MME Form 9
Rev. Nov. 65

UNITED STATES
DEPARTMENT OF THE INTERIOR
Geological Survey

OFFICIAL DOCKET FILE Contract No. _____ Docket No. 6742

Application
- [ ] Denied
- [x] Withdrawn

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

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

Folder No. 1:

Left Side

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

3/1/71 Revised application , 1/15/71 Reopened (See Green 3-ring binder)

Right Side

- [ ] Project Summary (final)
- [ ] Work Completed Analysis (final)

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

- [ ] Field Team Semiannual Report for Certified Project
- [ ] Final Field Team Report (Tab)
- [ ] Operator's Final Report (Tab)
- [ ] Interim Field Team Reports
- [ ] Operator's monthly reports and all attachments
- [ ] On-site Exam. Report (Tab)
- [ ] Settlement Sheets
- [ ] Drill Logs

Additional Folders:

Left Side

Folders No. _____: Reports

- [ ] Analysis of Semiannual Inspection Reports
- [ ] Project Summary (Interim) by MME Engineers

Right Side

- [ ] Field Team Semiannual Report for Certified Project
- [ ] Field Team Interim Reports
- [ ] Operator's Monthly Reports with Transmittal, Narrative and Maps

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

Folders No. _____: Settlement Sheets

Folders No. _____: Drill Logs

Folders No. _____: Royalty Material

72195-65

Copy No. 1

RENEWAL APPLICATION FOR OME ASSISTANCE IN EXPLORATION OF THE SPAR CITY PROPERTY

MK EXPLORATION COMPANY

JUNE 18, 1968

OFFICIAL COPY
O. M. E.
RECEIVED
JUL 16 1968
INITIALS CODE

MME Form 40
Jan. 65

Budget Bureau No. 42-R1508
Approval expires Dec. 31, 1968

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR FINANCIAL ASSISTANCE IN MINERALS EXPLORATION

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

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

MK Exploration Company
2955 Cherryridge Road
Englewood, Colorado 80110

See letter 5/26/70 another address: Arcade 16 West 13th Avenue Denver, Colorado 80204

APPLICANT DO NOT USE THIS BLOCK

DOCKET NUMBER 6742

DATE RECEIVED 7/16/68

REGION III

DIVISION CODE

BUSINESS ORGANIZATION *(Check one)*

- INDIVIDUAL [ ]
- CORPORATION [X]
- PARTNERSHIP [ ]
- OTHER *(Specify)* [ ]

STATE IN WHICH FIRM IS ORGANIZED Colorado

LIST CORPORATE OFFICERS OR PARTNERS HERE, IF APPLICABLE

NAME	ADDRESS	TITLE
Frank M. McKinley	(Same as Applicant)	President
Geraldine H. McKinley	" " "	Secretary
John J. Kelley	1801 Arapahoe Street Golden, Colorado	V. Pres.

MINERAL(S) FOR WHICH YOU WISH TO EXPLORE
Silver, Lead, Zinc

ESTIMATED COST OF PROJECT
$ 144,871

PROPERTY NAME	LOCATION COUNTY	STATE
Spar City Mine	Mineral	Colorado

GENERAL INSTRUCTIONS

Before filling out this application, please read the *OME Regulations for Obtaining Federal Assistance in Financing Explorations for Mineral Reserves* (30 CFR Chap. III). To assure prompt action, your application must provide all applicable material and information specified on the back of this application form. Avoid unnecessary correspondence and delays by submitting complete and accurate information. *Please submit two copies of this application and all accompanying papers* except as otherwise noted. Place your name and address on each sheet. Each item of information, maps, and reports required as a part of this application is described on the back of this form. Identify each attached statement by the item number to which it applies. If an item does not apply to your application, show the item number on your statement and after it write "not applicable." Maps or sketches should be used to supplement narrative descriptions of the property location and boundaries in item 2, existing mine workings and geology in item 3, and the proposed exploration work in item 5. When this information is not too complex, all of it may be shown on one map or sketch. All documents and other attachments submitted as a part of this application, except those in item 3(g) which you mark to be returned, become the property of the Government and will not be returned to the applicant. Send true copies, *not originals*, of leases, contracts, and other documents which are an essential part of your business records. *File this application with the Office of Minerals Exploration, Department of the Interior,* ~~Washington 25, D.C., or with the OME Field Office~~ Washington, D. C., 20242, or with the nearest OME Field Office.

CERTIFICATION

The undersigned, whether as an individual, corporate officer, partner, or otherwise, both in his own behalf and acting for the applicant, certifies that the information set forth in this form and accompanying papers is correct and complete, to the best of his knowledge and belief, and that he would not ordinarily undertake the proposed exploration under current conditions and circumstances at his sole expense.

June 18, 1968
DATED

Frank M. McKinley
BY *(Signature)*

President
TITLE

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

INFORMATION REQUIRED WITH THIS APPLICATION

1. Financial Eligibility:

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

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

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

2. Applicant's Rights in Land:

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

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

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

3. Physical Description:

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

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

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

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

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

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

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

4. Accessibility of Property:

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

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

5. Exploration Work:

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

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

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

6. Experience:

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

7. Estimate of Costs:

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

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

(b) Personal services. The cost of supervision, engineering and geological services, outside consultants, and labor should be itemized by numbers and classes of employees; rates of wages, salaries or fees; and periods of employment. State whether these services are available.

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

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

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

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

(g) Miscellaneous. Describe the type and estimate the cost of repairs and maintenance of the operating equipment listed in 7(d). Do not repeat initial repairs listed in 7(e). Show also the costs of analytical work, accounting, workmen's compensation and employees' liability insurance, payroll taxes, and other required costs that do not fall within the previous categories. [*Note*—The Government will not contribute to costs incurred before the date of the contract, or to costs of or incident to: (1) acquiring, using, or possessing land and any existing improvements, facilities, buildings, installations, and appurtenances, or the depreciation and depletion thereof; (2) general overhead, corporate management, interest and taxes (other than payroll and sales taxes); (3) insurance (other than employees' liability insurance); and (4) damages to persons or property (other than authorized repair to or replacement of equipment or other property used in the work).]

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

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EXHIBITS

1 - Correspondence with Credit Sources

2 - Lien and Subordination Agreements with Property Owners

3 - Geologic Map of current workings

4 - Exploration Plan Map

5 - Assay Certificates

6 - Geochemical Investigations in Target Area No. 2

This Application for OME assistance in exploration of the Spar City property of Applicant is a revival of a previous Application on file with OME under Docket No. 6440 (silver). Consequently, only those paragraphs of information in which there have been changes or additions to the data are included herein.

I. FINANCIAL ELIGIBILITY

A. No change. New letters from commercial sources are in Exhibit 1.

B. No change.

C. No change.

II. APPLICANT'S RIGHTS IN LAND

A. No change

B. No change. Part of the property has previously been known as the Bird Creek Mine. Because other holdings are now consolidated with that portion, however, the operation is now called the Spar City Mine.

C. New Lien and Subordination Agreements from property owners on MME Form 52 are attached as Exhibit 2.

III. PHYSICAL DESCRIPTION

A. Since completion of OME Contract No. 14-23-090-2226, Applicant has opened a portal near the north side of the property and driven over 1,000 feet of workings. A geologic map of these developments is in Exhibit 3 and the relationship of these workings to previous geologic mapping is displayed in the Exploration Plan map, Exhibit 4.

B. No change.

C. No change.

D. No change.

E. No change.

F. It has been established (Prof. Paper 475-D) that the faults in the Spar City property were active in the economically important last period of faulting around the Creede caldera, thus providing sites for mineral deposition. It has also been established that mineralization did take place in these structures and that ore was produced from them.

Applicant has exposed the Smuggler structure underground and is presently drifting on it toward targets shown on the Exploration Plan Map. The structure is wide, shows evidence of extensive movement, the rocks are hydrothermally altered, and some silver is present. The vein changes from very oxidized, muddy, sheared and crushed zones at the northernmost exposure to increasing silicification of the walls, argillization and other hydrothermal alteration of the interior of the structure as the development progresses southward. So far as the vein has been developed at the time of this writing, lead, zinc and silver have been detected in it in quantities greater than those to be expected as normal background content. These are strong indications that the heading is approaching an ore body. The Geologic Map, Exhibit 3, shows sample locations and is annotated with assay results. Copies of assay certificates are to be found in Exhibit 5.

The horizon of the current effort is 350 feet deeper than the Lower Bird Creek Tunnel and 250 feet deeper than the DDH No. 3 penetration, which was the deepest of all the core holes.

In June of 1967 Applicant sampled soil profiles across the surface in the vicinity of Target No. 2, the area of early-day mining through the Upper and Lower Bird Creek workings. Samples were analyzed by Applicant on a Lemaire mercury detector and were also tested by atomic absorption by the Geochemical Prospecting Laboratory. Profiles of these tests for mercury, lead, zinc and silver, along with a plan showing locations of sample lines are presented in Exhibit 6. It is to be noted from these data that an anomalous metal content of the soil exists in the area, and considering steepness of the slopes on which the samples were taken, the metal contents of the samples correlate. Further, one of the samples of Line 1, related to the Smuggler vein, contained 1 oz. of silver per ton. These findings are additional confirmation of the presence of an ore body in Target Area No. 2.

G. No change.

IV. ACCESSIBILITY OF PROPERTY

A. The OME representative will be guided to the property by:

John J. Kelley P. O. Box 323 Creede, Colorado 81130	Tel.: (303) 658-2465 (Early morning, late afternoon and evening)

B. No change.

V. EXPLORATION WORK

A. Although the Exploration Plan Map, Exhibit 4, indicates that Applicant proposes to ultimately explore two targets southward on the strike of the Smuggler vein, this Application is limited to investigation of Target Area No. 1 only. The work entails drifting through the area explored by core drilling under OME contract in 1966 to the vicinity of DDH No. 1, with crosscuts to the east and west to inspect Structures 2 and 4 mapped in that previous work. If favorable indications of ore presence are found, a 150-foot raise (or two shorter raises) will be driven in the most likely place(s) up dip to explore these veins above the adit level.

Drifts and crosscuts will be 6'x8' in cross section and will total 2,300 feet in length. Raises will be 2-compartment, square-set, 5'x10' in plan, with an aggregate length of 150 feet. Location of the drift and crosscuts is shown on Exhibit 4.

Provision is also made for 1,000 feet of longholing to test walls of these openings where advisable.

B. None required.

C. If an OME contract is executed work would commence immediately. Drifting progress would be at the rate of 13 feet per 2-shift day. Raising progress would be at the rate of 5 feet per 2-shift day, with raising being performed concurrently with the drifting. In all, the project will require 8 months to complete.

VI. EXPERIENCE

No change. Individuals named previously are conducting current work.

VII. ESTIMATE OF COSTS

A. Independent Contracts - none.

B. Personal Services: In a 2-shift operation, each shift will have two miners in the heading (paid on a footage basis) and one miner on day's pay tramming and doing underground maintenance. When raising, two additional miners on footage pay will be added on each shift. There will be one mechanic on day shift and the foreman will work days and nights as required.

The engineer-geologist-supervisor will also work days and nights as necessary. He will be a full-time individual on a contracted basis. The price shown below includes all his expenses and 4-wheel drive transportation with its operating cost.

Supervision-engineering-geological services: 8 mos. @ $1,500	$12,000
Outside consultants, 2 days per mo.: 8 mos. @ $200	1,600
Mine foreman: 8 mos. @ $800	6,400
Drifting & crosscutting: unit price of $11 per foot, shared by 4 miners: 2,300 ft @ $11	25,300
Timbering, drift sets, est. 15% of 6x8 opening. Unit price of $6 per foot shared by 4 miners above; 345 ft. @ $6	2,070
Timbering, saddle-hitch, est. 30% of 6x8 opening. Unit price of $3 per foot shared by 4 miners above; 690 ft. @ $3	2,070
Raising, excavation & timbering. Unit price of $20 per foot shared by 4 miners: 150 ft. @ $20	3,000
1 Mechanic: 200 days @ $24	4,800
2 Miners: 200 days ea. @ $22	8,800
1,000 feet longholing @ $1 per ft. by miners	1,000
Total of Personal Services	$67,040

C. Operating Materials and Supplies:

Power - generator, existing	
Water - underground sump	
Fuel - 1,800 gal / mo @ $.17, x 8 mos	$2,448
space heat, $20 / mo, x 8 mos	160
Explosives - 15.25 lbs / ft @ $23.25 / Cwt = $3.55	
caps, 3.5 / ft @ $.35 = 1.23	
$4.78 / ft for 2,450 ft	11,711
Vent pipe, 20" - 2,300 ft @ $2.30	5,290
Air pipe, 4", incl. fittings - 2,300 ft @ $.81	1,863
Water pipe, 1" - only 1,000 ft @ $.30	300
Track, 30# rail, incl. accessories & ties - 2,300 ft @ $2.45	5,635
2 Track switches @ $185	370
100 Rock bolts, 3/4" x 6' @ $190 / C	190
Saddle hitches & timber - 690 ft @ $4.60	3,174
Drift set timber - 345 ft @ $6.30	2,174
300 ft 1" air hose @ $1.40	420
300 ft ½" water hose @ $.84	252
100 ft 1½" air hose @ $1.90	190
20 Wet suits @ $12.70	254
40 - 6½' drill steel @ $26.70	1,068
20 - 4' extension steel @ $21.50 (incl. cplgs.)	430
6 Wheatlamps @ $34	204
Compressor, drill, diesel & hydraulic oils @ $120/mo	960
Transportation, vehicle operation & maint. @ $175/mo	1,400
Allowance for small tools, welding gas, rod & other shop supplies, miscellaneous hardware, antifreeze, diesel starting fluid, etc. @ $500/mo, x 8 mos	4,000
Total Operating Materials & Supplies	$42,493

D. Operating Equipment:

To be purchased:

1 6-lamp Wheatcharger (new)	$300
4 40-cu ft mine cars (used) @ $600	2,400

To be rented (equipment not presently on hand):

1 1½-ton trammer with battery @ $500/mo, x 8 mos	4,000
1 LeRoi jackleg drill @ $105/mo, x 8 mos	840
2 Ingersol stoper drills @ $125 ea / mo, x 5 mos	1,250

To be rented (equipment is currently on hand):

1 800D Case crawler loader @ $300/mo, x 8 mos	2,400
2 LeRoi jackleg drills @ $105 ea / mo, x 8 mos	1,680
1 600 cfm Atlas-Copco compressor @ $600/mo, x 8 mos	4,800
1 Mining outfit, incl. tuggers, slushers, 12B mucker, 21" blower, 40-volt charger, Wheatlamp charger, air chain saw, Wright gasoline saw, air water pump, etc., @ $100/mo, x 8 mos	800
Total of Operating Equipment	$18,470

To be furnished by Applicant (only major items listed):

Item	Fair Value
1 Gasoline water pump	$100
1 21-C Eimco mucker	3,000
10 40-cu ft RD mine cars	3,600
1 4-ton Greensburg trammer with battery & charger	9,000
1 Air piston pump	400
1 Arc welder and accessories	300
Miscellaneous tools and equipment, each worth less than $100	2,500
Total Fair Value	$18,900

E. Initial Rehabilitation and Repairs: none

F. New Buildings, Fixtures, Installations: none

G. Miscellaneous:

Drill maintenance - 55,000' @ $.03	$1,650
Case loader maintenance	400
Compressor maintenance	800
Operating repairs of other misc. equipment	500
Analytical work - 365 assays for Au, Ag, Pb, Zn, Cu @ $7.00 (or more samples for various combinations of metals shown)	2,555
Accounting @ $150/mo, x 8 mos	1,200
Workmen's compensation insurance	2,843
Employees' liability insurance	837
Payroll taxes	2,351
Mailing, telephone, secretarial, map reproduction @ $125/mo, x 8 mos	1,000
Travel expenses of consultant - 550 mi @ $.10 + 2 days @ $16, x 8 mos	696
Sales taxes - on $67,868 @ 3%	2,036
Total of Miscellaneous	$16,868

RECAPITULATION OF COST ESTIMATE

VII	B.	Personal Services	$67,040
	C.	Operating Materials & Supplies	42,493
	D.	Operating Equipment	18,470
	G.	Miscellaneous	16,868
		Total	$144,871
		Cost per foot of mine opening	$59.13

P. O. Box 323
Creede, Colorado 81130
July 9, 1968

OFFICIAL
COPY
JUL 6 1968
CODE

Office of Minerals Exploration
Department of the Interior
Washington, D. C. 20242

Gentlemen:

Submitted herewith is our renewed application for OME assistance in exploration of our Spar City, Colorado, property. The original and subsequent applications for assistance have been assigned to Docket No. 6440 (silver) and work has been performed under OME Contract No. 2226 (completed).

As you will see in the application, more than 1,000 feet of adit have been driven toward our exploration objective to expose the Smuggler vein, as suggested in a letter received from OME on April 17, 1967. We believe that the geologic evidence thus developed warrants further exploration and are anxious to have a field investigation by your representative as soon as possible.

Please address correspondence to me at the above address, as there will be no one present to receive mail at our permanent address for prolonged periods this summer.

Yours very truly,

MK EXPLORATION COMPANY

John J. Kelley

Vice President

JJK:k

Encl.

Refer to Field

Application OMC-6742 (A9)
MK Exploration Co.

1. Are L+S agreements dated May 9, 1968, March 1968, & March 30, 1968, submitted with prior application, dated June 18, 1968, still valid & in force? Shouldn't these be updated?

2. Option to Purchase Mining Claims between Min. County Min. & Mill Co. and MK Expl. Co., dated Jan. 8, 1965 terminates Sept. 15, 1976 if purchase price has not been paid in full within 60 days after the date.
Option covers following claims:

Group A (patented)
- Smuggler
- Smuggler No. 1
- Percent No. 1
- Big Percent
- Little Percent
- Percent No. 12
- Percent No. 15
- Undivided 21/24 interest in World claim Pat'd 8294

} Bird Creek Mining claims

Group B (unpatented)
- Smuggler Nos. 2-5 incl.
- Percent #2
- Percent #3
- Percent #10
- 3/4 int. in World claim Pat'd 8294

From Mineral County Min. & Milling Co
Walter V. Riddell, Pres.
To MK Exploration Co
Frank H. McKinley, Pres.

2. cont: Option to Purchase Mining claims dated Feb. 15, 1965
between Harry L. Larsen and Mary L. Larsen
and MK Expl. Co. terminates Nov. 6, 1976
if purchase price not paid in full by this date.
Covers following mineral claims:

	Book	Page
Royal Basin No. 1	4B	272
Royal Basin No. 2	4B	272
Royal Basin No. 3	4B	271
Columbine	4	194
Laura Etta	4B	307
Laura Etta Extension	4B	319
Kitty Anna	4B	555
Theresa	4B	555

3. Proposed work.
Phase I. Drill holes 5-6-7 on Percent No. 1 (#16670)
claim inclined west under Smuggler No. 1 (#16670)

Phase II. Drill holes 8-9-10 from Smuggler (#16670)
claim inclined west under A-13 claim (#8294)
A-13 claim covers World claim so OK.

Replies to bank letters not received at time
application submitted but will forward them.

4. Work appears to be within property boundaries
covered by above options to purchase.

MME Form 52
Jan. 1959

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

FOR GOVERNMENT USE ONLY
Operator
Docket No. OME –
Contract No. 14-23-090 –
Contract Date

LIEN AND SUBORDINATION AGREEMENTS 1/

To the United States of America:

That certain land in the County of Mineral, State of Colorado, described ~~as follows~~: 2/ in an Option to Purchase Mining Claims (Short Form) dated January 8, 1965, and recorded in Book 110-J, page 188, official records of said County

hereinafter called the "land", is the subject of a proposed exploration contract, hereinafter called the "Contract", between the United States of America, hereinafter called the "Government" and

MK Exploration Company, a Colorado corporation 3/

hereinafter called the "Operator". In consideration for and as an inducement to the Government executing the Contract, the undersigned:

1. (a) Being the owner of an interest in the land, hereby grants to the Government a lien upon all of his right, title, and interest in the land and upon any production of minerals therefrom to secure the payment to the Government of the royalty on production provided for by the Contract, and agrees if the Operator's interest should be surrendered or terminated at any time prior to the expiration of the rights of the United States under said Contract to pay royalty to the Government according to the terms of said Contract; or

~~(b) Being the holder of a claim, lien, or encumbrance against the land, hereby subordinates his claim, lien, or encumbrance in or against the land and in any production therefrom to the rights of the Government under the Contract with respect to royalty on production and lease to execute same.~~ 4/

2. Undertakes and agrees that property in which the Government may acquire an interest or equity under the Contract may be dismantled, severed from the land, and removed as may be provided in the Contract; and the Government's interest and equity in such property shall be prior and superior to any adverse right or claim of the undersigned.

3. Represents and undertakes that there is no claim, lien, or encumbrance upon the undersigned's right, title, claim, or interest in or against the land other than the following: (If "none" insert the word "none". Do not leave blank.)

none

1/ Production from the land is not required, and in the absence of production there is no obligation to pay royalty to the Government.

2/ Either (a) insert the legal description of the land, or (b) strike out the words "as follows" and insert "in a lease /or contract, deed, or other document/ dated _____, and recorded in Book _____, Page ____, official records of said county". If (b) is used, the book and page of recordation must be inserted above. If the space provided is insufficient, use an Annex and refer to the Annex in the space.

3/ Insert name exactly as it appears in the Application MME Form 40.

4/ Subparagraph 1(a) does not apply to the holder of a claim, lien, or encumbrance.

4. Undertakes and agrees (a) neither to commit any act nor assert any claim in conflict with the provisions of this Agreement; and (b) to give advance notice of the Government's rights under this agreement to any subsequent transferee, mortgagee, encumbrancer, or lessee of any of the undersigned's right, title, claim, or interest in or against the land or any production therefrom, furnishing the Government with two true copies of such notice; and

5. Consents to all amendments (including an agreement of termination) and assignments of the Contract without notice thereof, and undertakes and agrees that this agreement shall extend and apply thereto.

6. Added provisions none (State "None" or "See Annex No. ____".)

Dated this 9th day of ~~March~~ May, 19 68.

Mary A. Riddell (Seal) — 1900 McKinney Way, 22-C (Street); Seal Beach, California (City & State)

Mary A. Riddell, President

(Seal) — (Street); (City & State)

(Seal) — (Street); (City & State)

(Seal) — (Street); (City & State)

(Seal) — (Street); (City & State)

(Seal) — (Street); (City & State)

I, Nancy F. Leeds (Name), certify that I am the Secretary (Title—Secretary, etc.) of the corporation named herein; that Mary A. Riddell (Name), who signed this agreement was then President (Title—Pres., Vice-Pres., etc.) of said corporation; that said agreement was duly signed for and in behalf of said corporation by authority of its governing body, and was within the scope of its corporate powers.

Nancy F. Leeds, Secretary

(Corporate Seal)

MME Form 52
Jan. 1959

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

FOR GOVERNMENT USE ONLY
Operator
Docket No. OME –
Contract No. 14-23-090–
Contract Date

LIEN AND SUBORDINATION AGREEMENTS[1]

To the United States of America:

That certain land in the County of Mineral, State of Colorado, described ~~as follows~~:[2] in an Option to Purchase Mining Claims (Short Form) dated January 8, 1965, and recorded in Book 110-J, page 188, official records of said County

hereinafter called the "land", is the subject of a proposed exploration contract, hereinafter called the "Contract", between the United States of America, hereinafter called the "Government" and MK Exploration Company, a Colorado corporation[3], hereinafter called the "Operator". In consideration for and as an inducement to the Government executing the Contract, the undersigned:

1. (a) Being the owner of an interest in the land, hereby grants to the Government a lien upon all of his right, title, and interest in the land and upon any production of minerals therefrom to secure the payment to the Government of the royalty on production provided for by the Contract, and agrees if the Operator's interest should be surrendered or terminated at any time prior to the expiration of the rights of the United States under said Contract to pay royalty to the Government according to the terms of said Contract; or

~~(b) Being the owner of a claim, lien, or encumbrance in or against the land and in any production therefrom of his claim, lien, or encumbrance in or against the land, hereby grants to the Government a lien upon all of his right, title, and interest in the land and upon any production of minerals therefrom to secure the payment to the Government of the royalty on production provided for by the Contract, and agrees if the Operator's interest should be surrendered or terminated at any time prior to the expiration of the rights of the United States under said Contract to pay royalty to the Government according to the terms of said Contract;~~[4]

2. Undertakes and agrees that property in which the Government may acquire an interest or equity under the Contract may be dismantled, severed from the land, and removed as may be provided in the Contract; and the Government's interest and equity in such property shall be prior and superior to any adverse right or claim of the undersigned.

3. Represents and undertakes that there is no claim, lien, or encumbrance upon the undersigned's right, title, claim, or interest in or against the land other than the following: (If "none" insert the word "none". Do not leave blank.)

none

1/ Production from the land is not required, and in the absence of production there is no obligation to pay royalty to the Government.

2/ Either (a) insert the legal description of the land, or (b) strike out the words "as follows" and insert "in a lease /or contract, deed, or other document/ dated _____, and recorded in Book _____, Page ____, official records of said county". If (b) is used, the book and page of recordation must be inserted above. If the space provided is insufficient, use an Annex and refer to the Annex in the space.

3/ Insert name exactly as it appears in the Application MME Form 40.

4/ Subparagraph 1(a) does not apply to the holder of a claim, lien, or encumbrance.

4. Undertakes and agrees (a) neither to commit any act nor assert any claim in conflict with the provisions of this Agreement; and (b) to give advance notice of the Government's rights under this agreement to any subsequent transferee, mortgagee, encumbrancer, or lessee of any of the undersigned's right, title, claim, or interest in or against the land or any production therefrom, furnishing the Government with two true copies of such notice; and

5. Consents to all amendments (including an agreement of termination) and assignments of the Contract without notice thereof, and undertakes and agrees that this agreement shall extend and apply thereto.

6. Added provisions ____ none ____ (State "None" or "See Annex No. ____".)

Dated this 9th day of ~~March~~ May, 19 68.

Mary A. Riddell (Seal)	1900 McKinney Way, 22-C	(Street)
Mary A. Riddell, President	Seal Beach, California	(City & State)
(Seal)		(Street)
		(City & State)
(Seal)		(Street)
		(City & State)
(Seal)		(Street)
		(City & State)
(Seal)		(Street)
		(City & State)
(Seal)		(Street)
		(City & State)

I, Nancy F. Leeds (Name), certify that I am the Secretary (Title—Secretary, etc.) of the corporation named herein; that Mary A. Riddell (Name), who signed this agreement was then President (Title—Pres., Vice-Pres., etc.) of said corporation; that said agreement was duly signed for and in behalf of said corporation by authority of its governing body, and was within the scope of its corporate powers.

Nancy F. Leeds, Secretary
(Corporate Seal)

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Jan. 1959

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MK Exploration Company, a Colorado corporation[3]

hereinafter called the "Operator". In consideration for and as an inducement to the Government executing the Contract, the undersigned:

1. (a) Being the owner of an interest in the land, hereby grants to the Government a lien upon all of his right, title, and interest in the land and upon any production of minerals therefrom to secure the payment to the Government of the royalty on production provided for by the Contract, and agrees if the Operator's interest should be surrendered or terminated at any time prior to the expiration of the rights of the United States under said Contract to pay royalty to the Government according to the terms of said Contract; or

~~(b) Being the holder of a claim, lien, or encumbrance in or against the land or in any production therefrom, does hereby subordinate his claim, lien, or encumbrance in or against the land and in any production therefrom to the lien of the Government under the Contract to the extent of any royalty due or payable to the Government under the Contract.~~[4]

2. Undertakes and agrees that property in which the Government may acquire an interest or equity under the Contract may be dismantled, severed from the land, and removed as may be provided in the Contract; and the Government's interest and equity in such property shall be prior and superior to any adverse right or claim of the undersigned.

3. Represents and undertakes that there is no claim, lien, or encumbrance upon the undersigned's right, title, claim, or interest in or against the land other than the following: (If "none" insert the word "none". Do not leave blank.)

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5. Consents to all amendments (including an agreement of termination) and assignments of the Contract without notice thereof, and undertakes and agrees that this agreement shall extend and apply thereto.

6. Added provisions none (State "None" or "See Annex No.____".)

Dated this 9th day of ~~March~~ May, 19 68.

Mary A. Riddell Mary A. Riddell, President	(Seal)	1900 McKinney Way, 22-C (Street) Seal Beach, California (City & State)
	(Seal)	(Street) (City & State)
	(Seal)	(Street) (City & State)
	(Seal)	(Street) (City & State)
	(Seal)	(Street) (City & State)
	(Seal)	(Street) (City & State)

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Nancy F. Leeds, Secretary
(Corporate Seal)

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MK Exploration Company, a Colorado corporation[3]

hereinafter called the "Operator". In consideration for and as an inducement to the Government executing the Contract, the undersigned:

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~~(b) Being the holder of a claim, lien, or encumbrance in or against the land and in any production therefrom, hereby subordinates his claim, lien, or encumbrance in or against the land and in any production therefrom to the lien of the Government upon all of his right, title, and interest in the land and upon any production therefrom to secure the payment to the Government of the royalty on production provided for by the Contract, and agrees if the Operator's interest should be surrendered or terminated at any time prior to the expiration of the rights of the United States under said Contract to pay royalty to the Government according to the terms of said Contract;~~[4]

2. Undertakes and agrees that property in which the Government may acquire an interest or equity under the Contract may be dismantled, severed from the land, and removed as may be provided in the Contract; and the Government's interest and equity in such property shall be prior and superior to any adverse right or claim of the undersigned.

3. Represents and undertakes that there is no claim, lien, or encumbrance upon the undersigned's right, title, claim, or interest in or against the land other than the following: (If "none" insert the word "none". Do not leave blank.)

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5. Consents to all amendments (including an agreement of termination) and assignments of the Contract without notice thereof, and undertakes and agrees that this agreement shall extend and apply thereto.

6. Added provisions none (State "None" or "See Annex No.____".)

Dated this 9th day of ~~March~~ May, 19 68.

Mary A. Riddell (Seal) — 1900 McKinney Way, 22-C (Street); Seal Beach, California (City & State)

Mary A. Riddell, President

_____ (Seal) — _____ (Street); _____ (City & State)

_____ (Seal) — _____ (Street); _____ (City & State)

_____ (Seal) — _____ (Street); _____ (City & State)

_____ (Seal) — _____ (Street); _____ (City & State)

_____ (Seal) — _____ (Street); _____ (City & State)

I, Nancy F. Leeds (Name), certify that I am the Secretary (Title—Secretary, etc.) of the corporation named herein; that Mary A. Riddell (Name), who signed this agreement was then President (Title—Pres., Vice-Pres., etc.) of said corporation; that said agreement was duly signed for and in behalf of said corporation by authority of its governing body, and was within the scope of its corporate powers.

Nancy F. Leeds, Secretary
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LIEN AND SUBORDINATION AGREEMENTS[1]

To the United States of America:

That certain land in the County of Mineral, State of Colorado, described ~~as follows~~[2] in an Option to Purchase Mining Claims (Short Form) dated February 15, 1965, and recorded in Book 119-J at page 189, official records of said County

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MK Exploration Company, a Colorado corporation[3],

hereinafter called the "Operator". In consideration for and as an inducement to the Government executing the Contract, the undersigned:

1. (a) Being the owner of an interest in the land, hereby grants to the Government a lien upon all of his right, title, and interest in the land and upon any production of minerals therefrom to secure the payment to the Government of the royalty on production provided for by the Contract, and agrees if the Operator's interest should be surrendered or terminated at any time prior to the expiration of the rights of the United States under said Contract to pay royalty to the Government according to the terms of said Contract; or

~~(b) Being the holder of a claim, lien or encumbrance against the land under his claim, lien or encumbrance is or against the land and is not subject thereto to the rights of the Government under the Contract with respect to royalty on production and dismantling and removal of equipment[4]~~

2. Undertakes and agrees that property in which the Government may acquire an interest or equity under the Contract may be dismantled, severed from the land, and removed as may be provided in the Contract; and the Government's interest and equity in such property shall be prior and superior to any adverse right or claim of the undersigned.

3. Represents and undertakes that there is no claim, lien, or encumbrance upon the undersigned's right, title, claim, or interest in or against the land other than the following: (If "none" insert the word "none". Do not leave blank.)

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4. Undertakes and agrees (a) neither to commit any act nor assert any claim in conflict with the provisions of this Agreement; and (b) to give advance notice of the Government's rights under this agreement to any subsequent transferee, mortgagee, encumbrancer, or lessee of any of the undersigned's right, title, claim, or interest in or against the land or any production therefrom, furnishing the Government with two true copies of such notice; and

5. Consents to all amendments (including an agreement of termination) and assignments of the Contract without notice thereof, and undertakes and agrees that this agreement shall extend and apply thereto.

6. Added provisions none (State "None" or "See Annex No.____".)

Dated this ____ day of March, 19 68.

Harry L. Larson (Seal)	Harry L. Larson	Creede, Colorado	(Street) (City & State)
Mary L. Larson (Seal)	Mary L. Larson	Creede, Colorado	(Street) (City & State)
____ (Seal)		____	(Street) (City & State)
____ (Seal)		____	(Street) (City & State)
____ (Seal)		____	(Street) (City & State)
____ (Seal)		____	(Street) (City & State)

I, ____ (Name), certify that I am the ____ (Title—Secretary, etc.) of the corporation named herein; that ____ (Name), who signed this agreement was then ____ (Title—Pres., Vice-Pres., etc.) of said corporation; that said agreement was duly signed for and in behalf of said corporation by authority of its governing body, and was within the scope of its corporate powers.

____ (Corporate Seal)

MME Form 52
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UNITED STATES
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LIEN AND SUBORDINATION AGREEMENTS 1/

To the United States of America:

That certain land in the County of Mineral, State of Colorado, described ~~as follows~~ 2/ in an Option to Purchase Mining Claims (Short Form) dated February 15, 1965, and recorded in Book 119-J at page 189, official records of said County

hereinafter called the "land", is the subject of a proposed exploration contract, hereinafter called the "Contract", between the United States of America, hereinafter called the "Government" and MK Exploration Company, a Colorado corporation 3/ hereinafter called the "Operator". In consideration for and as an inducement to the Government executing the Contract, the undersigned:

1. (a) Being the owner of an interest in the land, hereby grants to the Government a lien upon all of his right, title, and interest in the land and upon any production of minerals therefrom to secure the payment to the Government of the royalty on production provided for by the Contract, and agrees if the Operator's interest should be surrendered or terminated at any time prior to the expiration of the rights of the United States under said Contract to pay royalty to the Government according to the terms of said Contract; or

~~(b) Being the holder of an old lien or encumbrance and not the owner of an interest in the land, hereby grants to the Government a lien upon all of his right, title, and interest in the land and upon any production therefrom to secure the payment to the Government of the royalty on production provided for by the Contract, and agrees if the Operator's interest should be surrendered or terminated at any time prior to the expiration of the rights of the United States under said Contract to pay royalty to the Government according to the terms of said Contract; or~~ 4/

2. Undertakes and agrees that property in which the Government may acquire an interest or equity under the Contract may be dismantled, severed from the land, and removed as may be provided in the Contract; and the Government's interest and equity in such property shall be prior and superior to any adverse right or claim of the undersigned.

3. Represents and undertakes that there is no claim, lien, or encumbrance upon the undersigned's right, title, claim, or interest in or against the land other than the following: (If "none" insert the word "none". Do not leave blank.)

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5. Consents to all amendments (including an agreement of termination) and assignments of the Contract without notice thereof, and undertakes and agrees that this agreement shall extend and apply thereto.

6. Added provisions ____ none ____ (State "None" or "See Annex No.____".)

Dated this ____ day of March, 19 68.

Harry L. Larson (Seal) Creede, Colorado (Street) (City & State)
Harry L. Larson

Mary L. Larson (Seal) Creede, Colorado (Street) (City & State)
Mary L. Larson

_____ (Seal) _____ (Street) (City & State)

_____ (Seal) _____ (Street) (City & State)

_____ (Seal) _____ (Street) (City & State)

_____ (Seal) _____ (Street) (City & State)

I, _____ (Name), certify that I am the _____ (Title—Secretary, etc.) of the corporation named herein; that _____ (Name), who signed this agreement was then _____ (Title—Pres., Vice-Pres., etc.) of said corporation; that said agreement was duly signed for and in behalf of said corporation by authority of its governing body, and was within the scope of its corporate powers.

_____ (Corporate Seal)

INT.-DUP. SEC., WASH., D.C. 21103

MME Form 52
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UNITED STATES
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~~(b) Being the holder of a claim, lien, or encumbrance against the land, hereby consents to the execution of the Contract and agrees that the lien of the Government shall be prior and superior to the lien of the Government under the Contract 4/~~

2. Undertakes and agrees that property in which the Government may acquire an interest or equity under the Contract may be dismantled, severed from the land, and removed as may be provided in the Contract; and the Government's interest and equity in such property shall be prior and superior to any adverse right or claim of the undersigned.

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6. Added provisions ____ none ____ (State "None" or "See Annex No.____".)

Dated this ____ day of March, 19 68.

Harry L. Larson (Seal) _____ (Street) Creede, Colorado (City & State)
Harry L. Larson

Mary L. Larson (Seal) _____ (Street) Creede, Colorado (City & State)
Mary L. Larson

_____ (Seal) _____ (Street) (City & State)

_____ (Seal) _____ (Street) (City & State)

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~~(b) Being the holder of a lien or encumbrance against the land hereby or encumbrance in the amount thereof of the Government under the Contract with respect to payment to the Government[4]~~

2. Undertakes and agrees that property in which the Government may acquire an interest or equity under the Contract may be dismantled, severed from the land, and removed as may be provided in the Contract; and the Government's interest and equity in such property shall be prior and superior to any adverse right or claim of the undersigned.

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Harry L. Larson (Seal)	Creede, Colorado	(Street) (City & State)
Mary L. Larson (Seal)	Creede, Colorado	(Street) (City & State)
_____ (Seal)	_____	(Street) (City & State)
_____ (Seal)	_____	(Street) (City & State)
_____ (Seal)	_____	(Street) (City & State)
_____ (Seal)	_____	(Street) (City & State)

I, _____ (Name), certify that I am the _____ (Title—Secretary, etc.) of the corporation named herein; that _____ (Name), who signed this agreement was then _____ (Title—Pres., Vice-Pres., etc.) of said corporation; that said agreement was duly signed for and in behalf of said corporation by authority of its governing body, and was within the scope of its corporate powers.

_____ (Corporate Seal)

MME Form 52
Jan. 1959

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

FOR GOVERNMENT USE ONLY
Operator
Docket No. OME –
Contract No. 14-23-090 –
Contract Date

LIEN AND SUBORDINATION AGREEMENTS[1]

To the United States of America:

That certain land in the County of Mineral, State of Colorado,

described as follows:[2] Undivided 3/4 interest in Big Spar Patented Lode Mining Claim, Mineral Survey No. 7795, Royal ARch Mining District, Mineral County, Colorado. Unpatented Lode Mining Claims, A-1 through A-22, recorded at Book 6-C, pages 110 through 131, Mineral County, Colo.

hereinafter called the "land", is the subject of a proposed exploration contract, hereinafter called the "Contract", between the United States of America, hereinafter called the "Government" and

MK Exploration Company, a Colorado corporation [3]

hereinafter called the "Operator". In consideration for and as an inducement to the Government executing the Contract, the undersigned:

1. (a) Being the owner of an interest in the land, hereby grants to the Government a lien upon all of his right, title, and interest in the land and upon any production of minerals therefrom to secure the payment to the Government of the royalty on production provided for by the Contract, and agrees if the Operator's interest should be surrendered or terminated at any time prior to the expiration of the rights of the United States under said Contract to pay royalty to the Government according to the terms of said Contract; or

~~(b) Being the holder of a claim, lien, or encumbrance against the land, hereby subordinates his claim, lien, or encumbrance against the land and to any production therefrom to the rights of the Government under the Contract with respect to royalty on production and terms of recordation.~~ [4]

2. Undertakes and agrees that property in which the Government may acquire an interest or equity under the Contract may be dismantled, severed from the land, and removed as may be provided in the Contract; and the Government's interest and equity in such property shall be prior and superior to any adverse right or claim of the undersigned.

3. Represents and undertakes that there is no claim, lien, or encumbrance upon the undersigned's right, title, claim, or interest in or against the land other than the following: (If "none" insert the word "none". Do not leave blank.)

none

1/ Production from the land is not required, and in the absence of production there is no obligation to pay royalty to the Government.

2/ Either (a) insert the legal description of the land, or (b) strike out the words "as follows" and insert "in a lease /or contract, deed, or other document/ dated_____, and recorded in Book_____, Page____, official records of said county". If (b) is used, the book and page of recordation must be inserted above. If the space provided is insufficient, use an Annex and refer to the Annex in the space.

3/ Insert name exactly as it appears in the Application MME Form 40.

4/ Subparagraph 1(a) does not apply to the holder of a claim, lien, or encumbrance.

4. Undertakes and agrees (a) neither to commit any act nor assert any claim in conflict with the provisions of this Agreement; and (b) to give advance notice of the Government's rights under this agreement to any subsequent transferee, mortgagee, encumbrancer, or lessee of any of the undersigned's right, title, claim, or interest in or against the land or any production therefrom, furnishing the Government with two true copies of such notice; and

5. Consents to all amendments (including an agreement of termination) and assignments of the Contract without notice thereof, and undertakes and agrees that this agreement shall extend and apply thereto.

6. Added provisions none (State "None" or "See Annex No. ____".)

Dated this 30th day of March, 19 68.

Frank M. McKinley, President	(Seal)	2955 Cherryridge Road (Street) Englewood, Colorado 80110 (City & State)
	(Seal)	(Street) (City & State)
	(Seal)	(Street) (City & State)
	(Seal)	(Street) (City & State)
	(Seal)	(Street) (City & State)
	(Seal)	(Street) (City & State)

I, Geraldine H. McKinley (Name), certify that I am the Secretary (Title—Secretary, etc.) of the corporation named herein; that Frank M. McKinley (Name), who signed this agreement was then President (Title—Pres., Vice-Pres., etc.) of said corporation; that said agreement was duly signed for and in behalf of said corporation by authority of its governing body, and was within the scope of its corporate powers.

Geraldine H. McKinley (Corporate Seal)

INT.-DUP. SEC., WASH., D.C. 21103

MME Form 52
Jan. 1959

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

FOR GOVERNMENT USE ONLY
Operator
Docket No. OME –
Contract No. 14-23-090 –
Contract Date

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~~(b) Being the holder of a claim, lien, or encumbrance against the land, hereby subordinates his claim, lien, or encumbrance against the land and the production therefrom to the lien of the Government under the Contract with respect to royalty on production and hereby acknowledges~~[4]

2. Undertakes and agrees that property in which the Government may acquire an interest or equity under the Contract may be dismantled, severed from the land, and removed as may be provided in the Contract; and the Government's interest and equity in such property shall be prior and superior to any adverse right or claim of the undersigned.

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~~(b) Being the holder of a lien, lien or encumbrance against the land, hereby consents to the lien, lien or encumbrance against the land, hereby consents to the production therefrom in the right of the Government under the Contract to royalty on production and rights to acquire[4]~~

2. Undertakes and agrees that property in which the Government may acquire an interest or equity under the Contract may be dismantled, severed from the land, and removed as may be provided in the Contract; and the Government's interest and equity in such property shall be prior and superior to any adverse right or claim of the undersigned.

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Geraldine H. McKinley

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Frank M. McKinley (Seal) — 2955 Cherryridge Road (Street), Englewood, Colorado 80110 (City & State)
Frank M. McKinley, President

_____ (Seal) — _____ (Street), _____ (City & State)

_____ (Seal) — _____ (Street), _____ (City & State)

_____ (Seal) — _____ (Street), _____ (City & State)

_____ (Seal) — _____ (Street), _____ (City & State)

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Geraldine H. McKinley (Corporate Seal)
Geraldine H. McKinley

2955 Cherryridge Road
Englewood, Colorado 80110
June 24, 1968

"Copy" to H.J. Bleakley - Peoples Bank
7-1-68 He didn't receive first one.
ael

The Peoples Bank & Trust
9635 Montview Boulevard
Aurora, Colorado 80010

Gentlemen:

We hereby submit for your consideration our application for a loan in the amount of $105,000.

The loan proceeds would be used for exploration of a group of patented and unpatented mining claims in the Royal Arch Mining District near Spar City, about 14 miles south of Creede, Colorado, known as the Spar City Prospect. Preliminary core drilling and geological and geophysical investigations have been made, and we would undertake a tunneling and cross-cutting project to confirm the geologic inferences obtained. The program contemplated is estimated to cost $140,000, of which $105,000 would be provided by the loan and $35,000 would be from the equity capital to be raised by us. The loan proceeds would be advanced as required to carry out the project, but only as our own funds are made available.

Inasmuch as we would not be in a position to repay the loan except out of production from the property in the event the exploration is successful, we would ask that there be no corporate liability for the loan, but that principal and interest be repayable only out of some reasonable percentage of the first net smelter returns on ore produced from the property. In this connection we are advised that the property owners would subordinate their interests in the property to the loan.

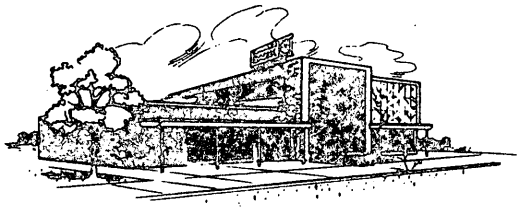
In our opinion the property has excellent prospects for production of silver, lead, and zinc. Please advise us whether or not you would be interested in considering a loan upon terms as outlined above. We will be glad to provide you with further information as to the description of the property, present geological information, and our specific exploration plans. We would also want to discuss with you the interest rate and the appropriate percentage of net smelter returns to be committed for payment of the loan.

Very truly yours,

MK EXPLORATION COMPANY

President

FMcKinley/aeb



the Peoples Bank
Member F.D.I.C.

9635 MONTVIEW BLVD.
364-2621

AURORA, COLORADO

H. J. BLEAKLEY
PRESIDENT

July 3, 1968

Mr. Frank McKinley, President
MK Exploration Company
2955 Cherryridge Road
Englewood, Colorado 80110

Dear Mr. McKinley:

We thank you for your letter of June 24, making application for a loan in the amount of $105,000.00 on your property in the Royal Arch Mining District near Spar City.

We regret to advise you that we would be unable to make a loan such as outlined in your letter. The only way that we could make such a loan would be if it were made on tangible collateral with a proper repayment program.

Thanking you for contacting us, we are

Very truly yours,

H. J. Bleakley

H. J. Bleakley
PRESIDENT

HJB:lr

2955 Cherryridge Road
Englewood, Colorado
June 24, 1968

Mr. Willard F. Bozett, Vice President
Colorado National Bank of Denver
P. O. Box 5168 Terminal Annex
Denver, Colorado 80217

Dear Mr. Bozett:

We hereby submit for your consideration our application for a loan in the amount of $105,000.

The loan proceeds would be used for exploration of a group of patented and unpatented mining claims in the Royal Arch Mining District near Spar City, about 14 miles south of Creede, Colorado, known as the Spar City Prospect. Preliminary core drilling and geological and geophysical investigations have been made, and we would undertake a tunneling and cross-cutting project to confirm the geologic inferences obtained. The program contemplated is estimated to cost $140,000, of which $105,000 would be provided by the loan and $35,000 would be from the equity capital to be raised by us. The loan proceeds would be advanced as required to carry out the project, but only as our own funds are made available.

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Very truly yours,

MK EXPLORATION COMPANY

President

FMcKinley/aeb

THE
COLORADO NATIONAL BANK OF DENVER
SEVENTEENTH STREET AT CHAMPA • DENVER, COLORADO 80202 • PHONE 222-9311

June 25, 1968

Mr. Frank McKinley, President
MK Exploration Company
2955 Cherryridge Road
Englewood, Colorado 80110

Dear Mr. McKinley:

With reference to your letter of June 24, 1968, and your application for a loan in the amount of $105,000 for exploration of patented and unpatented mining claims in the Royal Arch Mining District near Creede, Colorado, we wish to advise you that this Bank is not in a position to make loans of this type at the present time.

Very truly yours,

Willard F. Bozett

Willard F. Bozett
Vice President

WFB:hc

Gordon E. Hesselkus

Ph. 658/2497, Box 376

CREEDE ASSAY OFFICE
Custom Assaying
CREEDE, COLORADO

Certificate of Assay

ASSAYED FOR New Park Mining Company

DATE 2/5/68

Description	Gold	Silver	Lead	Zinc	Copper
# 1701	0.005	0.40	0.2	Nil	

MINE SPAR CITY

CAR TOP ☐

No. of cars

Mine Location

CHANNEL ☒

Description 36" cut, S RIB

Mine Location 60' SE of Sta. 42 in SE X-cut

GRAB ☐

Location

SAMPLE № 1701

ASSAY FOR:

Au ☒ Ag ☒ Pb ☒

Zn ☒ Cu ☐

Other

Date 1/31/68

Taken By JJK

MILL

HEAD ☐

TAIL ☐

CONC. ☐

1M Sets—7-64—R.F.F.Co.—6833

Gordon E. Hosselkus

Ph. 658/2497, Box 376

CREEDE ASSAY OFFICE

Custom Assaying

CREEDE, COLORADO

Certificate of Assay

ASSAYED FOR New Park Mining Company

DATE 2/18/68

Description	Gold	Silver	Lead	Zinc	Copper
1702	Tr.	0.28	N11	N11	0.02

MINE Spar City

Description 3.5' S RIB E X-CUT

Location

SAMPLE № 1702

ASSAY FOR:

Au ☒ Ag ☒ Pb ☒

Zn ☒ Cu ☒

Other

Date 2/16/68

Taken By

MILL

HEAD ☐

TAIL ☐

CONC. ☐

Gordon E. Hosselkus

Ph. 658/2497, Box 376

CREEDE ASSAY OFFICE

Custom Assaying

CREEDE, COLORADO

Certificate of Assay

ASSAYED FOR New Park Mining Company DATE 3/18/68

Description	Gold	Silver	Lead	Zinc	Copper
1703	0.005	0.40	0.2	0.1	0.01
1705	Tr.	0.28	0.2		Nil

MINE [illegible] City

CAR TOP ☐

No. of cars 18

Mine Location South Ore Sta 172 88'-98

CHANNEL ☒

Description

Mine Location

GRAB ☐

Location

SAMPLE NO. 1705

ASSAY FOR

Au ☒ Ag ☒ Pb ☒

Zn ☒ Cu ☒

Other

Date

Taken By

MILL

HEAD ☐

TAIL ☐

CONC. ☐

Gordon E. Hosselkus

Ph. 658/2497, Box 376

CREEDE ASSAY OFFICE
Custom Assaying
CREEDE, COLORADO

Certificate of Assay

ASSAYED FOR New Park Mining Company

DATE 4/25/68

Description	Gold	Silver	Lead	Zinc	Copper
1709	Tr.	0.42	0.3	0.2	Tr.

MINE Space City

CAR TOP ☐

No. of cars

Where location

CHANNEL ☒

Description 5.5' across face

Mine Location Sta. 50 + 108' drift S

☐

Location

SAMPLE № 1709

ASSAY FOR:

Au ☒ Ag ☒ Pb ☒

Zn ☒ Cu ☒

Other

Date 4-20-68

Taken By [illegible]

MILL

HEAD ☐

TAIL ☐

CONC. ☐

Gordon E. Hosselkus

Ph. 658/2497, Box 376

CREEDE ASSAY OFFICE

Custom Assaying

CREEDE, COLORADO

Certificate of Assay

ASSAYED FOR New Park Mining Company

DATE 4/30/68

Description	Gold	Silver	Lead	Zinc	Copper
1710	Tr.	0.56	0.1	0.1	0.02

Mine SPOR CITY

Car No. ☐

No. of cars

Mine Location

CHANNEL ☒

Description 5.0' out 5 Rib HW

Thread FW 2'-13' E of breast

Mine Location X-cut @ Sta. 51

☐

Location

Form 744 R.F.F.Co. 6659

SAMPLE № 1710

ASSAY FOR:

Au ☒ Ag ☒ Pb ☒

Zn ☒ Cu ☒

Other

Date 4-27-68

Taken By JGK

MILL

HEAD ☐

TAIL ☐

CONC. ☐

extra material
in first drawer

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
8/18/71	Emerick	120E
		120
		220

August 18, 1971

Memorandum

To: The File

From: Chief, Office of Minerals Exploration

Subject: OME-6742 (Silver)
MK Exploration Company
Spar City Mine
Mineral County, Colorado

The Applicant has not replied to our letter of June 30, 1971.

Accordingly, the subject docket is referred to the inactive file and the application considered as having been withdrawn.

Harold Kirkemo

Harold Kirkemo

cc: Director's Reading File
Mineral Resources
OME Docket
OME Reading File
OME Region III
Mr. Kirkemo

WLEmerick/gla 8-18-71

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
6/30/71		130
6/30	cal	220
7/1	cal	120M

AIRMAIL

JUN 30 1971

MK Exploration Company
3294 South Oneida Way
Denver, Colorado 80222

Re: OME-6742 (Silver)
MK Exploration Company
Spar City Mine
Mineral County, Colorado

Gentlemen:

Since March 8, 1971, when we referred your application to Mr. J. W. Hasler, Field Officer, OME Region III, the level of funding for the OME program in fiscal year 1972, beginning July 1, 1971, has been established. Budget constraints in fiscal year 1972 will restrict the OME program to a very few of the more promising proposals. As the total amount available for contracts during the year will be much less than the amount you requested, we regret that we cannot consider your application for the full amount. Perhaps a less extensive project could be proposed in the event you wish to proceed with your application.

If we do not hear from you within 30 days from the date of this letter, we will assume that you are not interested in a more modest program. In that event, we will consider the application as having been withdrawn.

Sincerely yours,

Harold Kirkemo
gla

Harold Kirkemo
Chief, Office of
Minerals Exploration

cc: Director's Reading File
Mineral Resources
OME Docket
OME Region III
OME Reading File
Mr. Kirkemo

HKirkemo/gla 6-30-71

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
3/5/71	Emerick	120E
		120
3/8	Coe	320
		120M

AIRMAIL

MAR 8 1971

MK Exploration Company
3294 South Oneida Way
Denver, Colorado 80222

Re: OME-6742 (Silver)
MK Exploration Company
Spar City Mine
Mineral County, Colorado

Gentlemen:

The application for assistance in exploring the subject property has been reviewed by the Washington office and referred to Mr. J. William Hasler, Field Officer, Region III, Office of Minerals Exploration, U. S. Geological Survey, Room 200, Building 53, Denver Federal Center, Denver, Colorado 80225.

Mr. Hasler will notify you if he requires additional information concerning the application and possibly to make arrangements for an on-site examination of the property.

Sincerely yours,

Harold Kirkemo

Harold Kirkemo
Chief, Office of
Minerals Exploration

cc: Director's Reading File
Mineral Resources
OME docket
OME Reading File
OME Region III
Mr. Emerick

WLEmerick/gla 3-5-71

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
3/5/71	Emerick	120E
		120
		220
		120M

MAR 8 1971

AIRMAIL

Memorandum

To: Field Officer, Region III

From: Chief, Office of Minerals Exploration

Subject: OME-6742 (Silver)
MK Exploration Company
Spar City Mine
Mineral County, Colorado

The subject application is referred to you for further study, a field examination if warranted, and recommendations.

The application appears complete and legally sound, although it is possible that the Lien and Subordination Agreements might have to be updated in the event of a contract. The Applicant's estimate of costs appear reasonable.

Harold Kirkemo

Harold Kirkemo

cc: Director's Reading File
Mineral Resources
OME docket
OME Reading File
Mr. Emerick
130

WLEmerick/gla 3-5-71

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

FEDERAL CENTER, DENVER, COLORADO 80225
Office of Minerals Exploration
Building 53 Room 200

February 24, 1971

Memorandum

To: Chief, Office of Minerals Exploration

From: Field Officer, Region III

Subject: OME 6742 (Ag)
MK Exploration Company
3294 South Oneida Way
Denver, Colorado 80222

Transmitted herewith is a revised or new application on The Spar City Mine property that was drilled by us under OME Docket 6640. See green notebook in file

I took the liberty to have Tom Steven, Geologist, U.S.G.S., review the proposed exploration in the light of the more recent work done by the applicant in conjunction with New Park Mining Company and agree with Tom's evaluation and suggestions.

J. William Hasler
J. William Hasler
Field Officer Region III
Office of Minerals Exploration

OME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
10/20/70	Emerick	120
		220

OCT 20 1970

Mr. John J. Kelley
Vice President
MK Exploration Company
16 West 13th Avenue
Denver, Colorado 80204

Re: OME-6742 (Silver-Lead-Zinc)
MK Exploration Company
Spar City Mine
Mineral County, Colorado

Dear Mr. Kelley:

Inasmuch as we have not received the revised exploration plan mentioned in your letter of May 26, 1970 to this office, we are placing your application in our inactive file.

Should you desire to reopen the application at some future time with a revised exploration proposal you may do so by filing a new application Form 40, referring to this OME docket number and furnishing the information pertinent to your new proposal. This information should include new bank letters dated within 90 days of filing the new application, revised cost estimates, and updating the application wherever necessary.

Sincerely yours,

Harold Kirkemo (gr)

Harold Kirkemo
Chief, Office of
Minerals Exploration

cc: Director's Reading File
Mineral Resources File
OME Docket
OME Reading File
OME Region III
Mr. Emerick
130

WLEmerick/bsl 10/20/70

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
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		120M

AIRMAIL

Mr. John J. Kelley
Vice President
MK Exploration Company
16 West 13th Avenue
Denver, Colorado 80204

JUN 4 1970

Re: OME-6742 (Silver-Lead-Zinc)
MK Exploration Company
Spar City Mine
Mineral County, Colorado

Dear Mr. Kelley:

Thank you for your letter of May 26, 1970, in response to Mr. J. William Hasler's letter, dated April 9, 1970, informing us that MK Exploration Company desires to keep its application in an active status and that the company is in process of revising its exploration plans.

As soon as your new exploration plans are firmly revised, we suggest that your application be revised or updated wherever necessary and, particularly, by submitting new bank letters and revised exploration plans and costs. The updated information requested will help OME to further evaluate the application for exploration assistance.

Sincerely yours,

Harold Kirkemo (gla)

Harold Kirkemo
Chief, Office of
Minerals Exploration

Copy to:
Mr. Frank M. McKinley, President
MK Exploration Company
2955 Cherryridge Road
Englewood, Colorado 80110

cc: Director's Reading file
Mineral Resources
OME docket
OME Reading File
OME Region III
Mr. Emerick

WLEmerick/gla 6-3-70

Telephone AC 2-4379

EXPLORATION SERVICES

Professional and Technical Assistance to Consultants and Exploration Departments in the Mining and Petroleum Industries

Custom Mapping • Surveys • Data Reduction

16 W. 13th Ave. Denver 4, Colorado

ORIGINAL COPY
O. M. E.
RECEIVED
JUN 2 1970
INITIAL CODE
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May 26, 1970

Office of Minerals Exploration
Department of the Interior
Washington, D. C. 20242

Re: OME-6742 (Silver-Lead-Zinc)
MK Exploration Company
Spar City Mine
Mineral County, Colorado

Gentlemen:

At the suggestion of Mr. J. William Hasler, following receipt of his letter of April 9, 1970, I am writing to advise you that MK Exploration Company would like to keep its application active in your files. We are in the process of preparing a revision to our exploration plans, calling for more core drilling before the heading is advanced, and believe that the program will qualify for an OME loan.

Very truly yours,

John J. Kelley

John J. Kelley
Vice President
MK Exploration Company

JJK:k

cc - Mr. J. William Hasler
Mr. Frank M. McKinley

Office of Minerals Exploration
Building 53 Room 200

OFFICIAL
COPY
RECEIVED
APR 13 1970

April 9, 1970

~~130~~
bal 120 M
WE 120 C
HK 120

Mr. Frank M. McKinley, President
MK Exploration Company
2955 Cherryridge Road
Englewood, Colorado 80110

Re: OME-6742 (Silver-Lead-Zinc)
MK Exploration Company
Spar City Mine
Mineral County, Colorado

Dear Mr. McKinley:

A letter to you dated September 5, 1968 from the Chief, Office of Minerals Exploration concerning the subject application informed you that the application had been referred to the field, for a possible field examination, and requesting that we be informed of your progress with the tunnel, and exploration southward toward the fault zone believed to exist in or near the northern portion of the Big Spar Claims, and to advise us if possibilities for ore-grade material are favorable on this level south of the fault zone.

Jack Kelly informed me some few weeks ago, when I had an occasion to visit with him in Golden, Colorado that the work had been terminated for the winter months, and mentioned that the tunnel had been driven southward for several thousand feet, and some structures had been penetrated.

May we be informed of your progress to date, and also obtain some indication as to your desire to keep the application in an active status?

Our funds for the present fiscal year are limited, and a much reduced exploration program would of necessity have to be considered, perhaps in this case you would prefer to withdraw your application. Will you kindly advise us at your earliest convenience?

Sincerely yours,

J. William Hasler

J. William Hasler,
Field Officer, Region III
Office of Minerals Exploration

cc: Chief, OME
OME-6742
OME chron
Mr. Hasler

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
9/4/68	Shibama	120
		110
9/5	cc	~~220~~
		120M

AIRMAIL

SEP 5 1968

Memorandum

To: Field Officer, Region III

From: Chief, Office of Minerals Exploration

Subject: OME-6742 (Silver-Lead-Zinc)
MK Exploration Company
Spar City Mine
Mineral County, Colorado

The application to explore the Spar City mine is referred to you for review, a field examination if warranted, and your recommendations. We realize that the referral is premature in view of the lack of favorable indications of exploration targets, but an inspection of the new workings may be worthwhile if it is convenient for you to visit the property while in or near the district on other business.

We accumulated much background information on this property in the course of administering Contract 2226 (OME-6440, Bird Creek mine) with the same company. We suggest that you refer in particular to your memorandum to the Chief, OME, dated April 12, 1967, pertaining to an application dated April 12, 1967, for additional work to explore the Smuggler vein. The same general questions you raised then can be applied to the work that the Applicant has completed on its own account since the OME contract was concluded.

The Applicant has driven about 1,200 feet of drift-crosscut southward toward the target areas from a point 1,580 feet north of the U. S. land monument on the Big Spar claim on a level about 335 feet below the Lower Bird Tunnel, the lowest previous workings on the property. If continued the length of the proposed target areas, the new tunnel would be 430, 550, 230, and 480 feet, respectively, below the intercepts of OME drill holes 1, 2, 3, and 4 with the Smuggler vein. The material recovered from these intercepts was sparsely mineralized, and the assay values were negligible. Unless there are indications of more favorable mineralization on vein structures near the northern limits of the proposed target areas, it would not be advisable to continue the new level the length of the area previously drilled on the OME contract.

As the new tunnel is crossing an area where a fault of some importance was suspected and where the identity of the country rock was obscured by ground cover, we believe it would be worthwhile to inspect the workings at your convenience.

On September 4, 1968, Mr. Frank McKinley, President, MK Exploration Company, discussed the application by telephone with Mr. Kirkemo. Mr. McKinley was advised that the geological information revealed to date in the new workings was not favorable and that preparation of an OME contract could not be considered on the basis of this information. The situation with respect to funds for new OME contracts in the next few months was explained.

In view of this situation, Mr. McKinley said he would seek other sources for money to continue with the exploration. He stated that you and/or Tom Steven would be most welcome to inspect the new tunnel at any time mutually convenient to the Applicant and yourselves. If favorable geological conditions are disclosed as the tunnel is advanced southward, OME participation could be considered at a later date when funds are available.

FRANK E. JOHNSON (gla)

Frank E. Johnson

cc: Director's Reading File
Economic Geology File
OME docket
OME Reading File
Mr. Kirkemo
130

HKirkemo/gla 9-4-68

MME Form 7
(2/63)

OFFICIAL FILE COPY

Date	Surname	Code
9/5/68	Kirkemo	120
		110
		220
		120M

AIRMAIL

SEP 5 1968

MK Exploration Company
2955 Cherryridge Road
Englewood, Colorado 80110

Re: OME-6742 (Silver-Lead-Zinc)
MK Exploration Company
Spar City Mine
Mineral County, Colorado

Gentlemen:

Your application for financial assistance to explore the Spar City mine has been reviewed by the Washington office and referred to Mr. J. W. Hasler, Field Officer, Region III, U. S. Geological Survey, Office of Minerals Exploration, Room 203, Building 53, Denver Federal Center, Denver, Colorado 80225. Mr. Hasler will arrange with you to inspect the new tunnel at a mutually convenient date as explained in a telephone conversation yesterday between Mr. Frank McKinley and Mr. Harold Kirkemo of this office.

On the basis of the geological information submitted, we could not consider an OME project as proposed in your application. If new and favorable information is disclosed as the tunnel is advanced southward, we would be glad to again review the proposal. For this reason, we are suggesting that Mr. Hasler and/or Mr. Tom Steven, U. S. Geological Survey, visit the property after the tunnel has been advanced across the fault zone which is believed to exist in or near the northern portion of the Big Spar claim. If possibilities for ore-grade material are favorable on this level south of the fault zone, we would give careful consideration to a revised proposal.

Our funds for the present Fiscal Year are limited, and even if favorable conditions were disclosed as the tunnel is advanced, we could not now consider a contract in the amount requested in your application. If new information warranted, a proposed contract would have to be deferred until funds become available at a later date.

Sincerely yours,

FRANK E. JOHNSON (gla)

Frank E. Johnson
Chief, Office of
Minerals Exploration

cc: Director's Reading File
Economic Geology File
OME docket
OME Reading File
OME Region III
Mr. Kirkemo

HKirkemo/gla 9-5-68

July 17, 1968

Mr. John J. Kelley
MK Exploration Company
P. O. Box 323
Creede, Colorado 81130

Subject: OME-6742

Dear Mr. Kelley:

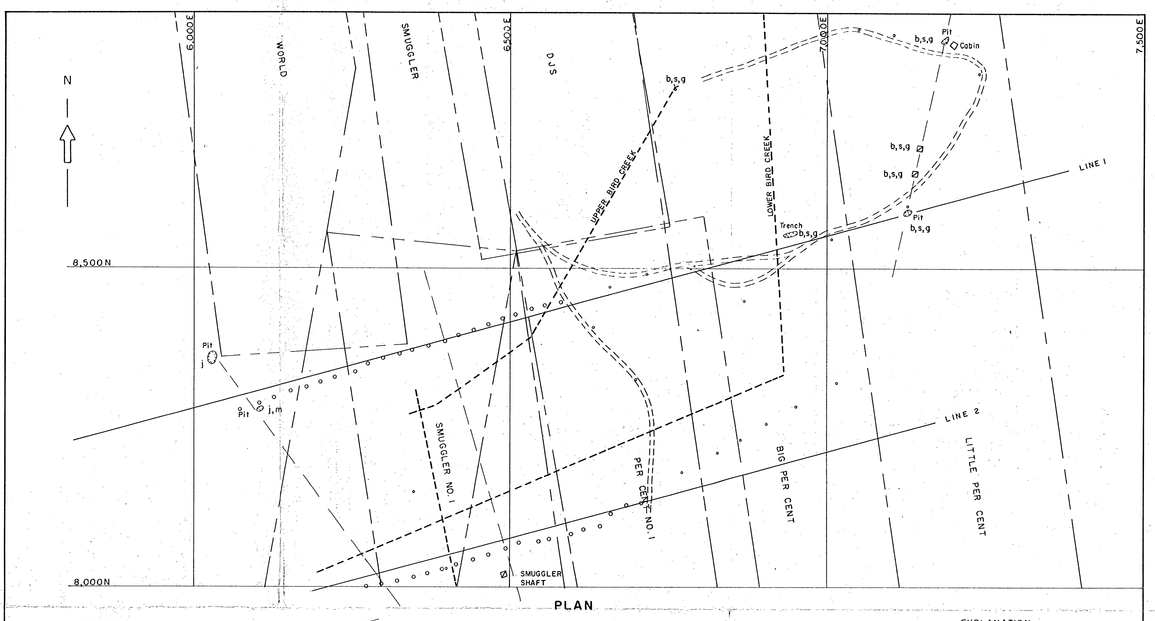
Your application for exploration assistance, dated June 18, 1968, submitted to our office at Washington, D. C., has been assigned Docket No. OME-6742.

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

Sincerely yours,

Frank E. Johnson
Chief, Office of
Minerals Exploration

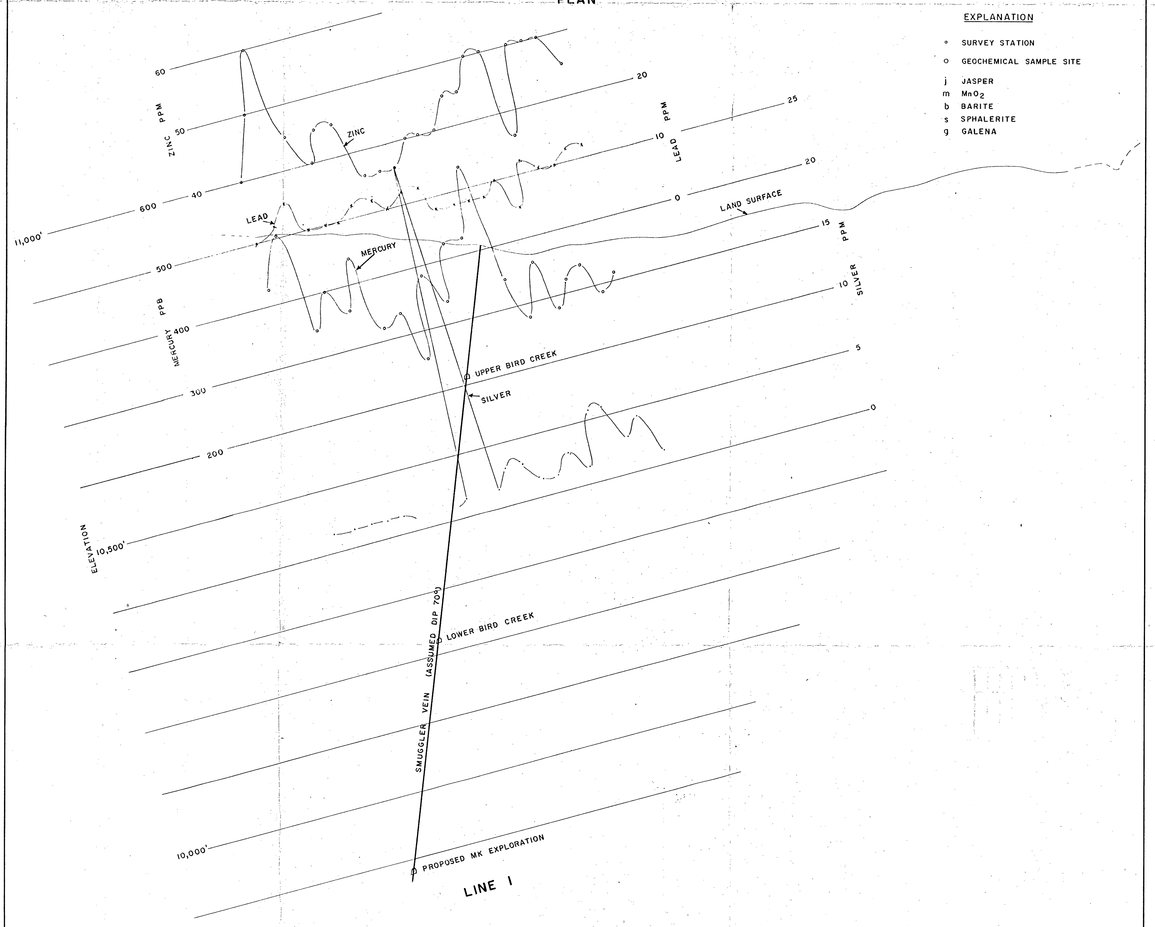
Copy to Region III with
copy of all attachments



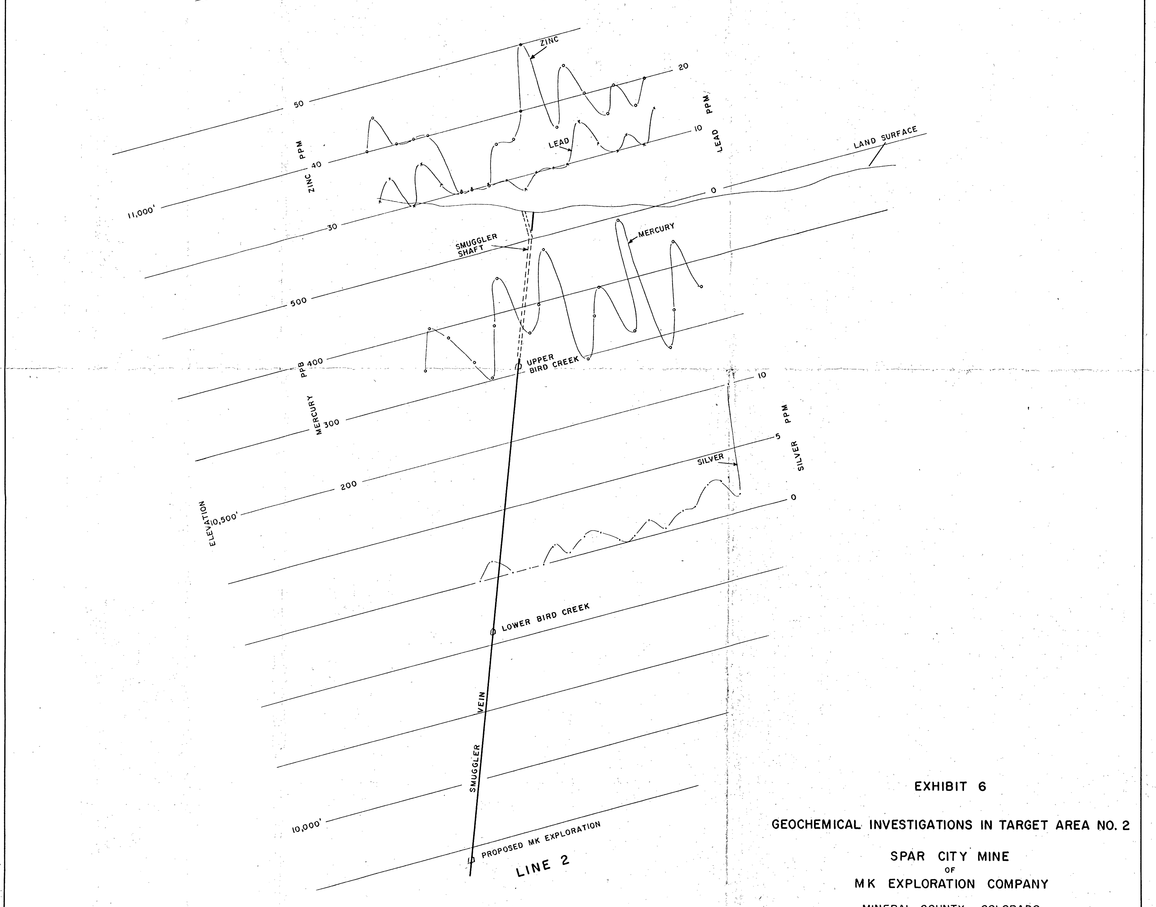
PLAN

EXPLANATION

- * SURVEY STATION
- o GEOCHEMICAL SAMPLE SITE
- j JASPER
- m MnO_2
- b BARITE
- s SPHALERITE
- g GALENA



LINE 1



LINE 2

EXHIBIT 6

GEOCHEMICAL INVESTIGATIONS IN TARGET AREA NO. 2

SPAR CITY MINE
OF
MK EXPLORATION COMPANY

MINERAL COUNTY, COLORADO

SCALES: HORIZONTAL, 1" = 100'
VERTICAL, AS SHOWN

JOHN J. KELLEY JUNE, 1967

EXPLANATION

Tc	Creede formation
Ts	Snowshoe Mtn. formation
— — —	Vein apex – observed, or inferred from drilling and mercury halo anomalies
═══	Tunnels and drifts, from Mineral Survey Plats and Bird Creek Mining Co. map
⊂⊃	Caved prospect workings
▬	1967–1968 underground development (See Exhibit 3 for geology)
▬	Proposed exploration drift and crosscuts

Approximate elevations interpreted from U.S.G.S. topographic quadrangle map, 1:62,500, 1957

See Final Report, OME-6440, Contract No. 2226, Jan., 1967, for geologic discussion and DDH logs

EXHIBIT 4

EXPLORATION PLAN AND GEOLOGIC MAP

SPAR CITY, COLORADO, PROPERTY

OF THE

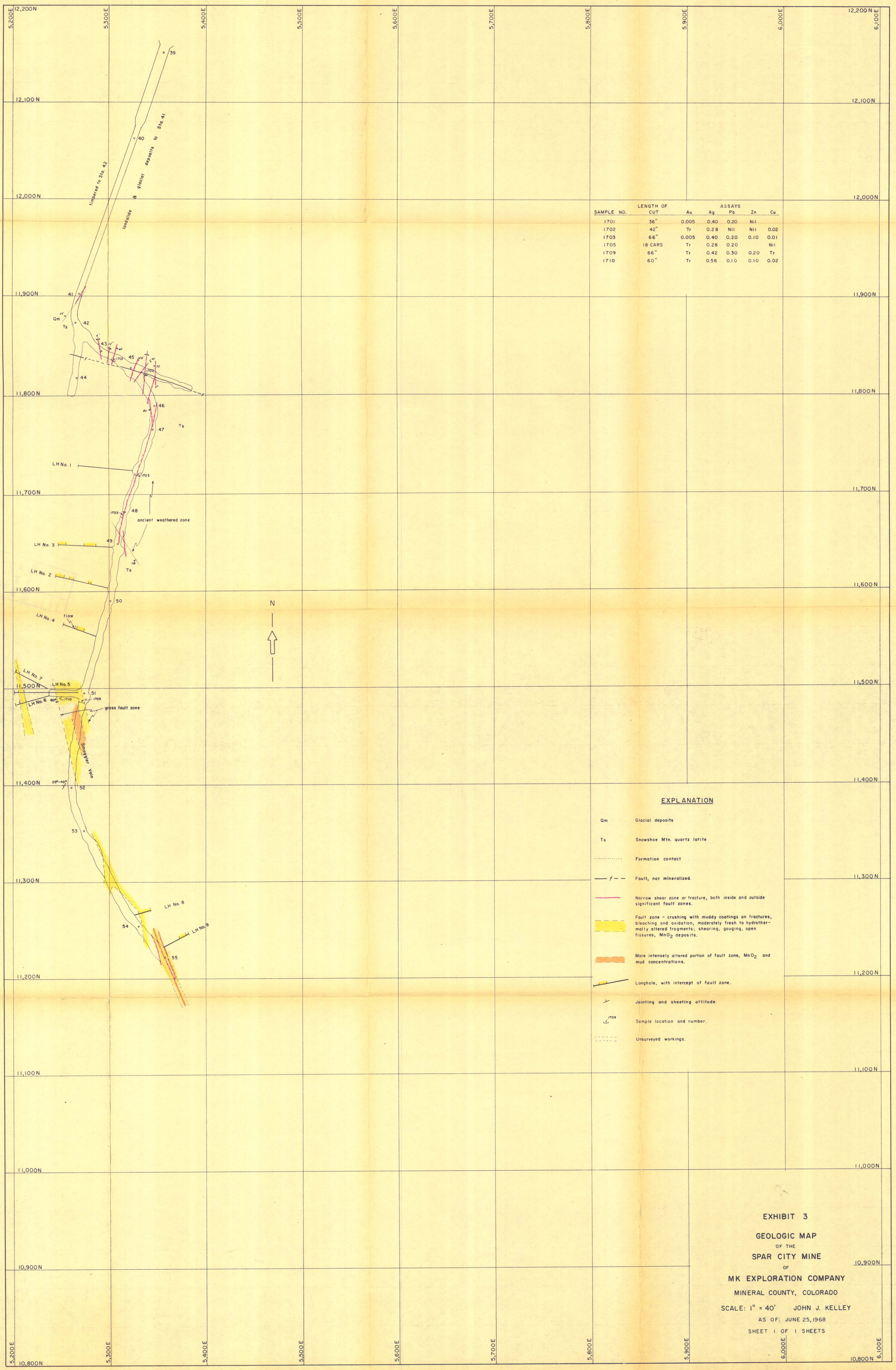
MK EXPLORATION COMPANY

SCALE: 1" = 100'

JOHN J. KELLEY FEBRUARY, 1967

TO ACCOMPANY OME APPLICATION

REVISED: JUNE, 1968



SAMPLE NO.	LENGTH OF CUT	ASSAYS Au	Ag	Pb	Zn	Cu
1701	36"	0.005	0.40	0.20	Nil	
1702	42"	Tr	0.28	Nil	Nil	0.02
1703	66"	0.005	0.40	0.20	0.10	0.01
1705	18 CARS	Tr	0.28	0.20		Nil
1709	66"	Tr	0.42	0.30	0.20	Tr
1710	60"	Tr	0.56	0.10	0.10	0.02