DMEA Form 9

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE

DMEA NO. 4616

✓ 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(~~Withdrawn~~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

9775

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

224 New Customhouse
Denver 2, Colorado

January 24, 1957

RECEIVED
JAN 28 1957
D.M.E.A.

Memorandum

To: Secretary to the Operating Committee

From: DMEA Field Team, Region III

Subject: Application for DMEA Aid (manganese-lead-zinc) Standard Minerals, Inc. (Black Colt and Blackie Claims) Sierra County, New Mexico.

Enclosed are three copies of the subject application in the amount of $24,034.00. One copy of the application is being retained in our file.

The Applicant's proposed exploration work consists of extending the present adit, sinking the existing shaft to a depth of 78 feet, and drifting 200 feet.

DMEA Field Team, Region III

By W. M. Traver
Executive Officer

Enclosures

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 29 1957

DATE	INITIALS	CODE
1/29	WSM	400

S. 3rd St.
as, Nevada

P.O. Box 412
Oatman, Arizona

Record

CAPITALIZED OF 2,500,000

STANDARD MINERALS, INC.

MINING AND EXPLORATION

P.O. Box 1002 Santa Barbara, California

DMEA
DEPARTMENT OF THE INTERIOR
JAN 24 1957
REGION III
DENVER, COLORADO

United States Department of the Interior
Defense Minerals Exploration Administration
Region 8.
Building 41, Denver Federal Center
Denver 2. Colorado.

Gentlemen;

Enclosed herewith is Application For Aid In An Exploration Project, Persuant To DMEA Order 1, under the Defense Production Act of 1950, as Amended.

This application is submitted by Standard Minerals, Inc. a Nevada Corporation, filing address P. O. Box 1002, Santa Barbara, California.

Will you kindly notify the following individuals when your Engineer can make an inspection of the claims :

Mr. Earl D. Rittenhouse,
1843 El Camino de la Luz
Santa Barbara, Calif.

Mr. Roy Tirey,
Hillsboro,
New Mexico.

Mr. Frank W. Cole,
P. O. Box 1002
Santa Barbara, Calif.

RECEIVED
JAN 28 1957
D.M.E.A.

If any additional data is required with reference to the application please notify Mr. Earl D. Rittenhouse, at the above address.

Yours very truly.

STANDARD MINERALS, INC.

By Frank W. Cole

Frank W. Cole, Vice President.

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

4. PHYSICAL DESCRIPTION

EXPLORATION WORK

(a) Some exploration work was performed on the Black Colt Patented Mining Claim, by sinking a shaft to a depth of Thirty Five feet and drifting One Hundred feet South. This work was performed in an attempt to locate some high grade Manganese, and the location of this shaft is designated "A" on the Map of Claims submitted as EXHIBIT I.

Two "Faces" of Manganese were opened on the Blackie Claim No. 1. at the locations designated as "B" and "C" on said Map.

MANGANESE MINED

Some Manganese ore was mined from an open pit on the Black Colt Patented Claim designated as location "D" on the Map. This Manganese Ore was shipped to the Manganese Purchasing Depot at Deming, New Mexico, and according to the figures furnished by the Defense Minerals Exploration Administration there were 753.33 long tons of manganese purchased from this claim that averaged 38.01 %.

PRIOR WORK

All of the foregoing Exploration Work and Mining Operations was performed prior to the acquisition of the lease and option to purchase the claims by the Applicant.

ACCESSIBILITY EXAMINATION

The Thirty Five foot Shaft mentioned above on the Black Colt Patented Claim, is open and can be easily inspected as the Hoist and Head Frame are intact.

The "Open Pit" location shows indications of additional Manganese in place.

Standard Minerals Inc
c/o FRANK W. COLE
P. O. Box 1002
Santa Barbara, California

4. PHYSICAL DESCRIPTION

(b) As of the date of this application there is no mining operations being carried on, on the leased claims.

PRODUCTION

Prior to the closing of the Manganese Purchasing Depot, at Deming, N. M. there were 753.33 long tons averaging 38.01 %. shipped by Haile Mines Company, from the Black Colt Patented Claim

MINERALIZATION

(c) Zinc is currently being mined on the Miner Dream Patented Claim, which adjoins the Blackie Claim No. 1. and the ore is being shipped to the American Smelting and Refining Company, at their Mill located at Deming, New Mexico.

ZINC MINING

MANGANESE VEINS

Manganese veins are exposed on the surface at many locations on the Blackie No. 1. Blackie No. 2. and Blackie No. 3. Claims.

AREA

These three Claims, together with the Black Colt Patented Claim comprise an area of approximately 80 acres and adjoin extensive Patented Mining Claims held by the New Jersey Zinc Corporation.

ENGINEER REPORT

There are no Engineering Reports available covering this particular area.

ACCESSIBILITY

(d) The Claims are reached by a good graded road which runs Northerly One and One-half miles from the Town of Kingston, located on Highway No. 180 as shown on Road Sketch Map designated as EXHIBIT II.

ROAD

The Town of Hillsboro, N. M. lies 10- 1/2 miles distant where there is a General Store and Post Office.

Standard Minerals Inc

c/o FRANK W. COLE
P. O. Box 1002
Santa Barbara, California

4. PHYSICAL DESCRIPTION

(d) continued. Materials and Supplies are available at the Town of Truth or Consequences 41-1/2 miles from the Claims, or Silver City, some 48 miles distant.

MATERIALS & SUPPLIES

Housing accomodations are available at Hillsboro, N.M. where residences, Courts, and also Hotel rooms and board may be obtained at the Hatcher Hotel.

LIVING ACCOMODATIONS

Rooms are also available with board at Kingston, N.M.

The nearest Railroad shipping point is at NUFT, N. M. which is a siding on the A.T. & Santa Fe. Rail Road being 40-1/2 miles from the Mining Claims, the ore hauling being down hill to the shipping point.

SHIPPING POINTS

The American Smelting & Refining Company, being located at Deming, N. M. some 61 miles from the Mining Claims.

MANPOWER & EQUIPMENT

(e) Experienced Miners are available at $15.00 per day.

MINERS

Due to the Three Year drouth in the State of New Mexic, water is not available at the elevation of the Claims being 7500 ft. but will be hauled from Kingston, 1-1/2 miles distant.

WATER

Electric Power is not available at the Claims

ELECTRICITY

The Black Colt Patented Claim has a complete array of Mining Equipment suitable for immediate operations and is for sale to the Applicant as itemized under the attached EXHIBIT III

EQUIPMENT

5. THE EXPLORATION PROJECT

(b) The proposed exploration work includes extending the existing tunnel at the 35 ft. level a distance of 100 feet to explore for high grade Manganese underground, and also sink the existing shaft to a depth of 78 ft.

Standard Minerals, Inc
c/o FRANK W. COLE
P. O. Box 1002
Santa Barbara, California

5. THE EXPLORATION PROJECT

(b) continued. and thence drive a tunnel 250 ft. to explore for high grade Manganese. All of this work to be conducted at the shaft where the head frame and hoist are installed at the location designated as "A" on the Map of Claims EXHIBIT I.

It is also desired that the existing shaft designated as location "E" on the Map of Claims, be re-opened in order that exploration for Zinc can be made at this location. The shaft is caved at the top/at an estimated depth of 40 to 50 ft. The entire shaft will require re-timbering to its total depth of 200 ft.

OPERATING EXPERIENCE

(d) The Standard Minerals, Inc, the Applicant, has not previously engaged in active mining operations, but is now prepared so to do by reason of the seasoned experience of its President, Mr. Lloyd H. Moss, and its Treasurer, Mr. Frank W. Cole, who will supervise the mining operations.

EXPERIENCE OF Lloyd H. Moss, President.

Mr. Lloyd H. Moss, has an extensive mining experience having been associated with the Oatman Eastern Corporation during the years 1925, 1926, and 1927, when that corporation operated a gold mine at the town of Oatman, Arizona, and also when that company operated the Ruth Rattan Gold Mine near Oatman, during the years 1935, 1936 and 1937.

EXPERIENCE OF Frank W. Cole, Treasurer.

Mr. Frank W. Cole, was engaged in the business of extracting Potash from Sea Kelp at Summerland, Calif, during the years 1916, and 1917.

He also operated his own Real Estate and Insurance business until 1944, when he leased some Manganese Claims 9 miles west of Ludlow, California, where he mined and sold Manganese ore to the Kaiser Steel Plant, at Fontana, California.

5. THE EXPLORATION PROJECT

(d) continued.

EXPERIENCE OF Earle D. Rittenhouse, Secretary.

Mr. Earle D. Rittenhouse, prior to 1919 was employed in the capacity of assistant to the General Manager of John A.Roebling's Sons Company, of Trenton, N. J. and taught Electrical Engineering for Nine years at the School of Industrial Arts of Trenton, New Jersey,

During the years 1935-1936-and 1937, Mr. Rittenhouse, was engaged in the raising of capital for the mining operations being conducted by the Oatman Eastern Corporation, at Oatman, State of Arizona.

6. ESTIMATE OF COSTS

(a) INDEPENDENT CONTRACTS

There are no Independent Contracts as of this date.

(b) EXPLORATION WORK Black Colt Patented Claim
For High Grade Manganese at designated Location "A"

Extend existing tunnel at 35 ft. level westerly 70 ft. Labor & Material costs- WORKING TIME 20 DAYS	$ 700.00	
Sink existing shaft from 35 ft. level to 78 ft. level.Labor & Material costs- WORKING TIME 19 DAYS	645.00	
Drive tunnel 200 ft. to explore for high grade Manganese under ground Labor & Material costs- WORKING TIME 60 DAYS	2000.00	
		$ 3345.0

EXPLORATION WORK Black Colt Patented Claim
For Zinc at old mine shaft at designated Location "E". Open and retimber this shaft bottomed at 200 ft. and clear caved portion (from the surface to 30-40 ft. below the surface.)

Retimbering-	$ 2200.00	
Labor & Materials WORKING TIME 60 DAYS	2000.00	
Drive Four tunnels in different directions at 200 ft. level = 400 ft. Labor & Materials WORKING TIME 60 DAYS	4000.00	
		$ 8200.00
		$11745.00

Standard Manganese, Inc
c/o FRANK W. COLE
P. O. Box 1002
Santa Barbara, California

6. ESTIMATE OF COSTS

(b) continued. Balance brought forward - $ 11,745.00

SUPERVISION SUPERINTENDENCE By Mr. Roy Tirey, (40 years) Mining and timbering experience Two Months @ $600.00 per month =	$ 1200.00	
FORMEN 2 @ $450.00 per month each- Two Months @ $900.00 =	1800.00	
MINING ENGINEER and GEOLOGIST Total Cost -	1000.00	
		4,000.00

(c) OPERATING MATERIALS & SUPPLIES

Hauling WATER from Kingston, N. M. to the Mining Claims Two Months operation @ $100.00 per month =	200.00	
Gasoline for Hoist, Blowers, Compressor and GMC Truck Two Months operation @ $ 60.00 per month =	120.00	
Repairs to Truck and Equipment Tires, etc. estimated for Two Months-	390.00	
		710.00

(d) OPERATING EQUIPMENT

There is sufficient operating equipment on the leased premises to conduct all of the contemplated Mining Operations which can be purchased at reasonable cost as per INVENTORY attached as EXHIBIT III. TOTAL COST- 5000.00

(e) REHAILITATION & REPAIRS

No expenditure required. - - - -

(f) NEW BUILDINGS, IMPROVEMENTS, ETC.

No expenditure required - - - -

(g) MISCELLANEOUS

Assaying	350.00	
Liability Insurance and Workmens Compensation -Two Months	475.00	
Pay Roll Taxes	1080.00	
Accounting-Two Months @ 100.00 per month =	200.00	
		7,105.00
		$ 23,560.00

Sancora Minerals, Inc

c/o FRANK W. COLE
P. O. Box 1002
Santa Barbara, California

6. ESTIMATE OF COSTS

Balance brought forward- $23,560.00

(h) CONTINGENCIES

Possible repairs to roads in event of flash rains- $ 250.00

Possible increase in prices of Mine Timbers 224.00

474.00 474.00

Repairs to equipment included in paragraph (c) page 6. $24,034.00

TOTAL COSTS AGGREGATE $ 24,034.00

PURCHASE OF MINING EQUIPMENT EXHIBIT III 5,000.00

Total Budget- $ 29,034.00

STANDARD MINERALS, INC.

BY Earle D. Rittenhouse
Earle D. Rittenhouse, Secretary.

BY Frank W. Cole
Frank W. Cole, Vice President.

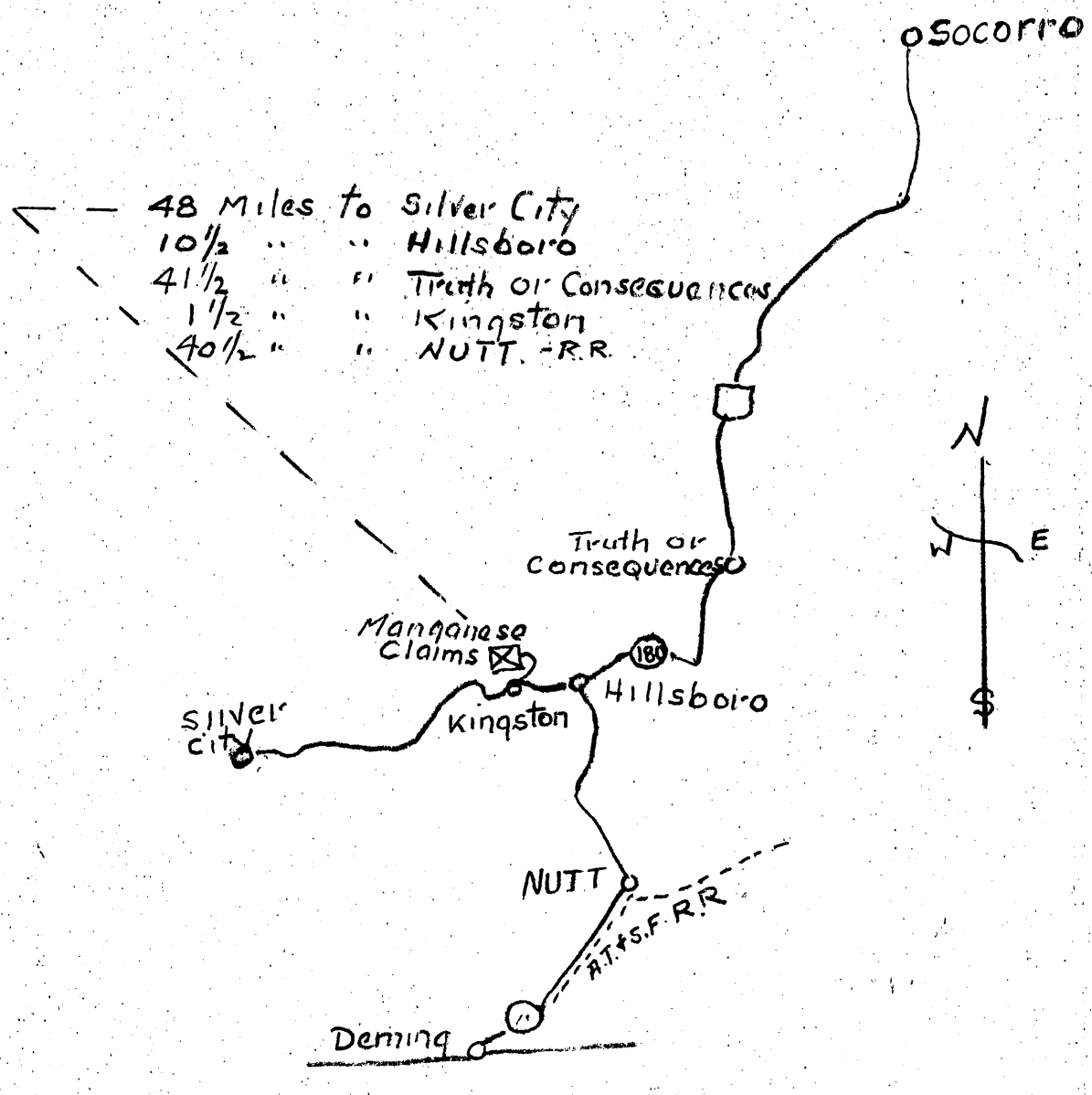
Please mail all correspondence and advise when inspection of the property can be made, to;

Standard Minerals, Inc.
Earl D. Rittenhouse, Secretary,
1843 El Camino de la Luz
Santa Barbara, California.

and a copy to;

Frank W. Cole, Vice President.
P. O. Box 1002
Santa Barbara, California.

Standard Minerals Inc
c/o FRANK W. COLE
P. O. Box 1002
Santa Barbara, California



Standard Minerals Inc.
c/o FRANK W. COLE
P. O. Box 1002
Santa Barbara, California

EXHIBIT II

EXHIBIT III

INVENTORY
MINING MACHINERY & EQUIPMENT
FOR SALE

Black Colt Patented Claim
Kingston Mining District
SIERRA COUNTY
ARIZONA

1 Gasoline Driven Hoist with Cable
1 240 Schramm Air Compressor
2 Blower Fans
1 Lot Air Hose
1 Lot Water Hose
1 lot Drill Steel
1 Lot Drill Bits (150)
Several Drill Machines
Miscellaneous Tools, Picks, Shovels etc.
1 GMC Pick Up Truck

ALL FOR THE TOTAL SUM AND CONSIDERATION OF $5,000.00

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JAN 28 1957
D.M.E.A.

EXHIBIT III

Standard Minerals Inc

c/o FRANK W. COLE
P. O. Box 1002
Santa Barbara, California

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

DMEA
DEPARTMENT OF THE INTERIOR
JAN 24 1957
REGION III
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. 4616
Metal or Mineral Manganese-Ld-Zn
Date Received 1-28-57
Estimated Cost $24,034
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:

STANDARD MINERALS, INC. a Nevada Corporation, (Inc. 2/19/1953)

P. O. Box 1002, Santa Barbara, California.

(*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

Black Colt Patented Mining Claim No. 618, and Mineral Location Claims Blackie No. 1, Blackie No. 2, and Blackie No. 3, recorded in Book "X" page 511 Mining Records of Sierra County, State of New Mexico, being located in TU 16 S, R 8 W, Kingston, Mining Dist.

(*b*) State any mine name by which the property is known.

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

Lease and Option to purchase

(*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. Copy of Lease and Option attached?

(*e*) If you own the land, describe any liens or encumbrances on it

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

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.

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JAN 28 1957
D.M.E.A.

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5. *The exploration project.*—(*a*) State the mineral or minerals for which you wish to explore Manganese, Lead and Zinc.

(*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 three 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)? yes.

(*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 January 1, 1957, 195__

STANDARD MINERALS, INC.
(Applicant)

By Frank W. Cole

By Vice President

P.O. Box 1002 Santa Barbara Calif

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

The Officers of Standard Minerals, Inc. are:

LLOYD H. MOSS, President, 322 E. Micheltorena St.
Santa Barbara, California.

Earle D. Rittenhouse, Secretary. 1843 El Camino de la Luz,
Santa Barbara, California

Frank W. Cole, Treasurer, 902 Bath St.
Santa Barbara, California.

U. S. Government Messenger Envelope

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

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

NAME OR TITLE OF PERSON, DEPARTMENT, ADDRESS, AND ROOM		NAME OR TITLE OF PERSON, DEPARTMENT, ADDRESS, AND
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Send surplus envelopes to supply room for reissue.

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

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☆ U. S. GOVERNMENT PRINTING OFFICE : 1951 16—38949a-2

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
5-2	Hopkins	400
5-2	Martin	400
5/3	[illegible]	130
5/3	[illegible]	130
5/3	Nelson	130
"	Johnson	110
"	Mittendorf	100
		220

MAY - 3 1957

Standard Minerals, Inc.
Mr. Earl D. Rittenhouse, Secretary
1843 El Camino de la Luz
Santa Barbara, California

Re: Docket No. DMEA 4616 - Manganese,
Lead, Zinc
Black Colt and Blackie claims
Sierra County, New Mexico

Gentlemen:

Your application for an exploration project and other data available to us in Washington concerning the referenced property have been reviewed.

Projects approved by the Defense Minerals Exploration Administration must, in its judgment, show definite promise of yielding material 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 the occurrence of manganese mineralization on your property, indicates to us that the probability of disclosing ore reserves is not sufficiently promising to justify Government participation. We regret to advise you, under these circumstances, that your application for exploration assistance is denied.

Your interest in the Defense Minerals Exploration Administration program is greatly appreciated. Thank you for bringing this property to our attention.

Sincerely yours,

C. O. Mittendorf

Administrator

Copy to: Mr. Frank W. Cole, Vice President
Standard Minerals, Inc.
P. O. Box 1002
Santa Barbara, California

JHopkins:am 4-30-57 - 5-2-57
cc to: Docket
Code 400
Admr. Read. File
Oper. Comm.
FT REG III
Messrs. G. DeHuff, Jr. USBM
T. Kiilsgaard, USGS

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
4-30	Hopkins	400
4-30	Martin	400
		130
		130
		130
		110
		100

April 30, 1957

MEMORANDUM

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division, DMEA

Subject: Denial of the Subject Application for Exploration Assistance in the Amount of $24,034.00
Docket No. DMEA 4616 - Manganese
Standard Minerals, Inc.
Black Colt and Blackie claims
Sierra County, New Mexico

Denial of the subject application is recommended by this Division based on the following information:

The applicant, Standard Minerals, Inc., requested exploration assistance in the amount of $24,034.00 on January 19, 1957, for rehabilitation and deepening a shaft, and drifting from the shaft. A field examination was made March 12, 1957, by W. L. Emerick, Geological Survey and T. M. Romslo, Bureau of Mines, accompanied by the owner of the property, Roy Tirey, and Lloyd H. Moss and Frank W. Cole, respectively president and treasurer of the corporation.

Applicant: Standard Minerals, Inc., Box 1002, Santa Barbara, California

Property: The property consists of the following mining claims: Black Colt patented claim No. 618. Blackie No. 1, Blackie No. 2 and Blackie No. 3 all unpatented recorded in Book "X" page 511, Mining Records of Sierra County, New Mexico.

The claims are located in Sec. 12, T. 16 S., R. 9 W., Kingston mining district, Sierra County, New Mexico.

Geology: General Geology:

Paleozoic sediments of Silurian and Devonian age overlie Precambrian granites, gneisses and schists. Volcanic rocks lie upon the eroded surfaces or intrude the sedimentary formations. Fracturing and folding in the sedimentary rocks have controlled the deposition of ore bodies in the region.

Ore deposits of manganese, of the replacement type, occur either as veinlike deposits in the fractures or as beds and pockets on the arches, or limbs of arches in the limestone.

Large deposits are not characteristic of the district. Values lie principally in the supergene enriched zones in upper oxidized parts. Ore decreases with depth in primary mineral zones.

8623

Workings: All underground workings are inaccessible. They consist of a 35-foot shaft and approximately 100 feet of drifts from the shaft.

The field examination was conducted in the Canfield Tunnel on the adjoining Comstock claim where it was believed that the geologic conditions and type of deposits found could be considered applicable to the Black Colt claim.

No workable deposits of manganese oxides were found or mined in the Canfield Tunnel.

About 753 long tons of manganese oxides were mined and shipped from a shallow pit on the Black Colt claim. This was a purely superficial deposit in which replaced limestone was enriched to a small pocket of manganese oxides.

Reserves: A 1950 Bureau of Mines report estimated an inferred tonnage of 50,000 tons of plus 20% manganese ore for the whole Kingston district.

This same report gives 6,000 tons to the adjoining Comstock claim.

Because of the irregular habit and small size of the individual deposits in the district and on adjoining claims, it does not appear likely that reserves on the Black Colt claim would be any greater than the 6,000 tons estimated for the Comstock claim.

Comments and Conclusions:

The Field Team recommends that the application for exploration assistance on the subject property be denied, because the manganese deposits, in general, are irregular in habit, small in size, of shallow depth and overall low in grade.

The Commodity Divisions of the Geological Survey and Bureau of Mines concur in the recommendation.

W. S. Martin

W. S. Martin, Chief
Iron and Ferro-Alloys Division

JHopkins:am
cc to: Docket
Code 400
Admr. Read. File
Oper. Comm.

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4/15	WSM	400

April 12, 1957

4616

Mn

Standard Minerals, Inc.
Black Colt & Blackie group
Sierra Co., N. Mex.
$24,034

W. S. Martin, DMEA

G. L. DeHuff, Jr., Commodity Specialist, Branch of Ferrous Metals and Ferroalloys

Field Team report

4/3/57 4/9/57

[illegible] Yes [ ] No [x]

[illegible] Yes [x] No [ ]

5. Information available on this operation: Yes [x] No [ ]

6. Current applicant Relations known to sponsors: Yes [x] No [ ]

7. Field Team report on the above: See my 2/4/57 memo. This immediate area (N½ Sec. 12, T16S, R9W) was examined by a Bureau engineer (J. H. Soule) in 1950. The area was developed for silver many years ago.

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

9. Action recommended:
a. Submit information from applicant [ ]
b. Refer to Field Team [ ]
c. Defer [x]
d. Agree with Field Team [x]
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) Applicant still has no carefully conceived exploration program tied into a specific known manganese occurrence, nor otherwise giving indications for a possible significant discovery of manganese.

G L DeHuff Jr

IN REPLY REFER TO:

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4/12	WSM	400

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

April 11, 1957

Re: DMEA 4616
Standard Minerals, Inc.
Black Colt and Blackie Claims
Sierra Co., New Mexico
$24,034.00 - Manganese

Memorandum

To: W. S. Martin, 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 series of small apparently disconnected replacement bodies of manganese-bearing material by underground work. The work outlined was indefinite as specific targets are lacking, the known ore having been mined out and no new orebody located.

Considerable oxide ore has been mined in the area and numerous small masses remain but the tonnage of available known ore is small.

In the opinion of the examiners the habits, size and overall grade of the orebodies make it improbable that significant tonnages of workable ore exist in the applicant's property. They and the Field Team recommend that the application be denied.

I concur with the recommendation.

N. E. Nelson

N. E. Nelson

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

224 New Customhouse
Denver 2, Colorado

April 3, 1957

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DATE	INITIALS	CODE
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		130
		220
410	WSM	400

Memorandum

To: Secretary to the Operating Committee, DMEA

From: DMEA Field Team, Region III

Subject: Joint Report of Examination, Docket DMEA 4616 (Manganese-Lead-Zinc) Standard Minerals, Inc. (Black Colt and Blackie Claims) Sierra County New Mexico

Enclosed are the original and three copies of a Joint Report of Examination by T. M. Romslo, USBM, and W. L. Emerick, USGS.

Investigations indicate the manganese oxide deposit of the Black Colt and Blackie Claims in the fractures and in the limestone beds are, in general, irregular in habit, small in size, shallow in depth and of over-all low grade. The investigations further indicate that there is seemingly little difference in the manganese content between primary carbonate rock and oxidized rock.

The field examiners thus conclude it improbable that significant tonnage of manganese ore could be developed on the land by the exploration work proposed and accordingly recommend denial of Government participation. The Field Team concurs in this recommendation.

By J. W. Townsend
J. W. Townsend
Alternate Acting Executive Officer

Enclosures

on-site inspect.

Reviewed by
DMEA OPERATING COMMITTEE
4-10-57
(date)

TRANSMITTED

APR 3 1957

DMEA
DEPARTMENT OF THE INTERIOR
APR 1 - 1957
REGION III
DENVER, COLORADO

Box 4126 University Station
Tucson, Arizona

March 29, 1957

Memorandum

To: Acting Executive Officer, DMEA Field Team, Region III

From: T. M. Romslo, U. S. Bureau of Mines
W. L. Emerick, U. S. Geological Survey

Through: W. R. Storms WRS
E. N. Harshman

Subject: Docket DMEA-4616 (Manganese, lead, zinc),
Standard Minerals, Inc. (Black Colt and Blackie claims),
Sierra County, New Mexico

Enclosed are the original and 8 copies of a joint field report on the above property, recommending denial of the application.

Also enclosed are the Bureau and Survey copies of the docket.

T. M. Romslo, Mining Engineer

W. L. Emerick, Geologist

TMR-WLE::ms

cc: Acting Executive officer (8)
E. N. Harshman
King
Storms
File

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Reviewed by
DMEA OPERATING COMMITTEE
4-10-57
(date)

FOR UNITED STATES GOVERNMENT USE ONLY

TRANSMITTED

APR 3 1957

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

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA
DEPARTMENT OF THE INTERIOR
APR 1 - 1957
REGI...
DENVER, COLORADO

DMEA-4616 (Manganese, Lead, Zinc), Standard Minerals, Inc.

(Black Colt and Blackie Claims)

Sierra County, New Mexico

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T. M. Romslo, Mining Engineer
U. S. Bureau of Mines

W. L. Emerick, Geologist
U. S. Geological Survey

Reviewed by
DMEA OPERATING COMMITTEE
4-10-57
(date)

March 29, 1957

SUMMARY, CONCLUSIONS AND RECOMMENDATION

The Standard Minerals, Inc., applied to the Defense Minerals Exploration Administration for governmental aid in exploration for manganese, lead and zinc on a group of 4 lode mining claims in Sec. 12, T. 16 S., R. 9 W., in Sierra County, New Mexico, under docket number DMEA-4616. The proposal of the application comprised 235 feet of drifting and 43 feet of additional sinking in one shaft, and the rehabilitation of 200 feet of a second shaft with 200 feet of drifting at an estimated total cost of $23,560.00. The originally proposed explorations were for manganese and zinc, but the applicant requested during the investigations that the proposed work be confined to exploration of manganese by a small amount of drifting from the bottom of a 35-foot deep shaft.

The deposits of the Black Colt and Blackie claims and nearby properties in the Kingston mining district were first worked for silver between 1880 and 1890. After a long period of idleness, Haile Mines produced, during 1952 and 1953, about 753 tons of ore averaging 38 percent manganese, probably from small open pits and near-surface stopes on the Black Colt and Blackie claims. Late in 1955 the next and last operator mined about 12 tons of ore containing 37 percent manganese from a small open pit on the Black Colt claim. This ore and the ore produced by Haile Mines was shipped to the G. S. A. depot at Deming, New Mexico. Mine workings on the Black Colt claim consist of 3 shafts, an open cut, and several shallow pits and trenches; those on the Blackie claim consist of several shallow trenches and pits and a few small near-surface stopes.

In the area of the Black Colt and Blackie claims southeasterly dipping limestone overlain by impervious shale was intruded by sills of monzonite porphyry. Intersecting northwest and northeast fractures cut the sediments and have controlled ore deposition. The ore deposits are of the replacement type, either veinlike deposits in the fractures, or as beds and pockets on arches and folds in the limestone. Ore bodies are irregular in size and shape and may be separated by barren, or nearly barren, ground. Values decrease with depth away from the oxidized zone, and supergene enrichment in the upper oxidized zone was responsible for the concentration of higher grade manganese ores. In depth the ore is low-grade and entirely of primary minerals. Origin of the deposits is attributed to ascending hot solutions related to intrusives.

Primary hypogene manganese minerals probably were manganiferous calcite and rhodocrosite. Accessory minerals are silver, lead, and zinc. Manganite, psilomelane, pyrolusite and wad are the ore minerals, and rhodocrosite, quartz, calcite and clay are the common gangue minerals. The richest manganese ores are near the surface in the oxidized zone.

In the absence of accessible shafts and workings on the applicants' Black Colt claim the examining team entered the Canfield Tunnel on the adjoining Comstock claim where it was possible to observe the deposits. The manganese oxides occurred in southeasterly dipping limestone overlain by impervious shale. The ore horizon was separated

from the shale by a layer of limestone. Northwest and northeast trending fractures cut the limestone in the mine workings. The zone of manganese mineralization extends for about 200 to 250 feet along the dip of the limestone beds before eventually passing into primary minerals consisting mainly of rhodocrosite and finely-disseminated sulphides. Much of the material a certain distance from the surface looks impure and low-grade, or a mixture of carbonate rock and oxides. Three check samples, two of which were representative of the oxide zone in the mine and one of which represents the primary mineral zone, were taken. These samples assayed 18.55% and 13.95% Mn for the two oxide samples, and 17.75% Mn for the primary zone, which shows little apparent difference in manganese content between primary carbonate rock and oxidized rock. Geologic conditions and type of ore deposit found on the Comstock claim could probably be considered applicable and similar to ore deposits underlying the Black Colt claim.

A small surficial, wedge-shaped pit from which about 753 long tons of manganese oxides were mined was examined on the Black Colt claim. This deposit represented a small pocket of oxidized and enriched ore in down-dipping beds of limestone that terminated against a sill of monzonite porphyry on the south. Barren, or nearly barren, limestone occurred on the east and west sides of the small pit. Ore possibilities of the pit are now exhausted.

Applicants' exhibit on the Blackie No. 1 claim consisted of small, enriched, vein-like pockets of manganese oxides in limestone at the surface, or near the surface, in vertical to steeply-dipping northwest trending fractures. Width, and dip and strike extensions of the deposits appeared limited and because of their small size and irregular occurrence it would probably be difficult to develop any significant tonnage of ore from the deposits.

An earlier report estimated an inferred tonnage of 50,000 tons of plus 20 percent manganese ore for the whole Kingston district. Because of similar geologic conditions, irregular habit and small size of the individual deposits in the district and on adjoining claims, it does not appear likely that reserves on the Black Colt claim would be any greater than the 6,000 tons estimated in the earlier report for the adjoining Comstock claim. In the aggregate many thousand tons of low-grade manganese oxides occur at shallow depths in irregular and disconnected deposits and locally there exist many small high-grade pockets of manganese oxides at the surface and near the surface containing from a few to several hundred tons of ore.

It is concluded that the manganese oxide deposits of the Black Colt and Blackie claims in the fractures and in the limestone beds are, in general, irregular in habit, small in size, shallow in depth, and overall low-grade. Local high-grade pockets of manganese oxides occur at the surface, or near the surface, in the fractures and in the limestone beds but it appears improbable that significant tonnages of workable manganese ore could be developed on the properties. It is recommended that the application for government assistance in exploration be denied.

DMEA-4616 (MANGANESE, LEAD, ZINC)
STANDARD MINERALS, INC.
(BLACK COLT AND BLACKIE CLAIMS)
SIERRA COUNTY, NEW MEXICO

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EXTENT AND OWNERSHIP OF THE PROPERTY	3
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GEOLOGY	5
DESCRIPTION OF THE WORKINGS	7
ORE RESERVES	10
CONCLUSIONS AND RECOMMENDATION	12

ILLUSTRATIONS

Figure No.

1. Location map - - - - - - - - - - - - - Following page 2
2. Geology and claim map - - - - - - - - In folder
3. Geologic sections - - - - - - - - - - Following page 8
4. Plan of Canfield Tunnel - - - - - - - Following page 8

INTRODUCTION

The Standard Minerals, Inc. applied to the Defense Minerals Exploration Administration for aid in exploration for manganese, lead and zinc on its property in Sierra County, New Mexico. The application was received January 24, 1957. It was given docket number DMEA-4616, reviewed by the Operating Committee and forwarded to the Field Team, Region III for field investigations and a report.

The field investigations were made March 12, 1957 by W. L. Emerick, geologist, U. S. Geological Survey, and T. M. Romslo, mining engineer, U. S. Bureau of Mines. They were accompanied by Lloyd H. Moss and Frank W. Cole, respectively president and treasurer of the corporation. Also present was Roy Tiery, who owns the property in partnership with his wife.

The examining team found that the applicant had no specific exploratory plan. The proposal of the application comprised, (1) 235 feet of drifting and 43 feet of additional sinking in one shaft and (2) rehabilitation of 200 feet of a second shaft and 200 feet of drifting at an estimated total cost of $23,560.00. The explorations, by above work items, were for manganese and zinc, respectively. During the investigations, the applicant requested that proposed work be confined to exploration of the manganese deposit by a small amount of drifting from the bottom of a 37-foot deep shaft.

LOCATION AND ACCESSIBILITY

The Black Colt and Blackie claims are situated about $1\frac{1}{2}$ air-miles north of Kingston, New Mexico in section 12, T. 16 S., R. 9 W., Gila National Forest, Sierra County, N. Mex. (fig. 1). Kingston is a settlement on State Highway 180 at about 48 road miles east of Silver City, N. Mex.

The claims may be reached from Kingston by traveling northerly for 2.2 miles on a graded dirt road to a junction from which the mine workings of the Black Colt claim may be seen. The workings are a few hundred yards from the junction via the road that branches to the right. Deposits of the Blackie No. 1 claim are located alongside the other branch road at about $\frac{1}{2}$ mile westerly from the junction.

TOPOGRAPHY, PHYSICAL FEATURES AND CLIMATE

The Black Colt and Blackie claims are situated at an average altitude of about 7,100 feet on the southeastern slope of the Black Range. The topography of the claims is moderately rugged.

Vegetation mainly consists of forage grasses and a medium growth of juniper, oak and pine trees.

Summers are warm and winters are not severe. Extreme temperatures probably are near 10 and 100 degrees above zero.

Annual precipitation of about 15 inches mainly occurs as heavy summer rainfalls and light rain and snowfalls during the winter.

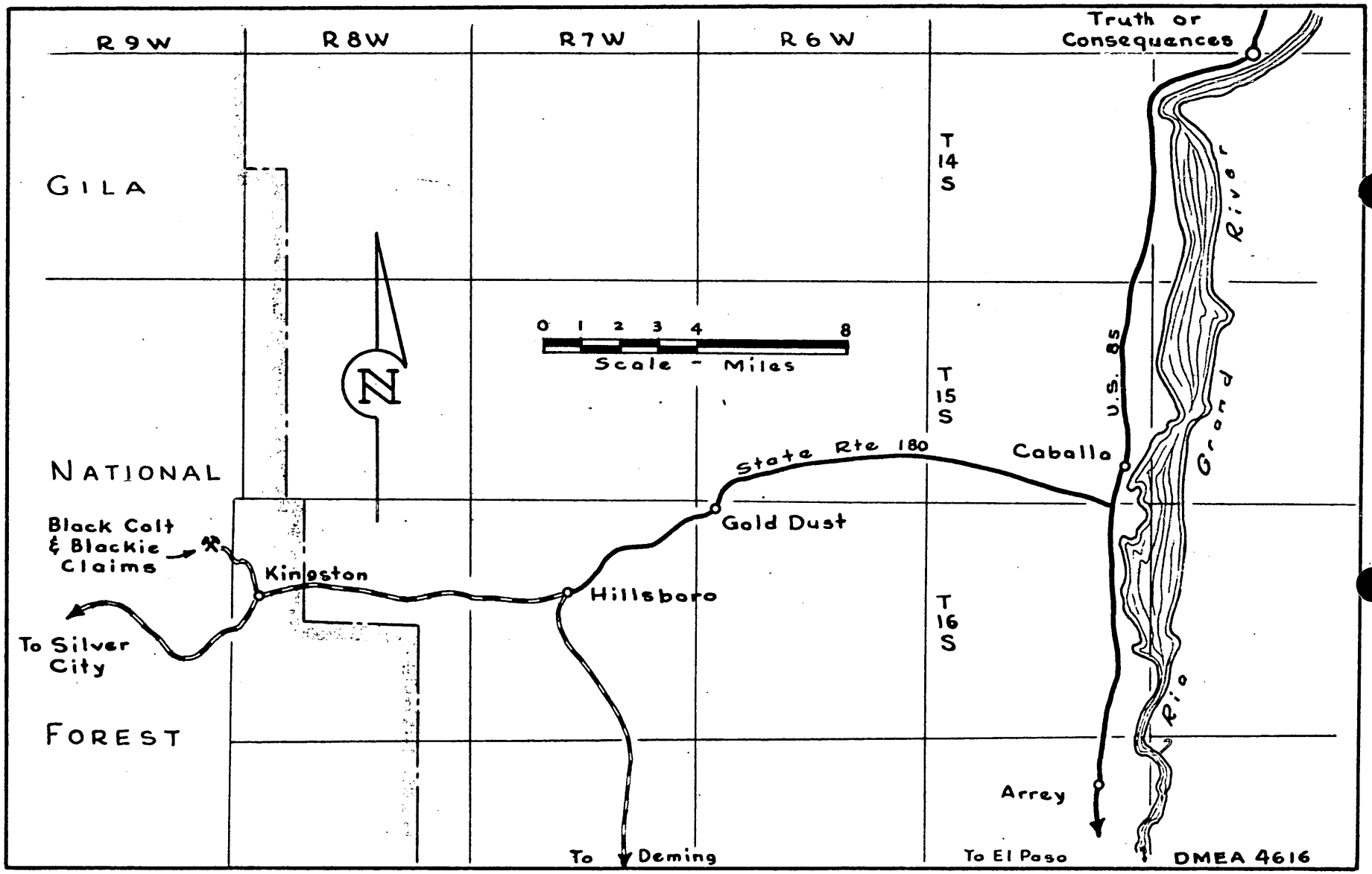

FIG-1- LOCATION MAP, STANDARD MINERALS INC.
SIERRA COUNTY, NEW MEXICO

HISTORY AND PRODUCTION

The deposits of the Black Colt and Blackie claims and nearby properties in the Kingston mining district were first worked for silver between 1880 and 1890. Since then little work is believed to have been done until Haile Mines operated on the Black Colt and Blackie claims from August 1952 to January 1953. Production during this period, probably from small open pits and small near-surface stopes, totalled 753 tons of ore averaging 38 percent manganese. Two shallow shafts also were sunk on the Black Colt claims. They reportedly were abandoned before proposed drifting from the shafts to ore zones was begun.

The next and last period of operation was during late 1955 when Roy Tirey mined and shipped 12 tons of ore containing 37 percent manganese from an open pit on the Black Colt claim. This ore and the ore produced by Haile mines was shipped to the G. S. A. depot at Deming, New Mexico.

EXTENT AND OWNERSHIP OF THE PROPERTY

The applicants' property comprises a group of 4 lode mining claims, the patented Black Colt and the unpatented Blackies Nos. 1, 2 and 3.

The group of 4 claims are owned by Roy Tirey and his wife Margaret Ann Tirey. It is held by the Standard Minerals, Inc., the applicant, under an Amended Lease and Option Agreement of November 2, 1956 with the owners. Copies of the Agreememt were obtained by the examining team and have been made a part of the application.

The address of the Standard Minerals, Inc., a Nevada corporation, is P. O. Box 1002, Santa Barbara, California. The officers, all of whom reside in that city, are:

Lloyd H. Moss, president,	322 E. Micheltorena St.
Earle R. Rittenhouse, secretary,	1843 El Camino de la Luz
Frank W. Cole, Treasurer,	902 Bath St.

PRESENT STATUS

Mine workings on the Black Colt claim comprise 3 shafts, an open cut and several shallow pits and trenches. One of the shafts was sunk to a depth of about 160 feet probably during the earliest period of operations. The 2 other shafts, those completed in 1952, are reportedly 37 and 50 feet deep. A sink hole marks the location of the deep shaft and indicates that the shaft is filled with debris. The other shafts are not readily accessible. The 37-foot deep shaft is equipped with a headframe, ore bucket, hoisting cable, and a single drum, gasoline-engine powered hoist. There is no other mining equipment on either the Black Colt or Blackie claims. Buildings on the claims are confined to 2 small structures, a hoist house and storage shed.

Mine workings on the Blackie claims consist of several shallow trenches and pits and a few small near-surface stopes.

GEOLOGY

The regional geology, briefly summarized from Gordon[1/], shows Precambrian granites, gneisses, and schists forming the core or axis of the essentially north-south trending Black Range west of the Kingston mining district. Paleozoic sediments consisting of quartzites, shales and limestones overlie the Precambrian rocks and dip away on both sides. Volcanic rocks lie upon the eroded surfaces or intrude the sedimentary formations. Fracturing and folding in the sedimentary rocks have controlled the deposition of ore bodies in the region.

In the area of the Black Colt and Blackie claims (Fig. 2) Silurian limestone, overlain by shale of Devonian age, was intruded by a sill-like mass of monzonite porphyry of probable Tertiary age. Dips of the sediments in the area, ranging from about 10° to 35°, are to the southeast. Major fractures cutting the sediments appear to trend northwest and are intersected by minor fractures trending east and northeast. Local arching and folding of the sediments probably due to the intrusions is evident in the area, and these arched and folded areas contain the ore deposits of silver, lead, zinc and manganese.

1/ Lindgren, W., Graton, L. C., and Gordon, C. H., The ore deposits of New Mexico: U. S. Geol. Survey Prof. Paper 68, 1910, p. 268.

The ore deposits are of the replacement type either as vein-like deposits in the fractures or as beds and pockets on the arches, or limbs of arches, in the limestone. Fracture control of ore deposition is indicated since the deposits commonly occur in the limestone at the intersections of the northwest and northeast fractures. The northwest fractures commonly carry ore but the east and northeast sets of fractures are usually barren[2/]. Very little, if any, displacement of the ore deposits can be noted underground. Ore bodies are irregular in size and shape, and those connecting laterally are known as "pipes"[3/]. There is no uniformity in the distribution of the deposits and the deposits may be separated by barren, or nearly barren, ground. Harley[4/] noted that the beds dipping toward the igneous intrusions were more mineralized than those dipping away from the intrusions. Although sulphides can be found in places near the surface, the best ore values, regardless of mineral, are in the shallow oxidized zones. Supergene enrichment in the upper oxidized zone was responsible for the concentration of higher grade manganese ores and as depth is reached the ore is low-grade and entirely of primary minerals. Large deposits do not appear to be characteristic of the district.

2/ Jones, E. L., Jr., Deposits of manganese ore in New Mexico: U. S. Geol. Survey Bull. 710, 1920, pp. 50-51.

3/ Gordon, C. H., op. cit., p. 270.

4/ Harley, G. T., The geology and ore deposits of Sierra County, New Mexico: New Mexico Bur. of Mines and Mineral Resources Bull. 10, 1934, p. 49.

The origin of the deposits is attributed by Gordon[5] to ascending hot solutions related to the intrusives. Oxidation has brought the deposits to their present condition, and Lasky and Wootton[6] state that the oxidation of the manganese minerals in the Kingston district has formed impure bodies of manganese oxides. Locally there exist small high-grade pockets of manganese oxides at the surface, or near the surface.

Primary hypogene manganese minerals probably were manganiferous calcite and rhodocrosite[7]. Manganite, psilomelane, pyrolusite and wad are the ore minerals formed in the oxidized zone by supergene enrichment. Accessory minerals are silver, lead, and zinc. The common gangue minerals are rhodocrosite, quartz, calcite and clay. Fresh surfaces of the rhodocrosite soon weather black upon exposure to the air.

DESCRIPTION OF WORKINGS

Although none of the shafts on the Black Colt claim were accessible, the examining team was able to study the deposits by going underground in the Canfield Tunnel (Figs. 2 and 4) on the Comstock claim to the north. The tunnel was driven in limestone having dips that ranged from 9° to 35° southeast. To the southeast in the lower

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5/ Gordon, C. H., op. cit., p. 270.

6/ Lasky, S. G., and Wootton, T. P., The Metal Resources of New Mexico and their economic features: New Mexico Bur.of Mines and Mineral Resources Bull. 7, 1933, p. 104.

7/ Harley, G. T., op. cit., p. 102.

parts of the mine the dips appear to steepen. Impervious shale overlies the limestone but is separated from the ore horizon by a barren layer of limestone, as shown on Section A-A', Figure 3. Both northwest and northeast trending fractures cut the limestone. The zone of manganese mineralization extends for about 200 to 250 feet along the dip of the limestone beds before eventually passing into primary minerals consisting mainly of rhodocrosite and finely-disseminated sulphides. An impression is gained from an inspection of the deposits that a great deal of the material a certain distance from the surface is impure and low-grade, or a mixture of carbonate rock and oxides. The shape and size of this deposit is probably represented roughly by the outline of the workings (Fig. 2). The lower southeast end of the Canfield Tunnel approaches the northeast corner of the Black Colt claim, and it is probable that the geologic conditions and type of ore deposit found in the Canfield Tunnel on the Comstock claim could be considered applicable to the Black Colt Claim. Jones[8/] reported that nowhere in the Canfield Tunnel on the Comstock claim were there workable deposits of manganese oxides. A Bureau of Mines report[9/] states that the Canfield Tunnel samples (Figure 4) were taken in 1950 and an estimated 6,000 tons of plus 20% indicated manganese ore were present. Three check samples, whose approximate locations are shown on Figure 4, were taken by the examining team in the Canfield

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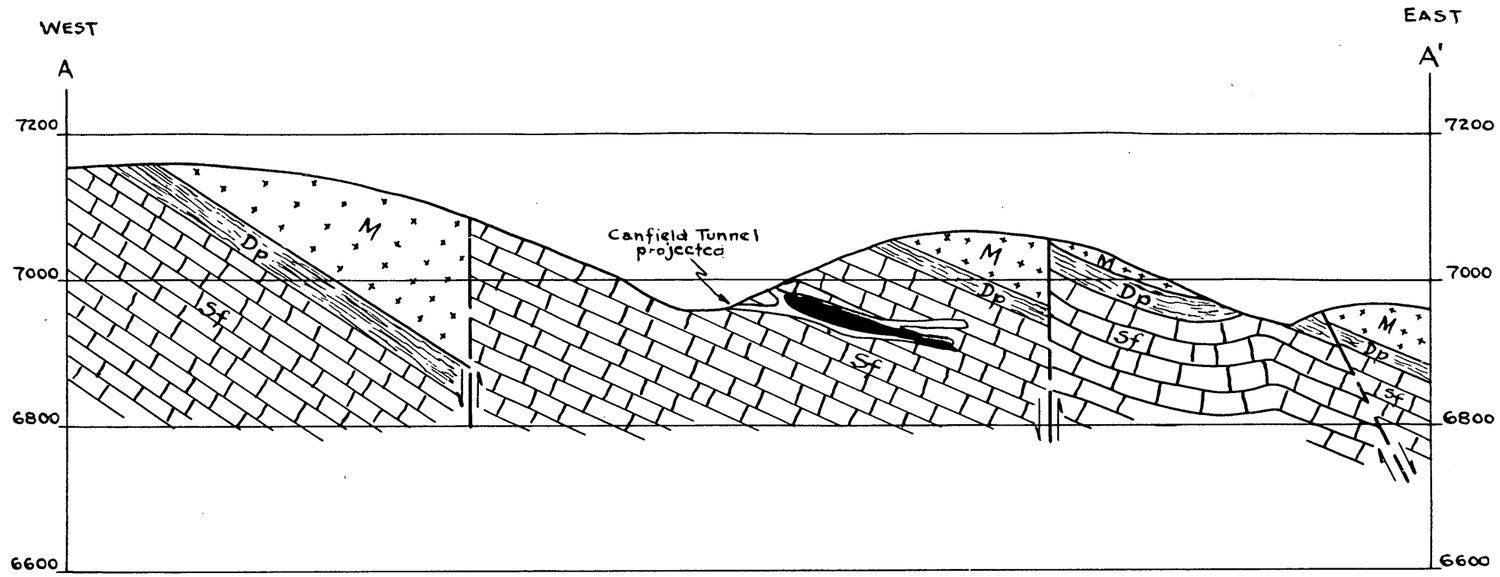
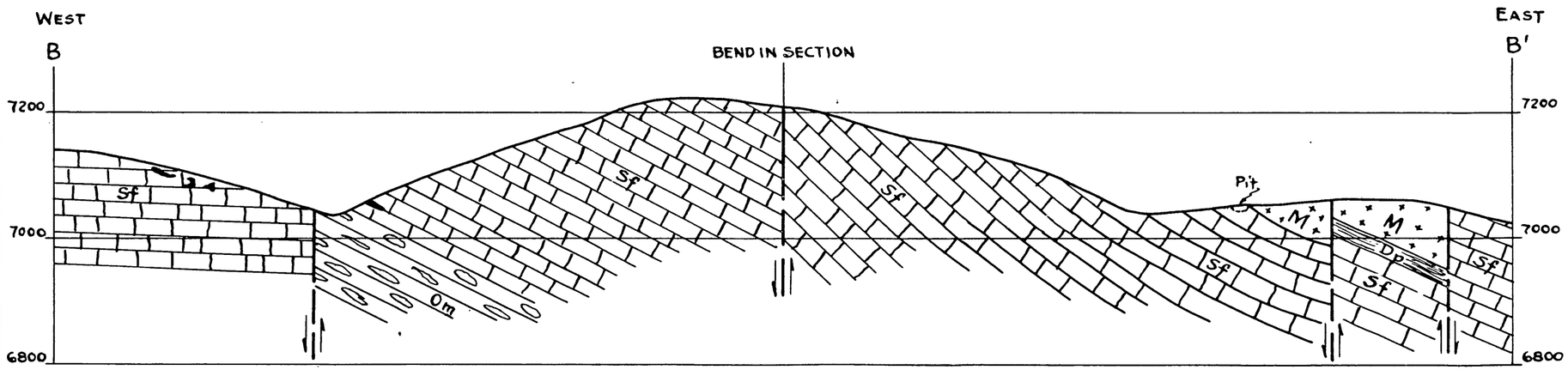
8/ Jones, E. L., Jr., op. cit., p. 51.

9/ Soulé, J. H., U. S. Bur. of Mines, Supp. Report No. 54, December 1950.



SECTION A-A' LOOKING NORTH



SECTION B-B' LOOKING NORTH

EXPLANATION

- Dp — PERCHA SHALE (DEVONIAN)
- Sf — FUSSELMAN LIMESTONE (SILURIAN)
- Om — MONTOYA LIMESTONE (ORDOVICIAN)
- M — MONZONITE PORPHYRY (TERTIARY)
- FAULT SHOWING DIRECTION OF MOVEMENT
- CONTACT
- MANGANESE MINERALIZATION
- MINE WORKINGS

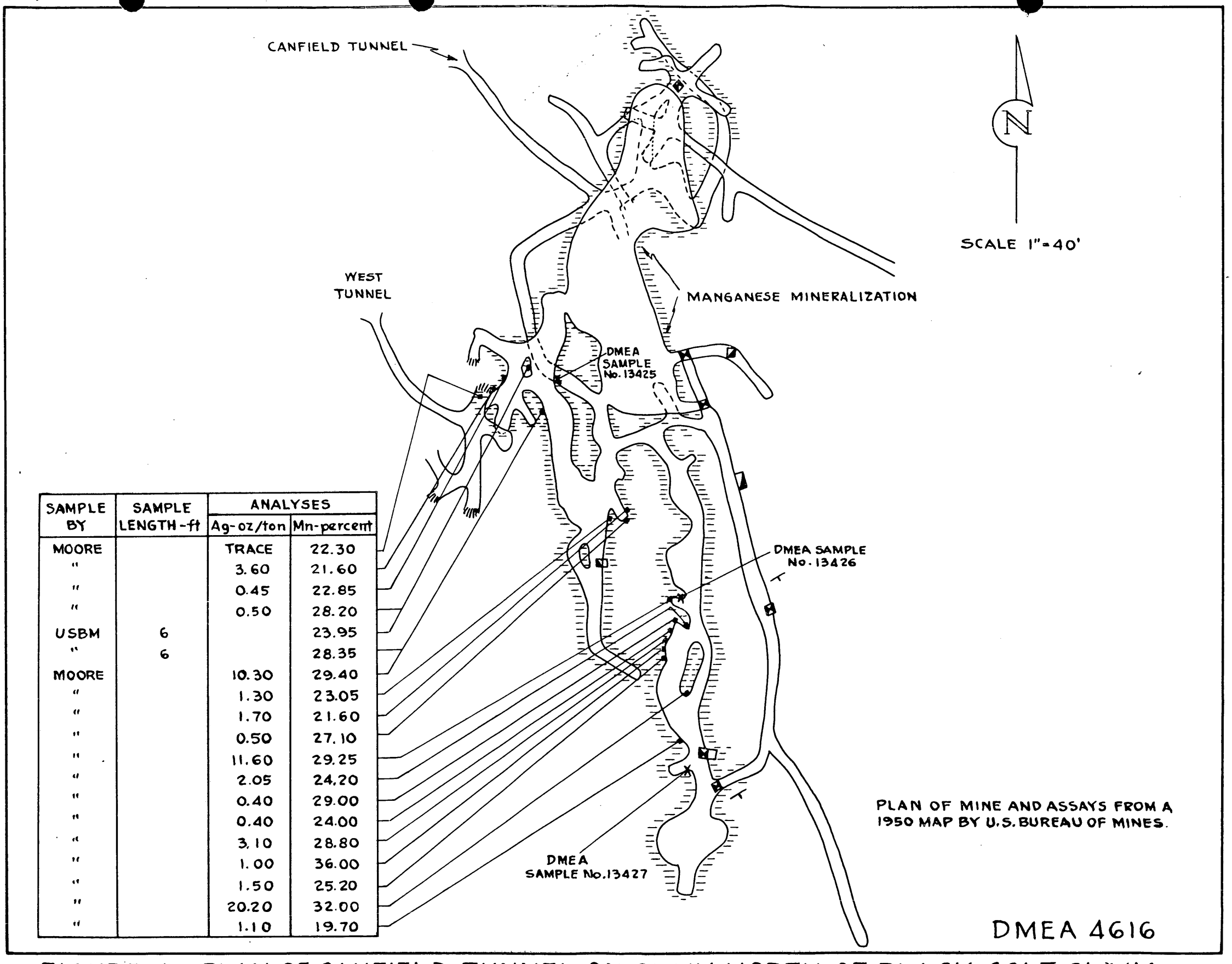
ALL DIPS APPROXIMATE

HORIZONTAL & VERTICAL SCALES 1" = 200'.

AFTER SECTIONS BY U. S. BUREAU OF MINES (1950).

DMEA 4616

FIGURE 3.- GEOLOGIC SECTIONS, BLACK COLT AND BLACKIE CLAIMS, STANDARD MINERALS, INC., SIERRA CO., NEW MEXICO.



SAMPLE BY	SAMPLE LENGTH-ft	ANALYSES	
		Ag-oz/ton	Mn-percent
MOORE		TRACE	22.30
"		3.60	21.60
"		0.45	22.85
"		0.50	28.20
USBM	6		23.95
"	6		28.35
MOORE		10.30	29.40
"		1.30	23.05
"		1.70	21.60
"		0.50	27.10
"		11.60	29.25
"		2.05	24.20
"		0.40	29.00
"		0.40	24.00
"		3.10	28.80
"		1.00	36.00
"		1.50	25.20
"		20.20	32.00
"		1.10	19.70

FIGURE 4.-PLAN OF CANFIELD TUNNEL ON CLAIM NORTH OF BLACK COLT CLAIM, STANDARD MINERALS, INC., SIERRA COUNTY, NEW MEXICO.

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Tunnel and assayed by the Bureau of Mines, Tucson, Arizona. Results of the assays are shown below:

Sample No.	Percent Mn	Pb	Zn	Cu	Description
13425	18.55	0.35	0.4	0.02	5½ - 6 ft. vertical chip sample across bedding in oxide zone.
13426	13.95	0.14	0.4	0.008	5- 6 ft. vertical chip sample across bedding in oxide zone.
13427	17.75	0.32	0.9	0.03	5 ft. vertical chip sample in primary zone.

These samples are lower in manganese than those found in the earlier 1950 sampling of the mine, and they possibly indicate that there is little difference in manganese content between primary carbonate rock and oxidized rock, or that the rock sampled, despite appearances, may have been a mixture of unoxidized carbonate rock and oxidized rock.

About 753 long tons of manganese oxides were mined and shipped from a shallow pit (Fig. 2) on the Black Colt claim. This deposit was a purely surficial one in which replaced limestone was oxidized and enriched to a small pocket of manganese oxides. The small pocket of oxides occurred on the down-dipping limb of limestone that terminated against monzonite porphyry on the south (Section B-B', fig. 3).

CONCLUSIONS AND RECOMMENDATION

It is concluded that the Black Colt and Blackie claim deposits of manganese oxides in the fractures and in the limestone beds are, in general, irregular in habit, small in size, of shallow depth, and overall low in grade. Local high-grade pockets of manganese oxides occur at the surface, or near the surface, in the fractures and in the limestone beds, but it appears improbable that significant tonnages of workable manganese ore could be developed on the properties. It is therefore recommended that the application for government assistance in exploration be denied.

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
3/12	Martin	400
3/12	Johnson	110
"	Whitenday	100
3/13	C	220
/		400

MAR 12 1957

Mr. F. W. Cole, Vice President
Standard Minerals, Inc.
Hillsboro, New Mexico

Re: Docket No. DMEA 4616 - Manganese
Black Colt and Blackie claims
Sierra County, New Mexico

Dear Mr. Cole:

Attached are six forms for Consent to Lien and Subordination Agreement, as requested in your letter of March 8, 1957.

Your same letter was addressed to the attention of Mr. E. N. Harshman, whose headquarters is in Denver, Colorado, but mailed to our office here in Washington. Either address is correct, but you may find that, because of the relative mailing time, your future correspondence receives an earlier reply if sent directly to Denver.

Sincerely yours,

W. S. Martin

W. S. Martin, Chief
Iron and Ferro-Alloys Division

Enclosures

WSMARTIN:foc
3/12/57
cc to: Docket
Code 400
Admr. Read. File
FT. REG. III

8623

120 S. 3rd St.
Las Vegas, Nevada

P.O. Box 412
Oatman, Arizona

Hillsboro, New Mexico

CAPITALIZED OF 2,500,000
NON-ASSESSABLE PAR VALUE $1.00 PER SHARE

STANDARD MINERALS, INC.

MINING AND EXPLORATION AGRICULTURE - MINERALS - ETC.
GOLD - SILVER - LEAD - ZINC - MANGANESE - ETC.

MAIN OFFICE
P.O. Box 1588 Phone 5-4051
Santa Barbara, California

Directors
Lloyd H. Moss, Pres.
Earle Rittenhouse, Sec'y.
Frank W. Cole, Treas., Vice Pres.

OFFICIAL FILE COPY
D M E A
RECEIVED MAR 11 1957

DATE	INITIALS	CODE
3/11	C	220
3/12	WSM	400

March 8th, 1957

United States Department of the Interior,
Defense Minerals Exploration Administration
Washington, 25 D.C.

Re; Docket No. 4616 DMEA
Black Colt & Blackie Claims
Sierra County, N. M.

Att. Mr. E. N. Harshman;

Dear Mr. Harshman;

Will you kindly mail six copies of the Subordination Agreement to Standard Minerals, Inc. Hillsboro, New Mexico.

Yours very truly.

STANDARD MINERALS, INC.

F. W. Cole

F. W. Cole, Vice President.

MF 200

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

REFERENCE SLIP

DATE 3/11

REFERRED TO:

1. 400
2.
3.
4.

FOR:

---------- Action	---------- Recommendation
---------- Approval	---------- Record of ----------
---------- Comment	---------- Referring to ----------
---------- Conference	---------- Reply for signature of ----------
---------- Consideration	---------- Rewriting
---------- Filing	---------- Signature
---------- Instructions	---------- Suggestions
---------- Investigation	---------- Your information
---------- Initials	
---------- Mailing	
---------- Previous correspondence	

REMARKS: I see this is add. to Starkman but thought you would send the 205.

Check (X) before the items needing attention.

C
Initials of sender.

GPO 16—63815-1

Las Vegas, Nevada
P.O. Box 412
Oatman, Arizona
Hillsboro, New Mexico

CAPITALIZED OF 2,500,000
NON-ASSESSABLE PAR VALUE $1.00 PER SHARE

STANDARD MINERALS, INC.

MINING AND EXPLORATION AGRICULTURE-MINERALS-ETC.
GOLD-SILVER-LEAD-ZINC-MANGANESE-ETC.

MAIN OFFICE
P.O. Box 1588 Phone 5-4051
Santa Barbara, California

Lloyd H. Moss, Pres.
Earle Rittenhouse, Sec'y.
Frank W. Cole, Treas., Vice Pres.

OFFICIAL FILE COPY
DMEA
RECEIVED MAR 14 1957

DATE	INITIALS	CODE
3/14	C	220
3/15	WSM	400

DMEA
DEPARTMENT OF THE INTERIOR
MAR 8 1957
REGION III
DENVER, COLORADO

March 7th, 1957

United States Department of the Interior,
Defense Minerals Exploration Administration,
Washington 25 D. C.

Re; Docket DMEA 4616
Standard Minerals, Inc.
Sierra County, N. M.
Black Colt & Blackie Claims.

Att. Mr. E. N. Harshman:

Gentlemen;

Your letter of February 26th, 1957, requesting four copies of the Lease and Option to Purchase the above claims to be attached to our application 3(c) for a DMEA loan, has been referred to the writer who prepared the Lease and Option to Purchase.

Please be advised that the four additional copies are being prepared and should be executed by all parties concerned by March 12th, and forwarded to your office.

Yours very truly.

F. W. Cole, Vice President
Standard Minerals, Inc.

Referred to
Comm Opr Comm (2)
King
Harshman
3/8/57

February 27, 1957

Memorandum

To: W. R. Storms

From: Superintendent, Denver Experiment Station, Reg. III

Subject: Docket DMEA 4616 (Manganese) Standard Minerals, Inc., (Black Colt and Blackie claims) Sierra County, New Mexico

Enclosed please find the application for Standard Minerals, Inc., Docket DMEA 4616, in the amount of $24,034.00.

A field examination and suitable report are required. The completed report should be forwarded directly to the Executive Officer with a copy of the memorandum of transmittal to this office.

W. H. KING

W. H. King

Enclosure

cc: W. M. Traver (3)
E. W. Marshman
W. L. Emerick

3-6 C
3/7 WSM

220
400

DMEA
DEPARTMENT OF THE INTERIOR
FEB 27 1957
REGION III
DENVER, COLORADO

See WO(2)

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

224 New Customhouse
Denver 2, Colorado

February 26, 1957

OFFICIAL FILE COPY
DMEA
RECEIVED FEB 28 1957

DATE	INITIALS	CODE
3/1	C	220
3/1	WSM	400

Memorandum

To: Chairman, Operating Committee, DMEA

From: DMEA Field Team, Region III

Subject: Docket No. DMEA 4616 (Manganese) Standard Minerals, Inc. (Black Colt and Blackie claims) Sierra County New Mexico

Enclosed is the original of the subject application which was retained in Region III files. the was not enclosed

In response to your letter of February 21, we are today requesting the applicant to submit the Lease and Option referred to in 3(c) of the application.

DMEA Field Team, Region III

E. N. Harshman

By E. N. Harshman
Acting Executive Director

Enclosure

OFFICIAL FILE COPY
DMEA
RECEIVED FEB 28 1957

DATE	INITIALS	CODE
3/1	WSM	400

224 New Customhouse
Denver 2, Colorado

February 26, 1957

Mr. Lloyd H. Moss, President
Standard Minerals, Inc.
322 E. Micheltorena Street
Santa Barbara, California

Re: Docket DMEA 4616 (Manganese-Lead-Zinc)
Standard Mines, Inc., (Black Colt and
Blackie claims) Sierra County, New Mexico

Dear Mr. Moss:

We note in 3(c) of the above-subject application that you have a Lease and Option to purchase the land proposed for subordination under a DMEA contract. Documents, however, were not attached to any of the applications submitted.

Please submit four copies of this instrument at once so that we may resume the processing of your application.

DMEA Field Team, Region III

Original signed by
E. N. HARSHMAN

By E. N. Harshman
Acting Executive Director

MHM:eh
cc: Chmn. Op. Comm. (2)
King
Harshman
Docket 4616
Chron.

OFFICIAL FILE COPY
DMEA
RECEIVED MAR 28 1957

DATE	INITIALS	CODE
3/1	WSM	400

224 New Customhouse
Denver 2, Colorado

February 26, 1957

Memorandum

To: W. L. Emerick) w/c Appl., Chmn. Letter &
W. H. King) Review Memoranda

From: DMEA Field Team, Region III

Subject: Docket No. DMEA 4616 (Manganese) Standard Minerals, Inc. (Black Colt and Blackie claims) Sierra County, New Mexico

Enclosed are a copy of the subject application; its transmittal to the field by the Chairman of the Operating Committee, DMEA, and memoranda of review by N. E. Nelson, USGS, and G. L. DeHaff, Jr. USBM. A field examination and a suitable covering report are requested.

Please return the enclosed Bureau of Mines' copy of the subject application with your Report of Examination.

Should the field examiners' findings be favorable, you are requested to submit twelve additional copies of all figures used in the preparation of the Report of Examination.

DMEA Field Team, Region III

Original signed by
E. N. HARSHMAN

By E. N. Harshman
Acting Executive Director

Enclosures
MHM:eh
cc: Sec. Op. Comm. (2)
Harshman
Docket 4616
Chron.

120 S. 3rd St.
Las Vegas, Nevada

P.O. Box 412
Oatman, Arizona

Hillsboro, New Mexico

CAPITALIZED OF 2,500,000
NON-ASSESSABLE PAR VALUE $1.00 PER SHARE

STANDARD MINERALS, INC.

MINING AND EXPLORATION AGRICULTURE-MINERALS-ETC.
GOLD-SILVER-LEAD-ZINC-MANGANESE-ETC.

MAIN OFFICE
P.O. Box 1588 Phone 5-4051
Santa Barbara, California

Directors
Lloyd H. Moss, Pres.
Earle Rittenhouse, Sec'y.
Frank W. Cole, Treas., Vice Pres.

February 25th, 1957

RE: Docket No. DMEA 4616
Manganese, Lead, Zinc
Black Colt and Blackie
Claims, Sierra County, N.M.

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

OFFICIAL FILE COPY
D.M.E.A.
RECEIVED FEB 27 1957

DATE	INITIALS	CODE
2-27	C	220
2-27	WSM	400

Attention; Frank E. Johnson,
Acting Administrator.

Dear Mr. Johnson;

We are in receipt of your letter of February 21st, requesting that we contact Mr. W. M. Traver, Executive Officer, DMEA Field Team, Region III, 224 New Custom House, Denver, 2- Colorado, relative to a field examination of the property.

We will be pleased to cooperate in any manner possible with the Field Team, and/or Mr. W. M. Traver, and we enclose a copy of our letter written to him as of this date.

Yours very truly,

STANDARD MINERALS, INC.

F.W.Cole, Vice Pres.

Encl. 1.

COPY

OFFICIAL FILE COPY
DMEA
RECEIVED FEB 27 1957

DATE	INITIALS	CODE
2/27	WSM	400

February, 25th, 1957,

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

Re; Docket No. DMEA-4616 Manganese, Lead, Zinc Black Colt and Blackie Claims, Sierra County, N. M.

Dear Mr. Traver:

We are in receipt of a letter from the United States Department of the Interior, Defense Minerals Exploration Administration, Washington, D. C. advising that the above-docketed application for exploration assistance for manganese, lead and zinc ores has been referred to you at Denver, Colorado, and requesting that we furnish you with any assistance to the members of the Field Team that is possible.

We are very pleased to comply with this request and if you will advise us the anticipated date of the arrival of the Field Team at Hillsboro, New Mexico, and their number, we will have our representatives on the ground to meet them and show them over the mining claims.

Hillsboro, N. M. is only 12½ miles from the claims and has a hotel known as the Hatcher Hotel, where rooms are available at reasonable rates and home cooked meals are also available.

Please advise what will be required in the way of transportation, if any, and other services that we may be able to render.

It is suggested that reservations be made in advance for accomodations at the Hatcher Hotel.

Yours very truly,

STANDARD MINERALS, INC.

P.O.Box 1002.

Vice -Pres.

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
2/18	Holt	400
2/18	Martin	400
2/20	Selfridge	130
"	Johnson	110
		~~100~~
		220

FEB 21 1957

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

Re: Docket No. DMEA 4616 - Manganese,
Lead, Zinc
Standard Minerals, Inc.
Black Colt and Blackie claims
Sierra County, New Mexico

Dear Mr. Traver:

The above-docketed application for exploration assistance is being referred to your office for a field examination of the property.

Copies of memoranda dated January 30 and February 4, 1957, by M. B. Nelson, Geological Survey, and G. L. DeHuff, Jr., Bureau of Mines, respectively, relating to the application, are enclosed. Also enclosed are two extra copies of the application for the use of the Field Team.

As requested in the application (See bottom of Page 7), in writing to the applicant we are addressing our letter to Mr. Earl D. Rittenhouse, with copy to Mr. Frank W. Cole. Advices regarding your field examination should be similarly addressed, with copies to Mr. Cole.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

APPROVED:

Frank D. Lamb
Member, Bureau of Mines

Thor H. Kiilsgaard
Member, Geological Survey

SPHolt:am 2-18-57
cc to: Docket
Code 400
Admr. Read. File
Oper. Comm.
FT REG III
Messrs. G. DeHuff, Jr., USBM
T. Kiilsgaard, USGS

Enclosures

P. S. Please send us the application you kept if it is the original. We also need the Lease and Option to purchase mentioned in the application.

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
2/18	Holt	400
2/18	Martin	400
2/20	Selfridge	130
"	Johnson	110
		~~100~~
2/21	C	220

400

Lamb
Kiilsgaard

FEB 21 1957

Standard Minerals, Inc.
Mr. Earl D. Rittenhouse, Secretary
1843 Camino de la Luz
Santa Barbara, California

Re: Docket No. DMEA 4616 - Manganese, Lead, Zinc
Black Colt and Blackie claims
Sierra County, New Mexico

Gentlemen:

The above-docketed application for exploration assistance for manganese, lead, and zinc ores has been reviewed by the Iron and Ferro-Alloys Division of the Defense Minerals Exploration Administration and referred to Mr. W. M. Graver, Executive Officer, DMEA Field Team, Region III, 224 New Customhouse, Denver 2, Colorado, for a field examination of the property.

Any assistance that you can give the members of the Field Team will be appreciated.

Sincerely yours,

Frank E. Johnson

ACTING Administrator

SPHolt:am 2-18-57

Copy to: Mr. Frank W. Cole, Vice President
Standard Minerals, Inc.
P. O. Box 1002
Santa Barbara, California

cc to: Docket
Code 400
Admr. Read. File
Oper. Comm.
FT REG III
Messrs. G. DeHuff, Jr., USBM
T. Kiilsgaard, USGS

8623

OFFICIAL FILE COPY DMEA RECEIVED FEB 11 1957		
DATE	INITIALS	CODE
2/12	C	220
2/12	WSM	400

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

Date February 4, 1957

DMEA Docket No. 4616
DMEA Contract No.
Commodity Mn - Pb - Zn
Name of applicant Standard Minerals, Inc.
Name of property Black Colt & Blackie group
Location of property Sierra Co., N. Mex.
Estimated cost of project $24,034

Memorandum

To: W. S. Martin, DMEA

From: G. L. DeHuff, Jr. Commodity Specialist, Branch of Ferrous Metals and Ferroalloys

Subject: Review of Application
(Application, Field Team Report, etc.)

1. Date of subject document: 1/19/57. 2. Date received by reviewer: 1/28/57.

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

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

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

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

7. Explain items marked yes above: Bureau of Mines Region III has a current program examining manganese properties in New Mexico. It is very possible that this property was examined by the Bureau in 1950, together with others in the Kingston Mining District. Applicant's description of location is not complete.

Bureau of Mines records show following shipments to Deming GSA depot from Black Colt claim, Sierra Co., T16S. R 8 W:

1952	Haile Mines	753 LDT	38% Mn
1955	Roy Tirey	12	37
	Total	765	

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

Costs do not seem very realistic.
No evidence of manganese mineralization at site of the proposed work.

G L DeHuff Jr

IN REPLY REFER TO:

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

OFFICIAL FILE COPY
DMEA
RECEIVED FEB 1 1957

DATE	INITIALS	CODE
2/1	C	220
2/1	WSM	400
Memorandum		

January 30, 1957

Re: DMEA 4616
Standard Minerals, Inc.
Black Colt Group
Sierra Co. New Mexico
$24,034 - Manganese-lead-zinc

To: W. S. Martin, Defense Minerals Exploration Administration

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

Subject: Review of application.

The applicant requests assistance in exploring for manganese on claims from one of which shipments, totalling 753.33 long tons assaying 38.01% Mn., were made by Haile Mines prior to the closing of the Deming Depot.

The ore shipped came from a pit. A shaft was sunk 35 feet. No information is given as to why the shaft was sunk or the findings, but the applicant proposes driving 70 feet at the present bottom. Also the shaft would be deepened to 78 feet and 200 feet of lateral work would be driven at the new bottom. No definite target is named for the work except to explore for high grade manganese.

It is also proposed that an existing shaft 200 feet deep be rehabilitated so exploration for zinc ore can be undertaken. Again no definite target is named and no nearby surface showing of zinc minerals is noted.

It may be assumed the shaft was once the outlet of a zinc mine, but such is not said.

Referral of the application to the Field Team is recommended.

N. E. Nelson

N. E. Nelson

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

January 28, 1957

Standard Minerals, Inc.
P. O. Box 1002
Santa Barbara, California

Subject: DMEA-4616

Gentlemen

Your application for exploration assistance, dated January 19, 1957 submitted to our office at Denver, has been assigned Docket Number DMEA-4616 and referred to the Iron and Ferro-Alloys Division in the Washington office. Kindly identify all future correspondence relating to your application by this Docket Number.

Sincerely yours,

(Sgd) Allen S. Dakan

Allen S. Dakan, Director
Operations Control and
Statistics Division

Copy to:

Region III. Denver 2, Colorado

Code 400

6416

Dip of the limestone was about 30° south. Dimensions of the wedge-shaped pit were roughly 30 by 35 feet and about 10 feet in depth adjacent to the sill. The limestone on the east and west sides of the pit were barren or nearly barren of manganese oxides, and ore possibilities of the pit had been exhausted.

The examining team visited a second location of the applicants on the Blackie No. 1 claim (Fig. 2) about ½ mile west of the Black Colt shaft area. Here the manganese oxides occurred in limestone as small, vein-like and enriched pockets in vertical to steeply dipping northwest trending fractures at the surface,or near the surface. Width of the oxidized zone along the fractures varied from 2 to 2½ feet in the widest part but appeared to narrow or pinch down in either direction along the strike. Downward extension of the manganese oxides along the fractures seemed to be limited to the present near surface depths of excavation or mining. Because of their small size and irregular occurrence it would probably be difficult to develop any significant tonnage of ore from these deposits.

ORE RESERVES

A 1950 Bureau of Mines report 10/ estimated an inferred tonnage of 50,000 tons of plus 20 percent manganese ore for the whole Kingston district by assuming some continuity between various deposits.

10/ Soulé , J. H., op. cit.

Lasky and Wootton[11] estimated that many thousand tons of low-grade manganese ore exist in the district. The Bureau of Mines report also estimated about 6,000 tons of indicated ore for the Canfield Tunnel on the Comstock claim to the north of the Black Colt claim. In the absence of accessible underground workings on the Black Colt claim no attempt was made to estimate reserves on the claim, but because of the irregular habit and small size of the individual deposits in the district and on adjoining claims, it does not appear likely that reserves on the Black Colt claim would be any greater than the 6,000 tons estimated for the Comstock claim. A small, surficial pit on the claim yielded about 753 tons of ore but can now be considered exhausted. The applicants' deposits in the fractures on the Blackie No. 1 claim are too limited in dimensions and irregular in occurrence to expect a significant tonnage of ore from them. The field examiners concur that there is in the aggregate considerable tonnage of low-grade manganese oxides at shallow depths in irregular and disconnected deposits. Locally, there exist many small high-grade pockets of manganese oxides at the surface and near the surface, containing a few tons to several hundred tons of ore. In general, it is likely that selective mining methods would be necessary on most of the district manganese deposits to obtain ore of workable grade.

11/ Lasky, S. G. and Wootton, T. P., op. cit., p. 104.

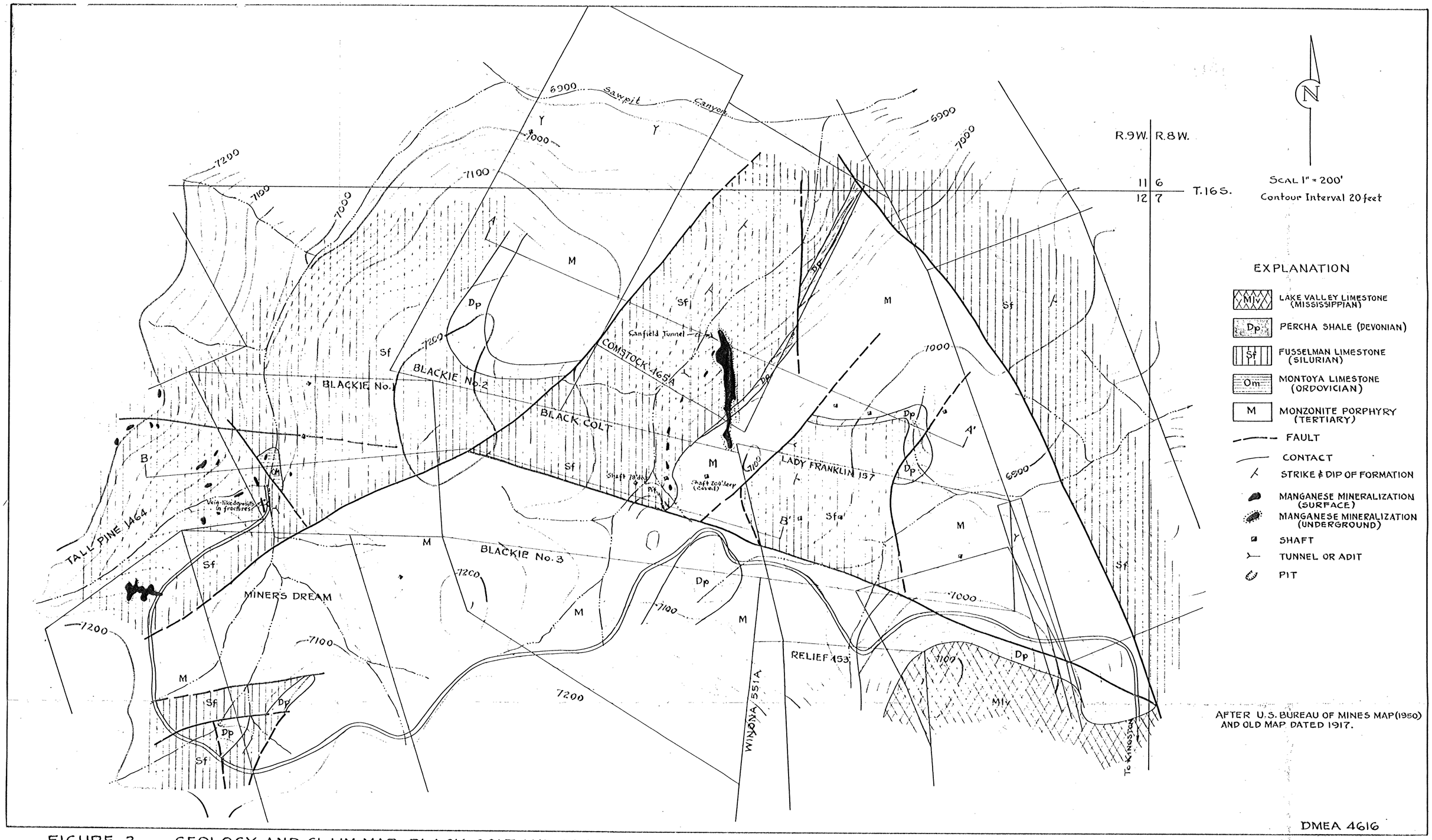
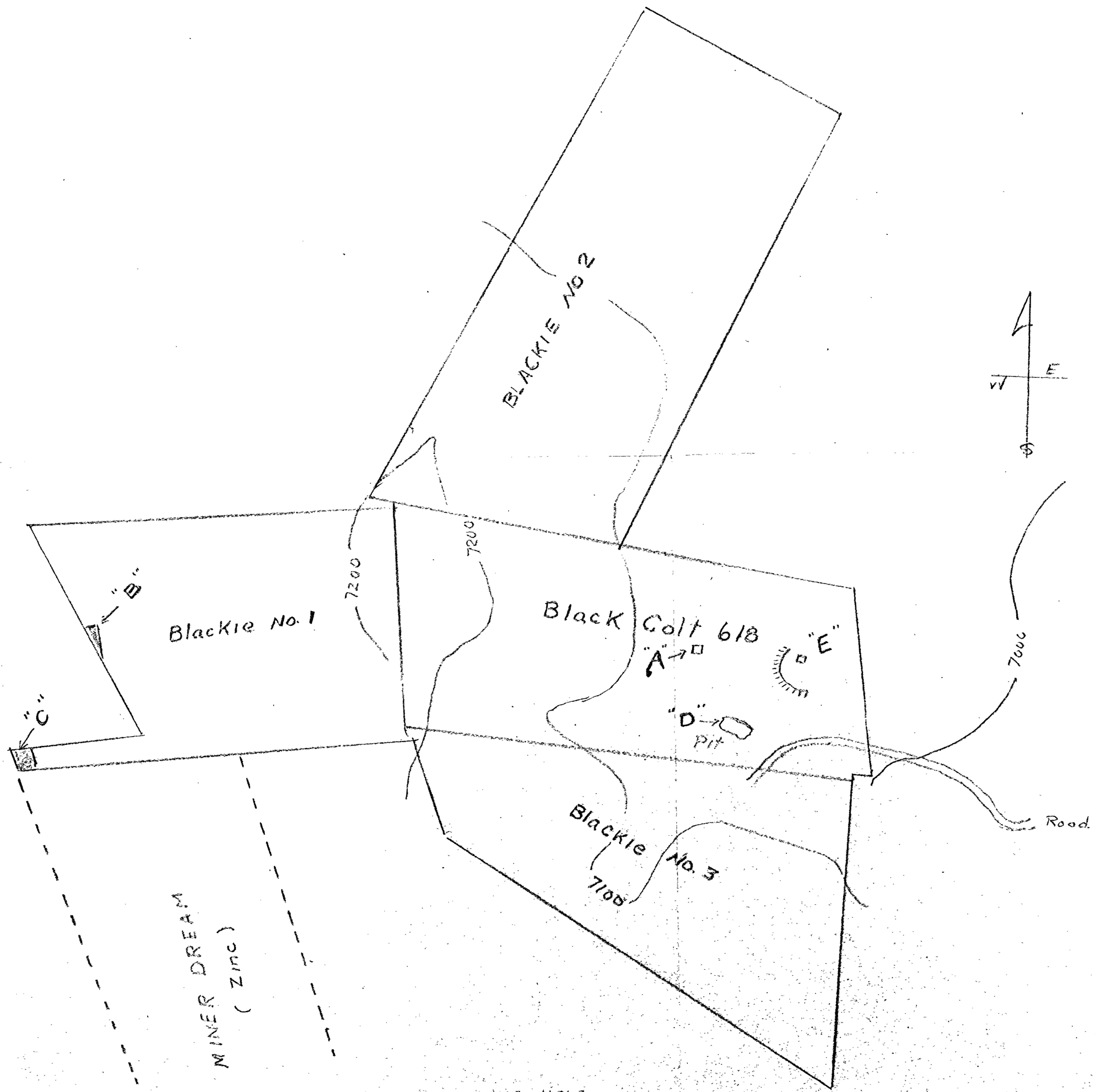


FIGURE 2 .— GEOLOGY AND CLAIM MAP, BLACK COLT AND BLACKIE CLAIMS, STANDARD MINERALS, INC., SIERRA COUNTY, NEW MEXICO.


BLACKIE NO 2
W
E
S
"B"
Blackie No. 1
7200
7200
Black Colt 618
"A"
"E"
7000
"C"
"D"
Pit
Road
Blackie No. 3
7100
MINER DREAM
(Zinc)
CLAIMS HELD
BY
STANDARD MINERALS, INC