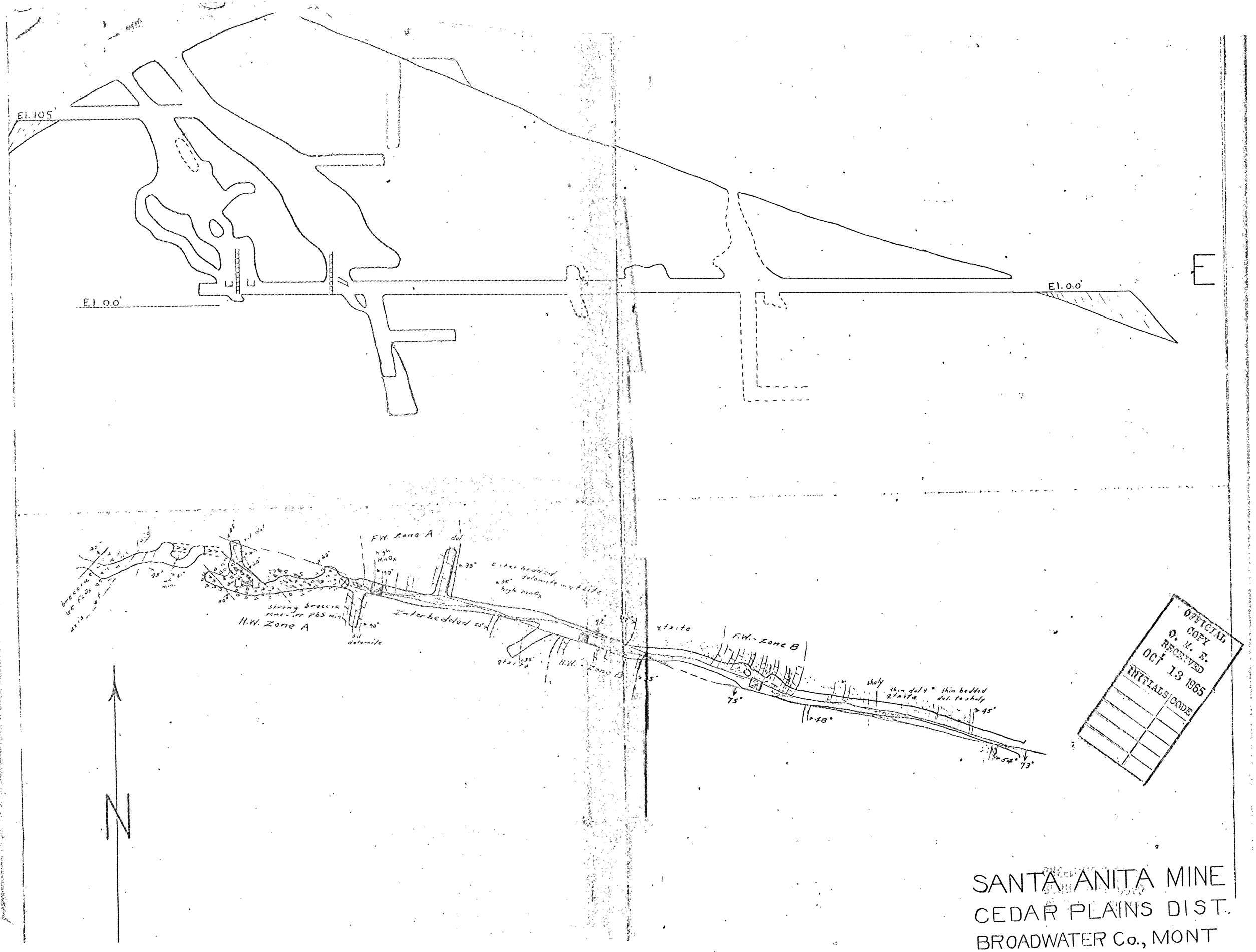
Weight of Lot		Total Content	Assay Ded.		Percent Pay		Pay Content	Pay Quotation	Quot. Ded.	Net to Shipper
3.00	Gold	.51			100.00		.51	31,818.75		16.23
7.00	Silver	123.88	100.00		100.00		106.91	1678.00	10.00	178.33
1930.00	Lead	6550.91	180.00		90.00		5437.18	140.00	25.00	625.78
10.00	Copper	33.94					.00			

Special $7.50

Dry Tons X Total Contract Deductions @ $7.50	ST 6	16969.97	7.50	819.84
Sampling				127.27
Lbs. of Pb (Pay Content)				
Lbs. of Cu. (Pay Content)				
Tons of Pb & Cu X Bullion Frt. Act.	PR			
Tons of Pb & Cu X Bullion Frt. Cont.				
Sub-Total				
Wet tons X Frt. Rate	ST 5			692.57
Sub-Total				
Advances				
Hauling @ $5.00 Robert [illegible]	ST 5	18585.00	5.00	92.93

LABOR [illegible]

EAST HELENA RATE CONT. RATE [illegible]



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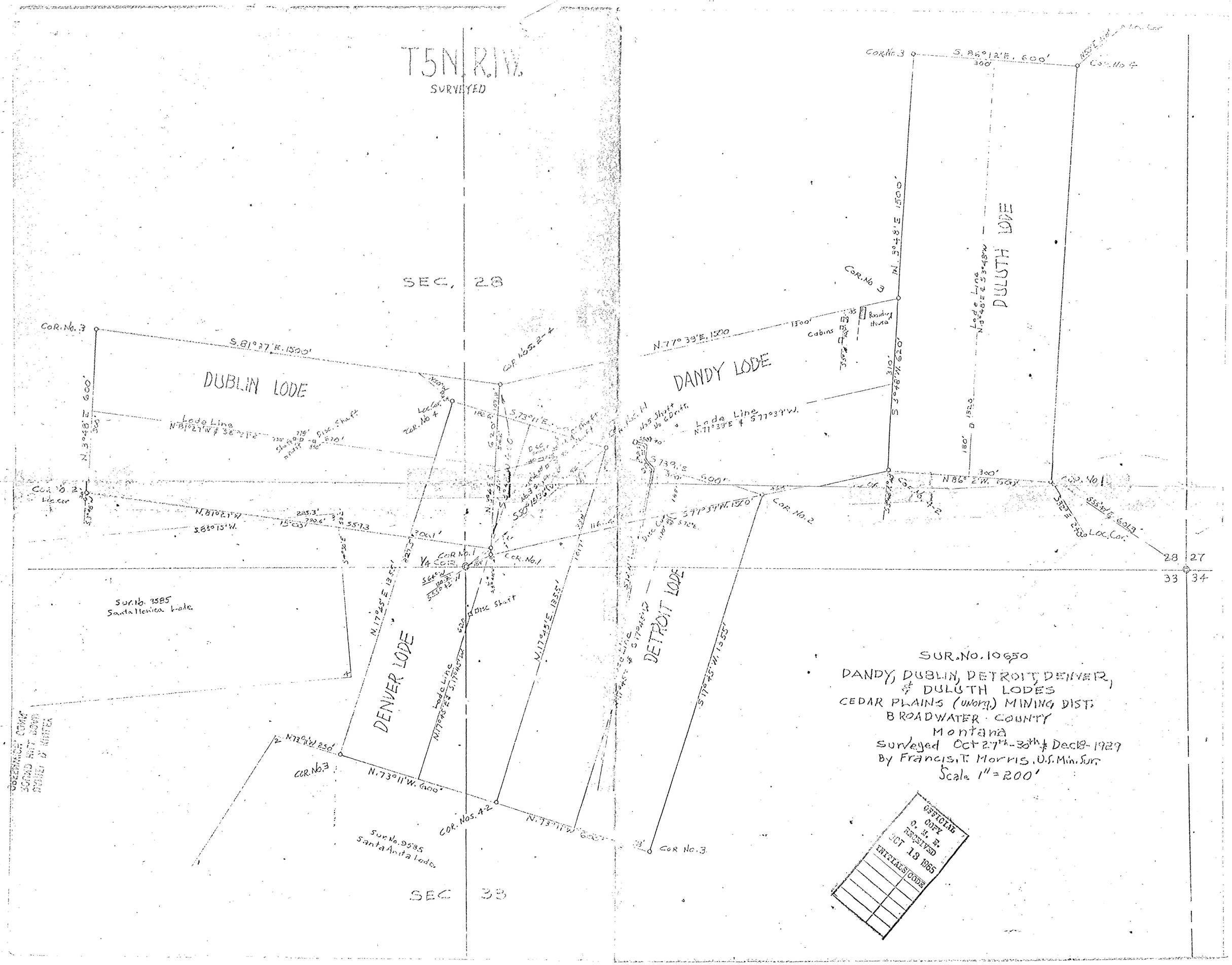
OCT 13 1965
INITIALS/CODE

SANTA ANITA MINE
CEDAR PLAINS DIST.
BROADWATER Co., MONT



SUR. NO. 10650
DANDY, DUBLIN, DETROIT, DENVER, & DULUTH LODES
CEDAR PLAINS (unorg.) MINING DIST.
BROADWATER COUNTY
Montana
Surveyed Oct 27th-30th & Dec 18-1929
By Francis T. Morris, U.S. Min. Sur.
Scale 1" = 200'

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G. M. B.
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