[redacted]

DEFENSE MINERALS EXPLORATION ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMEA Docket No. 4427

DO NOT DETACH THIS SLIP

Action on this document is recorded and controlled in the Docket, Mails and Files Branch. Any movement of this document between divisions or offices in DMEA or movement outside DMEA must be recorded in the Docket, Mails and Files Branch, and therefore, the document must be routed through that Branch.

Copies sent to:

1 cy held for Kiilsgaard

Routing Slip

To:	~~8/20/56~~ 700	Date	8/20/56
To:	Oper. Com.	Date	9-11-56
To:	Mr Johnson	Date	9-11-56
To:	Mr Crawford	Date	9-17-56
To:	Oper. Com.	Date	9-25-56
To:	F.E. Johnson	Date	9-26-56
To:	Don	Date	9-26-56
To:	Mr Johnson	Date	12-14-56
To:	Don	Date	12-17-56
To:	Oper. Com.	Date	1-23-57
To:	Code 110	Date	1-23-57
To:	" 100	Date	1-23-57
To:	" 225	Date	1-23-57
To:		Date	
To:		Date	

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DMEA Form 9

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE

DMEA NO. 4427

Application (Denied
(~~Withdrawn~~
(After disposition, delete items not applicable)

Contract (Terminated - not Certified
(Cancelled
(Terminated - Certified
(Royalty Agreement

This is the official contract file containing all official records of the project. The records contained in the files are checked and are arranged in this order:

Left Side

Interim Royalty Audits
Reports of Royalty Review
Certification of Discovery
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
(3) Envelope for maps

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
(2R) Interim Reports
(2R) Operator's monthly reports and all attachments (latest on top)
✓On-site Exam Report(s) (Tab)
(4) Settlement Sheets

When the volume of records is expected to warrant additional folders, or when convenience of reference warrants separate folders for certain records, they should be set up in this order:

Left Side

Folder No. 2: (In chron. order) Interim Summary Reports by W. O. Engineers

Right Side

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

Folder No. 3: Maps (Use pocket folder or envelope. Fold maps with title block out and show reference to related document or correspondence.)

Folder No. 4: Settlement Sheets

Folder No. 5: Drill Logs

A G R E E M E N T

THIS AGREEMENT, made and entered into this 13th day of August, 1956, by and between N. R. DOUGLASS, THOMAS J. CLARK and J. R. CAGLE, a co-partnership, doing business as Western Investors, parties of the first part, hereinafter referred to as Lessors, and MOUNTAIN TOP MINING AND MILLING CO., a Colorado corporation, party of the second part, hereinafter referred to as Lessee,

WITNESSETH:

That for and in consideration of the premises and the mutual covenants and agreements herein contained, the parties agree as follows, to-wit:

1. That the Lessor does hereby let, lease and demise unto the Lessee the following described unpatented lode mining claims, situate in the Gateway (unorganized) Mining District, Mesa County, Colorado, to-wit:

> Roger Numbers 1 to 12, both inclusive, location certificates of said mining claims having been recorded in Book 672 at Pages 284 through 295 of the Records of the County Clerk and Recorder of Mesa County, Colorado; EXCEPT that part of Roger Numbers 11 and 12 in conflict with the Pick and Shovel Claim, said Pick and Shovel Claim having been located prior to the location of the Roger Claims;
>
> Mike Numbers 1 to 22, both inclusive, the location certificates of said mining claims having been recorded in Book 672 at Pages 282 through 283 of the Records of the County Clerk and Recorder of Mesa County, Colorado;

for a period commencing on this date and for so long a time hereafter as the Lessee may be exploring, developing or mining ores from said premises.

2. The Lessee agrees to pay and the Lessors agree to accept as rental for said premises ten per cent (10%) of the gross values of all ores, metals and minerals mined and sold from said premises, including ten per cent (10%) of any production bonus paid by the United States Atomic Energy Commission, but excluding all haulage or development allow-

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REGION III
AUG 16 1956
BUREAU OF MINES
DENVER, COLORADO

allowances paid by any agency; said haulage and development allowances shall be and remain the sole and separate property of the Lessee.

3. The parties hereto mutually agree that this instrument shall constitute the authority for any buyer or buyers of ore mined and sold from said premises to pay directly to the Lessors the royalty interests due them as hereinabove provided.

4. The Lessee agrees that it will immediately go upon the property above describe and commence exploratory drilling thereon, and agrees that it will within one year from the date hereof do and perform Thirty Three Hundred Dollars ($3300.00) worth of exploratory drilling upon said claims, and agrees that it will, during the term hereby created, do work upon said claims annually having a value of Thirty Three Hundred Dollars ($3300.00) so as to comply with the requirements of applicable laws relative to annual assessment work done upon said premises. Lessee agrees that it will make, prepare and file the necessary affidavits showing that said assessment work has been done during each annual assessment period. The Lessee agrees to furnish to the Lessors, upon demand, all geological information obtained by it in the exploration, development or mining of said premises. The parties agree that Lessors or their duly authorized agents may go upon said mining premises at any time during the term hereof for the purpose of surveying, sampling and inspecting said premises, provided, that the activities upon the premises by the Lessors or their agents shall not be conducted so as to interfere with the work being done upon said premises by the Lessee.

5. The Lessee agrees that in the event ores of commercial quality and quantity are discovered upon said mining claims by the drilling program to be instituted by the Lessee, that the Lessee shall thereafter proceed with reasonable diligence to mine and sell said ores.

6. Lessee agrees that it will explore, develop and mine said premises, in the event commercial ores are discovered thereon, in a good and miner-like fashion with due regard to the preservation of said premises as a good and workable mine.

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AUG 16 1956
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7. Lessee agrees that it will promptly pay all expenses incurred by it in exploring, developing and mining said premises so as to prevent the filing of liens thereon. Lessee further agrees that it will post upon said premises in a conspicuous place a notice that the same are under lease to Lessee and the Lessors are in no way responsible for any labor, materials, machinery, supplies and fixtures furnished upon said property or used in connection with the mining operations conducted thereon by Lessee.

8. The Lessee agrees that it shall carry workman's compensation insurance as required by the statutes of the State of Colorado. Lessee further agrees to assume all responsibility in case of accident or injuries to any person or property upon said premises and agrees to hold and save the Lessors free and harmless therefrom.

9. It is mutually agreed by and between the parties hereto that the Lessee may terminate this Agreement at any time hereafter by giving to the Lessors thirty (30) days notice in writing of its intention so to do, said notice to be mailed by registered mail to the Lessors at Grand Junction, Colorado, and shall be deemed to have been given on the date of the mailing thereof.

10. In the event of the termination of this lease by either party hereto the Lessee shall have the right within sixty (60) days of the termination thereof to remove any property placed upon said premises by Lessee.

11. It is mutually understood by and between the parties hereto that in the event of the violation of any covenant and condition herein contained to be kept and performed by the Lessee, the Lessor may at its election terminate this agreement by giving to the Lessee thirty (30) days written notice of its intention so to do. Said notice shall contain in substantial detail the breach or default of the Lessee, and unless the Lessee, within said thirty (30) day period, shall cure said default or commence to cure the same and proceeds with reasonable diligence to cure any said default or breach, this Agreement

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AUG 16 1956
BUREAU OF MINES
DENVER, COLORADO

shall thereupon terminate and the Lessors or their agents may thereupon enter upon said premises and dispossess all persons found occupying the same, with or without force and with or without process of law. Said notice shall be mailed to the Lessee at Grand Junction, Colorado by United States Registered mail and shall be deemed to have been given on the date of the mailing thereof; it being understood and agreed by and between the parties hereto that time is of the essence of this agreement.

This Agreement shall extend to and be binding upon the successors and assigns of the parties hereto.

IN WITNESS WHEREOF, the parties hereto have hereunto set their hands and seals the day and year first above written.

M. K. Douglass (SEAL)
M. K. DOUGLASS

Thomas J. Clark (SEAL)
THOMAS J. CLARK

J. R. Cayle (SEAL)
J. R. CAYLE

Parties of the First Part

MOUNTAIN TOP MINING AND MILLING CO.

By _____
President

ATTEST:

_____
Secretary

Party of the Second Part

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DENVER, COLORADO

ASSIGNMENT OF LEASE

FOR AND IN CONSIDERATION of One Dollar and other valuable consideration, cash in hand paid, the undersigned hereby assign, transfer, and set over to Mountain Top Mining and Milling Co., all their right, title and interest in and to a certain Lease Agreement entered into on November 7, 1955 between Norma S. Engebretson, Estate of Alfred J. Engebretson and G. J. Smith as Lessors, involving the following described unpatented lode mining claims situate in the Tenderfoot Mining District, Mesa County, Colorado, to-wit:

Aleda M.	El Dorado	Nellie
Bea No. 1	Flamingo	Nora H.
Bea No. 2	Holiday	Sunrise
Becky	La Salle	Tuxedo
Black Magic	Lottie No. 1	Uranium Belle
Blue Bell	Lottie No. 2	White Heather
Cactus Kate	Lucky Day	Yellow Bird
Eddie C.	Marjorie Ann	Franklin D.
Eddie F.	Nancy	

S/ J. R. Cagle
J. R. Cagle

S/ Thomas J. Clark
Thomas J. Clark

S/ M. R. Douglass
M. R. Douglass

S/Richard E. Cowger
Richard E. Cowger

The undersigned hereby consent to the assignment by J. R. Cagle, Thomas J. Clark, M. R. Douglass and Richard E. Cowger of all their right, title and interest in and to the lease above referred to and agree that Paragraph 8 of said Lease Agreement hereafter shall be null and void and of no further force or effect.

S/ Norma S. Engebretson

Estate of Alfred J. Engebretson

By_____
Administratrix

S/ G. J. Smith
G. J. Smith

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DENVER, COLORADO

LEASE AGREEMENT

THIS AGREEMENT, Made and entered into on this the 7th day of November, 1955, by and between NORMA S. ENGEBRETSON, ESTATE OF ALFRED J. ENGEBRETSON and G. J. SMITH, parties of the first part, hereinafter referred to as lessors, and J. R. CAGLE, THOMAS J. CLARK and M. R. DOUGLASS, doing business as WESTERN INVESTORS, parties of the second part, hereinafter referred to as lessees,

WITNESSETH:

WHEREAS, the first parties are the owners of the following described unpatented lode mining claims situate in the Tenderfoot Mining District (unorganized) in Mesa County, Colorado, to-wit:

NAME OF CLAIM	BOOK	PAGE	NAME OF CLAIM	BOOK	PAGE
Aleda M.	606	210	Lottie No. 1	606	213
Bea No. 1	606	220	Lottie No. 2	606	221
Bea No. 2	606	206	Lucky Day	606	218
Becky	606	197	Marjorie Ann	606	203
Black Magic	606	201	Nancy	606	196
Blue Bell	606	214	Nellie	606	208
Cactus Kate	606	195	Nora H.	606	198
Eddie C.	606	215	Sunrise	606	216
Eddie F.	606	219	Tuxedo	606	209
El Dorado	606	222	Uranium Belle	606	223
Flamingo	606	202	White Heather	606	204
Holiday	606	207	Yellow Bird		
La Salle	606	205	Franklin D.		

and

WHEREAS, it is the mutual wish and desire of the parties hereto that the lessors lease unto the lessees said mining claims upon the terms and conditions hereinafter set forth.

NOW, THEREFORE, For and in consideration of the premises and the mutual covenants and agreements herein contained the parties agree as follows, to-wit:

1. That the lessors shall let, lease and demise, and by these presents do let, lease and demise unto the lessees all of the above described unpatented lode mining claims for a period commencing on this date and ending on the 7th day of

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November, 1960, and so long a time thereafter as the lessees may be exploring, developing or mining ores from said premises.

2. The lessees agree to pay and the lessors agree to accept as rental for said premises 20% of the net profits realized from the sale of ores, metals or minerals mined and sold from said premises. The net profits as herein used are defined as the sum remaining after the deduction of all costs incurred by the lessees in exploring, developing or mining said premises. Lessees agree that they shall keep and maintain books and records of all expenses and receipts of said operation; said books and records shall be kept in accordance with acceptable accounting practices consistently applied.

3. The lessors agree that they have good possessory title to the mining claims herein described as against everyone, excepting the United States of America, and further agree and warrant that the lessors, for themselves, their legal representatives, successors or assigns, have not encumbered or alienated any of the above described property, and lessors do hereby warrant their title to said property as against, but only against, any person or persons lawfully claiming said property through or under them.

4. The lessees shall pay to each of the lessors 6 and 2/3% of the profits realized from the sale of ores, metals and minerals from the above described premises as afresaid. Profits shall be computed each three months during the term hereof and the payment thereof shall be made to the lessor within fifteen (15) days after the termination of each six months period.

5. The lessors shall have the right and privilege of inspecting the books and records at reasonable times and places.

6. The lessors agree that they shall obtain from the County Court of Mesa County the authority of the Court to permit the Estate of Alfred J. Engebretson to enter into this Lease Agreement and shall furnish to the lessees a certified copy of the Order of Court granting said authorization.

7. It is mutually understood and agreed by and between the parties hereto that there are certain conflicting claimants to a part of the area encompassed

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AUG 16 1956
BUREAU OF MINES
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by the mining claims above described. The lessors do hereby give and grant unto the lessees the full right and authority to settle said conflicts in any manner acceptable to the lessees. The lessors agree to make and execute any and all instruments necessary to carry out any settlement of said conflicts made by the lessees.

8. The parties further mutually agree that at any time during the term hereof should the lessees desire to sell the above described mining claims, the lessees agree, upon receipt of a bona fide offer for the sale and purchase of said mining claims, to notify the lessors in writing of said offer for the purchase of said mining claims, and lessors may within five days after the mailing of said notice, as hereinafter provided, elect to purchase the lessees' interest in and to said mining claims by paying to lessees 80% of the amount of said bona fide offer for the purchase of said claims. The parties further agree that in the event the lessors fail to exercise their right to purchase lessees' interest, as aforesaid, then and in that event, the lessors must sell their interest in and to said mining claims and agree that they shall thereupon make, execute and deliver to the purchaser of said mining claims a good and sufficient Quitclaim Mining Deed conveying said claims to the purchaser thereof, and the net proceeds derived from such sale shall be paid 80% thereof to lessees, and 20% thereof to lessors.

9. THE LESSEES AGREE, as follows:

(a) To enter upon the leased premises and to work and mine the same in a good and minerlike fashion, with due regard to the development and preservation of the premises.

(b) To permit the lessors, or their agents, to enter upon the premises herein described, at all reasonable times, for the purposes of inspection.

(c) To assume all responsibility in case of accidents to any persons upon the premises, or any employees of lessees in and about said property, and to carry, at all times Workmen's Compensation Insurance as required by the State of Colorado.

(d) To fully comply with all legal requirements of the State and Federal mining inspectors.

(e) To promptly pay all expenses incurred by them for labor and material furnished or used upon said premises so as to prevent the filing of liens against the same.

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AUG 16 1956
BUREAU OF MINES
DENVER, COLORADO

(f) That they will do and perform all annual labor and improvements upon said property as required by law, and shall make and file affidavits of annual assessment work in proper time.

10. The parties agree that the Lessees may, in the event they are not in default under the terms hereof, upon giving thirty (30) days written notice to lessors, quit and surrender possession of said premises to lessors, and this lease shall be and become terminated at the end of said thirty day period, after the mailing of notice by lessees to lessors, and all of the obligations and responsibilities of the lessees hereunder shall thereupon terminate. Said notice shall be addressed to lessors at:

Norma S. Engebretson
Box 174
Moab, Utah

G. J. Smith
2887 B Road
Grand Junction, Colorado

and sent by United States registered mail, return receipt requested, and shall be deemed to have been given on the date of the mailing thereof.

11. It is mutually understood and agreed that, in the event of a violation of any covenant and condition herein contained to be kept and performed by the lessees, the lessors may, at their election, notify the lessees of such default, specifying the default in substantial detail, and in the event lessee does not, within 30 days after the mailing of said notice, commence to cure such default, with reasonable diligence, this agreement shall, at the end of said 30-day period, terminate, and the lessors, or their agent, may thereupon enter upon said premises and dispossess all persons found occupying the same, with or without force, and with or without process of law; said notice shall be addressed to the lessees at:

122 North Sixth Street
Grand Junction, Colorado

and sent by United States registered mail, and shall be deemed to have been given on the date of the mailing thereof. In the event of the termination of this agreement as aforesaid, the lessors shall keep and retain all sums theretofore paid to them, as liquidated damages and rent.

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DENVER, COLORADO

Time is of the essence of this Agreement and all covenants and conditions contained herein, express or implied, shall extend to and be binding upon the heirs, executors, administrators, successors and lawful assigns of all parties hereto.

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

S. /Norma S. Engebretson

S/ G. J. Smith

Estate of Alfred J. Engebretson

By S/ Norma S. Engebretson
Administratrix

Lessors

S/ Thomas J. Clark

S/ J. R. Cagle

S/ M. R. Douglass
dba Western Investors

Lessees

REGIONAL SUPERVISOR
OFFICE
BOISE, ID
AUG 1 0 1950

REGIONAL DIRECTORS
OFFICE
REGION III
AUG 16 1956
BUREAU OF MINES
DENVER, COLORADO

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

August 16, 1956

224 New Customhouse
Denver 2, Colorado

RECEIVED
AUG 30 1956

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Field Team, Region III

Subject: Application for DMEA Aid (Uranium) Mountain Top Mining and Milling Company,(Roger, Mike, et al claims) Mesa County, Colorado

Enclosed are two copies of the subject application in the amount of $56,000.00. One copy of the application is being retained in our file and one copy is being forwarded to the Grand Junction Office for their review and recommendations regarding the advisability of a field examination.

The Applicant has submitted no drill bids. The Applicant states that a few holes have been drilled behind some of the favorable exposures, but no assay results were included in the application. His estimate of costs is a lump sum with no breakdown of road building and drilling costs.

DMEA Field Team, Region III

W. M. Traver

By W. M. Traver
Executive Officer

Enclosures

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

August 16, 1956

224 New Customhouse
Denver 2, Colorado

Memorandum

To: J. W. Hasler

From: Field Team, Region III

Subject: Application for DMEA Aid (Uranium) Mountain Top Mining and Milling Company, (Roger, Mike, et al claims) Mesa County, Colorado

Enclosed is the subject application in the amount of $56,000.00.

Please discuss this application with the Bureau of Mines representative in the Grand Junction office and the AEC and forward this office nine copies of your recommendations concerning the advisability of making a field examination.

DMEA Field Team, Region III

W. M. TRAVER

By W. M. Traver
Executive Officer

Enclosures

HMC:ab

cc: Sec. Op. Comm. (2)
Harshman
Shaw (2)
Docket
Chron.

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AUG 20 1956

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Form Approved.
Budget Bureau No. 42-R1035.2.

DMEA
Date Rec'd.
AUG 16 1956
BUREAU OF MINES
Denver, Colorado

APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER 1, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

Not to be filled in by applicant

Docket No. 4427
Metal or Mineral Uranium
Date Received 8-20-56
Estimated Cost $56,189.50
Participation (Government %)
56,187.50

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: Mountain Top Mining and Milling Company

(*b*) If other than an individual, add to your name above whether a corporation, partnership, etc., and the name of the State in which incorporated or otherwise organized.

(*c*) If a corporation, add to above statement, titles, names and addresses of officers.

(*d*) If a partnership, add to the above statement the names and addresses of all partners.

2. *General.*—Read DMEA Order 1, "Government Aid in Defense Exploration Projects," before completing this application. Submit this application and all accompanying papers in quadruplicate (four copies), with your name and address on each sheet of the application and on all accompanying papers. Where sufficient space is not provided on the form for all required information, state it on an accompanying paper, with a reference in each case to the instruction to which it refers by number. Comply with all applicable instructions; or, if not applicable, so state. File the application with Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest field executive officer thereof.

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract

(*b*) State any mine name by which the property is known. none

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise lessee

(*d*) If you are not the owner, submit with this application a copy of the lease, contract, or other document under which you control the property.

(*e*) If you own the land, describe any liens or encumbrances on it 20% royalty on the net profit from the Engebretson claim group, and a 10% gross override on the Mike and Roger groups.

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice.

4. *Physical description.*—(*a*) Describe in detail any mining or exploration operations which have been or now are being conducted upon the land, including existing mine workings and production facilities. State your interest, if any, in such operations. Also describe accessibility of mine workings for examination purposes.

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades.

(*c*) Describe the geologic features of the property, including mineralization, type of deposit (vein, bedded, etc.), and your reasons for wishing to explore. Illustrate with maps or sketches. Send with your application (but not necessarily as a part of it) any geologic or engineering report, assay maps, or other technologic information you may have, indicating on each whether you require its return to you.

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points.

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power.

16—66551-1

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5. *The exploration project.*—(*a*) State the mineral or minerals for which you wish to explore Uranium minerals

(*b*) Describe fully the proposed work, including a map or sketch of the property showing a plan (and cross sections if needed) of any present mine workings, and the location of the proposed exploration work as related to such features as contacts, veins, ore-bearing beds, etc.

(*c*) The work will start within 30 days and be completed within 2 months from the date of an exploration project contract.

(*d*) State the operating experience and background of the applicant with relation to the ability to carry out such exploration project, and also that of the person or persons who will supervise the operations.

6. *Estimate of costs.*—Furnish a detailed estimate of the costs of the proposed work (you will have to use a separate sheet), under the following headings. Add the totals under all headings to give the estimated total cost of the project:

(*a*) *Independent contracts.*—(Note.—If the applicant does not intend to let any of the work to contractors, write "none" after this item. To the extent that the work is to be contracted, do not repeat the cost of the contract-work in subsequent items.) State the cost of any proposed independent contracts for the performance of all or any part of the work, expressed in terms of units of work (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved, etc.).

(*b*) *Labor, supervision, consultants.*—Include an itemized schedule of numbers, classes and rates of wages, salaries or fees for necessary labor, supervision and engineering and geological consultants.

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel.

(*d*) *Operating equipment.*—Furnish an itemized list of any operating equipment to be rented, purchased, or which is owned and will be furnished by the Operator, with the estimated rental, purchase price, or suggested use-allowance based on present value, as the case may be.

(*e*) *Rehabilitation and repairs.*—Furnish a detailed list showing the cost of any necessary initial rehabilitation or repairs of existing buildings, installations, fixtures, and movable operating equipment, now owned by the Operator and which will be devoted to the exploration project.

(*f*) *New buildings, improvements, installations.*—Furnish a detailed list showing the cost of any necessary buildings, fixed improvements, or installations to be purchased, installed or constructed for the benefit of the exploration project.

(*g*) *Miscellaneous.*—Furnish a detailed list showing the cost of 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.

(*h*) *Contingencies.*—Give an estimate of any necessary allowances for contingencies not included in the costs stated above.

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

7. (*a*) Are you prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation (Sec. 7, DMEA No. 1)?

(*b*) How do you propose to furnish your share of the costs?

[X] Money [ ] Use of equipment owned by you [ ] Other

Explain in detail on acompanying paper.

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.

Dated July 25, 1956

Mountain Top Mining and Milling Company
(Applicant)

By J. R. Gilmore Pres

REGIONAL DIRECTORS
OFFICE
REGION III
AUG 16 1956
BUREAU OF MINES

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.

U. S. GOVERNMENT PRINTING OFFICE 16—66551-1

SUPPLEMENTARY SHEET TO DMEA FORM MF-103

1. (a) Mountain Top Mining and Milling Company
P.O. Box 1451
Grand Junction, Colorado
Organized and incorporated in the State of Colorado

(b) T. R. Gillenwaters, President
10354 Wilshire Blvd.
Los Angeles, California

Philip Doerner, Secretary-Treasurer
4921 East 38th Avenue
Denver, Colorado

J. W. LaFollette, Vice President
240 Jersey Street
Denver, Colorado

3.

CLAIM	BOOK	PAGE
Roger No. 1	673	284
" " 2	673	285
" " 3	673	286
" " 4	673	287
" " 5	673	288
" " 6	673	289
" " 7	673	290
" " 8	673	291
" " 9	673	292
" " 10	673	293
" " 11	673	294
" " 12	673	295
Mike No. 1	673	262
" " 2	673	263
" " 3	673	264
" " 4	673	265
" " 5	673	266
" " 6	673	267
" " 7	673	268
" " 8	673	269
" " 9	673	270
" " 10	673	271
" " 11	673	272
" " 12	673	273
" " 13	673	274

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CLAIM	BOOK	PAGE
Mike No. 14	673	275
" " 15	673	276
" " 16	673	277
" " 17	673	278
" " 18	673	279
" " 19	673	280
" " 20	673	281
" " 21	673	282
" " 22	673	283
Lottie No. 1	662	562
" " 2	662	563
Bea No. 1	662	564
" " 2	662	565
Sunrise No. 1	662	566
Eddie F.	662	567
Eddie C.	662	568
Franklin D.	662	569
Blue Belle	662	570
Uranium Belle	662	572
Tuxedo	662	573
Becky	662	574
Nancy	662	571
Cactus Kate	662	575
Lucky Day	662	577
Nellie	662	580
Holiday	662	578
Marjorie Ann	662	579
Nora H.	662	581
Aleda M.	662	576
Black Magic	662	583
Yellow Bird	662	584
White Heather	662	585
Flamingo	662	586
Eldorado	662	587
La Salle	662	576

All in Gateway Mining District, Secs. 20, 21, 29, 28, 32 and 33 of T51N, R 18W, N.M.P.M.

4. (a) thru (e) Adequately covered in accompanying geologic report.

5. (b) See accompanying geologic report and maps.

(d) The applicant is a public stock company, organized in the State of Colorado for the purpose of exploiting oil, uranium and base metal properties.

The president of the company, T. R. Gillenwaters, has been actively

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participating in uranium exploration, development and mining for the last two years. During this two year period, Mr. Gillenwaters has had in his employ Mr. Robert L. Rock, a graduate mining engineer of the Colorado School of Mines, with five years experience in uranium exploration, development and production to his credit. Mr. Rock, who has formulated the proposed drilling program herein presented, was formerly employed by the United States Atomic Energy Commission for 2 1/2 years as an Exploration Division project geologist. Upon approval of this application, Mr. Rock will be able to competently supervise the project.

6. Cost Estimate

Contract for 20,250 feet (average depth 125 feet) of dry, rotary non-core drilling @ $1.25/ft.	$25,312.50
and 15,600 feet (average depth 300 feet) @ $1.75/ft.	27,300.00
Contract 12 days D-7 Cat. work @ $100/day	1,200.00
Engineering and geological fees, 2 months @ $600/month	1,200.00
Deep Hole Probe, Counter and Reel Assembly	675.00
Transportation, housing, food for project supervisor	300.00
Assaying, blueprinting, contingencies	200.00
Estimated Total Project Cost ----------	$56,187.50

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SURVEY COMMISSION

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DENVER, COLORADO

GEOLOGIC REPORT AND DRILLING RECOMMENDATIONS FOR THE MOUNTAIN TOP MINING AND MILLING COMPANY CLAIMS, TENDERFOOT MESA, MESA COUNTY, COLORADO

By: Robert L. Rock
Mining Engineer

15 August 1956

INTRODUCTION:

The fifty-nine Mountain Top Mining and Milling Company claims and fractions are located on Tenderfoot Mesa, sixty miles south of Grand Junction, Colorado, T51N, R18W, Secs. 33, 29, 28, 20 and 21, N.M.P.M. The claims are divided into three groups as shown on the accompanying index map.

Access to the claims can be gained by traveling 10 miles southwest of Grand Junction via U. S. Highway 50 to Whitewater; thence 43 miles southwesterly thru Unaweep Canyon to the Calamity Hill road; and thence 10 miles southeasterly to the eastern and northern edges of Tenderfoot Mesa.

The Tenderfoot Mesa area is bounded on all but the northern side by steep canyons. Mesa-top topography is characterized by tilted ledges of resistant sandstone irregularly interrupting rolling hills of red and green shale. The average elevation at the site of the claims is about 6,500 feet.

Snowfall and moisture are slight except on the adjoining Uncompahgre highlands, where six to seven feet of snow is not uncommon during the winter months. The county maintains all but 14 miles of road, which can easily be kept open all winter with a little maintainer work.

REGIONAL GEOLOGY:

The productive formation on the claims is the Salt Wash Member of the Morrison Formation, which is, in this locality, approximately 300 feet thick. Immediately below the Salt Wash Member is the Summerville Formation, which consists of nearly 80 feet of red, sandy, and silty shales. Overlying the Salt Wash Member is the Brushy Basin Shale Member of the Morrison Formation. This member is about 300 feet thick and consists almost entirely of red and green variegated shales. Some included conglomeritic material is present in the upper part of the Brushy Basin member near the Dakota sandstone contact and also in the lower gradational zone next to the Salt Wash Member. All the beds dip to the southwest about 6 degrees, away from the Uncompahgre uplift.

The Salt Wash Member consists of fine to medium grained lenticular sands interbedded with varying amounts of clay and carbon. The sands were deposited in scours and channels in an aggrading environment. Fluvial features such as lineation, festooning, cross-bedding and ripple marks are easily discernible on exposures.

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The uranium mineralization on and near the property is generally carnotite, although some black uraninite ores are also existent. The vanadium mineral vanoxite is usually closely associated with the carnotite.

A chemical replacement of carbonaceous material by the uranium has apparently played an important role in localizing known ore bodies.

The ore bodies generally trend in a northerly direction, in the same direction as sedimentation trends.

LOCAL GEOLOGY:

Carbon trash and bleaching can be discerned on many of the Salt Wash exposures, which are covered by the claims. A thick, limonitic, bleached sandstone lense occurring on the Blue Belle claim appears very favorable.

The Harvey 1 and 2 claims, not included in the Mountain Top claims, but dividing the Engebretson group, have had a significant tonnage of high grade ore developed and mined from them.

Mineralized outcrops occur on the Becky claim and near the southwest corner of the Nellie claim. Thick bleached sands occur generally on the Nellie, Lucky Day and Cactus Kate claims. On the Nora H claim, a thick favorable sand occurs with an inherent high gamma count. Little is known about the sub-surface geology of the areas covered by the Mike and Roger claim groups, but it is probable that a pattern of holes as depicted on the accompanying maps will isolate favorable ground, which will lead to the discovery of significant ores

The general geology is certainly as favorable on Tenderfoot Mesa as it is on Outlaw and Calamity mesas, hence the author firmly believes that a well-organized, thorough drilling program, has a good chance of resulting in the discovery of ore comparable to that which has been found on these mesas. (See accompanying maps for locations of above claims and mentioned favorable occurrences.)

HISTORY OF ACTIVITIES:

A few holes have been drilled behind some of the aforementioned favorable exposures by Mr. Richard E. Cowger, present lessee of the Harvey claims. Because Mr. Cowger's wagon drill could not adequately drill the highly fractured and sometimes wet ground, the results obtained by him cannot be considered too significant. Some ore was penetrated in the vicinity of the Blue Belle claim, however, offset holes could not be bottomed with Mr. Cowger's equipment.

Mr. Cowger is at present contracting some drilling behind his Harvey mine workings in an attempt to extend the ore in this locality.

ECONOMIC CONSIDERATIONS:

The Mountain Top Mining and Milling Company has leased the Engebretson claim group

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subject to a 20% net override, and the Mike and Roger groups subject to a 10% gross override.

Because Mr. Cowger has built drill roads and access roads over much of the terrain covered by the claim, road building will not be a major expense.

The groups are 63 miles from the Climax Uranium Company mill at Grand Junction and hence are well within the government's 100 mile maximum distance for the six (6¢) per mil haulage allowance. Grand Junction is a good mine supply and residential center, making supplies and manpower readily available.

An approximate $20,000 initial production bonus remains on the Engebretson claims and an additional $35,000 initial production bonus would probably be approved for the Mike claim group due to their removed location from the other two groups.

CONCLUSIONS AND RECOMMENDATIONS:

In respect for the merits of the property, I recommend that approximately 35,850 feet of drilling be expended, as per the attached drill maps, in exploring the fifty-nine claims. The average hole depth is estimated at 125 feet for the Roger and Engebretson claim groups, and at 300 feet for the Mike group. A total of 214 holes are planned under the program herein presented.

The pattern of drilling, as shown, should suffice to clarify the stratigraphic picture and to isolate favorable ground for more concentrated drilling.

Special attention is shown favorable rim exposures by spacing holes on 150 feet centers transverse to the expected trends.

Although the holes are primarily designed to test the upper half of the Salt Wash, a few holes should penetrate the entire Salt Wash since all three horizons are potentially productive. All holes should be lithologically logged to provide information for sub-surface favorability maps. Gamma-ray logs should also be made of each hole to provide records of any anomalous radioactivity which is penetrated.

No core drilling will be necessary. Wagon drilling will probably prove fruitless on the deeper holes, since perched water tables are frequently encountered. A rotary rig with plenty of air, and which is adaptable to water, is recommended.

The cost of drilling is estimated at $1.25 per foot for rotary non-core drilling to an average depth of 125 feet, and at $1.75 to an average depth of 300 feet. Approximately $56,000 should handle the exploration project, including road building and miscellaneous costs.

Sincerely yours,

Robert L. Rock

Robert L. Rock
Mining Engineer

RLR:dj

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AUG 16 1956
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DMEA Form 7
(12-56)

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Date	Surname	Code
1/22/57	Kaczor	700
"	Ellis	700
1/23	Selfridge	130
1/23	Johnson	110
"	Mittendorf	100
1-24	cw	220

Nelson
Paone

225

JAN 23 1957

Mr. T. R. Gillenwaters, President
Mountain Top Mining and Milling Company
P. O. Box 1451
Grand Junction, Colorado

Re: Docket No. DMEA-4427 (Uranium)
Roger, Mike, et al., Claims
Mesa County, Colorado

Dear Mr. Gillenwaters:

Your application for aid in an exploration project and other information available to us in Washington concerning your above-named property have been reviewed.

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

Careful study of all our information, although noting some uranium mineralization was reported on the claims, indicates that the probability of disclosing significant ore reserves is not sufficiently promising to justify Government participation. We regret to advise you that, under these circumstances, your application for exploration assistance is denied.

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

Sincerely yours,

C. O. Mittendorf (for)

Administrator

FIKnouse/gla
1-22-57
cc to: Admr.'s Reading File
Operating Committee
DMEA Field Team, Region III (2)
Messrs. JECrawford, 3643
THKiilsgaard, 5224
AEC - Jack Kratchman
Code 700
Mr. Knouse

8623

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

DOCKET COPY

January 18, 1957

Summary of Proposed Project

Object: Denial of application for an exploration project.

Docket No.: DMEA-4427

Commodity: Uranium

Applicant: Mountain Top Mining and Milling Company
P. O. Box 1451
Grand Junction, Colorado

Property: Consists of three separate groups of claims as follows: Roger group: Roger Nos. 1 through 12; Engebretson group: Aleda M., Black Magic, Eldorado, Flamingo, La Salle, Marjorie Ann, Nora H., White Heather, Yellow Bird, Holiday, Nellie, Lucky Day, Tuxedo, Becky, Nancy, Cactus Kate, Lottie Nos. 1 and 2, Bea Nos. 1 and 2, Sunrise No. 1, Eddie F, Eddie C, Franklin D, Blue Belle, and Uranium Belle; and Mike group: Mike Nos. 1 through 22, in secs. 20, 21, 28, 29, 32, and 33, T. 51 N., R. 18 W., N.M.P.M. and B., Mesa County, Colorado.

Property rights: In a lease, dated August 13, 1956, M. R. Douglass, Thomas J. Clark and J. R. Cagle, d/b/a Western Investors, leased theMike and Roger claim groups to the Applicant. Also, in a lease of November 7, 1955, the Western Investors subleased the Engebretson claim group to the Applicant.

Conflicting areas exist on the claims proposed for exploration (see examiners' report).

Date of application: July 25, 1956.

Work proposed: Consists of drilling 211 non-core holes totaling 35,850 feet and related access road, drill site, and engineering, at a total estimated cost of $56,187.50, to explore the Triassic Salt Wash member of the Morrison formation for uranium-bearing ore. Proposed spacing of drill holes ranges from 150 to 400 feet apart, and about half of the drilling footage will be

used in holes that will average 125 feet deep, and the remaining footage will be used in holes drilled to an average depth of 300 feet.

Private interests have drilled about 25 wagon-drill holes on the property, but no geologic or radiometric record was made available to the examining team. Applicant's representative stated four of the holes penetrated ore-grade mineralization. Several Government holes, barren of uranium and vanadium mineralization, were drilled on the Mike group of claims.

The Harvey Mine, located on two claims that divide the claims of the Engbretson group, has a production record of 340 tons averaging 0.53% U_3O_8 and 1.29% V_2O_5 from two deposits.

Cost of Proposed Work:

20,250 feet non-core drilling 0 to 125 feet deep @ $1.25/ft.	$25,312.50	
15,600 feet non-core drilling 0 to 300 feet deep @ $1.75/ft.	27,300.00	
12 days Model D-7 tractor operating time @ $100/day	1,200.00	
Engineering and geological fees - 2 mos. @ $600/mo.	1,200.00	
Deep hole probes	675.00	
Transportation and subsistence - project supervisor	300.00	
Assaying, blue prints, contingencies	200.00	
Estimated cost of the project		$56,187.50
Government participation @ 75%		$42,140.63

Field Team Report:

December 1956
by H. F. Robertson, USBM, and D. P. Elston, USGS

The claims are staked on the Salt Wash and Brushy Basin members of the Morrison formation of Jurassic age and the Burro Canyon formation of Cretaceous age.

Mineralized outcrops and small bodies of ore are in the lowermost, relatively contiguous sandstone layer of the Salt Wash member, about 60 feet above the base of the member. Near mineralized rock, the sandstone is classed as favorable for ore on the basis of color, but locally unfavorable red-brown colored sandstone was observed within 100 feet laterally of a mineralized outcrop.

The mineralized layers are most commonly 0.1 feet thick with lateral dimensions as great as 35 by 150 feet.

The largest ore bodies observed formed by the swelling part of the layer are 1 to 3 feet thick and about 20 by 75 feet in lateral dimensions. Individual ore bodies are 150 tons or less in size.

The proposed holes are on 150 to 400 foot centers, and the two depth categories are 125 and 300 feet. Depth to the potential ore-bearing horizon are underestimated and will range from 125 to 750 feet.

The characteristics of thickness, bedding and color of the sandstone lenses on the outcrop on the east and west sides of the claims appear similar and do not suggest a change of host rock characteristics behind the rim which would be more favorable for the localization of ore minerals. Therefore, the size of the target does not justify the proposed exploration program, and it is recommended that the application for DMEA aid be denied.

Comments of Commodity Specialists:

U. S. Geological Survey, N. E. Nelson, January 16, 1957.

Concur with recommendations of examiners and Field Team.

U. S. Bureau of Mines, John E. Crawford, January 15, 1957.

Agree with Field Team that the application should be denied.

Rare and Miscellaneous Metals Division, F. L. Knouse, January 18, 1957.

Exposures of the sandstone rim (ore horizon) on the east and west sides of the claims indicate that the probability of discovering widespread small ore bodies, 150 tons and less in size, at depths ranging from 125 to 750 feet is promising. However, it is believed that the aggregate tonnage discovered would not add significant reserves of uranium ore. Therefore, the application should be denied.

Conclusion:

A review of all our information relating to the proposed project indicates that the probability of making a significant discovery on the property is not promising. Therefore, the application should be denied.

Ernest Wm. Ellis

Ernest Wm. Ellis

IN REPLY REFER TO:

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

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Comments Complete

January 16, 1957
Re: DMEA 4427
Mountain Top Mining and Milling Co.
Tenderfoot Mesa
Mesa County, Colorado
$56,187.50 - Uranium

Memorandum

To: E. W. Ellis, Defense Minerals Exploration Administration

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

Subject: Review of Field Team Report

The applicant requested assistance in exploring a large number (3 groups) of claims by non-core drilling.

The area in which the property is located is characterized by the occurrence of numerous small orebodies scattered through a stratigraphic interval of about 200 feet of Salt Wash sediments. Only two mines on the mesa have produced more than 1,000 tons; the Mammoth has produced 5,067 tons of 0.15% U_3O_8 and the Black Mama has produced 2,316 tons of 0.39% U_3O_8 ore. The Harvey mine practically in the referenced property is credited with the production of 340 tons of 0.53 U_3O_8 material.

The mineralized layers seen by the examiners on the claims are most commonly 0.1 feet thick with lateral dimensions as great as 35 by 150 feet. The largest orebodies observed were formed by thickened portions of the sandstone layer and are from 1 to 3 feet thick and about 20 x 75 feet in lateral dimensions, and individual orebodies are usually 150 tons or less in size.

The examiners do not say how many outcrops of ore were seen in the 2.5 miles of Salt Wash outcrop on the claims, and no samples were taken. Apparently, as established by drilling and prospecting, the estimated orebody frequency is not such as to justify even the proposed short near outcrop holes, and, as concluded by the examiners, the deep holes are quite unwarranted.

I accept the opinion of the examiners and concur with the recommendation of the examiners and the Field Team that the application be denied.

N. E. Nelson

N. E. Nelson

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

Date January 15, 1957

DMEA Docket No. 4427
DMEA Contract No.
Commodity Uranium
Name of applicant Mountain Top Mining and Milling Co.
Name of property Roger, Mike, et al aclaims
Location of property Mesa County, Colorado
Estimated cost of project $56,187.50

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee
From: John E. Crawford, Bureau of Mines Member
Uranium Commodity Committee
Subject: Review of Field Team Report
(Application, Field Team Report, etc.)

1. Date of subject document: _____. 2. Date received by reviewer: _____.
3. Prior reports on this property known to reviewer: Yes ☐ No ☐
4. Prior reports on nearby properties known to reviewer: Yes ☐ No ☐
5. Information available on past production: Yes ☐ No ☐
6. Other pertinent factors known to reviewer: Yes ☐ No ☐
7. Explain items marked yes above:

8. Factors needing special consideration:
a. Location ☐
b. Ownership ☐
c. Evidence of mineralization ☐
d. Geology ☐
e. Proposed exploration method ☐
f. Alternate exploration method ☐
g. Costs ☐
h. _____ ☐

9. Action advised:
a. Obtain information from applicant ☐
b. Refer to Field Team ☐
c. Denial ☒
d. Agree with Field Team ☒
i. Consult with Mr. _____ at _____ AEC office.
e. Disagree with Field Team ☐
f. Suggest alternate plan ☐
g. Request another examination ☐
h. Approval ☐

10. Remarks: (Use back of page if necessary) Mr. J. O. Hosted, Washington representative of the Atomic Energy Commission, assisted in the review.

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

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224 New Customhouse
Denver 2, Colorado

January 4, 1957

Memorandum

To: Secretary to the Operating Committee

From: DMEA Field Team, Region III

Subject: Joint Report of Examination Docket DMEA 4427 (Uranium) Mountain Top Mining and Milling Co. (Roger, Mike, et al claims) Mesa County, Colorado

Enclosed are the original and three copies of a joint engineering and geologic Report of Examination on the subject property.

The field examiners concur that any probable ore bodies would be small and irregular on this property. On the basis of known deposits, ore on these claims would probably occur in the lower horizon, and depths necessary to penetrate the lower part of the Salt Wash member will range from approximately 125 feet to as much as 750 feet. They believe that exploration is not justified on these possible small ore bodies beyond a depth of 300 feet. They recommend that the application be denied. We concur in this recommendation.

DMEA Field Team, Region III

W M Traver

By W. M. Traver
Executive Officer

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
1-11-57
(date)

ON-SITE EXAM. REPORT

DMEA
DEPARTMENT OF THE INTERIOR
JAN 3 1957
REGION III
DENVER, COLORADO

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

P. O. Box 360
Grand Junction, Colorado

IN REPLY REFER TO:
MINERAL DEPOSITS

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JAN 2 1957
U. S.
GEOLOGICAL SURVEY
DENVER, COLORADO

TRANSMITTED
JAN 4 1957

Memorandum December 31, 1956

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JAN 7 1957

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To: Executive Officer, DMEA Field Team, Region III

Through: E. N. Harshman
J. F. Shaw

From: J. William Hasler

Subject: Transmittal of joint geologic and engineering report on Mountain Top Mining and Milling Company.
DMEA Docket 4427 (Uranium), Tenderfoot Mesa, Mesa County, Colorado

The Mountain Top Mining and Milling Company applied for DMEA assistance to explore for uranium on the Roger, Mike, et al claims on Tenderfoot Mesa, Mesa County, Colorado. The application was referred to the field and an examination was made on November 8, 1956.

The claims are staked in an area on Tenderfoot Mesa where the mineralized rock is classed as favorable for ore on the basis of color, but becomes unfavorable away from any mineralized area. The sandstone becomes unfavorable within 100 feet laterally from the mineralized outcrops in the area. The mineralized outcrops, or small bodies of ore on the claims, are in the lowermost relatively continuous sandstone layer of the Salt Wash member of the Morrison formation of Jurassic age. The largest ore bodies observed during the field examination were formed by thickened portions of the sandstone layer and are from 1 to 3 feet thick and about 20 by 75 feet in lateral dimensions, and individual ore bodies are usually 150 tons or less in size.

The applicant proposes to drill some 35,850 feet of rotary non-core drilling at an estimated cost of $56,187.50. The proposed holes are on 150-200 foot centers and are classed in two depth categories of 125 and 300, respectively. However, depths to the potential ore bearing horizon are apparently underestimated as the depths necessary to penetrate the lower part of the Salt Wash member will range from about 125 feet to as much as 750 feet. With the ore deposits occurring in the 150-ton or less ore bodies, the size of ore bodies probably will not justify exploration if they lie beyond a depth of 300 feet. The royalties on the claims are high and the cost of mining such ore bodies would appear to be uneconomic under the present price structure. It is therefore recommended that the request for Government aid for exploration be denied.

Reviewed by
DMEA OPERATING COMMITTEE
1-11-57
(date)

I concur with the conclusions and recommendations of the examining team.

The Atomic Energy Commission was consulted relative to the appraisal of the property.

Enclosed is the applicant's brochure, as well as 12 copies of the figures 1 and 2 for inclusion in the report.

J. William Hasler

J. William Hasler,
Geologist

JWH/mlr

Enclosures

FOR UNITED STATES GOVERNMENT USE ONLY

TRANSMITTED

JAN 4 1957

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

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY EXAMINING TEAM
REGION III

DMEA 4427

Mountain Top Mining and Milling Company

Tenderfoot Mesa

Mesa County, Colorado

Uranium

Joint engineering and geologic report

by

H. F. Robertson
Bureau of Mines

D. P. Elston
Geological Survey

December 1956

Reviewed by
DMEA OPERATING COMMITTEE
1-11-57
(date)

DMEA 4427

MOUNTAIN TOP MINING AND MILLING COMPANY
TENDERFOOT MESA
MESA COUNTY, COLORADO

CONTENTS

Joint Engineering and Geologic Report — Page

Introduction and summary 1
Acknowledgments 3
Location, topography and physical features 3
History, production, and ownership..... 5
Present status 8
    Exploration and development 8
    Mining equipment and other facilities 8
Geology 9
Ore deposits 10
Proposed exploration 12
Conclusions and recommendations 13

ILLUSTRATIONS

Figure		Follows Page
1.	Location map, Roger, Mike, et al claims, Mountain Top Mining and Milling Company, Mesa County, Colorado, DMEA 4427	3
2.	Map showing Roger, Mike, et al claims, Mountain Top Mining and Milling, and nearby mines and general Geology of Tenderfoot Mesa, Mesa County, Colorado	13

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DMEA 4427

INTRODUCTION AND SUMMARY

On August 16, 1956, Mountain Top Mining and Milling Company applied for DMEA assistance for exploration of the Roger, Mike, et al claims, Tenderfoot Mesa, Mesa County, Colorado. The application was referred to the field and an examination of the property was made November 8, 1956. The examining team was accompanied by J. Morgan Harris, representative for the applicant.

The subject claims are staked on the Salt Wash and Brushy Basin members of the Morrison formation of Jurassic age and the Burro Canyon formation of Cretaceous age. The Roger and Mike claim groups are located away from the rim, mainly on the Brushy Basin member and on the Burro Canyon formation; the remaining claims are located on the Salt Wash member on and near the east-facing rim of Tenderfoot Mesa.

Mineralized outcrops and small bodies of ore on the claims are in the lowermost relatively continuous sandstone layer of the Salt Wash member, about 60 feet above the base of the member. Near mineralized rock, the sandstone is classed as favorable for ore on the basis of color, but locally unfavorable red-brown colored sandstone was observed within 100 feet laterally of a mineralized outcrop.

The mineralized layers are most commonly 0.1 feet thick with lateral dimensions as great as 35 by 150 feet. The largest ore bodies observed formed by the swelling parts of the layers are 1 to 3 feet thick and about 20 by 75 feet in lateral dimensions. Individual ore bodies are most

commonly 150 tons or less in size. Apparently, mineralized layers less than one foot thick also have been selectively mined and shipped from the workings.

Non-core holes which offset mineralized or ore holes, were drilled by the applicant on 20-foot centers. Drill holes were near the rim and depths ranged from about 50 to 135 feet.

The applicant proposes to drill 211 rotary non-core holes totaling 35,850 feet and costing $52,612.50. The estimated total project cost is $56,187.50. The proposed holes are on 150- to 400-foot centers and the two depth categories are 125 and 300 feet. Depths to the potential ore-bearing horizon are underestimated as the depths necessary to penetrate the lower part of the Salt Wash member will range from about 125 feet to 750 feet. If the average depth of 300 feet were applied to many of the drill holes which are to be collared in the Brushy Basin member, only the uppermost part of the Salt Wash member would be penetrated in some cases, while in other cases the Salt Wash member would not be penetrated by the drill.

The size of the targets does not justify the proposed exploration program. The characteristics of thickness, bedding and color of the sandstone lenses on the outcrop on the east and west sides of the claims appear similar and do not suggest a change of host rock characteristics behind the rim which would be more favorable for the localization of ore minerals.

The royalties on the claims are high, and when compared to the size of known ore bodies on Tenderfoot Mesa, and the amount of unprofitable crosscutting necessary to mine such bodies, even when near the rim, it is apparent that any operation at depth will be uneconomic.

For the above reasons it is recommended that the request for DMEA assistance for exploration be denied.

ACKNOWLEDGMENTS

The Atomic Energy Commission was contacted for information concerning results of Government drilling on Tenderfoot Mesa and for production data of the area.

Mr. W. E. Cowger, operator of the nearby Harvey property, gave the examining team pertinent information about ore deposits in the Harvey mine and the location of the subject claims.

LOCATION, TOPOGRAPHY, AND PHYSICAL FEATURES

The sixty unpatented lode mining claims included in the subject application are in three separate groups called the Mike claim group, the Roger claim group, and the Engebretson claim group. All three groups are located in the northeastern part of Tenderfoot Mesa in secs. 20, 21, 29, 28, 32, and 33, T. 51 N., R. 18 W., New Mexico Principal Meridian, Mesa County, Colorado (fig. 1). The claims can be reached by traveling 10 miles southwest from Grand Junction on U. S. Highway 50 to Whitewater,

U.S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
DECEMBER 1956
DOCKET 4427

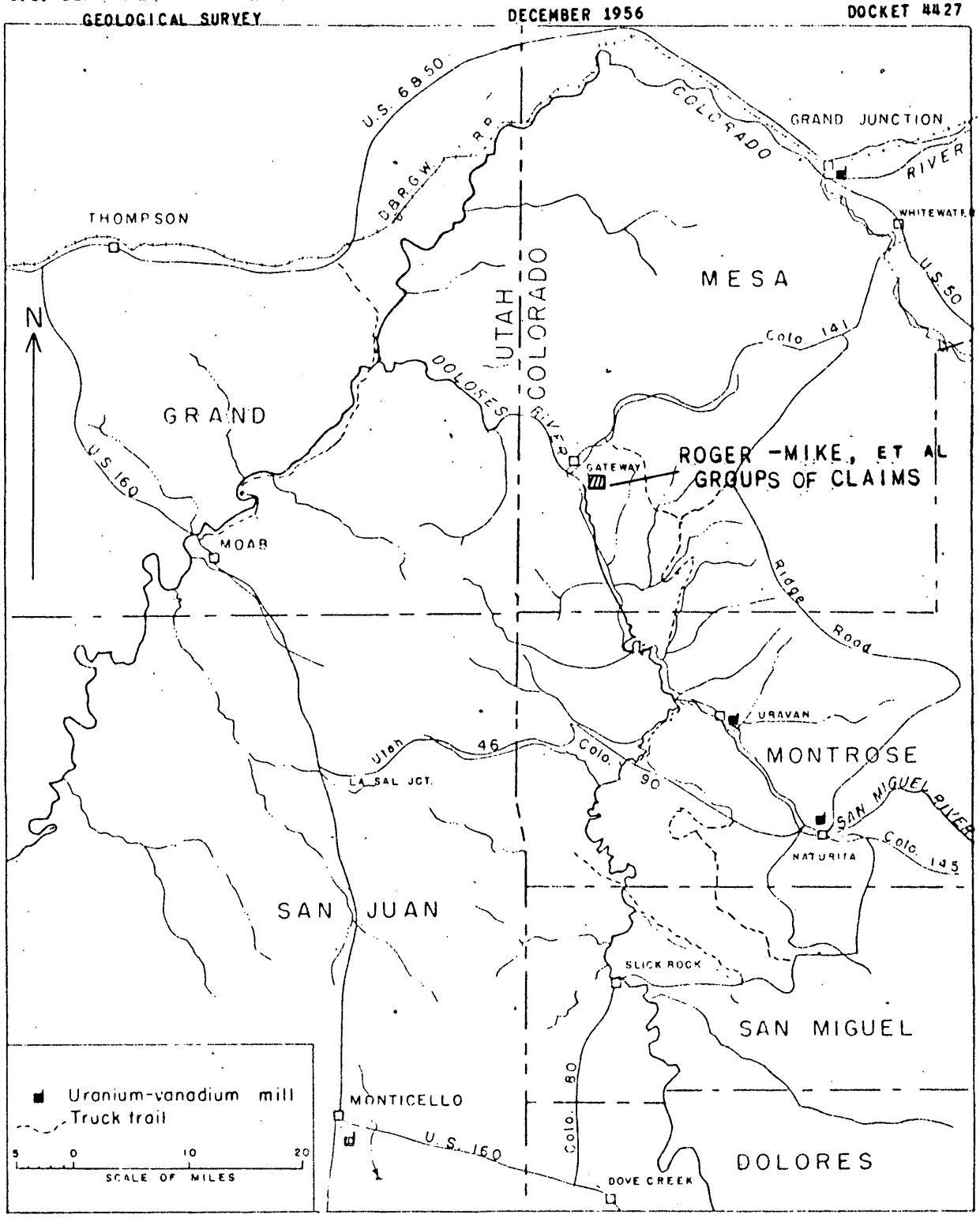


FIGURE 1.--LOCATION MAP SHOWING ROGER-MIKE, ET AL, GROUPS OF CLAIMS, MOUNTAIN TOP MINING AND MILLING CO., TENDERFOOT MESA, MESA COUNTY, COLO.

Colorado; thence 44 miles southwesterly through Unaweep Canyon on State Highway 141 to the Calamity Hill road; thence 6 miles south to the top of Calamity Hill; thence about 7 miles southeasterly to the subject claim groups. Traveling time from Grand Junction, Colorado is about three hours.

The climate is semiarid with most of the precipitation occurring during the winter and early spring months. The area is subject to infrequent storms at any time during the year. Vegetation consists of pinon, cedar, and sagebrush.

Power needs are met by the individual operators by use of gasoline or diesel-powered generators. Housing for personnel is usually constructed from rough lumber obtained from sawmills in the vicinity. Access to the area is too difficult for use of house trailers longer than 25 feet.

Supplies, equipment, and mine labor are available at Grand Junction, Colo. Domestic water is obtainable from nearby springs and drilling water is usually impounded on the mesa top or hauled a considerable distance from small streams.

Uranium ore produced in the area is usually hauled to a custom mill in Grand Junction; however, some shippers prefer trucking the ore to the processing mill at Uravan, Colorado.

HISTORY, PRODUCTION, AND OWNERSHIP

Shipments of ore from the area were not recorded until June 1948, but production from January 1939 to January 1952 is estimated to total about 10,000 tons. There has been no production from the subject claims. However, they are located in the immediate vicinity of the Harvey mines which have produced about 350 short tons averaging 0.53 percent U_3O_8 and 1.29 percent V_2O_5. One of the Harvey mines is being operated by a lessee at the present time and is producing a small tonnage of ore.

The claims concerned by the application are listed below as they are recorded at the Mesa County Courthouse, Grand Junction, Colorado.

Engebretson group

Claim Name	Book	Page
Lottie No. 1	662	562
Lottie No. 2	662	563
Bea No. 1	662	564
Bea No. 2	662	565
Sunrise No. 1	662	566
Eddie F.	662	567
Eddie C.	662	568
Franklin D.	662	569
Blue Belle	662	570
Uranium Belle	662	572
Tuxedo	662	573
Becky	662	574
Nancy	662	571
Cactus Kate	662	575
Lucky Day	662	577
Nellie	662	580
Holiday	662	578
Marjorie Ann	662	579

Engebretson group (continued)

Claim Name	Book	Page
Nora H.	662	581
Aleda M.	662	576
Black Magic	662	583
Yellow Bird	662	584
White Heather	662	585
Flamingo	662	586
Eldorado	662	587
La Salle	662	576

Mike group
(Applicant's map shows 21 claims)

Mike No. 1	673	262
Mike No. 2	673	263
Mike No. 3	673	264
Mike No. 4	673	265
Mike No. 5	673	266
Mike No. 6	673	267
Mike No. 7	673	268
Mike No. 8	673	269
Mike No. 9	673	270
Mike No. 10	673	271
Mike No. 11	673	272
Mike No. 12	673	273
Mike No. 13	673	274
Mike No. 14	673	275
Mike No. 15	673	276
Mike No. 16	673	277
Mike No. 17	673	278
Mike No. 18	673	279
Mike No. 19	673	280
Mike No. 20	673	281
Mike No. 21	673	282
Mike No. 22	673	283

Roger group

Claim Name	Book	Page
Roger No. 1	673	284
Roger No. 2	673	285
Roger No. 3	673	286
Roger No. 4	673	287
Roger No. 5	673	288
Roger No. 6	673	289
Roger No. 7	273	290
Roger No. 8	273	291
Roger No. 9	273	292
Roger No. 10	273	293
Roger No. 11	273	294
Roger No. 12	273	295

The validity of the above-listed groups of claims is very difficult to determine without expending a great deal of time on a check of the Mesa County claim records and the area covered by the claims. The Tenderfoot area was restored to public domain on June 14, 1954 and many conflicting claims were staked. A cursory examination of maps available to the examining team immediately reveals conflicting areas on the claims included in the subject application. Errors in marking the claims on the ground were noted by the examiners during the inspection so there may be some question as to the validity of the claims due to improper location procedure.

The applicant has leased the claims from M. R. Douglas, Thomas J. Clark, and J. R. Cagle (doing business as Western Investors). The Mike and Roger groups of claims apparently belong to Western Investors and are leased to the applicant with a 10 percent overriding royalty on the gross proceeds held by the lessor. The Engebretson group is leased from the

Western Investors who leased the group from the original owners. This lease carries a 20 percent overriding royalty on the net profits, payable to the owners. No documents concerning this transaction were included with the application.

PRESENT STATUS

Exploration and Development

Private interests have drilled a total of about 25 wagon-drill holes on the subject property. No geologic or radiometric records were submitted for this drilling so it has little bearing on the classification of ground as to favorableness. The applicant's representative stated that three or four of the holes on 20-foot centers were "ore holes" but no proof was given to substantiate this classification.

The U. S. Atomic Energy Commission conducted an exploration drilling program on Tenderfoot Mesa in the period 1951-1952. Several Government holes, barren of uranium and vanadium minerals, were drilled on the Mike claims in the northern part of the area.

Mining Equipment and Other Facilities

The applicant has no mining or exploration equipment on the subject property at the present time. It is assumed that the proposed exploration would be done by an independent contractor.

Several access roads wind over the area, having been constructed for prior exploration and development of adjacent property, namely, the Harvey claims nos. 1 and 2.

GEOLOGY

The subject claims are located in the northeast and east-central parts of Tenderfoot Mesa, Mesa County, Colorado. The mesa is capped by sandstone and mudstone strata of the Morrison formation of Jurassic age and locally by sandstone strata of the Burro Canyon formation of Cretaceous age. The claims are staked on these formations.

The Burro Canyon formation is about 100 feet thick and is composed of sandstone and minor green mudstone. The basal five feet are conglomeratic. The Brushy Basin member of the Morrison formation, which underlies the Burro Canyon formation, ranges from 350 to 400 feet thick and is composed of red and gray-green mudstone and sparse sandstone lenses. The Salt Wash member of the Morrison formation is beneath the Brushy Basin member and is about 280 feet thick. It is composed of rim-forming brown and red sandstone layers and interbedded red and green mudstones. The basal 60 feet of the member consists mainly of mudstone and of thin interbedded sandstone. The remainder of the section up to about 20 feet of the top consists of sandstone and mudstone interbedded in nearly equal amounts. Sandstone layers are most commonly about 20 feet thick but locally several layers may coalesce to form rims about 40 feet thick.

The sandstones range from very-fine- to coarse-grained, but most are fine- and medium-fine-grained. The coarse-grained sandstones are thin and very local in extent. The sandstones vary from light to dark

brown in color but, in places, are colored red-brown. Mudstone as pebbles, seams, flakes and intergranular material in the sandstone is pale green near mineralized rock but, away from it, it may be red. Mudstone at the base of the sandstone near ore is also pale green in color and is about one foot thick. Away from ore it ranges from 0.1 to 0.5 feet thick, but locally is mottled red.

The strata on the claims dip about 3° southwest toward the Dolores River syncline. The strata strike northwest and generally parallel the Uncompahgre uplift which is northeast of Tenderfoot Mesa. There are no known faults on the property.

ORE DEPOSITS

The ore deposits on Tenderfoot Mesa are small. Only two mines have produced more than 1,000 tons; one is the Mammoth mine which has produced 5,067 short tons which average 0.15 percent U_3O_8 and 0.69 percent V_2O_5 and the other is the Black Mama mine which has produced 2,316 short tons averaging 0.39 percent U_3O_8 and 1.60 percent V_2O_5. The remaining deposits are much smaller, and individual production from these is less than 500 tons. The Harvey mines near the subject property consists of two deposits from which production totaled 340 short tons averaging 0.53 percent U_3O_8 and 1.29 percent V_2O_5 as of June 30, 1956.

The U. S. Atomic Energy Commission conducted an exploration drilling program in 1951-1952. Several Government holes were drilled on the Mike claims in the northern part of the area of the subject claims and they were essentially barren. Ore reserves found by Government drilling on Tenderfoot Mesa were estimated to be 6,200 tons averaging 0.27 percent U_3O_8 and 1.40 percent V_2O_5. These reserves were mainly on the western side of Tenderfoot Mesa, some distance from the subject claims. Since then no significant deposits or reserves have been discovered by private industry.

The ore deposits on Tenderfoot Mesa are classed as tabular or roll deposits. The former are as much as 2 to 3 feet thick and have a diameter that rarely exceeds 200 feet. The latter are elongate deposits which may be 3 to 4 feet in diameter and are of variable length; none is extensive but many contain rich ore.

Four uranium-vanadium bearing horizons with a vertical range of about 200 feet have been recognized on Tenderfoot Mesa by the Atomic Energy Commission. The lowest is the Harvey-Humdinger horizon, about 60 feet above the base of the Salt Wash member, which is on the east side of Tenderfoot Mesa and is nearest the subject claims. Several non-productive mineralized outcrops occur at this horizon on the claims. The next highest is the Black Mama horizon which is 90 to 110 feet above the base of the Salt Wash member. This is the closest mine on the west side of the claims. From these data it is assumed that the target horizon on the claims would

be sandstone strata in the lower part of the Salt Wash member. The two higher horizons are west and southwest of the claims and are 165-205 feet and 220-260 feet above the base of the Salt Wash member. These account for most of the produced ore and ore reserves on Tenderfoot Mesa.

PROPOSED EXPLORATION

The applicant proposes an exploration program consisting of 211 rotary, non-core holes totaling 35,850 feet and costing $52,612.50. Additional costs for bulldozing, engineering, probing equipment, assaying, transportation and housing bring the estimated total project cost to $56,187.50.

Proposed drill holes are spaced on centers that range from 150 to 400 feet. The applicant estimates that about one-half of the footage will be in holes that will average 125 feet in depth and that the remainder will be in holes that average 300 feet in depth. The figures appear to be somewhat low as the shallowest drill holes near the rim will be about 125 feet deep, while the deepest holes, if the middle and lower parts of the Salt Wash member are to be tested, will be about 700 to 750 feet deep.

No revised program is being submitted as the target size of deposits, based on known occurrences, is too small to warrant drilling at the depths which would be required to test the ore-bearing horizons.

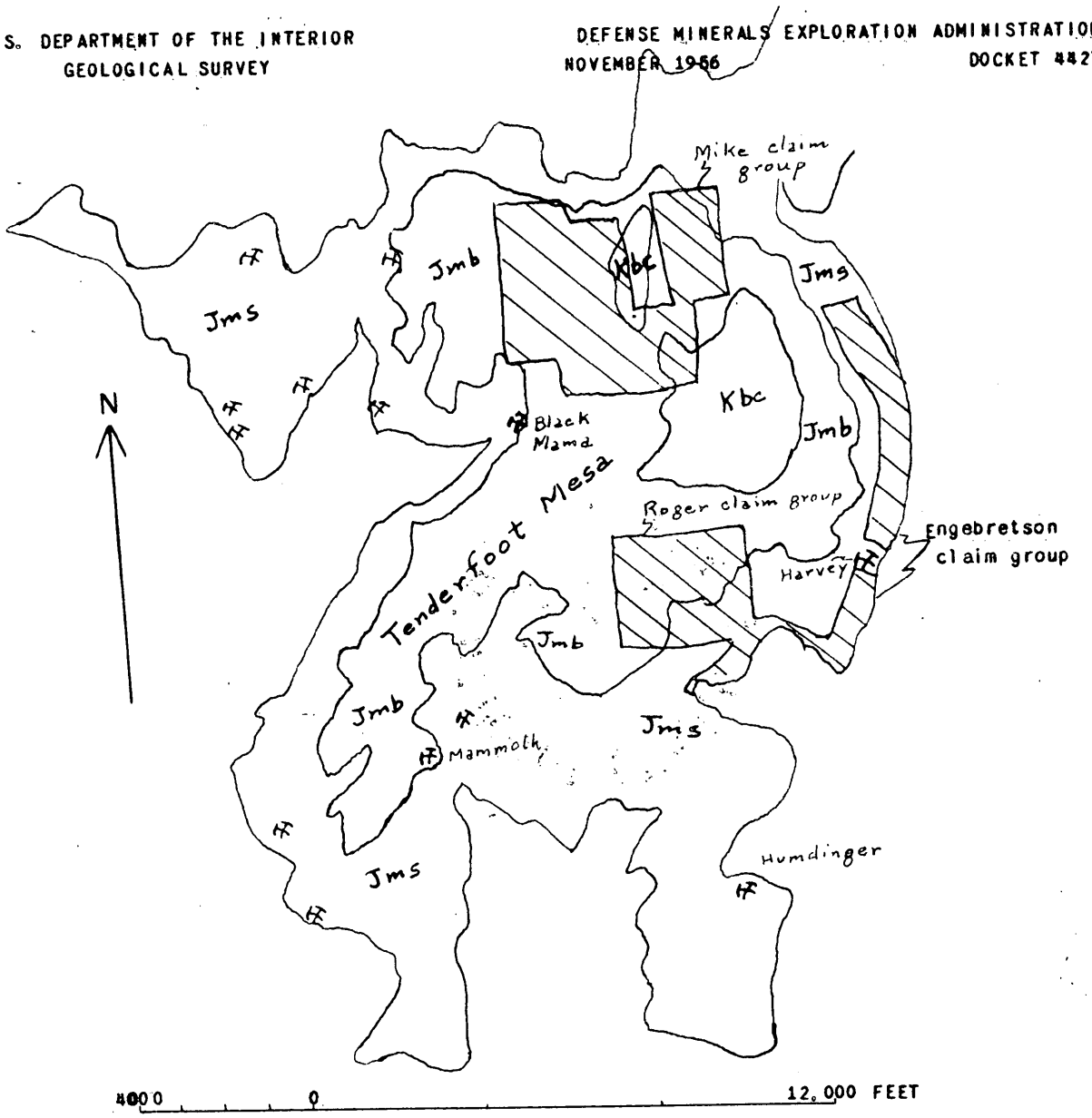
CONCLUSIONS AND RECOMMENDATIONS

Ore on Tenderfoot Mesa has been produced from four horizons that range from 60 to 260 feet above the base of the Salt Wash member of the Morrison formation of Jurassic age. On the basis of known deposits, ore on the claims would probably occur in the lower horizons. The ore deposits would be small and irregular and, as exploration and mining has shown, would have to be defined by drill holes spaced on about 25-foot centers. Such drilling would not be feasible at depths that range from 125 to 750 feet deep.

For the above reasons, it is recommended that the request for DMEA assistance for exploration be denied.

U.S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
NOVEMBER 1956
DOCKET 4427



EXPLANATION

SEDIMENTARY ROCKS

Kbc BURRO CANYON FORMATION OF CRETACEOUS AGE

Jmb BRUSHY BASIN MEMBER OF MORRISON FORMATION OF JURASSIC AGE

Jms SALT WASH MEMBER OF MORRISON FORMATION OF JURASSIC AGE

MINE OR PROSPECT

CLAIM AREA SUBORDINATED FOR EXPLORATION

Note: ADAPTED FROM APPLICANTS MAP AND FROM U.S. GEOLOGICAL SURVEY MAP GQ-55.

FIGURE 2.--MAP SHOWING ROGER, MIKE, ET AL CLAIMS, MOUNTAIN TOP MINING AND MILLING, AND NEARBY MINES AND GENERAL GEOLOGY OF TENDERFOOT MESA, MESA COUNTY, COLORADO.

RECEIVED
JAN 7 1957
D.M.E.A.

MOUNTAIN TOP
MINING AND MILLING COMPANY

C. A. JOHNSON BUILDING
SUITE 404
DENVER, COLORADO

Reply to:

OPERATIONS OFFICE
P. O. BOX 1451
GRAND JUNCTION, COLORADO

3 January 1957

ORIGINAL FILE COPY
DMEA
RECEIVED JAN 7 1957
DATE | CODE
1-7-57 C | 700
1-11-57 | 700

C.O. Mittendorf, Administrator
United States Department of The Interior
Defense Minerals Exploration Administration
Washington 25, D. C.

Re: Docket No. DMEA-4427 (Uranium)
Roger, Mike, et al., Claims
Mesa County, Colorado

Dear Sir:

In reply to your letter of September 26, 1956, the Sunrise #1 and the Sunrise are the same claim. The attorney for the lessor is presently engaged in securing a court order, authorizing the lease agreement in behalf of the Estate of Alfred J. Engebretson. However, this order has not yet been obtained, although it is expected in the near future.

I have delayed answering your letter previous to this time, inasmuch as we have been expecting this order any day. As soon as it is received, a photostatic copy will be sent to your office and to Mr. Traver.

We would appreciate it if arrangements could be made for the field examination of the subject properties, pending the receipt of the court order. It is expected that we will receive it in the near future.

Very truly yours,

MOUNTAIN TOP MINING & MILLING CO.

Ed Strnad

ES:dj

Ed Strnad
Secretary

2 copies of this letter sent to Traver: 1-8-57.

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

RECEIVED DEC 26 1956 D.M.E.A.

224 New Customhouse
Denver 2, Colorado

December 21, 1956

Memorandum

To: Secretary to the Operating Committee

From: DMEA Field Team, Region III

Subject: Docket DMEA 4427 (Uranium) Mountain Top Mining and Milling Company (Roger, Mike, et al claims) Mesa County, Colorado.

Reference is made to Mr. C. O. Mittendorf's letter to the subject Applicant, dated December 17, 1956. This is to advise that the information requested in Mr. Mittendorf's letter to the Applicant, dated September 26, 1956, has not been received in this office.

The docket was released for a field examination in accordance with the Chairman's letter, dated September 26, 1956. The weekly report indicates that a field examination on the property was completed November 8, 1956, and a denial report is in preparation.

DMEA Field Team, Region III

W. M. Traver

By W. M. Traver
Executive Officer

Surname copy

700

F L Knouse
Ellis
Fitzhugh

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

DEC 17 1956

Mr. T. R. Gillenwaters, President
Mountain Top Mining and Milling Company
P. O. Box 1451
Grand Junction, Colorado

Re: Docket No. DMEA-427 (Uranium)
Roger, Mike, et al., Claims
Mesa County, Colorado

Dear Mr. Gillenwaters:

Reference is made to our letter, dated September 26, 1956, the second paragraph of which enumerated certain information which we requested be sent to this office and to Mr. Traver, Executive Officer of our Denver Office.

Inasmuch as the documents and information which we requested have not been received in Washington, it is assumed that such information has not been forwarded to Mr. Traver. We will appreciate your early advice in this regard.

Sincerely yours,

C. O. Mittendorf (fw)

Administrator

FLKnouse/gla
12-14-56
cc to: Admr.'s Reading File
Docket
Messrs. JECrawford, 3643
THKiilsgaard, 5224
JOHosted, 3210, GSA
Code 700, Mr. Knouse
DMEA Field Team, Region III (2)

R.G.G.

RECEIVED
OCT 1956

October 3, 1956

Memorandum

To: W. M. Traver, Executive Officer DMEA Field Team, Reg. III

From: Superintendent, Denver Experiment Station, Reg. III

Subject: Docket DMEA 4427 (Uranium), Mountain Top Mining and Milling Company (Roger, Mike, et al claims) Mesa County, Colorado

The application for Mountain Top Mining and Milling Company, Docket DMEA 4427, in the amount of $56,188.00 was received in this office on October 3, 1956.

A field examination will be made and suitable report prepared by an engineer from the Denver or Grand Junction office.

W. H. KING

W. H. King

cc: W. M. Traver (2)
E. H. Bareshman
J. W. Beeler
M. H. Salsbury
J. F. Shaw
Sec. Op. Com (2)

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

RECEIVED
OCT - 4 1956

224 New Customhouse
Denver 2, Colorado

October 2, 1956

Memorandum

To: Messrs. W. H. King (2) (w/brochure) and J. W. Hasler

From: DMEA Field Team, Region III

Subject: Docket DMEA 4427 (Uranium) Mountain Top Mining and Milling Company (Roger, Mike, et al claims) Mesa County, Colorado

Enclosed is the subject application in the amount of $56,188.00. A field examination and suitable report are requested.

Also enclosed is a copy of the letter from the Chairman of the Operating Committee, dated September 26, 1956, and attached memoranda of review of the application by W. P. Williams and John E. Crawford. A copy of the letter from the Administrator to the Applicant, dated September 26, 1956, is also attached because you will note therein that the Applicant has been requested to clarify the Sunrise and the Sunrise No. 1 claims.

Will you please return the brochure with the report of examination.

DMEA Field Team, Region III

W. M. TRAVER

By W. M. Traver
Executive Officer

Enclosures

HMC:ytl
cc: Sec. Op. Comm. (2)
Harshman
Docket 4427
Chron.

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

DOCKET COPY
Surname: J. Knouse
Lamb
Kilsgaard
Selfridge
Johnson

SEP 26 1956

Mr. T. R. Gillenwaters, President
Mountain Top Mining and Milling Company
P. O. Box 1451
Grand Junction, Colorado

Re: Docket No. DMEA-4427 (Uranium)
Roger, Mike, et al., Claims
Mesa County, Colorado

Dear Mr. Gillenwaters:

The application for assistance in exploring your claims, under the captioned docket number, has been reviewed by the Rare and Miscellaneous Metals Division of the Defense Minerals Exploration Administration. It has been referred for a field examination to:

Mr. W. M. Traver
Executive Officer
DMEA Field Team, Region III
224 New Customhouse Building
Denver 2, Colorado

In the meantime, so the processing of your application will not be delayed, please furnish this office, and Mr. Traver at the above address, with copies of the document from the Court of Mesa County, Colorado, which authorizes Lease Agreement entered into November 7, 1955, by Norma S. Engebretson and G. J. Smith for the estate of Alfred J. Engebretson. In addition, in your application you have listed, as one of the claims to be explored, the Sunrise No. 1 claim, recorded in book 662, page 566. However, the Lease Agreement submitted with your application from the estate of Alfred J. Engebretson to Western Investors lists the Sunrise claim, recorded in book 606, page 216. If the Sunrise No. 1 claim and Sunrise are different claims, you should furnish evidence of how the interest is held, i.e., lease or other documents.

The Regional Office will contact you at the earliest opportunity in regard to your project.

Sincerely yours,

C. O. Mittendorf

Administrator

FLKnouse:ms 9/25/56
Copy to: Docket
Field Team, Region III
Mr. J. E. Crawford, 3643
Mr. Kilsgaard, 5222
Mr. J. O. Hosted, 3210, GSA
Code 700
Mr. Knouse
Admr. R. File

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C. 700

DOCKET COPY
Surname:
FLKnouse
Selfridge
FGJohnson

Mr. W. M. Traver
Executive Officer
DMEA Field Team, Region III
224 New Customhouse Building
Denver 2, Colorado

SEP 26 1956

Re: Docket No. DMEA-4427 (Uranium)
Mountain Top Mining and Milling Co.
Roger, Mike, et al., Claims
Mesa County, Colorado

Dear Mr. Traver:

The captioned application is referred to your office for a field examination and report on the proposed project. We have requested certain information from the Applicant that you may or may not need before making the examination.

Enclosed are copies of memoranda dated September 20, 1956, from Mr. W. P. Williams, USGS, and John E. Crawford, USBM, respectively, relating to the subject project.

If the Field Team recommends an exploration program, we will require, in addition to the usual information, the following:

1. Drilling bids from three contractors for the drilling recommended.
2. Consents to Lien and Subordination Agreements of all the co-partners of Western Developers, Norma S. Engebretson and G. J. Smith.

Any work recommended by the Field Team should not be closer than 100 feet to the outside boundary of the land included in the application.

Sincerely yours,

Approved:

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

George C. Selfridge (FLB)
Chairman, Operating Committee

Thor H. Kiilsgaard (FLB)
Member, Geological Survey

Enclosures: 4

FLKnouse:ms 9/25/56
Copy to: Docket
Operating Committee
Mr. J. E. Crawford, 3643
Mr. Kiilsgaard, 5222
Mr. J. O. Hosted, 3210, GSA
Code 700
Mr. Knouse
Admr. R. File

9/21/56 gla

IN REPLY REFER TO:

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

RECEIVED
SEP 21 1956

September 20, 1956

Memorandum

To: E. W. Ellis, Defense Minerals Exploration Administration

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

Subject: Review of application, DMEA 4427, Mountain Top Mining and Milling Company, Roger, Mike, et al. claims, Tenderfoot Mesa, Mesa County, Colorado (uranium).

The applicant proposes to explore for uranium ore deposits in Salt Wash sediments on 59 mining claims and fractions. The proposed project would consist of a total of 35,850 feet of rotary drilling. Total estimated cost of the project, including hole-site preparation, technical services, assaying, and other expenses, would be $56,188.

An informative memo by D. P. Elston of the Grand Junction office points out that the known ore bodies on Tenderfoot mesa are, on the average, small -- about 150 tons; and they are scattered through a stratigraphic interval of about 200 feet. Exploration drilling by the Government and by private enterprise has not discovered significant ore deposits.

A limited, modestly financed, project of wide-spaced drilling would not find the small deposits. On the other hand, the scattered small-tonnage deposits do not justify large exploration expenditures. Under those conditions DMEA participation in exploration on the applicant's property does not seem warranted.

In view of the considerable amount of drilling already completed in the area, and of the information already available to the Government concerning the habit and geological characteristics of the ore bodies, it seems that this application could be denied without recourse to the usual field exam. It would be well to ask the Field Team for concurrence in such a decision.

W. P. Williams

W. P. Williams

9/21/56 gla

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

RECEIVED
SEP 21 1956

Date 9/20/56

DMEA Docket No. 4427
DMEA Contract No.
Commodity Uranium
Name of applicant Mountain Top Mining & Milling Co.
Name of property Tenderfoot Mesa area
Location of property Mesa County, Colorado
Estimated cost of project $56,187.50

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee
From: John E. Crawford, Bureau of Mines Member
Uranium Commodity Committee
Subject: Review of Application
(Application, Field Team Report, etc.)

1. Date of subject document: 7/25/56. 2. Date received by reviewer: 9/18/56.

3. Prior reports on this property known to reviewer: Yes [ ], No [x].

4. Prior reports on nearby properties known to reviewer: Yes [ ], No [x].

5. Information available on past production: Yes [ ], No [x].

6. Other pertinent factors known to reviewer: Yes [ ], No [x].

7. Explain items marked yes above:

8. Factors needing special consideration:
a. Location [ ]
b. Ownership [ ]
c. Evidence of mineralization [ ]
d. Geology [ ]
e. Proposed exploration method [ ]
f. Alternate exploration method [ ]
g. Costs [ ]
h. _____ [ ]

9. Action advised:
a. Obtain information from applicant [ ]
b. Refer to Field Team [x]
c. Denial [ ]
d. Agree with Field Team [ ]
e. Disagree with Field Team [ ]
f. Suggest alternate plan [ ]
g. Request another examination [ ]
h. Approval [ ]
i. Consult with Mr. _____ at _____ AEC office.

10. Remarks: (Use back of page if necessary)

Field examination recommended. Mr. Joseph O. Hosted, Washington representative of the Atomic Energy Commission, assisted in the review.

9/17/56 gla

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

RECEIVED
SEP 17 1956

225 New Customhouse
Denver 2, Colorado

September 14, 1956

Memorandum

To: Chairman, Operating Committee, DMEA

From: DMEA Field Team, Region III

Subject: Docket DMEA 4427 (Uranium), Mountain Top Mining and Milling Company (Roger, Mike et al. claims), Mesa County, Colorado.

This replies to your teletype of September 11, 1956 on the subject docket.

Enclosed are the original and three copies of a review and recommendations on the subject application by members of the Grand Junction Office, DMEA.

They recommend that a field examination of the property be made. We concur in this recommendation.

DMEA Field Team, Region III

By W. M. Traver
W. M. Traver
Executive Officer

Enclosures

MINERALS REFERRED TO:
DMEA
RECEIVED
SEP 13 1956
U. S.
GEOLOGICAL SURVEY
DENVER, COLORADO

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
P. O. Box 360
Grand Junction, Colo.

DMEA
DEPARTMENT OF THE INTERIOR
SEP 14 1956
REGION III
DENVER, COLORADO
RECEIVED
SEP 17 1956

Memorandum

September 12, 1956

To: Executive Officer, DMEA Field Team, Region III

Through: E. N. Harshman
J. William Hasler

From: D. Parker Elston

Subject: Application for DMEA aid (Uranium), Mountain Top Mining and Milling Company (Roger, Mike, et al claims), Tenderfoot Mesa area, Mesa County, Colo. (DMEA docket 4427)

The subject claims are located in Tenderfoot Mesa, Gateway Mining District, Mesa County, Colorado. The southern part of the claims is within the Uravan mineral belt as defined by R. P. Fischer and L. S. Hilpert, U. S. Geological Survey Bulletin 988-A, 1952.

The ore minerals on Tenderfoot Mesa are in sandstone lenses of the Salt Wash member of the Morrison formation of Jurassic age. Production from the area has come from four lenses which range in stratigraphic position from 60 to 260 feet above the base of the Salt Wash member. The ore deposits commonly are small, about 150 tons, but two mines on Tenderfoot Mesa have produced between 2,000 to 5,000 tons of ore. Production from the Harvey No. 1 and 2 claims totals 340 short tons, having an average grade of about 0.53 percent U_3O_8 and 1.29 percent V_2O_5. The ore was produced in the period January through June, 1956; the mine is not now in operation. The ore minerals on the Harvey claim are in stratigraphically the lowest known mineralized horizon. The Harvey mine is the largest working in this horizon. The Humdinger mine to the south is the only other mine in this horizon; it has produced only a few tons. The larger producers are in stratigraphically higher sandstone lenses. The Mammouth mine which is in the uppermost sandstone lense, is presently inoperative; it has produced 5,067 tons which averaged 0.15 percent U_3O_8 and 0.69 percent V_2O_5. The A.E.C. reserve estimate for this mine is 1,600 tons averaging 0.19 percent U_3O_8 and 0.70 percent V_2O_5.

The U. S. Atomic Energy Commission conducted an exploration drilling program on Tenderfoot Mesa in the period 1951-1952. Several Government holes, barren of uranium and vanadium minerals, were drilled on the Mike claims in the northern part of the area. Ore reserves found by all Government drilling on Tenderfoot Mesa were estimated to be 6,200 tons averaging 0.27 percent U_3O_8 and 1.40 percent V_2O_5.

DMEA 4427

9/12/56

In summary, on Tenderfoot Mesa the size of ore bodies are commonly small and they are scattered through a stratigraphic interval of about 200 feet. Exploration by the Government and by private enterprise has not discovered significant ore deposits. However, because there has been some uranium-vanadium production on and near the claims, it is recommended that a field examination of the property be made.

D. Parker Elston,
Geologist

D Parker Elston

DPE/mlr

Chairman, Operating C
DMEA

RECEIVED
SEP 12 1956

DN 235 BUR MINES 9-11-56 4-25

CHAIRMAN, OPERATING COMMITTEE, DMEA

REURTEL MOUNTAIN TOP MINING AND MILLING COMPANY, DMEA 4427, GRAND JUN CTION MEMORANDUM SHOULD REACH YOU SEPTEMBER 17 AND WILL RECOMMEND FIELD EXAMINATION.

W M TRAVER

Denver, Col.

Surname copy

Department of the Interior

DMEA

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

R4X4401(01) revolving fund, Defense Production Act, Interior (Allocated Working Fund to the Office of the Secy.)

Elly Selfridge
Kfenson

TELETYPE

SEP 11 1956

W. M. TRAVER, EXECUTIVE OFFICER
DMEA FIELD TEAM, REGION III
224 NEW CUSTOMHOUSE BUILDING
DENVER 2, COLORADO

RE MOUNTAIN TOP MINING AND MILLING COMPANY, DOCKET DMEA-4427,

WHEN MAY WE EXPECT GRAND JUNCTION MEMORANDUM?

George C. Selfridge
CHAIRMAN, OPERATING COMMITTEE (2WB)

EWEllis/gla
9-11-56
cc to: Admr.'s Reading File
Operating Committee
Docket
Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA
Code 700
DMEA Field Team, Region III - confirmation

R.G.S.

August 20, 1956

Mountain Top Mining and
Milling Company
P. O. Box 1451
Grand Junction, Colorado

Subject: DMEA-4427
Re: Exploration Assistance
Roger,Mike,et.al.claims

Gentlemen

The receipt of your application dated July 25, 1956 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-4427 and referred to the Rare & Misc. Metals Division.

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

Sincerely yours,

Allen S. Dakan
~~Robert E. Adams~~, Chief
Operations Control and
Statistics Division

August 20, 1956

Memorandum

To: Executive Officer, DMEA Field Team, Region III

From: Chief, Operation's Control and Statistics Division

Subject: Assignment of Docket Number

There is listed below the assigned docket number to an application recently received from Region III.

DMEA - 4427 Mountain Top Mining and Milling Company
Roger and Mike, et. al. claims

Robert E. Adams
Chief, Operation's Control
and Statistics Division

4505 Washington

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Form Approved.
Budget Bureau No. 42-R1035.2.

Denied 1/23/57

DMEA
Date Rec'd
AUG 16 1956
BUREAU OF MINES
Denver, Colorado

APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER 1, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

Not to be filled in by applicant

Docket No. 4427
Metal or Mineral
Date Received
Estimated Cost
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: Mountain Top Mining and Milling Company

(*b*) If other than an individual, add to your name above whether a corporation, partnership, etc., and the name of the State in which incorporated or otherwise organized.

(*c*) If a corporation, add to above statement, titles, names and addresses of officers.

(*d*) If a partnership, add to the above statement the names and addresses of all partners.

2. *General.*—Read DMEA Order 1, "Government Aid in Defense Exploration Projects," before completing this application. Submit this application and all accompanying papers in quadruplicate (four copies), with your name and address on each sheet of the application and on all accompanying papers. Where sufficient space is not provided on the form for all required information, state it on an accompanying paper, with a reference in each case to the instruction to which it refers by number. Comply with all applicable instructions; or, if not applicable, so state. File the application with Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest field executive officer thereof.

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract

(*b*) State any mine name by which the property is known. none

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise lessee

(*d*) If you are not the owner, submit with this application a copy of the lease, contract, or other document under which you control the property.

(*e*) If you own the land, describe any liens or encumbrances on it 20% royalty on the net profit from the Engebretson claim group, and a 10% gross override on the Mike and Roger groups.

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice.

4. *Physical description.*—(*a*) Describe in detail any mining or exploration operations which have been or now are being conducted upon the land, including existing mine workings and production facilities. State your interest, if any, in such operations. Also describe accessibility of mine workings for examination purposes.

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades.

(*c*) Describe the geologic features of the property, including mineralization, type of deposit (vein, bedded, etc.), and your reasons for wishing to explore. Illustrate with maps or sketches. Send with your application (but not necessarily as a part of it) any geologic or engineering report, assay maps, or other technologic information you may have, indicating on each whether you require its return to you.

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points.

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power.

5. *The exploration project.*—(*a*) State the mineral or minerals for which you wish to explore Uranium minerals

(*b*) Describe fully the proposed work, including a map or sketch of the property showing a plan (and cross sections if needed) of any present mine workings, and the location of the proposed exploration work as related to such features as contacts, veins, ore-bearing beds, etc.

(*c*) The work will start within 30 days and be completed within 2 months from the date of an exploration project contract.

(*d*) State the operating experience and background of the applicant with relation to the ability to carry out such exploration project, and also that of the person or persons who will supervise the operations.

6. *Estimate of costs.*—Furnish a detailed estimate of the costs of the proposed work (you will have to use a separate sheet), under the following headings. Add the totals under all headings to give the estimated total cost of the project:

(*a*) *Independent contracts.*—(Note.—If the applicant does not intend to let any of the work to contractors, write "none" after this item. To the extent that the work is to be contracted, do not repeat the cost of the contract-work in subsequent items.) State the cost of any proposed independent contracts for the performance of all or any part of the work, expressed in terms of units of work (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved, etc.).

(*b*) *Labor, supervision, consultants.*—Include an itemized schedule of numbers, classes and rates of wages, salaries or fees for necessary labor, supervision and engineering and geological consultants.

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel.

(*d*) *Operating equipment.*—Furnish an itemized list of any operating equipment to be rented, purchased, or which is owned and will be furnished by the Operator, with the estimated rental, purchase price, or suggested use-allowance based on present value, as the case may be.

(*e*) *Rehabilitation and repairs.*—Furnish a detailed list showing the cost of any necessary initial rehabilitation or repairs of existing buildings, installations, fixtures, and movable operating equipment, now owned by the Operator and which will be devoted to the exploration project.

(*f*) *New buildings, improvements, installations.*—Furnish a detailed list showing the cost of any necessary buildings, fixed improvements, or installations to be purchased, installed or constructed for the benefit of the exploration project.

(*g*) *Miscellaneous.*—Furnish a detailed list showing the cost of 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.

(*h*) *Contingencies.*—Give an estimate of any necessary allowances for contingencies not included in the costs stated above.

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

7. (*a*) Are you prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation (Sec. 7, DMEA No. 1)?

(*b*) How do you propose to furnish your share of the costs?

[X] Money [ ] Use of equipment owned by you [ ] Other

Explain in detail on acompanying paper.

REGIONAL DIRECTORS OFFICE REGION III AUG 16 1956 BUREAU OF MINES DENVER, COLORADO

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.

Dated July 25, 1956

Mountain Top Mining and Milling Company
(Applicant)

By J. R. Gullemwatters, Pres

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.

U. S. GOVERNMENT PRINTING OFFICE 16—66551-1

SUPPLEMENTARY SHEET TO DMEA FORM MF-103

1. (a) Mountain Top Mining and Milling Company
P.O. Box 1451
Grand Junction, Colorado
Organized and incorporated in the State of Colorado

(b) T. R. Gillenwaters, President
10354 Wilshire Blvd.
Los Angeles, California

Philip Doerner, Secretary-Treasurer
4921 East 38th Avenue
Denver, Colorado

J. W. LaFollette, Vice President
240 Jersey Street
Denver, Colorado

3.

CLAIM	BOOK	PAGE
Roger No. 1	673	284
" " 2	673	285
" " 3	673	286
" " 4	673	287
" " 5	673	288
" " 6	673	289
" " 7	673	290
" " 8	673	291
" " 9	673	292
" " 10	673	293
" " 11	673	294
" " 12	673	295
Mike No. 1	673	262
" " 2	673	263
" " 3	673	264
" " 4	673	265
" " 5	673	266
" " 6	673	267
" " 7	673	268
" " 8	673	269
" " 9	673	270
" " 10	673	271
" " 11	673	272
" " 12	673	273
" " 13	673	274

REGIONAL DIRECTORS
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AUG 16 1956
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DENVER, COLORADO

CLAIM	BOOK	PAGE
Mike No. 14	673	275
" " 15	673	276
" " 16	673	277
" " 17	673	278
" " 18	673	279
" " 19	673	280
" " 20	673	281
" " 21	673	282
" " 22	673	283
Lottie No. 1	662	562
" " 2	662	563
Bea No. 1	662	564
" " 2	662	565
Sunrise No. 1	662	566
Eddie F.	662	567
Eddie C.	662	568
Franklin D.	662	569
Blue Belle	662	570
Uranium Belle	662	572
Tuxedo	662	573
Becky	662	574
Nancy	662	571
Cactus Kate	662	575
Lucky Day	662	577
Nellie	662	580
Holiday	662	578
Marjorie Ann	662	579
Nora H.	662	581
Aleda M.	662	576
Black Magic	662	583
Yellow Bird	662	584
White Heather	662	585
Flamingo	662	586
Eldorado	662	587
Lasalle	662	576

All in Gateway Mining District, Secs. 20, 21, 29, 28, 32 and 33 of T51N, R 18W, N.M.P.M.

4. (a) thru (e) Adequately covered in accompanying geologic report.

5. (b) See accompanying geologic report and maps.

(d) The applicant is a public stock company, organized in the State of Colorado for the purpose of exploiting oil, uranium and base metal properties.

The president of the company, T. R. Gillenwaters, has been actively

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REGION III
AUG 16 1956
BUREAU OF MINES
DENVER, COLORADO

participating in uranium exploration, development and mining for the last two years. During this two year period, Mr. Gilleawaters has had in his employ Mr. Robert L. Rock, a graduate mining engineer of the Colorado School of Mines, with five years experience in uranium exploration, development and production to his credit. Mr. Rock, who has formulated the proposed drilling program herein presented, was formerly employed by the United States Atomic Energy Commission for 2 1/2 years as an Exploration Division project geologist. Upon approval of this application, Mr. Rock will be able to competently supervise the project.

6. Cost Estimate

Contract for 20,250 feet (average depth 125 feet) of dry, rotary non-core drilling @ $1.25/ft.	$25,312.50
and 15,600 feet (average depth 300 feet) @ $1.75/ft.	27,300.00
Contract 12 days D-7 Cat. work @ $100/day	1,200.00
Engineering and geological fees, 2 months @ $600/month	1,200.00
Deep Hole Probe, Counter and Reel Assembly	675.00
Transportation, housing, food for project supervisor	300.00
Assaying, blueprinting, contingencies	200.00
Estimated Total Project Cost ----------	$56,187.50

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REGION III
AUG 16 1956
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DENVER COLORADO

GEOLOGIC REPORT AND DRILLING RECOMMENDATIONS FOR THE MOUNTAIN TOP MINING AND MILLING COMPANY CLAIMS, TENDERFOOT MESA, MESA COUNTY, COLORADO

By: Robert L. Rock
Mining Engineer

15 August 1956

INTRODUCTION:

The fifty-nine Mountain Top Mining and Milling Company claims and fractions are located on Tenderfoot Mesa, sixty miles south of Grand Junction, Colorado, T51N, R18W, Secs. 33, 29, 28, 20 and 21, N.M.P.M. The claims are divided into three groups as shown on the accompanying index map.

Access to the claims can be gained by traveling 10 miles southwest of Grand Junction via U. S. Highway 50 to Whitewater; thence 43 miles southwesterly thru Unaweep Canyon to the Calamity Hill road; and thence 10 miles southeasterly to the eastern and northern edges of Tenderfoot Mesa.

The Tenderfoot Mesa area is bounded on all but the northern side by steep canyons. Mesa-top topography is characterized by tilted ledges of resistant sandstone irregularly interrupting rolling hills of red and green shale. The average elevation at the site of the claims is about 6,500 feet.

Snowfall and moisture are slight except on the adjoining Uncompahgre highlands, where six to seven feet of snow is not uncommon during the winter months. The county maintains all but 14 miles of road, which can easily be kept open all winter with a little maintainer work.

REGIONAL GEOLOGY:

The productive formation on the claims is the Salt Wash Member of the Morrison Formation, which is, in this locality, approximately 300 feet thick. Immediately below the Salt Wash Member is the Summerville Formation, which consists of nearly 80 feet of red, sandy, and silty shales. Overlying the Salt Wash Member is the Brushy Basin Shale Member of the Morrison Formation. This member is about 300 feet thick and consists almost entirely of red and green variegated shales. Some included conglomeritic material is present in the upper part of the Brushy Basin member near the Dakota sandstone contact and also in the lower gradational zone next to the Salt Wash Member. All the beds dip to the southwest about 6 degrees, away from the Uncompahgre uplift.

The Salt Wash Member consists of fine to medium grained lenticular sands interbedded with varying amounts of clay and carbon. The sands were deposited in scours and channels in an aggrading environment. Fluvial features such as lineation, festooning, cross-bedding and ripple marks are easily discernible on exposures.

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REGION III
AUG 16 1956
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The uranium mineralization on and near the property is generally carnotite, although some black uraninite ores are also existent. The vanadium mineral vanoxite is usually closely associated with the carnotite.

A chemical replacement of carbonaceous material by the uranium has apparently played an important role in localizing known ore bodies.

The ore bodies generally trend in a northerly direction, in the same direction as sedimentation trends.

LOCAL GEOLOGY:

Carbon trash and bleaching can be discerned on many of the Salt Wash exposures, which are covered by the claims. A thick, limonitic, bleached sandstone lense occurring on the Blue Belle claim appears very favorable.

The Harvey 1 and 2 claims, not included in the Mountain Top claims, but dividing the Engebretson group, have had a significant tonnage of high grade ore developed and mined from them.

Mineralized outcrops occur on the Becky claim and near the southwest corner of the Nellie claim. Thick bleached sands occur generally on the Nellie, Lucky Day and Cactus Kate claims. On the Nora H claim, a thick favorable sand occurs with an inherent high gamma count. Little is known about the sub-surface geology of the areas covered by the Mike and Roger claim groups, but it is probable that a pattern of holes as depicted on the accompanying maps will isolate favorable ground, which will lead to the discovery of significant ores

The general geology is certainly as favorable on Tenderfoot Mesa as it is on Outlaw and Calamity mesas, hence the author firmly believes that a well-organized, thorough drilling program, has a good chance of resulting in the discovery of ore comparable to that which has been found on these mesas. (See accompanying maps for locations of above claims and mentioned favorable occurrences.)

HISTORY OF ACTIVITIES:

A few holes have been drilled behind some of the aforementioned favorable exposures by Mr. Richard L. Cowger, present lessee of the Harvey claims. Because Mr. Cowger's wagon drill could not adequately drill the highly fractured and sometimes wet ground, the results obtained by him cannot be considered too significant. Some ore was penetrated in the vicinity of the Blue Belle claim, however, offset holes could not be bottomed with Mr. Cowger's equipment.

Mr. Cowger is at present contracting some drilling behind his Harvey mine workings in an attempt to extend the ore in this locality.

ECONOMIC CONSIDERATIONS:

The Mountain Top Mining and Milling Company has leased the Engebretson claim group

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REGION III
AUG 16 1956
BUREAU OF MINES
DENVER, COLORADO

subject to a 20% net override, and the Mike and Roger groups subject to a 10% gross override.

Because Mr. Cowger has built drill roads and access roads over much of the terrain covered by the claim, road building will not be a major expense.

The groups are 63 miles from the Climax Uranium Company mill at Grand Junction and hence are well within the government's 100 mile maximum distance for the six (6¢) per mil haulage allowance. Grand Junction is a good mine supply and residential center, making supplies and manpower readily available.

An approximate $20,000 initial production bonus remains on the Engebretson claims and an additional $35,000 initial production bonus would probably be approved for the Mike claim group due to their removed location from the other two groups.

CONCLUSIONS AND RECOMMENDATIONS:

In respect for the merits of the property, I recommend that approximately 35,850 feet of drilling be expended, as per the attached drill maps, in exploring the fifty-nine claims. The average hole depth is estimated at 125 feet for the Roger and Engebretson claim groups, and at 300 feet for the Mike group. A total of 214 holes are planned under the program herein presented.

The pattern of drilling, as shown, should suffice to clarify the stratigraphic picture and to isolate favorable ground for more concentrated drilling.

Special attention is shown favorable rim exposures by spacing holes on 150 foot centers transverse to the expected trends.

Although the holes are primarily designed to test the upper half of the Salt Wash, a few holes should penetrate the entire Salt Wash since all three horizons are potentially productive. All holes should be lithologically logged to provide information for sub-surface favorability maps. Gamma-ray logs should also be made of each hole to provide records of any anomalous radioactivity which is penetrated.

No core drilling will be necessary. Wagon drilling will probably prove fruitless on the deeper holes, since perched water tables are frequently encountered. A rotary rig with plenty of air, and which is adaptable to water, is recommended.

The cost of drilling is estimated at $1.25 per foot for rotary non-core drilling to an average depth of 125 feet, and at $1.75 to an average depth of 300 feet. Approximately $56,000 should handle the exploration project, including road building and miscellaneous costs.

Sincerely yours,

Robert L. Rock

Robert L. Rock
Mining Engineer

RLR:dj

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REGION III
AUG 16 1956
BUREAU OF MINES
DENVER, COLORADO

A G R E E M E N T

THIS AGREEMENT, made and entered into this 13th day of August, 1956, by and between M. R. DOUGLASS, THOMAS J. CLARK and J. R. CAGLE, a co-partnership, doing business as Western Investors, parties of the first part, hereinafter referred to as Lessors, and MOUNTAIN TOP MINING AND MILLING CO., a Colorado corporation, party of the second part, hereinafter referred to as Lessee,

WITNESSETH:

That for and in consideration of the premises and the mutual covenants and agreements herein contained, the parties agree as follows, to-wit:

1. That the Lessor does hereby let, lease and demise unto the Lessee the following described unpatented lode mining claims, situate in the Gateway (unorganized) Mining District, Mesa County, Colorado, to-wit:

> Roger Numbers 1 to 12, both inclusive, location certificates of said mining claims having been recorded in Book 672 at Pages 284 through 295 of the Records of the County Clerk and Recorder of Mesa County, Colorado; EXCEPT that part of Roger Numbers 11 and 12 in conflict with the Pick and Shovel Claim, said Pick and Shovel Claim having been located prior to the location of the Roger Claims;
>
> Mike Numbers 1 to 22, both inclusive, the location certificates of said mining claims having been recorded in Book 672 at Pages 262 through 283 of the Records of the County Clerk and Recorder of Mesa County, Colorado;

for a period commencing on this date and for so long a time hereafter as the Lessee may be exploring, developing or mining ores from said premises.

2. The Lessee agrees to pay and the Lessors agree to accept as rental for said premises ten per cent (10%) of the gross values of all ores, metals and minerals mined and sold from said premises, including ten per cent (10%) of any production bonus paid by the United States Atomic Energy Commission, but excluding all haulage or development allow-

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REGION III
AUG 16 1956
BUREAU OF MINES
DENVER, COLORADO

allowances paid by any agency; said haulage and development allowances shall be and remain the sole and separate property of the Lessee.

3. The parties hereto mutually agree that this instrument shall constitute the authority for any buyer or buyers of ore mined and sold from said premises to pay directly to the Lessors the royalty interests due them as hereinabove provided.

4. The Lessee agrees that it will immediately go upon the property above describe and commence exploratory drilling thereon, and agrees that it will within one year from the date hereof do and perform Thirty Three Hundred Dollars ($3300.00) worth of exploratory drilling upon said claims, and agrees that it will, during the term hereby created, do work upon said claims annually having a value of Thirty Three Hundred Dollars ($3300.00) so as to comply with the requirements of applicable laws relative to annual assessment work done upon said premises. Lessee agrees that it will make, prepare and file the necessary affidavits showing that said assessment work has been done during each annual assessment period. The Lessee agrees to furnish to the Lessors, upon deman, all geological information obtained by it in the exploration, development or mining of said premises. The parties agree that Lessors or their duly authorized agents may go upon said mining premises at any time during the term hereof for the purpose of surveying, sampling and inspecting said premises, provided, that the activities upon the premises by the Lessors or their agents shall not be conducted so as to interfere with the work being done upon said premises by the Lessee.

5. The Lessee agrees that in the event ores of commercial quality and quantity are discovered upon said mining claims by the drilling program to be instituted by the Lessee, that the Lessee shall thereafter proceed with reasonable diligence to mine and sell said ores.

6. Lessee agrees that it will explore, develop and mine said premises, in the event commercial ores are discovered thereon, in a good and miner-like fashion with due regard to the preservation of said premises as a good and workable mine.

REGIONAL DIRECTORS
OFFICE
REGION III
AUG 16 1956
BUREAU OF MINES
DENVER, COLORADO

7. Lessee agrees that it will promptly pay all expenses incurred by it in exploring, developing and mining said premises so as to prevent the filing of liens thereon. Lessee further agrees that it will post upon said premises in a conspicuous place a notice that the same are under lease to Lessee and the Lessors are in no way responsible for any labor, materials, machinery, supplies and fixtures furnished upon said property or used in connection with the mining operations conducted thereon by Lessee.

8. The Lessee agrees that it shall carry workman's compensation insurance as required by the statutes of the State of Colorado. Lessee further agrees to assume all responsibility in case of accident or injuries to any person or property upon said premises and agrees to hold and save the Lessors free and harmless therefrom.

9. It is mutually agreed by and between the parties hereto that the Lessee may terminate this Agreement at any time hereafter by giving to the Lessors thirty (30) days notice in writing of its intention so to do, said notice to be mailed by registered mail to the Lessors at Grand Junction, Colorado, and shall be deemed to have been given on the date of the mailing thereof.

10. In the event of the termination of this lease by either party hereto the Lessee shall have the right within sixty (60) days of the termination thereof to remove any property placed upon said premises by Lessee.

11. It is mutually understood by and between the parties hereto that in the event of the violation of any covenant and condition herein contained to be kept and performed by the Lessee, the Lessor may at its election terminate this agreement by giving to the Lessee thirty (30) days written notice of its intention so to do. Said notice shall contain in substantial detail the breach or default of the Lessee, and unless the Lessee, within said thirty (30) day period, shall cure said default or commence to cure the same and proceeds with reasonable diligence to cure any said default or breach, this Agreement

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AUG 16 1956
BUREAU OF MINES
DENVER, COLORADO

shall thereupon terminate and the Lessors or their agents may thereupon enter upon said premises and dispossess all persons found occupying the same, with or without force and with or without process of law. Said notice shall be mailed to the Lessee at Grand Junction, Colorado by United States Registered mail and shall be deemed to have been given on the date of the mailing thereof; it being understood and agreed by and between the parties hereto that time is of the essence of this agreement.

This Agreement shall extend to and be binding upon the successors and assigns of the parties hereto.

IN WITNESS WHEREOF, the parties hereto have hereunto set their hands and seals the day and year first above written.

M. K. Daugherty (SEAL)
M. K. DOUGHERTY

Thomas J. Clark (SEAL)
THOMAS J. CLARK

J. R. Bayle (SEAL)
J. R. BAYLE

Parties of the First Part

MOUNTAIN TOP MINING AND MILLING CO.

By _____
President

ATTEST:

_____ Secretary

Party of the Second Part

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OFFICE
REGION III
AUG 16 1956
BUREAU OF MINES
DENVER, COLORADO

LEASE AGREEMENT

THIS AGREEMENT, Made and entered into on this the 7th day of November, 1955, by and between NORMA S. ENGEBRETSON, ESTATE OF ALFRED J. ENGEBRETSON and G. J. SMITH, parties of the first part, hereinafter referred to as lessors, and J. R. CAGLE, THOMAS J. CLARK and M. R. DOUGLASS, doing business as WESTERN INVESTORS, parties of the second part, hereinafter referred to as lessees,

WITNESSETH:

WHEREAS, the first parties are the owners of the following described unpatented lode mining claims situate in the Tenderfoot Mining District (unorganized) in Mesa County, Colorado, to-wit:

NAME OF CLAIM	BOOK	PAGE	NAME OF CLAIM	BOOK	PAGE
Aleda M.	606	210	Lottie No. 1	606	213
Bea No. 1	606	220	Lottie No. 2	606	221
Bea No. 2	606	206	Lucky Day	606	218
Becky	606	197	Marjorie Ann	606	203
Black Magic	606	201	Nancy	606	196
Blue Bell	606	214	Nellie	606	208
Cactus Kate	606	195	Nora H.	606	198
Eddie C.	606	215	Sunrise	606	216
Eddie F.	606	219	Tuxedo	606	209
El Dorado	606	222	Uranium Belle	606	223
Flamingo	606	202	White Heather	606	204
Holiday	606	207	Yellow Bird		
La Salle	606	205	Franklin D.		

and

WHEREAS, it is the mutual wish and desire of the parties hereto that the lessors lease unto the lessees said mining claims upon the terms and conditions hereinafter set forth.

NOW, THEREFORE, For and in consideration of the premises and the mutual covenants and agreements herein contained the parties agree as follows, to-wit:

1. That the lessors shall let, lease and demise, and by these presents do let, lease and demise unto the lessees all of the above described unpatented lode mining claims for a period commencing on this date and ending on the 7th day of

REGIONAL DIRECTORS
OFFICE
REGION III
AUG 16 1956
BUREAU OF MINES
DENVER, COLORADO

November, 1960, and so long a time thereafter as the lessees may be exploring, developing or mining ores from said premises.

2. The lessees agree to pay and the lessors agree to accept as rental for said premises 20% of the net profits realized from the sale of ores, metals or minerals mined and sold from said premises. The net profits as herein used are defined as the sum remaining after the deduction of all costs incurred by the lessees in exploring, developing or mining said premises. Lessees agree that they shall keep and maintain books and records of all expenses and receipts of said operation; said books and records shall be kept in accordance with acceptable accounting practices consistently applied.

3. The lessors agree that they have good possessory title to the mining claims herein described as against everyone, excepting the United States of America, and further agree and warrant that the lessors, for themselves, their legal representatives, successors or assigns, have not encumbered or alienated any of the above described property, and lessors do hereby warrant their title to said property as against, but only against, any person or persons lawfully claiming said property through or under them.

4. The lessees shall pay to each of the lessors 6 and 2/3% of the profits realized from the sale of ores, metals and minerals from the above described premises as afresaid. Profits shall be computed each three months during the term hereof and the payment thereof shall be made to the lessor within fifteen (15) days after the termination of each six months period.

5. The lessors shall have the right and privilege of inspecting the books and records at reasonable times and places.

6. The lessors agree that they shall obtain from the County Court of Mesa County the authority of the Court to permit the Estate of Alfred J. Engebretson to enter into this Lease Agreement and shall furnish to the lessees a certified copy of the Order of Court granting said authorization.

7. It is mutually understood and agreed by and between the parties hereto that there are certain conflicting claimants to a part of the area encompassed

REGIONAL DIRECTORS
OFFICE
REGION III
AUG 16 1956
BUREAU OF MINES
DENVER, COLORADO

by the mining claims above described. The lessors do hereby give and grant unto the lessees the full right and authority to settle said conflicts in any manner acceptable to the lessees. The lessors agree to make and execute any and all instruments necessary to carry out any settlement of said conflicts made by the lessees.

8. The parties further mutually agree that at any time during the term hereof should the lessees desire to sell the above described mining claims, the lessees agree, upon receipt of a bona fide offer for the sale and purchase of said mining claims, to notify the lessors in writing of said offer for the purchase of said mining claims, and lessors may within five days after the mailing of said notice, as hereinafter provided, elect to purchase the lessees' interest in and to said mining claims by paying to lessees 80% of the amount of said bona fide offer for the purchase of said claims. The parties further agree that in the event the lessors fail to exercise their right to purchase lessees' interest, as aforesaid, then and in that event, the lessors must sell their interest in and to said mining claims and agree that they shall thereupon make, execute and deliver to the purchaser of said mining claims a good and sufficient Quitclaim Mining Deed conveying said claims to the purchaser thereof, and the net proceeds derived from such sale shall be paid 80% thereof to lessees, and 20% thereof to lessors.

9. THE LESSEES AGREE, as follows:

(a) To enter upon the leased premises and to work and mine the same in a good and minerlike fashion, with due regard to the development and preservation of the premises.

(b) To permit the lessors, or their agents, to enter upon the premises herein described, at all reasonable times, for the purposes of inspection.

(c) To assume all responsibility in case of accidents to any persons upon the premises, or any employees of lessees in and about said property, and to carry, at all times Workmen's Compensation Insurance as required by the State of Colorado.

(d) To fully comply with all legal requirements of the State and Federal mining inspectors.

(e) To promptly pay all expenses incurred by them for labor and material furnished or used upon said premises so as to prevent the filing of liens against the same.

REGIONAL DIRECTORS
OFFICE
REGION III
AUG 16 1956
BUREAU OF MINES
DENVER, COLORADO

(f) That they will do and perform all annual labor and improvements upon said property as required by law, and shall make and file affidavits of annual assessment work in proper time.

10. The parties agree that the Lessees may, in the event they are not in default under the terms hereof, upon giving thirty (30) days written notice to lessors, quit and surrender possession of said premises to lessors, and this lease shall be and become terminated at the end of said thirty day period, after the mailing of notice by lessees to lessors, and all of the obligations and responsibilities of the lessees hereunder shall thereupon terminate. Said notice shall be addressed to lessors at:

Norma S. Engebretson
Box 174
Moab, Utah

G. J. Smith
2887 B Road
Grand Junction, Colorado

and sent by United States registered mail, return receipt requested, and shall be deemed to have been given on the date of the mailing thereof.

11. It is mutually understood and agreed that, in the event of a violation of any covenant and condition herein contained to be kept and performed by the lessees, the lessors may, at their election, notify the lessees of such default, specifying the default in substantial detail, and in the event lessee does not, within 30 days after the mailing of said notice, commence to cure such default, with reasonable diligence, this agreement shall, at the end of said 30-day period, terminate, and the lessors, or their agent, may thereupon enter upon said premises and dispossess all persons found occupying the same, with or without force, and with or without process of law; said notice shall be addressed to the lessees at:

122 North Sixth Street
Grand Junction, Colorado

and sent by United States registered mail, and shall be deemed to have been given on the date of the mailing thereof. In the event of the termination of this agreement as aforesaid, the lessors shall keep and retain all sums theretofore paid to them, as liquidated damages and rent.

REGIONAL DIRECTORS
OFFICE
REGION III
AUG 16 1956
BUREAU OF MINES
DENVER, COLORADO

Time is of the essence of this Agreement and all covenants and conditions contained herein, express or implied, shall extend to and be binding upon the heirs, executors, administrators, successors and lawful assigns of all parties hereto.

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

S. /Norma S. Engebretson

S/ G. J. Smith

Estate of Alfred J. Engebretson

By S/ Norma S. Engebretson
Administratrix

Lessors

S/ Thomas J. Clark

S/ J. R. Cagle

S/ M. R. Douglass
dba Western Investors

Lessees

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AUG 16 1956
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ASSIGNMENT OF LEASE

FOR AND IN CONSIDERATION of One Dollar and other valuable consideration, cash in hand paid, the undersigned hereby assign, transfer, and set over to Mountain Top Mining and Milling Co., all their right, title and interest in and to a certain Lease Agreement entered into on November 7, 1955 between Norma S. Engebretson, Estate of Alfred J. Engebretson and G. J. Smith as Lessors, involving the following described unpatented lode mining claims situate in the Tenderfoot Mining District, Mesa County, Colorado, to-wit:

Aleda M.	El Dorado	Nellie
Bea No. 1	Flamingo	Nora H.
Bea No. 2	Holiday	Sunrise
Becky	La Salle	Tuxedo
Black Magic	Lottie No. 1	Uranium Belle
Blue Bell	Lottie No. 2	White Heather
Cactus Kate	Lucky Day	Yellow Bird
Eddie C.	Marjorie Ann	Franklin D.
Eddie F.	Nancy	

S/ J. R. Cagle
J. R. Cagle

S/ Thomas J. Clark
Thomas J. Clark

S/ M. R. Douglass
M. R. Douglass

S/Richard E. Cowger
Richard E. Cowger

The undersigned hereby consent to the assignment by J. R. Cagle, Thomas J. Clark, M. R. Douglass and Richard E. Cowger of all their right, title and interest in and to the lease above referred to and agree that Paragraph 8 of said Lease Agreement hereafter shall be null and void and of no further force or effect.

S/ Norma S. Engebretson

Estate of Alfred J. Engebretson

By_____
Administratrix

S/ G. J. Smith
G. J. Smith

RECORDING DIVISION
OFFICE
RECEIVED
AUG 2 6 1958
MINING CO. MINING
DEPT. OF LAND

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OFFICE
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2. Void previous block.
3. Write clearly.

NAME OR TITLE OF PERSON, DEPARTMENT, ADDRESS, AND ROOM		NAME OR TITLE OF PERSON, DEPARTMENT, ADDRESS, AND ROOM	
~~[illegible]~~	RUN		RUN
~~Exhibitions~~	STOP		STOP
~~Commanding~~ ~~OMR~~	RUN		RUN
~~5 Cost Secty~~	STOP		STOP
~~Mr Kittegaard~~	RUN		RUN
	STOP		STOP
Gen. Griswold	RUN		RUN
4444 Sub	STOP		STOP
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	STOP		STOP

surplus envelopes to y room for reissue.

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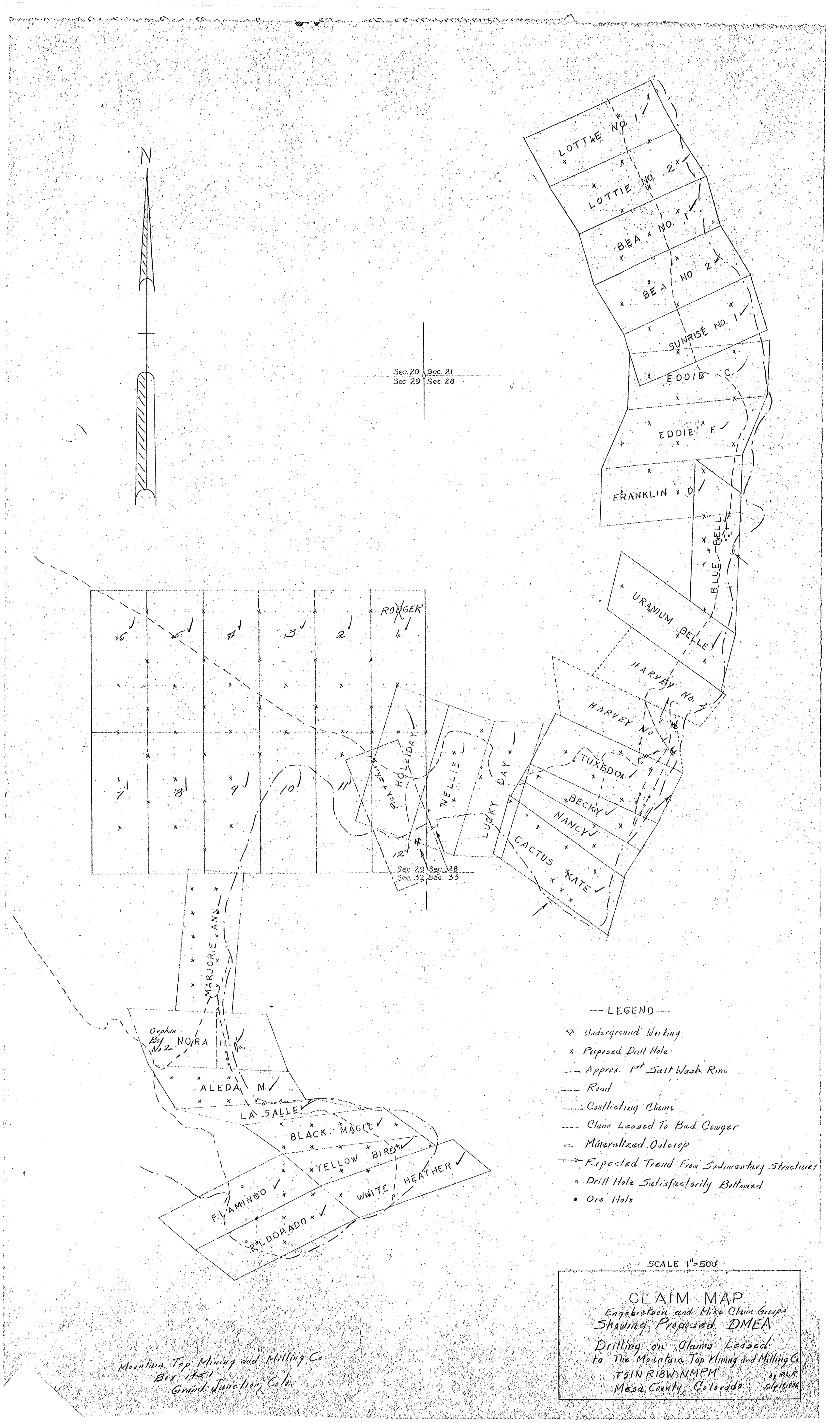
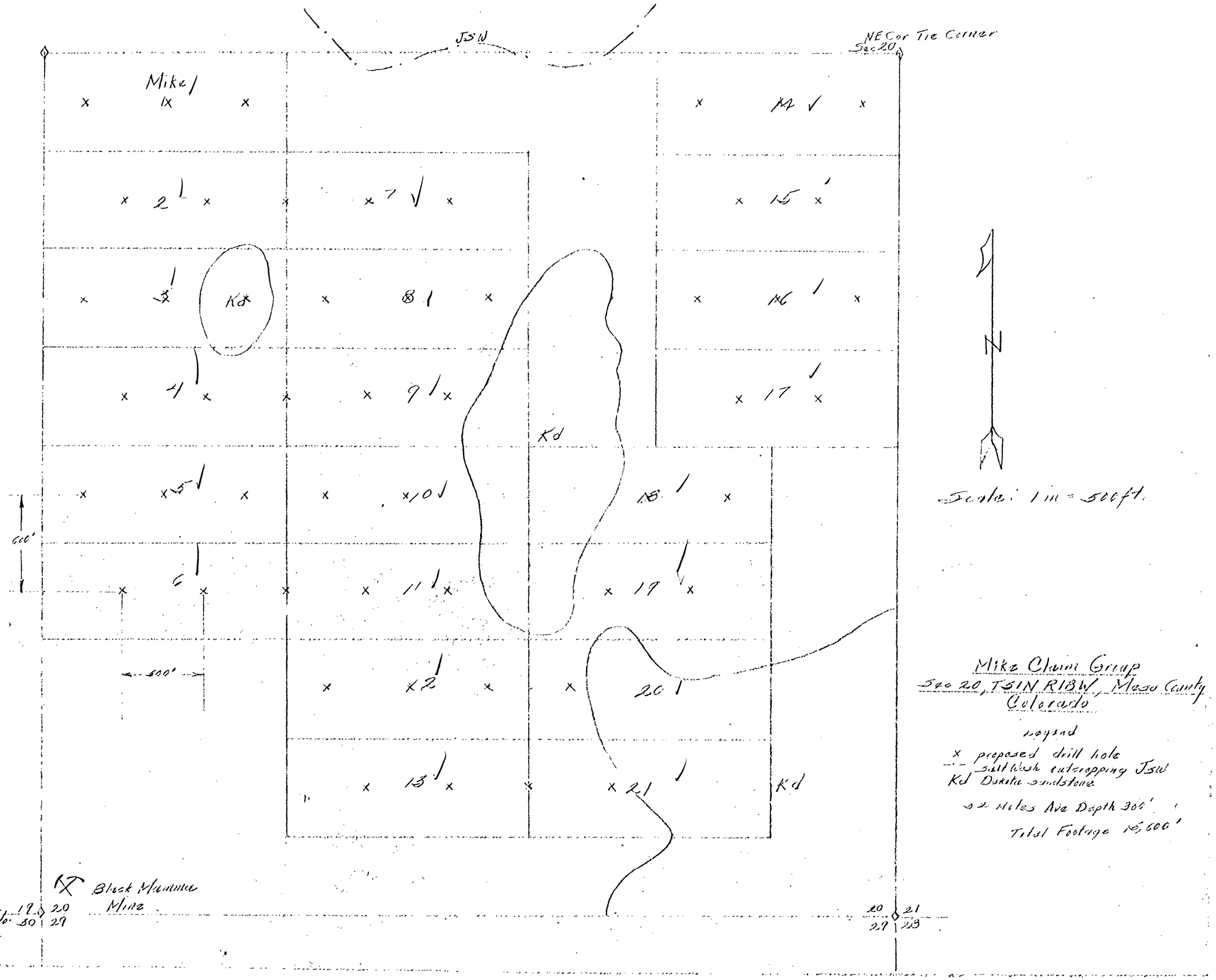

N
Sec. 20
Sec. 21
Sec 29
Sec. 28
LOTTIE NO. 1
LOTTIE NO. 2
BEA NO. 1
BEA NO 2
SUNRISE NO. 1
EDDIE C.
EDDIE F.
FRANKLIN D.
BLUE BELL
URANIUM BELLE
HARVEY No. 2
HARVEY No. 1
TUXEDO
BECKY
NANCY
CACTUS KATE
LUCKY DAY
NELLIE
HOLIDAY
ROGER
Sec 29
Sec. 28
Sec. 32
Sec. 33
MARJORIE ANN
Orphan Boy No 2
NOIRA H.
ALEDA M.
LA SALLE
BLACK MAGIC
YELLOW BIRD
WHITE HEATHER
FLAMINGO
ELDORADO
LEGEND
Underground Working
Proposed Drill Hole
Approx. 1st Salt Wash Rim
Road
Conflicting Claim
Claim Leased To Bud Cowger
Mineralized Outcrop
Expected Trend From Sedimentary Structures
Drill Hole Satisfactorily Bottomed
Ore Hole
SCALE 1"=500'
CLAIM MAP
Engebretson and Mike Claim Groups
Showing Proposed DMEA
Drilling on Claims Leased
to The Mountain Top Mining and Milling Co
T51N R18W NMPM
Mesa County, Colorado
by RLR
July 19, 1956
Mountain Top Mining and Milling Co
Box 1451
Grand Junction, Colo.


JSW
NE Cor Tie Corner Sec 20
Mike 1
2
3
4
5
6
7
8
9
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11
12
13
14
15
16
17
18
19
20
21
Kd
Kd
Kd
600'
500'
N
Scale: 1 in = 500 ft.
Mike Claim Group
Sec 20, T51N R18W, Mesa County Colorado
Legend
x proposed drill hole
-·- salt wash outcropping JSW
Kd Dakota sandstone
22 Holes Ave Depth 300'
Total Footage 6,600'
Mountain Top Mining and Milling Co.
Box 1451
Grand Junction, Colo.
Black Mamma Mine
19 20
30 29
20 21
29 28

Mountain Top Mining and Milling Co
Box 1451
Grand Junction, Colo