UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE

~~Terminated~~ (or cancelled) without certification. DMEA No. 1938

This is the official contract file containing all official records of the project. Duplicate material has been removed. The records contained in the files are checked and are arranged in this manner:

Left Side

Certificate of Audit (Final).

Interim Audit(s).

Report of Review.

Termination Notice or Agreement.

✓ Recision Notice.

Assignment of Contract.

Contract Amendments (latest on top).

✓ Contract with all exhibits and annexes.

Owner's Consent to Lien.

✓ Subordination Agreement.

Leases and assignments of leases.

✓ Application and attachments.

Schedule of Collections.

Operator's monthly reports and all attachments (latest on top).

Right Side

Project summary.

Work completed analysis.

All other material is filed in chronological order with correspondence including the following reports as checked:

Final Field Team Report. (Tab)

Operator's Final Report.

Interim Reports.

On-site Exam Report(s). (Tab)

Settlement Sheets.

If additional folders are required because of volume of records, show folder numbers and contents below:

Maps in folder number_____

Operator's Monthly Reports in folder number _____

WNC
Reviewer's Initials

7973

Government by action
Uranium
2/2/52
Hoffman

NOTICE OF TERMINATION AND RESCISSION OF EXPLORATION PROJECT CONTRACT BEFORE WORK IS BEGUN

To: Anaconda Lead and Silver Company
328 Empire Building
Denver, Colorado

Operator under Exploration Project Contract Idm-E403, Docket No. DMEA 1938, dated September 15, 1952

The United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereby terminates and rescinds the above-mentioned contract, on the following grounds:

(a) Failure to commence work within sixty (60) days from the date of the contract; and

(b) In the opinion of the Government, you have failed to prosecute operations pursuant to the terms of the contract, in that you have failed to perform any work at all.

Dated this 26th day of January, 1953.

UNITED STATES OF AMERICA

By W. H. King
Executive Officer, DMEA
Field Team, Region IV

MF-200
(June 1951)
(Revised Feb. 1952)

DOCKET NO. [redacted]EA 1938

COMMODITY Uranium

Idm-E403

UNITED STATES OF AMERICA

GOVERNMENT COPY

DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 27 1952

EXPLORATION PROJECT CONTRACT[1]

IT IS AGREED this 15th day of September, 1952, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and[2] Anaconda Lead and Silver Company - a corporation duly organized and 328 Empire Building existing under and by virtue of Denver, Colorado the laws of the State of Nevada

hereinafter called the "Operator," as follows:

ARTICLE 1. *Authority for contract.*—This agreement is entered into under the authority of the Defense Production Act of 1950, as amended, pursuant to DMEA Order 1 entitled "Government Aid in Defense Exploration Projects."

ARTICLE 2. *Operator's property rights.*—With respect to that certain land situated in the State of _____, County of _____, described as follows:[3]

SEE ANNEX NO. 1

the Operator represents and undertakes:[4]

(*a*) [redacted]: Landlord's Subordination Agreements are

(*b*) That the Operator is a lessee, in possession and entitled to possession, and the [redacted] attached.

The Operator shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of the exploration project without any allowance for the use, rental value, depreciation, depletion, or other cost of acquiring, owning, or holding possession thereof.

ARTICLE 3. *Exploration project.*—The Operator, within sixty (60) days from the date of this contract shall commence work on a project of exploration for[5] Uranium

in or upon the described land; and shall bring the project to completion within a period of 8 months from the date of this contract. The work to be performed is more fully described in Exhibit "A" attached hereto, which, with any maps or drawings thereto attached, are made a part of this contract. The Government will contribute to the cost of this work as hereafter provided.

ARTICLE 4. *Performance of the work.*—(*a*) *Operator's responsibility.* The work shall be performed efficiently, expertly, in a workmanlike manner, in accordance with good mining standards and State regulations for health and safety and for workmens' compensation and employers' liability insurance, with suitable and adequate equipment, materials, and labor, to bring the project to completion within the time fixed. To the extent specified in Exhibit "A," attached hereto, the work may be performed by independent contractor or contractors; and work not specified in Exhibit "A" for performance by independent contractor may nevertheless be so performed upon amendment of Exhibit "A," as agreed to by the parties, to state the work to be so performed and the estimated unit costs thereof, as provided hereafter.

(*b*) *Independent contracts.*—Any independent contract for the performance of work shall be on a unit-price basis (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved), or on some basis that will indicate the amount due for work performed at any stage of the work to be performed under such independent contract. The Government shall not be nor be considered to be a party to any such independent contract, and the Government's right to terminate the exploration project contract under any of its provisions shall not in any manner be affected by reason of any such independent contract. If the reference in Exhibit "A" to any such independent contract states that the Government's approval thereof is required, the Government may refuse to participate in the cost thereof unless and until it has given its written approval of the independent contract.

(*c*) *Government may inspect.*—The Government shall have the right to enter and observe and inspect the work at all reasonable times, and the Operator shall provide the Government with all available means for doing so. The Government may consult with and advise the Operator on all phases of the work.

ARTICLE 5. *Estimated costs of the project.*—A statement of the estimated cost of the project is set forth in Exhibit "A," attached hereto. Except insofar as any item of requirement or the estimated cost thereof set forth in Exhibit "A" is there or elsewhere designated as an "allowable maximum," such items of requirement and of related cost are estimates only, and may be exceeded to the extent that the Government may from time to time approve for the most economic and beneficial performance of the work within the limitation of the total aggregate estimate of costs. The Government's approval of any such excess over the estimate for an item of requirement or related cost will be signified by its approval and payment of any invoice or voucher for payment which expressly calls attention to such excess. Items expressly designated in Exhibit "A" or elsewhere as "allowable maximum," and the total aggregate estimated cost are limitations, and any excess therein will be for the sole account of the Operator in which the Government will not participate.

ARTICLE 6. *Allowable costs of the project.*—(*a*) The costs of the project in which the Government will participate are limited to the following:

(1) *Independent contracts.*—Payments to independent contractors under independent contracts listed in Exhibit "A." The estimated cost of any work to be performed under an independent contract is or shall be included in the estimate of costs in Exhibit "A" in terms of the estimated numbers of units of work to be performed, the estimated amount to be paid per unit, and the estimated total amount to be paid to the independent contractor, and such estimates shall be allowable maximums above which the Government will not contribute. Regardless of the provisions of any such independent contract, the Government will participate in the payments to the independent contractor only on account of work actually performed and that conforms with the provisions of the exploration project contract, and only to the extent that the Government deems the unit prices for the work under the independent contract to be reasonable and necessary. No such independent contract shall have the effect of increasing the estimated total cost of the exploration project contract nor the maximum amount which the Government will pay as provided in the exploration project contract.

(2) *Labor, supervision, consultants.*—Labor, supervision and technical services (including engineering and geological consultants), a schedule of which is included in the estimate of costs set forth in Exhibit "A." The requirements and related estimated costs for supervision and technical services are allowable maximums.

(3) *Operating materials and supplies.*—Necessary materials and supplies including items of equipment costing less than $50.00 each, and power, water, and fuel, a schedule of which is included in the estimate of costs in Exhibit "A."

(4) *Operating equipment.*—Any operating equipment to be rented or purchased, or which is owned and will be furnished by the Operator, with the estimated rental, purchase price, or the allowable depreciation, as the case may be, a schedule of which is included in Exhibit "A." Any items listed as owned and to be furnished by the Operator, and related [redacted] allowable depreciation, are allowable maximums.

(5) *Rehabilitation and repairs.*—Any necessary initial rehabilitation or repairs of existing buildings, installations, fixtures, and movable operating equipment, now owned by the Operator and to be devoted to the purposes of the exploration contract, a schedule of which is included in the estimate of costs set forth in Exhibit "A." These items are allowable maximums.

(6) *New buildings, improvements, installations.*—Any necessary buildings, fixed improvements, or installations to be purchased, installed, or constructed for the purposes of the exploration work, with the estimated cost of each, a schedule of which is included in the estimate of costs in Exhibit "A." All of these items are allowable maximums.

(7) *Miscellaneous.*—Repairs to and maintenance of operating equipment (not including initial rehabilitation or repairs of the Operator's equipment), analytical work, accounting, workmen's compensation and employers' liability insurance and payroll taxes.

(8) *Contingencies.*—Such other necessary, reasonable direct costs of performing the exploration work, within the limit of the total aggregate estimate of costs, whether or not included in any schedule of costs in Exhibit "A," as may be approved by the Government in the course of the work, as indicated by its approval and payment of invoices and vouchers.

[1] If sufficient space is not provided in any blank, use an extra sheet of paper and refer to it in the blank.
[2] State name, address, and nature of organization if any.
[3] Give legal description or enough to identify the property, particularly excluding any land or interest therein to which the Government's lien is not to attach or the production from which is not to be subject to the Government's percentage royalty.
[4] Strike out the provision not applicable.
[5] Name of mineral or minerals.

(*b*) The Government's payment in all cases will be based on actual, necessary costs (including contract unit prices) incurred not in excess of any "allowable maximum," and not in excess of the fixed percentage of the total aggregate estimated cost. Costs will be considered to be incurred only as they are or become due and payable.

(*c*) No items of general overhead, corporate management, interest, taxes (other than payroll and sales taxes) or any other indirect costs, or work performed or costs incurred before the date of this contract, shall be allowed as costs of the project in which the Government will participate.

ARTICLE 7. *Reports, accounts, audits.*—(*a*) *Progress reports.* The Operators shall provide the Government with monthly reports of work performed and costs (including contract unit prices) incurred under the contract, in quintuplicate (five copies), upon forms provided by the Government. These progress reports shall be certified by the Operator, and shall constitute both the Operator's invoice of costs incurred on the project during the period covered by the report and his voucher for repayment by the Government, unless the Government requires the use of a standard voucher form with invoice attached. Progress reports shall include surface and/or underground engineering-geological maps or sketches showing the progress of the exploration, with assay-reports on samples taken concurrently with the advance in mineralized ground.

(*b*) *Final report.*—Upon completion of the exploration work or termination of the contract the Operator shall provide the Government with an adequate geological and engineering report, in quintuplicate (five copies), including an estimate of ore reserves resulting from the exploration work.

(*c*) Compliance with requirements.—If, in the opinion of the Government, any of the Operator's reports are insufficient or incomplete, the Government may procure the making or completion of such reports and attachments as an expense of the exploration work; and the Government may withhold approval and payment of any vouchers depending upon insufficient or incomplete reports.

(*d*) *Accounts and audits.*—The Operator shall keep suitable records and accounts of operations, which the Government may inspect and audit at any time. The Government may at any time require an audit of the Operator's records and accounts by a certified public accountant, the cost thereof to be treated as a cost of the project. The Operator shall keep and preserve said records and accounts for at least 3 years after the completion of the project or the termination of this contract. Upon the completion of the project or termination of the contract the Operator shall render a final account as provided in Article 12.

ARTICLE 8. *Payments by the Government.*—(*a*) The Government will pay ninety (90) percent of the allowable costs incurred, as they accrue, in an aggregate total amount not in excess of $ 9,000.00, which is 90 percent of $ 10,000.00, the agreed, estimated total cost of the project in which the Government will participate; *Provided,* that until the Operator's final report and final accounting have been rendered to the Government, and any final auditing required by the Government has been made, and a final settlement of the contract has been made, the Government may withhold from the last voucher or vouchers such sums as it sees fit not in excess of ten (10) percent of the maximum total which the Government might have been called upon to pay under the terms of the contract.

(*b*) The Government may make any payment or payments direct to independent contractors and to suppliers, for the account of the Operator, rather than to the Operator.

ARTICLE 9. *Repayment by Operator.*—(*a*) If, at any time, the Government considers that a discovery or a development from which production may be made has resulted from the exploration work, the Government, at any time not later than 6 months after the Operator has rendered the required final report and final account, may so certify in writing to the Operator. The certification shall describe broadly or indicate the nature of the discovery or development. In the event of such certification, any minerals mined or produced from the land described in Article 2 within 10 years from the date of this contract, including any mined or produced before the certification, shall be subject to a percentage royalty which the Operator or his successor in interest shall pay to the Government, upon the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production, in whatever form disposed of, including ore, concentrates, or metal, until the total amount contributed by the Government, without interest, is fully repaid, or said 10 years have elapsed, whichever occurs first, as follows:

(1) One and one-half (1½) percent of any such net amounts not in excess of eight dollars ($8.00) per ton.

(2) One and one-half (1½) percent of any such net amounts, plus one-half (½) percent of such net amounts for each additional full fifty cents ($0.50) by which such net amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) percent of such net amounts.

(For instance: The percentage royalty on a net amount of five dollars ($5.00) per ton would be one and one-half (1½) percent; on a net amount of ten dollars ($10.00) per ton, three and one-half (3½) percent.)

(*b*) As here used, "net smelter returns," "net concentrator returns," and "other net amounts realized from the sale or other disposition," mean gross revenue from sales; or if not sold, the market value of the material after it is mined in the form in which and the place where it is held. In the case of integrated operations in which the material is not disposed of as such, these terms mean what is or would be gross income from mining operations for percentage depletion purposes in income-tax determination.

(*c*) To secure the payment of its percentage royalty, the Government shall have and is hereby granted a lien upon the land described in Article 2 and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

(*d*) This article is not to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any mining or production operations.

ARTICLE 10. *Assignment, transfer, or loss of Operator's interest.*—Without the written consent of the Government, the Operator shall not assign or otherwise transfer or hypothecate this contract or any rights thereunder. The Operator shall not make any voluntary nor permit any involuntary transfer or conveyance of the Operator's rights in the land described in Article 2, without making suitable provision for the preservation of the Government's right to a percentage royalty on production and lien for the payment thereof; *Provided,* that mere failure by the Operator to maintain the Operator's rights in the land, without any consideration running to the Operator other than relief from the cost of maintaining such rights (as by surrender of a leasehold, failure to perform assessment work, or failure to exercise an option), coupled with complete abandonment by the Operator of all interest in or operations on the land for a period of 10 years from the date of this contract, shall not constitute such a transfer or conveyance. Should the Operator make or permit any transfer or conveyance in violation of this provision, the Operator shall be and remain liable for payment to the Government of the same amounts, at the same times, as would have been paid under the terms of the percentage royalty on production. If for any reason the net smelter returns, net concentrator returns, or other net amounts realized from the sale or other disposition of such production are not available as a means of measuring the amount of the Operator's liability, the amount thereof shall be estimated as well as may be, and in the event of dispute as to such estimates, the determination thereof by the Administrator of Defense Minerals Exploration Administration or by his successor shall be final and binding upon the Operator.

ARTICLE 11. *Title to and disposition of property.*—All facilities, buildings, fixtures, equipment, or other items costing more than $50.00 each, paid for or purchased with funds contributed jointly by the Operator and the Government, although title may be taken in the name of the Operator, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the completion of the work or the termination of the contract shall be disposed of promptly by the Operator for the joint account of the Government and the Operator, either by return to the vendor, by sale to others, or purchase by the Operator at a price at least as high as could otherwise be obtained, as may appear to be for the best interest of the Government, unless the Government, in writing, waives its interest in any such item. If necessary to accomplish such disposition, the Operator shall dismantle, sever from the land, and remove any such item, the cost thereof to be for the joint account of the parties in proportion to their respective interests. If the Operator, within 90 days after the receipt of written notice from the Government, fails, neglects, or refuses to dispose of such property, the Government may itself enter upon the land, take possession of, and remove and dispose of any such property as above provided.

ARTICLE 12. *Termination and completion.*—The Government may, at any time, by written notice to the Operator, terminate this contract: (*a*) If the Operator fails to provide his share of the money necessary to prosecute operations pursuant to the terms of the contract; (*b*) if the Operator, in the opinion of the Government, fails to prosecute operations pursuant to the terms of the contract; or (*c*) if in the opinion of the Government, operations up to the time of the notice have not indicated the probability of making any worth while discovery and in the opinion of the Government further operations are not justified. Upon the completion of the project or any termination of the contract the Operator shall dispose of any remaining materials, supplies, facilities, buildings, fixtures, and equipment in which the Government has an interest, for the joint account of the Operator and the Government in the proportion of their respective interests; shall render to the Government a full and final accounting of his operations under the contract and his expenditures of money; and shall pay to the Government its pro rata share of any money remaining

ARTICLE 13. *Changes and added provisions.* _____

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

By W. H. Kang
Executive Officer, DMEA
Field Team, Region IV

ANACONDA LEAD AND SILVER COMPANY
(Operator)

By H. P. Waite
President

I, John J. McIntyre, certify that I am the present secretary of the corporation named as Operator herein; that H. P. Waite, who signed this contract on behalf of the Operator, was then President of said corporation; that said contract was duly signed for and in behalf of said corporation by authority of its governing body, and is within the scope of its corporate powers.

John J. McIntyre

[CORPORATE SEAL]

U. S. GOVERNMENT PRINTING OFFICE 16—66328-1

MF-202

LANDLORD'S SUBORDINATION AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, the undersigned is the owner in fee simple of that certain parcel of ground in the county of Eagle, State of Colorado, described in a certain Exploration Project Contract dated Sept. 15, 1952, between _____, the Lessee of said property, and the United States of America;

NOW, THEREFORE, the undersigned, as Lessor of said property under lease dated December 8, 1950, does by these presents subordinate all of his right, title, and interest under the provisions of said lease to the right, title, and interest of the United States of America under the provisions of said Exploration Project Contract, and agrees that the lien and claim of the United States of America under the provisions of said contract shall be prior to the undersigned's rights to rentals or royalties under the terms of said lease; and

The undersigned further agrees that if said leasehold interest should be surrendered or if said lease should terminate at any time prior to the expiration of the rights of the United States of America under said Exploration Project Contract, the undersigned shall assume and does hereby assume all of the obligations of the Lessee under said Exploration Project Contract to make repayment to the United States of America according to the terms of said contract; and

The undersigned agrees to commit no act, nor assert any claim under judicial process or otherwise that may contravene or conflict with the prior lien and claim of the United States of America under the provisions of said Exploration Project Contract.

This undertaking and covenant shall be binding upon the heirs, successors, and assigns of the undersigned.

Dated this 26th day of October, 1951

W. F. Kleckner

W. F. Kleckner

U. S. GOVERNMENT PRINTING OFFICE 16—64582-1

MF-202

LANDLORD'S SUBORDINATION AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, the undersigned is the lessee and vendor of that certain parcel of ground in the county of Eagle, State of Colorado, described in a certain Exploration Project Contract dated Sept. 15, 1952, between Anaconda Lead and Silver Company, the Sub Lessee of said property, and the United States of America;

NOW, THEREFORE, the undersigned, as lessee and vendor of said property under lease dated December 7, 1950, does by these presents subordinate all of his right, title, and interest under the provisions of said lease to the right, title, and interest of the United States of America under the provisions of said Exploration Project Contract, and agrees that the lien and claim of the United States of America under the provisions of said contract shall be prior to the undersigned's rights to rentals or royalties under the terms of said lease; and

The undersigned further agrees that if said leasehold interest should be surrendered or if said lease should terminate at any time prior to the expiration of the rights of the United States of America under said Exploration Project Contract, the undersigned shall assume and does hereby assume all of the obligations of the Lessee under said Exploration Project Contract to make repayment to the United States of America according to the terms of said contract; and

The undersigned agrees to commit no act, nor assert any claim under judicial process or otherwise that may contravene or conflict with the prior lien and claim of the United States of America under the provisions of said Exploration Project Contract.

This undertaking and covenant shall be binding upon the heirs, successors, and assigns of the undersigned.

Dated this 26th day of October, 1951

Sam A. Mock

U. S. GOVERNMENT PRINTING OFFICE 16—64582-1

DOCKET NO. DMEA 1938

ANNEX NO. 1

Form MF-200

Article 2. Operator's property rights. - With respect to that certain land situated in the State of Colorado, County of Eagle, described as follows: The following unpatented claims: Gound Hog No. 1 recorded in Book 94, Page 181, in the office of the County Clerk and Recorder, in Eagle, Eagle County, Colorado; the Ground Hog No. 2, recorded in Book 94, Page 180, in the office of the County Clerk and Recorder in Eagle, Eagle County, Colorado; The Mayflower recorded in Book 94, Page 325 in the office of the County Clerk and Recorder in Eagle, Eagle County, Colorado. These claims are in Sec. 30, T. 5 S., R. 83 W.

EXHIBIT A

Description of the Work

The project consists of constructing a road to the portal of the North Dakota incline, constructing a hoist house, rehabilitating the incline for approximately 200 feet, and driving approximately 200 feet of drift from the bottom of the incline along the Entrada contact. The location of the North Dakota incline in relation to the property lines is shown on Figure 1. The proposed work is shown on Figure 2. Figures 1 and 2 are attached and made a part of this contract.

Estimated Costs of Project

(Items followed by an asterisk are allowable maximums.)

Independent Contracts

Bulldozer complete with operator, fuel and maintenance 40 hours at $10.00 per hour -	$ 400.00*

Labor, Supervision, Consultants

Labor	$4,200.00	
Supervision	1,200.00*	
Consultants	100.00*	
Total labor, supervision, consultants -		$5,500.00

Operating Materials and Supplies

Timber, track, pipe, powder, caps, fuse, drill steel, bits, gasoline, oil, and any other supplies and materials necessary to complete this project -	$1,891.00

Operating Equipment

To be purchased:

None

To be rented:

Gasoline hoist, 5 months at $50.00 per month -	$ 250.00	
Air compressor, 3 months at $290.00 per month -	870.00	
Rock drill and accessories 3 months at $73.00 per month -	219.00	
2 Mine cars at $10.00 per month apiece for 5 months -	100.00	
Total -		$1,439.00

9,230

9.230

Operating Equipment (Cont'd)

To be furnished by operator:

None

Initial Rehabilitation and Repairs:

None

New Buildings, Improvements, Installations:

Hoist house	$ 500.00*
Miscellaneous:	
Total Miscellaneous	$ 100.00
Contingencies	
Total Contingencies	$ 170.00
	10,000

TOTAL ESTIMATED COST -	$10,000.00*
GOVERNMENT'S PARTICIPATION AT 90% -	$ 9,000.00*

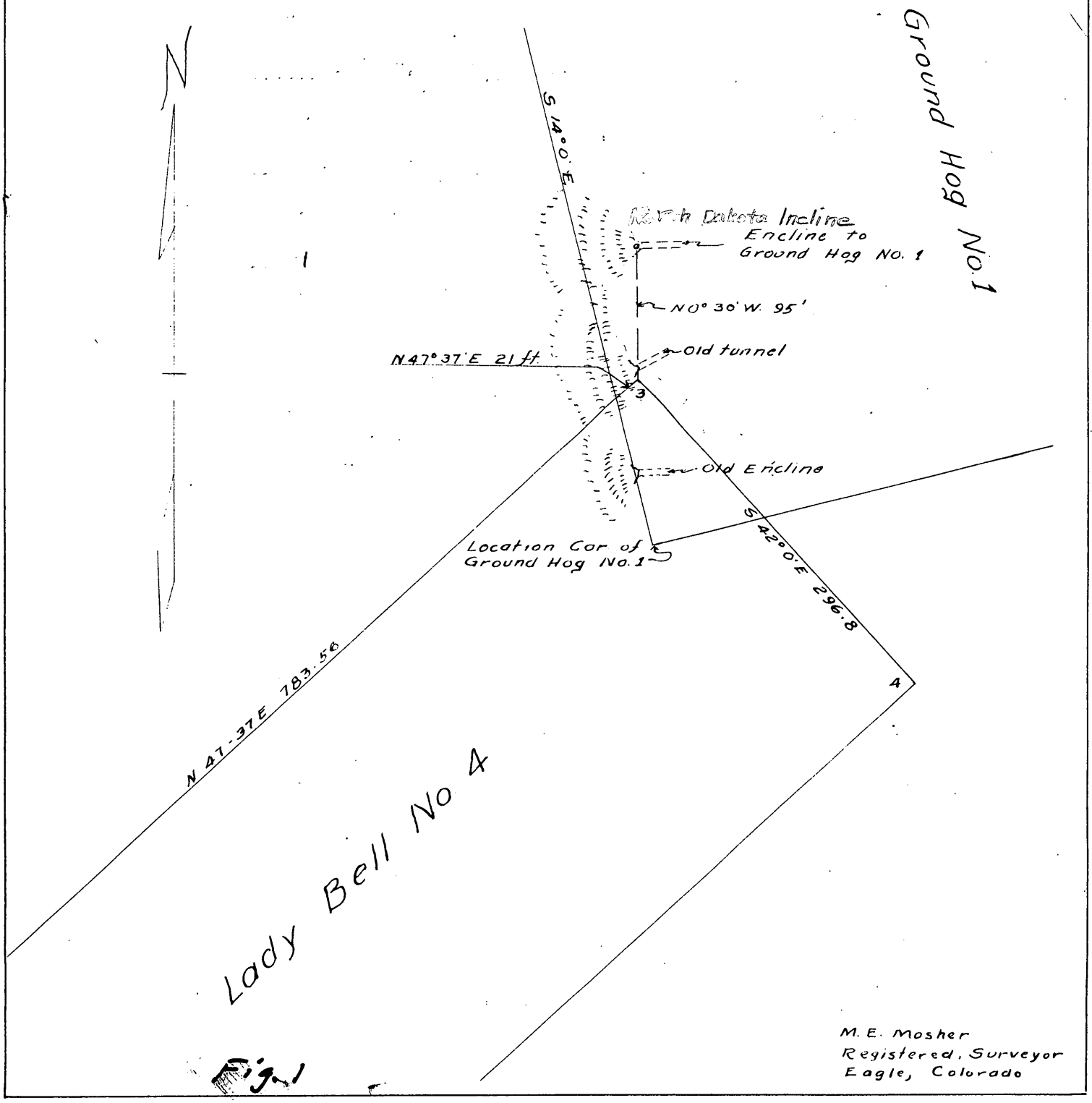
Intersection Location of Lady Bell No. 4 & Ground Hog No. 1

Eagle County, Colorado

for the

Anaconda Lead and Silver Company

Scale: 1 inch = 100 feet



M. E. Mosher
Registered, Surveyor
Eagle, Colorado

Fig. 1

Fig. 2-ANACONDA LEAD & SILVER COMPANY, EAGLE CO. COLO, DMA-1938

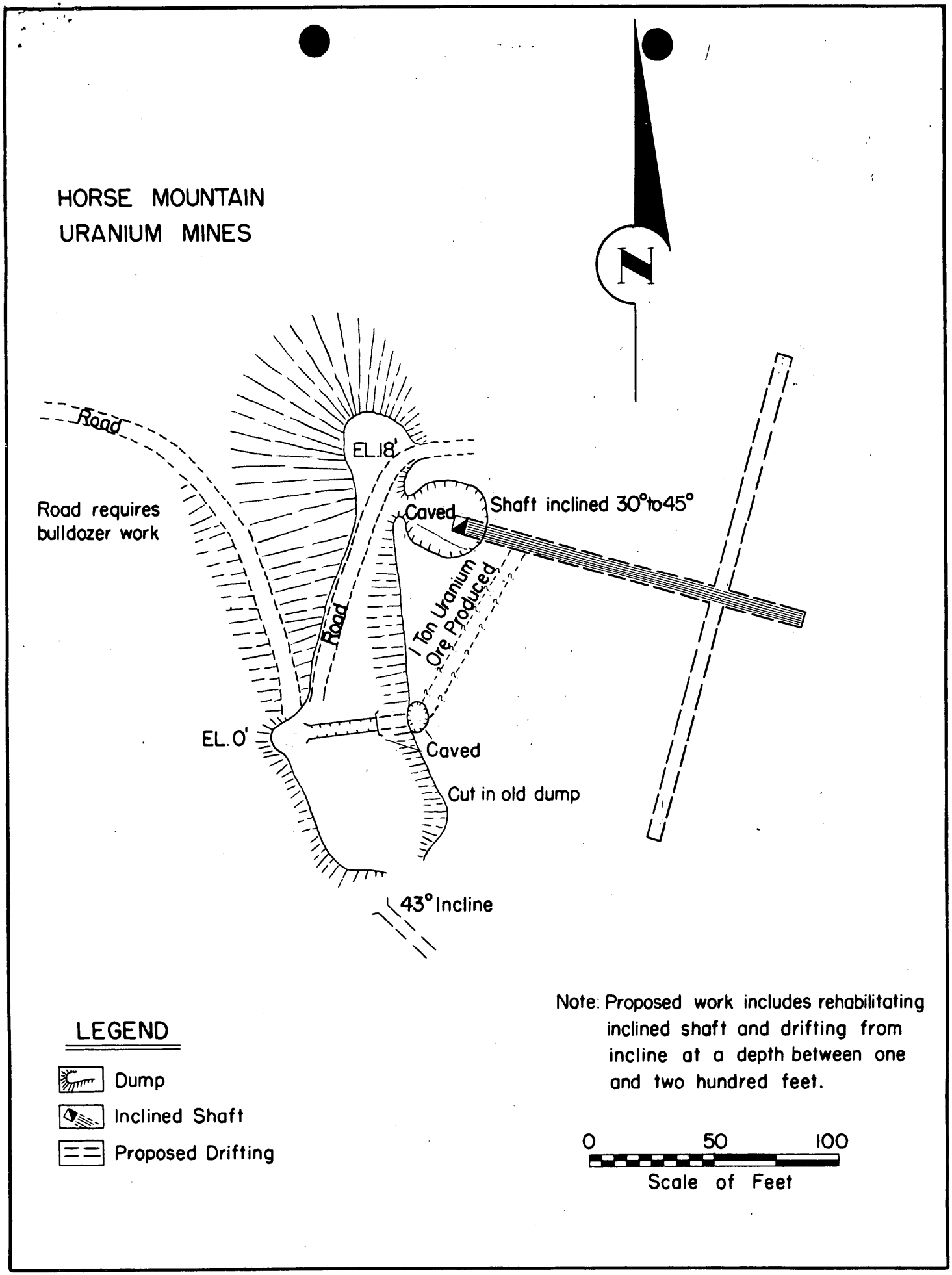


Fig.2-ANACONDA LEAD & SILVER COMPANY, EAGLE CO. COLO, DMA-1938

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

APPLICATION FOR AID FOR AN EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5, UNDER DEFENSE PRODUCTION ACT OF 1950

DO NOT FILL IN THIS BLOCK

Docket No. dma-1938

Date received 8/6/51

Participation

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 6 1951

ANACONDA LEAD AND SILVER COMPANY
1717 East Colfax Avenue
Denver 6, Colorado

Name and address of applicant

Date July 26, 1951

FILL IN THIS BLOCK

Date of application July 26, 1951

Estimated cost $110,000

Mineral or metal Uranium, copper

Percentage of Government participation 90

Location of mine 7 miles southeast of Eagle, in Eagle County, Colorado

Date of filing MF-100 ----

DMA Docket Number, if available -----

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four signed copies of the application to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive officer thereof, with your name and address on each sheet of the application and all accompanying papers. If any question is inapplicable, or if you cannot answer it, so state on the form. Where the space provided for answer is insufficient, answer on a separate sheet, annex it to the application form, and refer to it in space for answer. If the application is approved, you will be presented with an exploration project contract on Form MF-200, for your signature.

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation?
*2. If a partnership, state names and addresses of partners.
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.
*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project.
*5. Are you the owner or the lessee of the property?
6. If owner, state what claims, liens, or encumbrances, if any, are against the property.
7. If lessee, attach a copy of the lease and state if it is in good standing.

NOTE.—It will be necessary to procure and attach to the exploration project contract agreements of claimants, lienors, encumbrances and lessors subordinating their interests in the property to the interest of the Government under the contract.

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.
9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)?

*If you have already answered these questions on MF-100, you are not required to answer the questions for this application.

16—64067-1

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.
    (*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

    NOTE.—If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*b*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area.

*11. State the present and former names of the property, if any.
*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.
*13. State source and quantity of water available for operations and its sufficiency at all seasons.
State amount of power to be used, rate per hour or other cost, and source.
*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.
15. State in detail how the ore could be shipped and how and where milled.
*16. History:
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
    (*b*) State briefly the known history and production of adjoining and neighboring properties.
    (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.
*17. Production:
    (*a*) If mine is in production, furnish the following information:

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
(1) Mining				
(2) Milling				
(3) Shipped or sold				

*18. Ore or mineral reserves: (If property is or has been operating.)
    (*a*) Describe the ore or mineral deposits briefly.
    (*b*) Submit available maps and assay data.
    (*c*) Give estimated tonnage and grade of each class of ore reserves.
19. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?
21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.

    NOTE.—The Government will not participate in a project that will require more than 2 years to complete.
22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data.

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:
    (*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.
    (*b*) Supervisors, by numbers and positions, with salaries of each.
    (*c*) Cost of necessary repairs to existing facilities, structures, and buildings.
    (*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.
    (*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.
    (*f*) Cost of rental for equipment which the operator proposes to rent.
    (*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.
    (*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.
    (*i*) Cost of power, water, utilities, and any other items not provided for above.
24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent.

CERTIFICATION

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

ANACONDA Lead and Silver Co.
(Name of company)

By H. Reed Coates
(Signature of authorized official)

July 26, 1951
(Date)

V.P.
(Title)

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

*Same as footnote on page 1.

16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

HORSE MOUNTAIN MINES

ANACONDA LEAD AND SILVER COMPANY
1717 East Colfax Ave., Denver, Colorado

THE APPLICANT

1. Applicant is a Nevada Corporation.

2.

3. Directors-Officers- 5 Largest Stockholders

DIRECTORS

* Lloyd D. Ross	5901 Windsor Drive, Des Moines, Iowa
* A. H. Ross	5901 " " " " "
* Howard P. Waite	1717 E. Colfax Ave., Denver, Colorado
Russell Grace	Insurance Building, Fort Worth, Texas
H. L. Yaker	El Paso Nat'l Bank Bldg, El Paso "

OFFICERS

President & Treasurer	General Lloyd D. Ross, Des Moines, Ia
Executive Vice President & Comptroller	Howard P. Waite, Denver, Colorado
Vice President	Oliver C. Custer, Reno, Nevada
" " "	H. L. Yaker, El Paso, Texas
" "	Russell Grace, Fort Worth, Texas
" "	Carl Dunrud, Meeteetse, Wyoming
Secretary	A. H. Ross, Des Moines, Iowa
Assistant Secretary	L. E. Benedict, Denver, Colorado

STOCKHOLDERS: 5 largest

1. George Jones, Marfa, Texas
2. Howard Richard Waite, Chicago, Illinois
* See above

4.(a) General Lloyd D. Ross, of Des Moines, Iowa, is a retired Banker with over 40 years banking experience and a top-ranking financial executive.

Howard P. Waite, Executive Vice President and Comptroller, is a University graduate accountant with 30 years experience in the Certified Public Accounting field and has had many years of experience in mine accounting.

H. L. Yaker, Vice President, Director and Assistant Comptroller, likewise has had several years in the public accounting field and will be in charge of our El Paso office accounting. All of

ANACONDA LEAD AND SILVER COMPANY

4.(a) Cont.

the accounting detail for the Marfa Mining Company, of Marfa, Texas, the Las Cruces Marl and hosphorous Company of Radium Springs, New Mexico, and the Mina Grande Mines Co. of Silver City, New Mexico, will be handled through our Brabch Office in El Paso, as all of our ore from these companies will be shipped to the American Smelting and Refining Company of El Paso, Texas.

A large copper mining company located in southeast Arizona, now under negotiation for acquisition by Anaconda Lead and Silver Company, will likewise be handled through our El Paso office.

Russell Grace, Vice President and Director, is an experienced Insurance Executive and handles all of the many insurance problems of the company through our Branch Office in the Insurance Building in Fort Worth, Texas.

A. H. Ross, for several years was the Treasurer of a large Mortgage Bank located in Des Moines, Iowa

Our Geological department will be under the supervision of Philip Eckman, a graduate-geologist of the University of Montreal, who is now completing his material for his Doctor's degree.

Mine superintendents and foremen will be engaged under the direct supervision of our Consulting Engineer, Mr. C. R. Wilfley. We have several most capable and experienced men for these particular positions.

4.(b)

The Company's operations will be directed by C. R. Wilfley, Consulting Mining Engineer of Denver, Colorado, with over 40 years of experience in mining and milling operations.

5.

The Company acquired, under purchase contract from William F, Kleckner, Eagle, Colorado; Mrs. Ada F. Messa, Salt Lake City, Utah; and Sam A. Mock, Denver, Colorado, a block of claims described as follows:

Mayflower, Ground Hog.No.1; Ground Hog No.2; NRA and Blue Eagle.

The consideration for the purchase of these properties was $25,000.00

$13,500.00 in the capital common stock of the com any:
11,500.00 in cash to be paid:
$1,000.00 down and the balance in 8 monthly payments beginning with the 15th day of July, 1951 with one exception.

The portion of the $11,500.00 due Mrs. Messa is due in in 8 monthly payments beginning with the 15th day of April, 1951.

The cash consideration and the terms thereof are reflected in the Purchase Contract under Exhibits %A; 5B; and 5C.

ANACONDA LEAD AND SILVER COMPANY

Lady Bell, Lady Bell Extension and Lady Bell Nos.1, 2, 3, 4, 5 and 6 are under negotiation.

6. None.

7. Copies of leases, as explained in No.5 are Exhibits 5A; 5B and 5C.

8. Financial statement appears as Exhibit 8 A.

9. Applicant will to furnish ten per cent (L)%) of the money required. This is sufficient to pay its part of the cost as detailed in MF-103, question 23 and MO 5, section 9.

10.(a) The real property involved is described in the accompanying engineer's report.

(b) Legal description-- see engineer's report.

11. Presnet name "Horse Mountain Mines" is used by applicant to cover the several mines or groups of claims now assembled in one holding, which, with former names, are:

Lady Bell Mine (Lady Bell claims)
Kleckner Tunnel Group (Ground Hog Nos. 1 and 2 and Mayflower.
Messa Claims (NRA and Blue Eagle)
Blue Bell Group (New claims located by Sam Mock for Anaconda Company).

12. Location-- see engineer's report.

13. Ample water is available in Brush Creek. Can be pumped, short lift, to Mock tunnel. For operations on Horse Mountain the moderate amount of water needed can be hauled from either Brush Creek or Salt Creek.

A new R.E.A. power line has been built up Brush Creek, which might be used for pumping water and for lights. Air compressor power would be furnished by gasoline or diesel motors. Fuel for these would be available at Eagle, on the D. & R.G.N. Railroad.

14. The only useable facilities are described in the engineer's report.

15. The copper-silver ore can be trucked 7 miles over excellent roads to the Denver & Rio Grand Western Railroad at Eagle and shipped by rail to the Salt Lake Valley smelters.

Milling of ore too low grade to ship direct has not been studied. Good mill sites and tailing disposal area exist on Brush Creek close to the mine.

ANACONDA LEAD AND SILVER COMPANY

15. Cont.
Copper-uranium ore can be marketed at the new plants now being sponsored by the Government.

16. History:

(a) Past operation-- see engineer's report.
(b) Applicant knows of no substantial production from neighboring or adjoining properties.
(c) The report of C. R. Wilfley, mining engineer, accompanies this application.

17. The mine is not now in production.

18. Ore reserves:
(a) The ore-- see engineer's report.
(b) Maps: See engineer's report.
(c) No measurable ore reserves claimed.

19. The rather unusual copper-silver-uranium combination is discussed in the engineer's report.

20. THE EXPLORATION

Minerals. See engineer's report for details. Copper minerals in bedded deposits will be one of the objects of the exploration.

Uranium-copper minerals with accessory vanadium occur in the same sandstone ore-bed and will be another object of exploration.

21. The proposed work. See engineer's report for details.
It is proposed to explore the ore-bearing bed by:
1. Driving 300 feet west and 500 feet east along the bed in the Kleckner tunnel.
2. Driving the Mock tunnel ahead 800 feet along the bed.
3. Prospecting the outcrop by diamond drilling and other conventional methods.

The TOTAL COST IS ESTIMATED AT $110,000.00

22. Accompanying engineer's report answers this item.

THE REQUIREMENTS

23.(a) Labor

No. men	Classification	Hourly rate	Total	Ext. total
4	Miners	$1.50	$4,160	
4	Miners helpers	1.25	3,860	
4	Mucking machine operators	1.50	4,160	
4	Trammers	1.25	3,680	
2	Timbermen	1.50	2,080	
2	Shop men	1.25	1,840	
1	Carpenter	1.75	395	
7	Laborers	1.20	5,611	
1	Diamond drill sampler	1.75	910	
1	Truck driver	1.25	920	
30			$27,436	$27,436
(b)	Supervisors			
4	Shift bosses	1.75	$4,864	
1	Part-time engineer	mo.$200	800	
1	General superintendent	mo.$500	2,000	
6			$7,664	7,664
(c)	Repairs			
	Repair road to Mock tunnel		125	
	Repair shop, Mock tunnel		325	
	Repairs to Mock tunnel		500	
			$950	950
	Repair road to Kleckner tunnel		404	
	Repair shop, Kleckner tunnel		326	
	Repair west drift, Kleckner tunnel		35	
			$765	765
(d)	Installation, etc., materials			
	Warehouse, Mock tunnel		109	
	Powder magazine, ""		85	
	Watervline for "" ""		996	
	Installation of compressor, Mock tunnel		95	
			$1,285	1,285
	Shop, Kleckner tunnel		1,145	
	Powder magazine, "" ""		85	
	Installation of compressor, Kl. tunnel		95	
			$1,325	1,325
		forward . . .		.$39,425

23.(e) Equipment	forward	$39,425
Mock tunnel:		
1--36"x8' air receiver	$350	
2--Drifting drills	1,500	
1--Stoping drill	248	
Drill accessories	200	
1--Ventilating fan and motor	1,500	
10--Type Z Card 20 cuft. mine cars	2,440	
1--mechanical mucking machine	3,125	
	$9,373	9,373
Kleckner tunnel:		
1--36"x8' air receiver	$350	
1--Drifting drill	750	
1--Stoping drill	248	
Drill accessories	200	
10--Type Z Card 20 cuft. mine cars	2,440	
1--Ventilating fan and motor	1,500	
Shop equipment and small tools	685	
	6,173	6,173
(f) Rentals		
Air compressor, Mock tunnel, 4 mo.@$300 mo.	$1,200	1,200
Air compressor, Kleckner tunnel "" ""	$1,200	1,200
(g) Rental		
Company-owned Chev. pickup, 4 mo. @ $100 mo.	$400	400
(h) Materials and supplies		
Mock tunnel:		
2000 ft. 4-inch Victaulic pipe & couplings	$2,700	
2000 feet 10-inch ventilating pipe	3,000	
2000 feet 20-lb. mine rail & accessories	2,660	
1/2 ton drifter steel	405	
1/2 ton stoper steel	195	
15,436 Throwaway bits	3,784	
Mine timber	1,250	
Small tools	500	
5 tons Gelex powder, plus fuse & caps	2,000	
	$16,494	16,494
forward		$74,265

23.(h) Materials and supplies	forward	$74,265
Kleckner tunnel:		
1160 feet of 3-in. Victaulic pipe & cplgs.	$1,241	
1060 feet of 10-in. ventilating pipe	1,590	
1260 feet of 20-lb. mine track	1,676	
1 ton of drifter steel	405	
1/2 ton of stoper steel	195	
15,436 Throwaway bits	3,784	
Small tools	500	
5 tons Gelex powderplus fuse and caps	2,000	
	$11,391	11,391
(i) Power, etc.		
3,000 gal. gasoline, Mock tunnel	$900	
Electricity, water pump " "	75	
Diamond drilling, 1000' @ $4 ft., M. tunnel	4,000	
Truck operation and maintenance " "	175	
	$5,150	5,150
3,000 gal. gasoline, Kleckner tunnel	900	
Diamond drilling, 500' @ $4 ft. " "	2,000	
Truck operation and maintenance " "	175	
	$3,075	3,075
Diamond drilling, surface prospecting, 1,000 feet at $5 per foot	$5,000	5,000
Add for contingencies & unforeseen	$11,119	11,119
Total estimated cost		$110,000

24. Time schedule

It is expected that all three projects will be carried on simultaneously, on the following approximate time and cost schedule:

Preparation:		
Roads, buildings, repairs, setting up	1 month	$9,600
Project work:		
Reopening, drifting, preliminary drilling	4 months	88,900
Final exploration:		
Final drilling, sampling, etc.	1 month	11,500
Totals	6 mo.	$110,000

CLIFFORD R. WILFLEY
MINING ENGINEER
2233 GRAPE STREET
DENVER, COLORADO

HORSE MOUNTAIN MINES

EAGLE COUNTY, COLORADO

ANACONDA LEAD AND SILVER COMPANY

C.R. Wilfley

C. R. Wilfley
Mining Engineer
July 26, 1951

SUMMARY

Horse Mountain mines are in south-central Eagle County, Colorado, on Horse Mountain, 7 miles southeast of the town of Eagle.

The original discovery of rich copper-silver ore was made in 1913 and a substantial production of 70-ounce silver-copper was made the next three years. Later a deep-level tunnel was driven but was stopped before establishing definitely the position of the ore bed at that depth.

Property consists of 8 patented lode claims under negotiation for lease, and 9 unpatented lode claims held under lease and purchase agreements.

The ore occurs as an impregnation of the Entrada sandstone by azurite, malachite and silver minerals, with local bodies of secondary uranium-vanadium minerals. The outcrop, showing deposits of the copper carbonates with varying silver content, has been followed for 2,000 feet by opencuts, pits and short tunnels and shafts.

No substantial amounts of shipping-grade ore are opened up and left standing, but the mineralized exposures warrant further exploration.

It is proposed to drive on the ore-bearing bed for 800 feet each in the two main tunnels, and prospect the outcrop.

The cost of the proposed work is estimated at $110.000.00

Submitted July 26 1951

C. R. Wilfley
Mining Engineer

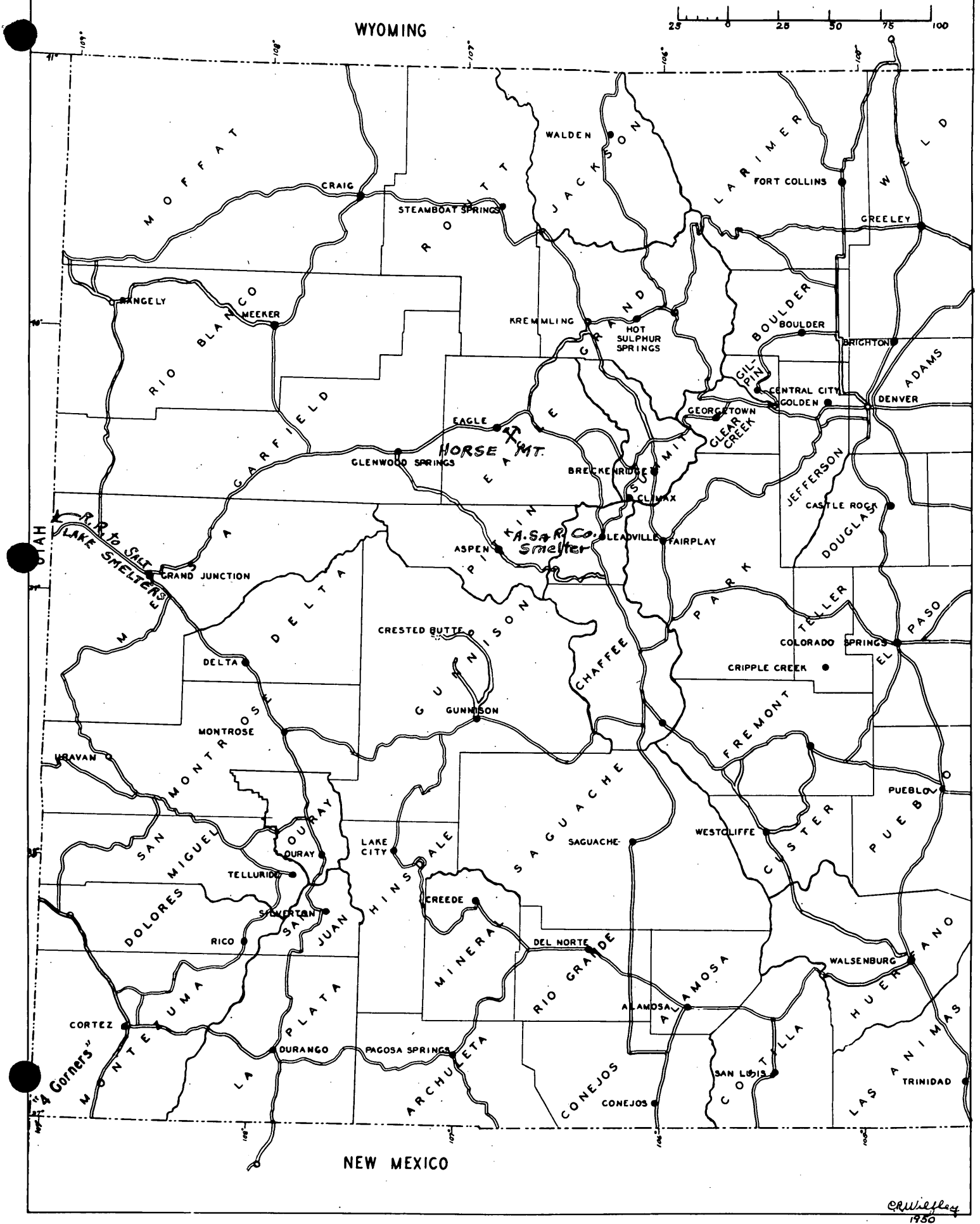
FIG. 1

LOCATION MAP

HORSE MOUNTAIN MINES
Anaconda Lead & Silver Co.

WESTERN COLORADO

COUNTIES AND MAIN ROADS
COUNTY SEATS: ●
SCALE: 1 IN. = 60 MI.



C.R. Wiegley
1950

HORSE MOUNTAIN MINES
of
ANACONDA LEAD AND SILVER COMPANY

Location (Fig.1)

These properties are in south-central Eagle County, Colorado, in Eagle Mining District, southeast of the town of Eagle, county seat, on Horse Mountain. The claims are in Sec.25; T 5 S; R 84W., and Sec. 30 & 31, T 5 S.; R. 83W.; 6th P. M., about 7 miles southeast of the town of Eagle.

Horse Mountain lies between Bruce Creek on the south and Salt Creek on the north.

History

According to common report the original discovery was made in February 1913. Rich copper-silver " float" was found neat the bottom of Horse Mountain, which, followed up, led to the discovery at what is now the Lady Bell Workings. (Fig.2)

The exploration of the ore body followed and a substantial production of ore was made during the period 1913-1916.

Following this, an old tunnel at the bottom Horse Mountain (Fig.2) on Brush Creek, was extended and turned eastward, to explore for the downward continuation of the " contact " or ore bed.

This tunnel reached a change of formation at 785 feet east of the turn and a drift was turned off to the right following a curving contact of formations. This drift, reported to be 200 feet long is choked with muck at the tunnel.

The Kleckner tunnel (Fig.2) was driven in 1942-1943 and reached the contact, where a small bunch of high grade copper-silver ore was taken out. A short drift was run west along the contact.

Numerous other small workings were driven during this period, some of which are shown on Fig. 2 .

About 1915 Uranium ore was discovered in the "Uranium Workings" shown on the map, and about one ton of ore was taken out and stored in Eagle where it remains today.

In the fall of 1950 Anaconda Lead and Silver Company began acquiring the properties and began reopening the Uranium Workings and the Mock tunnel. Winter shows stopped the work at the Uranium Workings, but this work will be resumed soon.

Physical Features & Communications

The district is well served by a good county road up Brush Creek from the town of Eagle, with good dirt roads up Bruce and Salt Creeks. The Mock tunnel is easily reached by the Bruce Creek road. From the tunnel, or near by, a primitive road with steep pitches and sharp turns goes up the hill to the old Lady Bell workings.

On the Salt Creek side a good road goes up the creek past the workings on the north side of the mountain. From the Salt Creek road a primitive road of sharp turns and steep pitches goes up the hill to the Kleckner tunnel, the Uranium Workings, and nearby workings. The roads up the hill are in deep " wash" and can be readily improved by bulldozer.

There are no improvements except a few shanties and sheds, and no equipment.

Ample water is available in the two creeks but the mine workings on the hill are dry.

Electric power is not available, but, an R. E. A. electric line is now being built up Bruce Creek past the property.

The nearest railroad station is at Eagle, on the Denver & Rio Grande Western railroad. This gives ready access to the custom mills and the American Smelting & Refining Co. smelter at Leadville, Colorado, and the mills and smelters of the Salt Lake Valley, in Utah.

The altitude at Mock tunnel is about 7600 feet above sea level, and the Horse Mountain workings are a maximum of about 500 feet higher. The summers are delightful and the winters not too severe to prevent all-year operation.

Ordinary supplies are available at Eagle and nearby towns, but most mining supplies and equipment would come from Leadville, Denver, Grand Junction or Salt Lake City.

Labor and Living Conditions

Skilled mining labor is not plentiful in the immediate vicinity but active mining districts are not far away. The low altitude and good living conditions at Horse Mountain should attract a good supply of competent labor.

There are no accomodations at the mine except one cabin. There are, however, good sites where ample housing accomdodations could be built in pleasant and easily accessible places, if necessary.

However, the 7 miles from Eagle to the mine is easily and quickly traversed by automobile, and the entire mining crew could live at Eagle and nearby small communities.

Production

The main production was made from the one Lady Bell silver ore body. Such smelter settlement sheets as have been preserved show 3,760 tons of ore shipped, averaging approximately 70 ounces of silver per ton. No copper assays are shown, probably because the buyer of the ore, the Ohio and Colorado Smelting & Refining Company, Salida, Colorado, was a lead smelter, which made no payments for low grade copper.

The copper possibilities of the properties were not developed by these operators, doubtless because it is an established fact that the high-copper ore of the district is low in silver and the high-silver ores are low in copper.

While the one ton of uranium ore stored at Eagle can hardly be called " production" it should be noted here because of its economic implications. This ore evidently was found near the surface in a local lens or small body of ore.

From its appearance, the ore was carefully hand-sorted for " high-grade" only, leaving, no doubt, an undetermined amount of lower grade ore which might be of value under today's prices. This is further supported by the existence of low grade uranium ore in possibly large quantity as shown by Samples 11,13, and 14. (See pp. 6 and 8) Samples 13 and 14 show the presence of low grade uranium ore in two different horizons in beds of considerable thickness 300 feet from the Uranium Workings. There is an implication of a large body of low grade ore here, in which other rich local concentrations may be found.

Property

The property consists of 8 patented claims and 9 unpatented, as shown on the accompanying map, Figure 2. The patented claims are to be held under an agreement as to tax title now being completed and the unpatented claims under purchase agreements.

The claims are:

Lady Bell U. S. Survey	No.	19522
Lady Bell Extension	"	"
Lady Bell No. 1	"	"
Lady Bell No. 2	"	"
Lady Bell No. 3	"	"
Lady Bell No. 4	"	"
Lady Bell No. 5	"	"
Lady Bell No. 6	"	"

The unpatented claims are : (Figures 3 & 4)

Mayflower
Ground Hog No.1
Ground Hog No.2
Blue Bell No.1
Blue Bell No.2
Blue Bell No.3
Blue Bell No.4
Blue Eagle
N. R. A.

Description of the Deposits

The Horse Mountain area is a horst or upthrown block of sedimentary rocks between reverse faults up Bruce Creek on the south, and Salt Creek on the north, and the Lady Bell thrust fault on the west.

The thrust of the Lady Bell fault has upturned the sedimentary beds so that they dip at varying angles to the southeast and strike in a general northeast direction.

The general geology is shown on the accompanying photostat maps, which were copied from a report by Dr. John W. Gabelman, geologist, as a thesis presented to the Colorado School of Mines. The geological sections show the uptilting of the beds, even to the extent of overturning and reversing the sequence of beds. (Figures 3 & 4)

The ore so far mined has been found in the base of the Entrada sandstone (Je on the geological maps), just above the contact with the underlying Red Beds(PTR on the maps). It is an impregnation of the sandstone by copper and silver minerals which probably rose from below. In the few places underground, the ore has either lens-like structure parallel to the bedding planes, or an even banded structure likewise parallel to the bedding planes.

The general dip of the Entrada sandstone has not been established, but it is believed to be about 35 degrees to the southeast. The lower workings of the Lady Bell mine, if accessible will give some idea of the general dip.

Observations of the dip at many workings are confusing, as they vary from 19 to 57 degrees to the southeast, generally. Local variations are found, some amounting to a complete overturn, resulting in a northwest dip.

This structure of the ore indicates that it was deposited along slippage planes developed by the intense folding of the strata.

The deep mantle of " wash" or surface debris, and the thick cover of buck brush, make prospecting the outcrop difficult. However, the outcrop has been uncovered at intervals by prospect holes as far as nearly half a mile. Evidence of mineralization is found in nearly every hole examined, as shown by the assay list.

The study so far has developed nothing to show what caused localization of the ore shoots; it is believed however that local faulting and rolls in the strata had much to do with this. Further study of these features may lead to a system for exploration and development.

Continuity of the ore in depth is a problem which must be solved by further exploration. The deepest working seems to have been in the Lady Bell mine, at a depth of about 300 feet below the outcrop, along the dip. What was found there I do not know; presumably the ore was not of high enough grade to stand hoisting up the winzes, hauling off the hill by horses, and shipment to the smelter. If, as supposed, the ore was deposited by rising solutions and oxidized near the outcrop by descending surface waters, then there is the possibility of secondary enrichment in a sulfide ore at greater depth. This was evidently the idea of the operators who drove the Mock tunnel.

The Ore

The ore so far mined is essentially an impregnation of the Entrada sandstone by copper and silver minerals. The copper minerals are malachite and azurite, with practically no sulphide copper visible. The silver minerals are argentite, cerargyrite and native silver.

It is well known that the richer the ore is in silver, the lower the proportionate copper. The best silver ore is a very dark, almost black sandstone, with no individual mineral evident to the unaided eye, and no copper minerals conversely, the higher the copper content, the lower the silver in proportion, as shown by the sampling reported later.

From exploration of the surface and sampling by the Anaconda Lead and Silver Company, there is a suggestion that the copper content increases in the prospect workings along the contact going northeast.

The occurrence of uranium is apparently much the same as the wide-spread deposits of the Colorado Plateau, farther west, where carnotite is the principal uranium mineral. The one ton of uranium ore which was mined on Horse Mountain from the Mayflower claim has much the same appearance- a canary-yellow color, and granular texture. It has also a similar uranium: vanadium ratio(samples B.1, B.2, 11, 13, 14).

A laboratory study of the uranium ore, however, was made by the Atomic Energy Commission, who reported the uranium content as 0.78 percent U_3O_8 by chemical assay, the uranium occuring in secondary minerals identified as volborthite and sklowdowskite.

Mine Workings

The general layout of the mine workings is shown on Figure 2. The Mock tunnel is mapped from a transit-and-tape survey, and the positions of the other workings by transit-and-stadia, made by the Anaconda Company. The other underground workings are mapped from the patent survey records.

Most of the ore production came from the workings on the Lady Bell claim, Survey No. 19522(Fig. 2) at elevation 7988. There are two tunnels here, only one of which is mapped. The second tunnel is a short distance down-dip on the vein from the workings mapped and the two are connected by raises and stopes.

The Mock tunnel, elevation 7660, was driven as shown , to cut the " contact" or ore-bearing stratum at greater depth. The " contact" cut near the face of the tunnel does not correspond in strike or dip with the contact mined above, and further exploratory work should be done here to locate the ore bed, and follow it.

Following the ore bed to the northeast of the Lady Bell workings are numerous pits, cuts, small tunnels and shafts. Most of these are shown on the map, and most of them expose the ore bed.

The " Uranium Workings" are closed by caving at the portals. The Anaconda Company has done considerable work attempting to re-open these workings, which has been interrupted by winter snow. It is expected that the work will resume shortly and the area of the uranium deposit opened up.

The Kleckner tunnel is a cross-cut adit which has reached the contact but very little exploration has been done on the contact.

On the Ground Hog claim the tunnel is open and accessible.

Samples

On the following sheet are listed the samples taken by me principally, with two taken by Mr. J. F. Brenton of the U. S. Vanadium Corporation's uranium-vanadium plant at Rifle, Colorado. The following remarks apply.

Sample 2... Outcrop of vanadium ore at Lady Bell tunnel.

Samples 3.. Ore pile at Kleckner tunnel, from winze.

Samples 4,5,6,7,8,9...From outcrops along the second hill from Kleckner tunnel to Blue Bell No.1 discovery.

Sample 10...Outcrop at Blue Bell No.1 discovery cut. NO.10A is a single specimen from this sample.

Sample 11...Small tunnel at Uranium Workings, streak on wall.

Sample 12 ..Kleckner tunnel; winze on the contact; remainder of a kidney of rich silver ore 2' x 4' x 3'.

Sample 13.. Kleckner tunnel; 10 feet out from the winze, on the contact (Red Beds below, Entrada SS. Above).

Sample 14 ..Kleckner tunnel; out 175 feet from the contact, down in the Red Beds; 20 inches of sheared sandstone giving Geiger Counter reaction.

Sample 15.. Tunnel on Ground Hog No. 2 at 110 feet in; 1-ton pile of ore mined from an underhand here.

Sample 16.. Ore in place in back of tunnel immediately above Sample 15

Sample 7A.. Kleckner tunnel; selected specimens of very dark sandstone, reported high in silver. On ore plat.

Sample 17.. Kleckner tunnel; selected specimens of dark smutty sandstone ore showing native silver.

Sample 8A.. Kleckner tunnel; selected specimens on ore plat of medium dark sandstone carry azurite.

Sample 9A.. Kleckner tunnel; selected specimens on ore plat of light colored sandstone with dark streaks.

Sample B.1.. General sample of the 1-ton of sacked uranium ore, as reported by J. F. Brenton.

Sample B.2..Selected high grade from the 1-ton of sacked uranium ore, as reported by J. F. Brenton.

Samples

No.	Width ft.	Silver oz.	Copper oz.	U_3O_8 %	V_2O_5 %	Description
1						Selected carnotite
2	6				0.39	Outcrop, vanadium
3		120.9	1.27			Kleckner T ore pile
4	3	2.9	.98			Cut 8B, outcrop
5	2	1.0	.35			Do. Do.
6	1	1.9	.98			Tunnel 8A outcrop
7		8.2	1.67			" 9A, on dump
8		.5	1.60			Cut 10A, outcrop
9		.5	1.52			Cut 10A, on dump
10	1	.6	5.20			Blue Bell #1 dis. cut
10A		.5	4.05			Do. selected specimen
11	0.5	10.6		0.05		Tunn. at U. Workings
12	1.5	319.0	.15			Kl. Tunn., kidney
13	1	30.9		0.06		Kl. Tunn. contact
14	1.7			0.17		Kl. Tunn. 175' out
15		40.0	9.85			G. H.#2 Tunn. orepile
16	.7	14.4	6.20			Do. Do. ore in place
17		948.8				Kl.Tunn. native Ag
7A		109.1	4.50			K. T. test spec. dark
8A		94.3	3.10			K. T. test spec. med.
9A		46.8	.10			K.T. test spec. light
B.1				1.25	3.25	1-T carnotite ore
B.2				3.25	3.85	Do. sel. hi grade

Average of 2 samples of the 1 ton of carnotite ore, taken at random from the 26 sax of ore, assayed by Black & Deason of Salt Lake City, and O. N. Briback of Denver

		69.4	6.70	0.51	1.36	

Conclusions

1. Although there is some difference of opinion, it is considered probable that the ore deposits are hypogene, that is, originating at depth and rising along the contact of the Entrada sandstone with the underlying Red Beds, and altered later by descending surface waters.

2. As the ore minerals are all secondary and almost entirely oxidized, there is the suggestion of secondary enrichment at greater depth. If the oxidation was caused by the usual agency of downward percolating surface waters, then there may be, beneath the oxidized zone, a secondary enrichment of promary sulfides. Exploration in the Mock tunnel should solve this problem.

3. It is commonly reported, and samples indicate, that the ore high in silver contains relatively little copper, while the ore high in copper is low in silver. It is also noticeable that, proceeding northeast, copper contents are high, indicating possibly a better copper ore to the northeast.

4. The length of the copper mineralization along the outcrop (2,000 feet, at least) warrants substantial exploration at depth, such as the Mock tunnel.

5. The mode of deposition of the uranium-vanadium ore is as yet uncertain. If it is the same as in the Colorado Plateau region to the west, local deposits may be found throughout the Entrada formation. If, however, the mineralizing agency has been a copper-uranium combination, there is the possibility of a more widespread though low-grade deposition.

6. The processing and marketing of the ore will depend on the metal contents.

If high grade silver ore is encountered it can be sold direct to the Leadville or Salt Lake smelters, depending on the copper content. If low grade silver ore is developed in sufficient quantity it could probably be successfully concentrated in a flotation mill, erected at the mine. There are good sites for a mill and tailing disposal close to the Mock tunnel.

The uranium-vadadium ore can be marketed by shipment to the buyers of such ore in the Colorado Plateau region. If, as seems likely, the highgrade uranium ore carries also a high content of silver and copper, it can probably be sold to the Government-sponsored plant in Utah.

PROPOSED EXPLORATION PROJECTS

1. Explore the uranium-bearing area by driving west from the Kleckner tunnel for 300 feet, and the copper-uranium-silver area by driving east from the Kleckner tunnel for 500 feet, with 500 feet of diamond drilling.

2. Explore the downward continuation of the ore-bed by continuing the Mock tunnel east along the "contact" for 800 feet with 1000 feet of diamond drilling.

3. Explore the outcrop by 1000 feet of diamond drilling.

The cost is estimated as follows:

	Kleckner Tunnel	Mock Tunnel
Labor	$13,718.00	$13,718.00
Supervision	3,832.00	3,832.00
Repairs	625.00	1,090.00
Materials for installation	1,325.00	1,285.00
Equipment	6,173.00	9,373.00
Equipment rental	1,400.00	1,400.00
Operating supplies	11,391.00	16,494.00
Power, truck, miscell.	1,075.00	1,150.00
Diamond drilling	2,000.00	4,000.00
Contingencies & unforeseen	5,561.00	5,558.00
	$47,100.00	$57,900.00

SUMMARY:

Kleckner tunnel	$47,100.00
Mock tunnel	57,900.00
Surface drilling	5,000.00
Total estimated cost	$110,000.00

Respectfully submitted

July 26, 1951

C R Wilfley

C. R. Wilfley

Mining Engineer

2/2/53 [illegible]

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

224 New Customhouse
Denver 2, Colorado

January 26, 1953

Memorandum

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 29 1953

To: C. O. Mittendorf, Administrator

From: Executive Officer, Field Team, Region IV

Subject: Anaconda Lead and Silver Company, Contract Idm-E403, Docket No. DMEA 1938

Enclosed are the original and two copies of Notice of Termination and Rescission of Exploration Project Contract Before Work is Begun.

Copies of this notice have been given to the Operator, to the Fiscal Officer, Region IV, and a copy has been retained for our files.

W. H. King
W. H. King

Enclosures

RECEIVED
FEB 3 - 1953
GENERAL COUNSEL
DEFENSE MINERALS
ADMINISTRATION

cre 1-30-53

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

224 New Customhouse
Denver 2, Colorado

January 5, 1953

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 8 1953

Mr. H. P. Waite
Anaconda Lead and Silver Company
328 Empire Building
Denver, Colorado

Re: Docket No. DMEA 1938
Contract No. Idm-E403

Dear Mr. Waite:

This office has received a copy of a Notice and Demand dated December 8, 1952, signed by S. A. Meck. This notice terminates and cancels all rights of the Anaconda Lead and Silver Company under the sub-lease on the Ground Hog No. 1, Ground Hog No. 2, and the Mayflower Lode mining claims.

In view of this cancellation we do not believe we would be justified in extending the starting date of your contract.

Very truly yours,

W. H. King

W. H. King
Executive Officer, DMEA
Field Team, Region IV

JFS:jp
cc Contract
Chron
COMittendorf (2)
WMTraver

November 19, 1952

Memorandum

To: Hazel Berry, Operating Committee, DMEA

From: Grace L. Ault
Rare and Miscellaneous Metals Division

Subject: Routine approval of Region IV contracts

Division copies of the following contracts finalized by the Executive Officer of Region IV have been received, reviewed and approved:

Contract No.	Docket No.	Applicant Company
Idm-E403	DMEA-1938	Anaconda Lead and Silver Company
Idm-E440	DMEA-2515	The Moreno Cripple Creek Corp.

Grace L. Ault

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 27 1952

224 New Customhouse
Denver 2, Colorado

October 22, 1952

REGISTERED # 50847

Memorandum

To: C.O. Mittendorf, Administrator, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Contract Idm-E403, Docket DMEA 1938, Anaconda Lead and Silver Company (Uranium)

Enclosed are the original and two copies of Contract Idm-E403. Copies of this contract have been given to the operator, the Fiscal Officer, Region IV, and a copy has been retained for our files. The State of incorporation has been added to all copies of the contract. The date of October 26, 1951, has been inserted in the Landlord's Subordination Agreement signed by W.F. Kleckner.

Referring to the last paragraph of the letter dated October 13, 1952, from Frank E. Johnson which states there are no claim lines on Figure 2, the relation of the North Dakota incline to the property line is shown in Figure 1. All of the workings are on the Ground Hog No. 1 claim. Figure 2 is the detail of a portion of Figure 1.

W. H. King
W. H. King

Enclosures

cal 10-27

Docket 10-30-52
Closed Dec 11/19

RECEIVED
NOV 21 1952
GENERAL COUNSEL
DEFENSE MINERALS
ADMINISTRATION

FILE COPY
SURNAME:

UNITED STATES 140
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

OCT 13 1952

Mr. W. H. King, Executive Officer
DMEA Field Team, Region IV
224 New Customhouse
Denver 2, Colorado

Subject: Anaconda Lead and Silver Co.
Docket No. DMEA-1938
(Uranium)

Dear Mr. King:

This contract is returned for compliance with the instructions contained in footnote 2 of the contract. After the name "Anaconda Lead and Silver Company" in the opening paragraph, insert the following: "a corporation duly organized and existing under and by virtue of the laws of the State of _____," and fill in the blank with name of the State of incorporation. There should also be inserted in the Landlord's Subordination Agreement signed by W. F. Kleckner the date on which he signed it, which should be before the date on which the contract was signed.

Contract No. Idm-E403 has been assigned to this contract. Kindly retain the Operator's, the Field Team's and Finance Office copies for distribution and return the remaining copies to this office.

We invite your attention to the fact that there is no claim map showing the claims covering the geological structure being explored. The three claims which are the subject of this contract are the Ground Hog No. 1 and No. 2, and the Mayflower. Figure No. 1 refers only to Ground Hog No. 1. Figure No. 2 shows no claim lines or tie to a claim corner nor does it definitely indicate Entrada Contact or where it passes through the claims.

F.H. 10-13-52

Sincerely yours,

(signed) FRANK E. JOHNSON

(2HB)

Chairman, Operating Committee

Enclosure

Approved:

J. H. Hedges (2HB)
Member, Bureau of Mines

T. P. Thayer (2HB)
Member, Geological Survey

AEKane/em-10-7-52
cc: Mails & Files
Adm. Reading File
Operating Comm.
J. H. Hedges
T. P. Thayer
J. L. Hofflund
A. E. Kane
E. W. Ellis
Chron.
Pending

DEPARTMENT OF THE INTERIOR
RECEIVED
OCT 1 6 1951
Defense Minerals Administration,
Production Expansion Division,

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

224 New Customhouse
Denver 2, Colorado

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 1 5 1951

October 10, 1951

Memorandum

To: Executive Secretary, Defense Minerals Administration

From: DMA Field Team, Region IV

Subject: DMA Docket 1938, Final Report, Anaconda Lead and Silver Company, applicants, Horse Mountain Uranium Mines, Eagle County, Colorado

The subject report has been approved by us and an exploration loan of $10,000.00 is being processed.

Your copies of the report and the brochure are being held here until the execution of the exploration project contract.

J. H. East, Jr.

for A. H. Koschmann

To Reg IV for report. Rare & Minor Metals

Notes on Contract DMEA-1938
Mr. F. Sommer Schmidt

The attached contract executed in the Field Region IV- 6 copies- has been forwarded to this office to receive a number.

Engineering

I am not in a position to pass on the advisability of doing the projected work. The engineering figures are apparently reasonable though not enough breakdown is given to permit much analysis.

If we eliminate from the total of $10,000 such amounts as are for building a road, and building a hoist house and miscellaneous and contingencies and take only the following:

Labor, Supervision & Consultants	$5,500.00
Operating Materials & Supplies	1,891.00
Operating equipment rented none purchased or furnished	1,439.00
Total	$8,830.00

The shaft is to be rehabilitated for 200 feet. There is no way of estimating what is meant by rehabilitation, but assume it to be $10.00 per foot or $2,000.

Leaving $6,830.00 for the 200 feet of drifting on the 200 level would make $34 per foot, all of which is within reason.

There should be a map of the claims in the contracted area, showing that they cover the geological structure we are exploring, to give ample coverage for royalties. The claims are Ground Hog No. 1 and No. 2 and Mayflower. The only claims shown on a map Fig. No. 1 is the Ground Hog No. 1 and the map Fig. No. 2 shows no claim lines or tie to corner nor the Entrada Contact nor where it is passing through the claims. There must be more known about this Entrade contact than is shown on this map Figure No. 2 or it would not be explored. The map should show this.

Legal

The property is evidently owned by W. F. Kleckner and leased to Sam Mack who has subleased it to Anaconda Lead and Silver Co. who have the contract. The "Landlors Subordination Agreement" signed by Kleckner is not dated, nor is the name of the Lessee given. I think this should be filled out "Sub-lessee Anaconda Lead and Silver Co".

Sam Mack dates a Subordination Agreement October 26, 1951 in which he refers to land described in a contract dated Sept. 15, 1952.

This "Landlords Subordination Agreement" form is no longer used, but apparently these field offices are stocked up on them, and it should be decided whether they should be instructed not to use them, but to provide themselves with the form "Owners Consent to Lien MF-203."

F. Sommer Schmidt

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

224 New Customhouse
Denver 2, Colorado

September 15, 1952

REGISTERED

Memorandum

To: C. O. Mittendorf, Administrator, DMEA

From: Executive Officer, Field Team, Region IV

Subject: Contract Docket DMEA 1938, Anaconda Lead and Silver Company (Uranium)

Enclosed are six copies of a contract between the Government and the Anaconda Lead and Silver Company. All copies have been properly executed by the company and signed by the Executive Officer, DMEA Field Team, Region IV.

Please assign a contract number and return the required number of copies of the contract to this office.

W. H. King
W. H. King

Enclosures

RECEIVED
OCT 2 - 1952
GENERAL COUNSEL
DEFENSE MINERALS
ADMINISTRATION

8 cs
9/22/52

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
SEP 18 1952

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

AUG 20 1951

Mr. J. H. East, Jr.
224 New Customhouse Bldg.
Denver 2, Colorado

Dear Sir:

We attach "Review of Application for Exploration Assistance" on:

Docket No. 1938

Commodity Uranium

Applicant Anaconda Lead and Silver Co.

Please expedite the consideration of this application with particular reference to the points noted in the attached "Review."

Very truly yours,

Tom Lyon, Chairman
Coordinating Committee

For Bureau of Mines

For Geological Survey

6/5/51

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. DMA - 1938

Commodity Uranium

Total Amount $110,000

Govt. Participation $99,000

1. Name and Address of Applicant Anaconda Lead and Silver Company

1717 East Colfax Avenue, Denver 6, Colorado

2. Location of Property 7 miles southeast of Eagle, Eagle County, Colorado.

3. Mineral or metal Uranium Is it listed in Section 9 of MO-5? Yes

If not, application will be rejected.

4. Geologic probability of discovery—based on data in application (question #16, 17, 18, 20 and 22)*

Mines or Survey reports, etc., do you rate chances:

a) Good

b) Poor

c) None

d) Don't know—needs field examination Report by Field Team is required. See Item 17.

e) Is there an alternative and favorable project? (If so, attach an explanation)

5. Is the applicant's right to the property clearly stated? (question 5, 6, 7)*

6. If applicant is a lessee, is a copy of the lease attached?

Does the lease have sufficient time to run to cover a future productive period?

*question numbers are those of MF-103

7. Are subordination agreements necessary?_____

a) MF-201?_____

b) MF-202_____

8. From the data presented, does the proposed project appear feasible from the point of view of:

a) Available manpower_____

b) Equipment and supplies_____
(Question 14 plus general knowledge of availability)*

c) Accessibility (question 12)*_____

d) Water (question 13)*_____

e) Power (question 13)*_____

Is a field check needed on any of these points?_____

9. Does the experience of the applicant appear to be adequate to assure that he can properly conduct the proposed project? (question 4)*_____

_____

Is a field check needed on this point?_____

10. Exhibit A. (questions 21 and 22)*

a) Is the project adequately described?_____

If not, are there sufficient data given so that you can describe the project?_____ If so, attach a draft.

b) Is there an adequate map or sketch of the proposed work?_____

_____

c) Is the proposed work "exploration" under the definition of Section 8, MO-5?_____

If not, what part of it is?_____

_____

_____

_____

Is this part a worthwhile exploration project?_____

d) Are the cost estimates detailed?_____

Can they be summarized, as on page 2 of Procedural Instruction 5-A, from the available data?_____ If so, attach a draft.

e) Are the cost estimates reasonable?_____

f) Should more information be requested from applicant?_____

g) Is a field examination necessary to complete Exhibit A?_____

11. Exhibit B (question 23-d)*

a) Is it applicable?_____

b) If so, are sufficient data furnished?_____ If so, attach a draft.

c) Is a field check needed?_____

12. Exhibit C (question 23-e, f and g)*

a) Is it applicable?_____

b) Sufficient data?_____ If so, attach a draft.

c) Are rents and charges reasonable?_____

d) Is a field check needed?_____ _____

13. Exhibit D (question 23-a, b)*

a) Are there sufficient data?_____

b) Is the schedule adequate for the work proposed?_____

c) Is the schedule excessive for the work proposed?_____

d) Are the proposed wages and salaries reasonable?_____

e) Is a field check needed?_____

14. Exhibit E (question 23-c)*

a) Is it applicable? _____

b) Sufficient data? _____

c) Reasonable? _____

d) Field check needed? _____

15. In your judgment, can the proposed work be done in the proposed time? _____

(All exploration must be completed within two years)

16. If field examination is not needed, attach your recommendation.

17. If field examination is needed, do you have any special instructions for the field team not indicated by your answers to the foregoing question? It is recommended that this application be reviewed with Mr. Lincoln R. Page, U.S. Geological Survey, Denver Federal Center, Denver, Colorado. Suggest applicant reduces his equipment and considers avoiding duplication by doing one job first, then the next one. $110,000 for 1600 feet of driving and 2500 ft of diamond drilling is high. 12½ lbs of dynamite per foot advance is pretty heavy for a standard 5x7 drift.

Reviewed by: E R Gordon

H W Peirson, U.S.G.S.

Jo Hosted AEC

Date August 13, 1951

INT.-DUP. SEC., WASH., D.C. 99009

FILE COPY
SURNAME:

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

Gen Bourret
For Moon

a. E.C.

AUG 20 1951

Mr. H. P. Waite, Vice President
Anaconda Lead & Silver Co.
1717 East Colfax Avenue
Denver 6, Colorado

Re: Uranium
DMA-1938

Dear Mr. Waite:

Your application, docket 1938, for an exploration project in the amount of $110,000, has been received by the Minor and Rare Metals Branch of the Supply Division.

Before a decision can be reached on your request we find it is necessary to obtain additional information on your property. Your application therefore is being referred to the office of the Executive Officer of DMA field team IV, Mr. J. H. East, Jr., 224 New Customhouse Building, Denver 2, Colorado, with the request that the needed information be supplied to us.

In the event you have additional information that will assist the field engineers in evaluating this proposition we request that you submit such data in writing to Mr. East. During the period your application is in the hands of the field team, we would suggest you direct all inquiries to that office.

Yours very truly,

SIGNED BJ 8/20

Tom Lyon, Director
Supply Division

EGordon/mh 8-15-51

cc: Adm. Read. File
Reports and Records
Lyon
Bourret
Keiser, Hosted, USGS
Field Team IV
DMA docket files

August 8, 1951

Mr. H. P. Waite, Vice President
Anaconda Lead & Silver Company
1717 East Colfax Avenue
Denver 6, Colorado

Subject: DMA-1938
Re: Exploration Loan -
Horse Mountain Mines

My dear Mr. Waite:

Receipt is acknowledged of your application and attachments of July 26, 1951 for an exploration loan under the Defense Production Act of 1950.

The application was assigned Docket Number DMA-1938 and referred to Mr. Weston Bourret, Chief, Minor & Rare Metals Branch on August 8, 1951.

In any future correspondence relating to your application, kindly refer to DMA-1938.

Sincerely yours,

ROBERT E. ADAMS
8/8 cc

Robert E. Adams
Chief, Reports & Records Unit

REAdams:jc
cc: Bourret
Lyon
✓ Reports & Records File

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

REGION IV

OFFICE OF
REGIONAL DIRECTOR

224 NEW CUSTOMHOUSE
DENVER 2, COLORADO

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 6 1951

August 1, 1951

Memorandum

To: Landon Strobel, Executive Secretary
Defense Minerals Administration

From: Executive Officer, DMA Field Team, Region IV

Subject: DMA Applications, Form MF-103

Enclosed herewith are applications for exploration aid, Form MF-103, as follows:

Anaconda Lead and Silver Company - Dma - 1928
Ryan Building
Denver 6, Colorado

United Mining Development Company, Inc. - Dma - 1923
656 South 2nd West
Salt Lake City 4, Utah Sent to Mr. Billings, 8/6/51.

P. T. Allsman, Alternate

Enclosures

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 6 1951

ANACONDA LEAD AND SILVER CO.

AND SUBSIDIARIES

EXECUTIVE OFFICE: RYAN BUILDING, DENVER 6, COLORADO
Telephone DExter 3284

Office of
HOWARD P. WAITE
Executive Vice-President

REGIONAL DIRECTOR'S
OFFICE
REGION IV
JUL 31 1951
BUREAU OF MINES
DENVER, COLORADO

July 31, 1951

Mr. Jack East Jr.,
U. S. Bureau of Mines,
Denver,
Colorado

Dear Mr. East:

We are inclosing herewith 4 copies of Form MF-103 together with the engineering data relative to a loan for the development of our copper-uranium mines, located in Eagle County, Colorado.

The total exploration and development cost as estimated by our Consulting Engineer, Mr. C. R. Wilfley, amount to $110,000.00 and we are herewith filing for a loan in the amount of $55,000.00.

Will you please acknowledge receipt of our application and the 4 reports attached hereto.

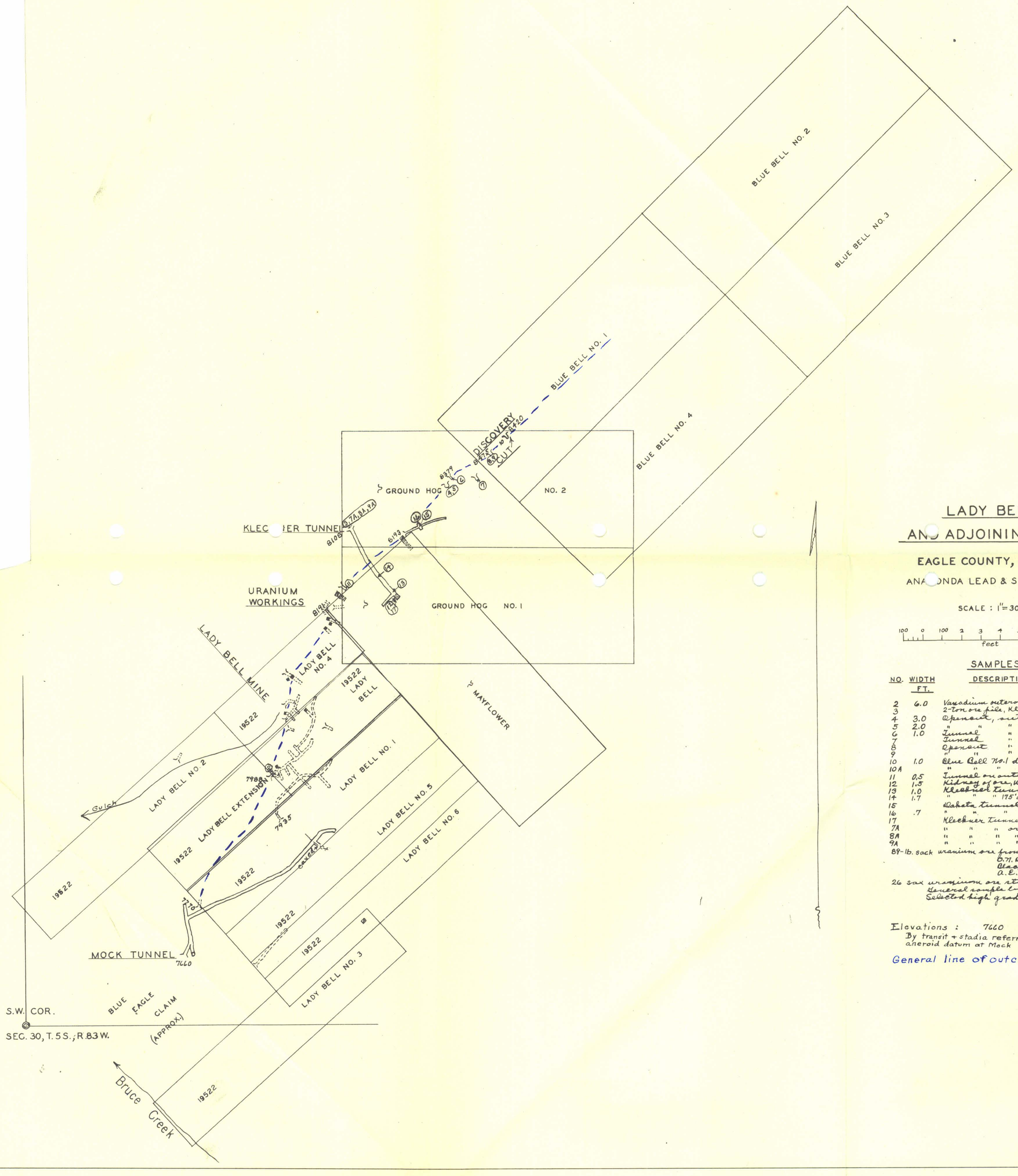
Sincerely yours,
Anaconda Lead and Silver Company,

H P Waite

H. P. Waite,
Executive Vice President

HPW:lb

FIG. 2
S.1



LADY BELL AND ADJOINING MINES

EAGLE COUNTY, COLORADO

ANACONDA LEAD & SILVER COMPANY

SCALE : 1" = 300'

100 0 100 2 3 4 5 6 7 8 900
feet

SAMPLES

NO.	WIDTH FT.	DESCRIPTION	OZ. AG	PERCENT CU	U_3O_8	V_2O_5
2	6.0	Vanadium outcrop at Lady Bell				0.39
3		2-ton ore pile, Kleckner Tunnel	120.9	1.27		
4	3.0	Opencut, outcrop of, S.S.	2.9	.98		
5	2.0	" " " " SH.	1.0	.35		
6	1.0	Tunnel " " S.S.	1.9	.98		
7		Tunnel " " ss. on dump	8.2	1.67		
8		Opencut " " " " "	.5	1.60		
9		" " " " " " "	.5	1.52		
10	1.0	Blue Bell No. 1 disc. cut, ore in place	.6	5.20		
10A		" " " " " specimen	.5	4.05		
11	0.5	Tunnel on outcrop - "Contact"	10.6	.05	0.06	0.11
12	1.5	Kidney of ore, winze, Kleckner T.	319.0	.15		
13	1.0	Kleckner tunnel "Contact"	30.9	.05	.07	.19
14	1.7	" " " 175' out from winze			.17	.43
15		Dakota tunnel, small ore pile	40.0	9.85		
16	.7	" " " ore in place	14.4	6.20		
17		Kleckner tunnel, specimen, native ag	948.8			
7A		" " " ore float - dark S.S.	109.1	4.50		No
8A		" " " " " ss., azurite	94.3	3.10		
9A		" " " " " white S.S.	46.8	.10		
89-lb. sack		uranium ore from storage in Eagle:				
		O.M. Ribach	64.6	6.60	.48	1.08
		Black + Deacon	73.8	6.85	.54	1.65
		A.E.C.			.78	
26 sax		uranium ore stored in Eagle:				
		General sample by Brenton			1.25	3.25
		Selected high grade " " "			3.25	3.85

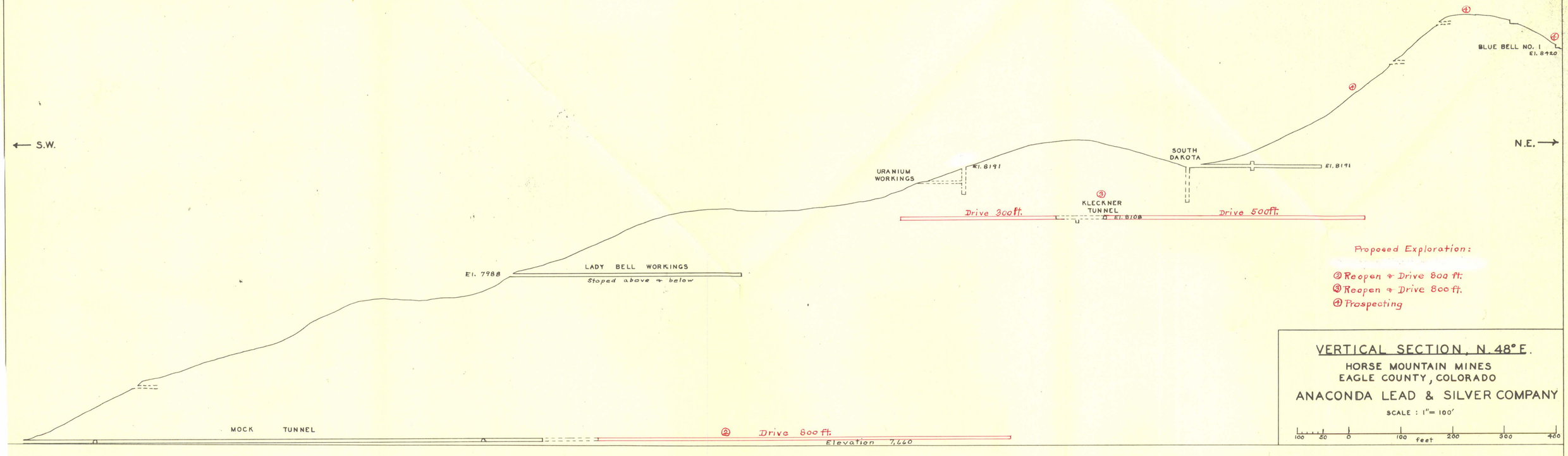
Elevations : 7660
By transit + stadia referred to aneroid datum at Mock tunnel

General line of outcrop : — — — — —

C.R. Wilfley
9-16-1950
5-20-1951

FIG. 5

M.I



E.R. Wiffen
3-6-51

FIG. 3

S.2

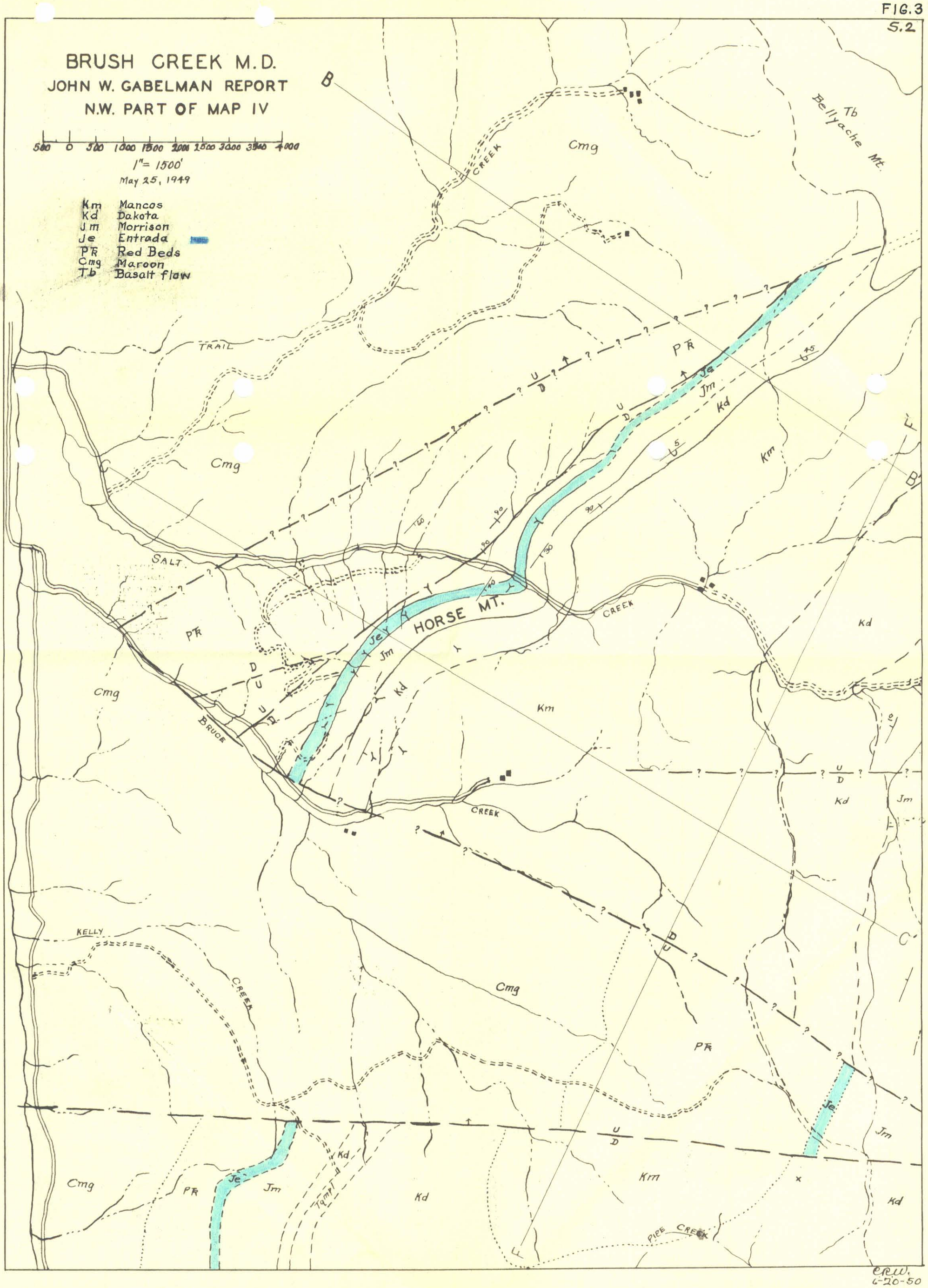
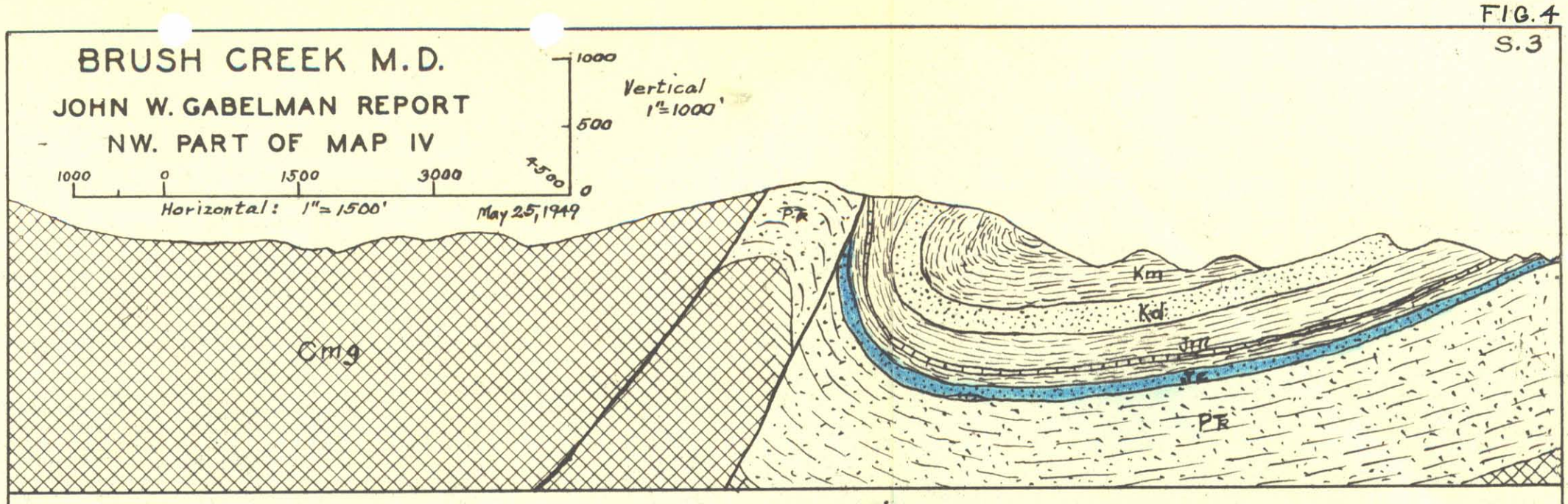

BRUSH CREEK M.D.
JOHN W. GABELMAN REPORT
N.W. PART OF MAP IV
500 0 500 1000 1500 2000 2500 3000 3500 4000
1" = 1500'
May 25, 1949
Km Mancos
Kd Dakota
Jm Morrison
Je Entrada
PR Red Beds
Cmg Maroon
Tb Basalt flow
B
B'
C
C'
E
E'
Bellyache Mt.
Tb
CREEK
Cmg
TRAIL
PR
Je
Jm
Kd
Km
SALT
HORSE MT.
CREEK
BRUCE
CREEK
KELLY
CREEK
PIPE CREEK
Tqmp
U
D
CRW.
6-20-50

FIG. 4
S.3

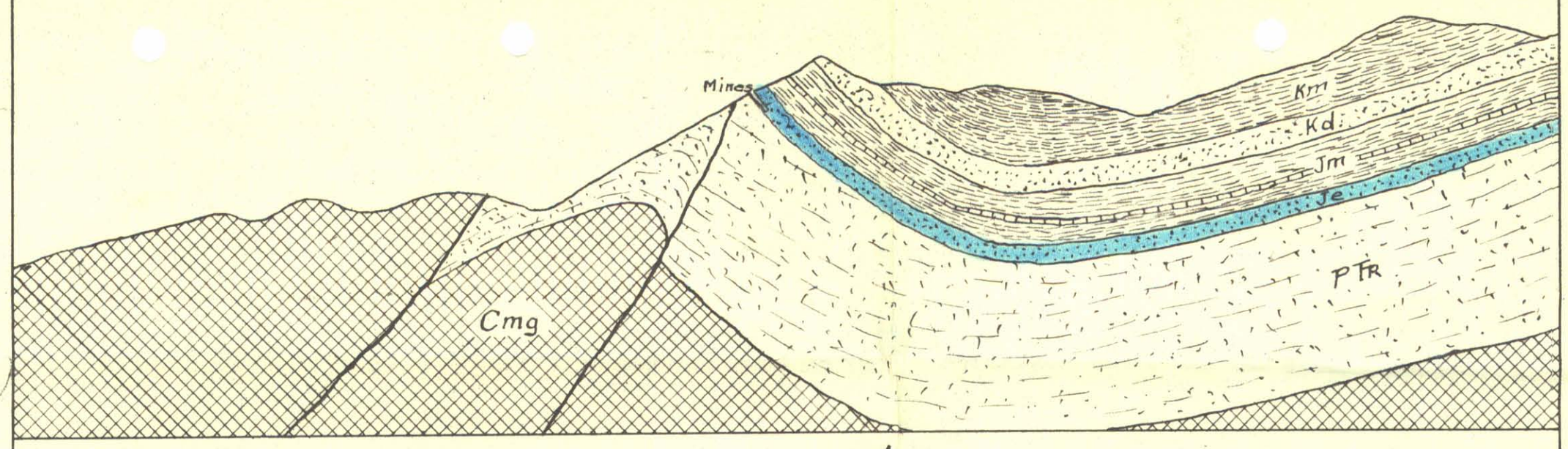
BRUSH CREEK M.D.

JOHN W. GABELMAN REPORT

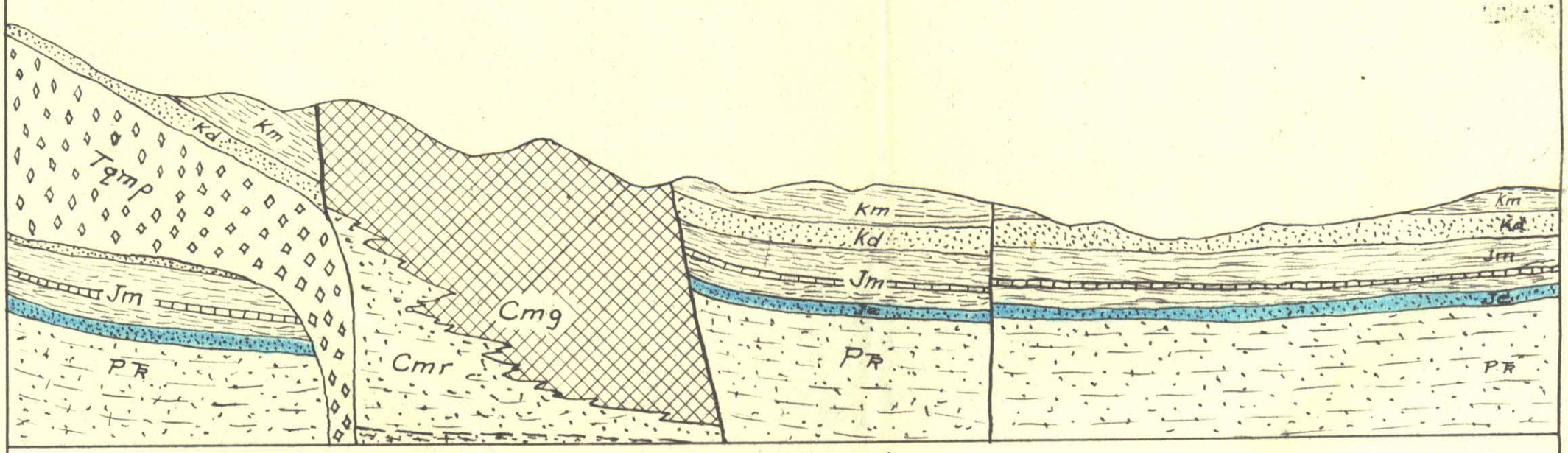
NW. PART OF MAP IV



SECTION B-B'



SECTION C-C'



SECTION F-F'

Je = Entrada Sandstone: "Contact" or ore bed

CRW
6-20-50