DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

## CONTROLLED DOCUMENT

DMA Docket No. 3148

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This document has been recorded as

Exploration Assistance

Any action taken to change the type of request for assistance must be promptly reported to the Reports and Records Branch. Use DMA Form 2 for submitting these reports.

1 copy to USBM, USGS and Region IV

Routing Slip

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| To: | Code 400 | Date | 8/27/53 |
| To: | Oper. Com. | Date | 9-2-53 |
| To: | Code 400 Rm 3538 | Date | 9-3-53 |
| To: | Oper Com. | Date | 10-19-53 |
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## CONTROLLED DOCUMENT

400

OCT 1 9 1953

3148-
Tung

Mr. Etienne A. Ritter, Vice-President
Industrial Gas Company, Inc.
604 Empire Building
Denver 2, Colorado

Re: Docket No. DMEA 3148 - Tungsten
Wilfley Group of claims
Park County, Colorado

Dear Mr. Ritter:

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

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

Careful study of all our information has indicated that the property covered by the subject application is identical with that on which an application was previously denied on July 27, 1953, under Docket No. DMEA 2941, Consolidated Tungsten Corp. No new evidence has been submitted to indicate that there has been any change since the field examination on May 1, 1953. Under these circumstances, we regret to advise you that your application is denied.

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

Sincerely yours,

Frank E. Johnson

ACTING Administrator

FARUTLEDGE:foc
10-14-53
cc: Docket
Code 400
Admr. Reading File
FT. Reg. 4
R. W. Geehan, USBM
T. P. Thayer, USGS

400

October 14, 1953

MEMORANDUM

TO: Administrator, DMEA

From: Iron and Ferro-Alloys Division

Subject: Denial of exploration assistance in the amount of $40,000.00
Docket No. DMEA 3148 - Tungsten
Industrial Gas Company, Inc.
Wilfley Group of claims
Park County, Colorado

The denial of the subject application by this Division is based on the following information:

1. The application is identical with that previously denied under Docket No. DMEA 2941 with the exception that five test pits have been eliminated in the present application. All other data and costs are the same.

2. No new evidence has been submitted by the applicant to indicate that there havebeen any changes since the field examination on May 1, 1953.

3. The Field Team recommends denial.

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

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

FARutledge:foc
10-14-53
cc: Docket
Code 400
Admr. Reading File

Memo should give
[illegible] for denial [illegible]
just refer to previous decision.
JEJ

SEP 2 1953

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

Re: Docket No. DMEA 3148 - Tungsten
Industrial Gas Company, Inc.
Wilfley Group of Claims
Park County, Colorado

Dear Mr. King:

Reference is made to the subject application for exploration assistance which is being referred to your office for an examination of the property.

Sincerely yours,

Ernest Wm. Ellis

ACTING Chairman, Operating Committee

APPROVED:

M. H. Kline

Member, Bureau of Mines

A. A. Kinkel, Jr.

Member, Geological Survey

JHopkins:foc
8-31-53
cc: Docket
Code 400
Operating Comm.
Adm. Reading File
FT. REG. 4
H. W. Geehan, USBM
Mary Miller, USGS

SEP 2 1953

Mr. Etienne A. Ritter, Vice-President
Industrial Gas Company, Inc.
604 Empire Building
Denver 2, Colorado

Re: Docket No. DMEA 3148 - Tungsten
Industrial Gas Company, Inc.
Wilfley Group of Claims
Park County, Colorado

Dear Mr. Ritter:

Your application for assistance in exploring a tungsten occurrence on the Wilfley Group of Claims in Park County, Colorado, has been reviewed by the Iron and Ferro-Alloys Division, DMEA, and has been referred to Mr. W. H. King, Executive Officer, DMEA Field Team, Region IV, 224 New Customhouse Building, Denver 2, Colorado, for further consideration and a field examination.

At the time a field examination is made of the property, any assistance that you can render the examining engineers will be appreciated.

Sincerely yours,

George C. Selfridge

ACTING Administrator

JHopkins:foc
8-31-53
cc: Docket
Code 400
FT. Reg. IV
Operating Comm.
Adm. Reading File
R. W. Geehan, USBM
Mary Miller, USGS

Department of the Interior
Defense Minerals Administration
RECEIVED
OCT - 5 1953

402

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

224 New Customhouse
Denver 2, Colorado

September 30, 1953.

WSM

Memorandum

To: Secretary to the Operating Committee, Defense Minerals Exploration Administration.

From: Field Team, Region IV

Subject: Geologic Report of Examination - DMEA Docket 3148 (Tungsten), Industrial Gas Company, Inc., Wilfley Group, Park County, Colorado.

Enclosed are the original and three copies of the geologic report pertaining to the above application.

A review of this application shows that it is identical with DMEA Docket 2941 with the exception that five test pits proposed in the earlier application are not included in the present request for exploration assistance.

No new evidence has been submitted by the applicant that there has been any change since the field examination on May 1, 1953 and we recommend that the application be denied.

W. H. King
W. H. King
Field Team, Region IV

A. H. Koschmann
A. H. Koschmann
Field Team, Region IV

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
10-9-53
(date)

September 16, 1953

Memorandum

To: A. H. Koschmann A.H.K.

From: E. N. Harshman

Subject: DMEA Docket 3148 (tungsten), Industrial Gas Company, Inc., Wilfley Group, Park County, Colorado

The Industrial Gas Company, Incorporated, 604 Empire Building, Denver 2, Colorado, has applied for Government assistance, DMEA Docket 3148, to explore for scheelite on the Jasper Queen claim of the Wilfley Group, Park County, Colorado.

A review of this application shows that it is identical with a proposal to explore the Jasper Queen claim submitted previously (DMEA Docket 2941) with the exception that 5 test pits proposed in the earlier application are not included in the present request.

Etienne A. Ritter as vice-president of Consolidated Tungsten Corporation filed the original application (DMEA Docket 2941) and as vice-president of the Industrial Gas Company, Incorporated, filed the present application (DMEA Docket 3148). Both companies have the same mailing address.

The Jasper Queen claim, and the other claims in the Wilfley Group, were examined on May 1, 1953, and a geologic report was prepared (DMEA Docket 2941). Since no new evidence is presented by the applicant, it appears that the former conclusions are still valid and that a field examination is not required.

It is therefore recommended that the application of the Industrial Gas Company, Incorporated, for exploration assistance to explore for tungsten on the Wilfley Group (DMEA Docket 3148) be denied.

Reviewed by
DMEA OPERATING COMMITTEE

10-9-53
(date)

MF-103
(Revised April 1952)

# UNITED STATES DEPARTMENT OF THE INTERIOR
## DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

400

Department of the Interior
Defense Minerals Administration
RECEIVED
AUG 27 1953

# 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. DMEA ~~3128~~ 3148
Metal or Mineral
Date Received 8-27-53
Estimated Cost
Participation (Government %)

## INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: Industrial Gas Co., Inc. a Nevada Corporation

604 Empire Building, Denver 2, Colorado

(*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 Seven patented Lode Mining Claims (See detailed information attached).

(*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 A Lease with option to purchase (See information attached).

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

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

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

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

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

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

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

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

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

.....

(*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 ..... days and be completed within ..... months from the date of an exploration project contract.

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

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

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

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

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

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

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

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

(*g*) *Miscellaneous.*—Furnish a detailed list showing the cost of repairs to and maintenance of operating equipment (not including initial rehabilitation or repairs of the Operator's equipment), analytical work, accounting, workmen's compensation and employers' liability insurance, and payroll taxes.

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

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

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

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

☐ 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 August 6, 1953, 195...

Industrial Gas Co., Inc. Nevada Corporation

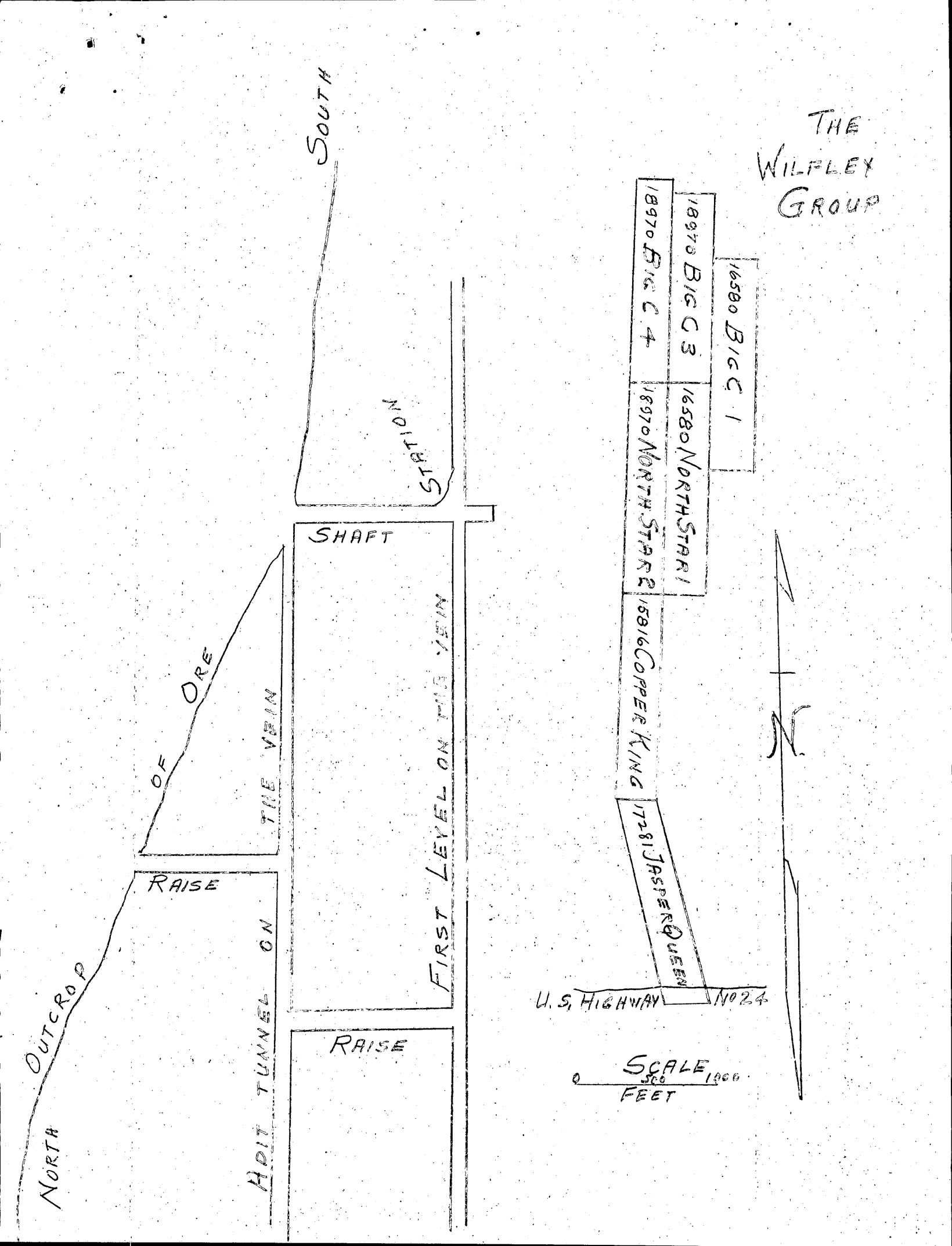
(Applicant)

By Etienne A. Ritter

Etienne A. Ritter, Vice-President

**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 WILFLEY GROUP
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STATION
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NORTH
ADIT TUNNEL ON
RAISE
16580 BIG C 1
18970 BIG C 3
18970 BIG C 4
16580 NORTH STAR 1
18970 NORTH STAR 2
15816 COPPER KING
17281 JASPER QUEEN
U. S. HIGHWAY No 24
SCALE
0 500 1000
FEET

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

Not to be filed by applicant
Docket No. _____
Metal or mineral _____
Date received _____
Estimated cost _____
Participation (Government)% _____

INSTRUCTIONS

1. Name of applicant. (a) Industrial Gas Co., Inc. incorporated under the laws of Nevada.
(b) President - Charles W. Swift, 4631 Langdon Avenue, Sherman Oaks, California, Vice-President- Etienne A. Ritter, 604 Empire Building, Denver 2, Colorado. Secretary-Treasurer, C. George Swallow, 791 Troy Street, Hoffman Heights, Denver 8, Colorado,

3. Applicants property rights. (a) A Lease and Option to Purchase, copy given under letter (d).
(b) The claim on which the work will be done will be the Jasper Queen Lode, U.S. Min. Surv. No. 17281, in T. 12 S., R. 72 W., in Park County, Colorado.
(c) Copy of the Lease and Option to Purchase given under:
(d) This Agreement of Lease and Option to Purchase entered into this 25th day of July, A.D. 1953, by and between Robert D. Wilfley and Amy F. Wilfley, of the City of Colorado Springs, County of El Paso, State of Colorado, parties of the first part, Hereinafter called LESSORS, and Industrial Gas Co., Inc., a Nevada Corporation, party of the second part, hereinafter called LESSEE,

WITNESSETH:

Lessors, for and in consideration of the sum of one Dollar, in hand paid, receipt of which is hereby acknowledged, and of the covenants and agreements hereby contained to be kept and performed by the Lessee, and of the payments herein agreed to be paid by the lessee to the lessors, have let, demised and leased, and by these presents do let, demise and lease unto the said lessee, its successors and assigns, all of the following described Lode Mining Claims, situate in the Tarryall Springs, Mining District, County of Park, State of Colorado, to wit:

| | | |
|---|---|---|
| The Big C. No. 1 Lode, U. S. Min Surv. No. | | 16580 |
| The North Star No. 1 | " | 16580 |
| The Big C. No. 3 | " | 18970 |
| The Big C No. 4 | " | 18970 |
| The North Star No. 2 | " | 18970 |
| The Jasper Queen | " | 17281 |
| The Copper King | " | 15816 |

together with the right and option to purchase said Lode Mining Claims on the following terms and conditions:

1. The purchase price for said claims shall be the sum of Fourteen Thousand Dollars ($ 14,000.00), to be paid in the manner following: One thousand dollars ($ 1,000.00) on or before sixty (60) days from the date hereof, for which sum lessee agrees to execute its promissory note payable to the order of lessors, or the survivor of them, at the Exchange National Bank of Colorado Springs, Colorado, with interest at the rate of six per centum (6%) per annum; Five Thousand Dollars ($ 5,000.00) on or before October 15, 1954; and Eight Thousand Dollars ($ 8,000.00) on or before October 15, 1955. On payment of the total purchase price within the time and in the manner aforesaid, lessors agree to deliver a Mining Deed conveying said Claims free and clear of all encumbrances to lessee. If any payments herein called for are not made by the lessee within the time herein specified, lessors may at their option terminate this agreement and all sums heretofore paid hereunder shall be kept and retained by them as rental or royalty payments for the privilege of operating said Claims.

2. Lessee agrees to commence operating said Claims within one hundred and twenty days from the date hereof (unless it exercises the further option hereinafter contained) and to pay lessors a royalty of ten per cent (10%) on all ores or concentrates made from ores shipped and sold from said Lode Mining Claims, and such royalty payments are to apply on the purchase price for said claims.

3. Lessee agrees to carry compensation insurance and to post in a conspicuous place a notice that lessors are not to be held responsible for any expenditures incurred for materials furnished or labor performed on the above described premises. Lessee agrees to comply with all the laws, rules and regulations of the United States and of the State of Colorado governing mining operations.

4. Lessee agrees to allow lessors or their representative to inspect the work done by lessee at all reasonable hours.

5. It is mutually understood and agreed between lessee and lessors that all taxes levied on the output of the ores mined from said demised premises shall be paid by the respective parties hereto in proportion to the sale returns received, respectively, by them.

6. In the event lessee fails to pay the above mentioned royalty or to keep and fulfill any and all of the agreements herein expressed or implied, lessors shall notify lessee in writing of such default and in the event lessee fails to remedy such default within thirty (30) days, then, in that event, it shall be lawful for lessors, their agent or attorney, to declare this lease void and of no effect, and with or without process of law, to enter and take possession of the above described Lode Mining Claims and premises.

7. At the termination of this lease, whether voluntarily or by forfeiture, lessee shall have thirty (30) days to remove any machinery or personal property placed by it on the leased claims and premises.

8. The privilege of assignment of this lease and option is acknowledged by lessors and the terms contained herein are binding on the heirs, executors, administrators, successors and assigns of the parties hereto.

9. All other conditions and covenants herein contained to the contrary notwithstanding, lessee is hereby given the option of purchasing said claims for the total sum of six thousand dollars ($ 6,000.00) if paid on or before ninety (90) days from the date hereof.

IN TESTIMONY WHEREOF, lessors have subscribed their names hereto and lessee has caused its corporate name to be hereunto subscribed by its President and its seal to be hereunto affixed by its Secretary, the day and year first above written.

July 25th 1953

Robert D. Wilfley
Amy F. Wilfley
LESSORS

INDUSTRIAL GAS CO., INC.

By _____

SEAL

Attest _____
Secretary

Notarial Acknowledgment

4. Physical Description. (a) No mining or exploration operations are now being conducted upon the land.

There is an ore body in a vein 4 feet wide, which outcrops on the side of a hill for an horizontal distance of 300 feet and a difference in elevation of approximately 140 feet between the lower and the upper end of the outcrop of the ore body.

(b) Approximately 16 tons of ore were taken right at the surface of the ground, out of the outcrop of the ore body. Four tons were culled out and remain now on the ground as a waste pile. Twelve tons were thus sorted and were shipped to the U.S. Minerals Reserve Corporation to Boulder, Colorado, in April 1944 and were settled for on a basis of 1.1% tungsten trioxide ($WO_3$) contained in them.

(c) There are no workings at all.

The sketch profile added to this application shows the program of development which we desire to undertake.

The ore is in a well defined fissure vein cutting through the crystalline schists and gneisses of the pre-Cambrian. The vein on the Jasper Queen claim is only one of quite a number of veins of the same character which have been opened up by shallow shafts of from 10 to 30 feet in depth in an area of a few square miles. These veins vary in width from 2 to 8 feet; they are nearly vertical. They cut indifferently through the various kinds of rocks which constitute the pre-Cambrian complex.

They are found often close to, but not genetically connected with, dikes of pegmatite. As a wild guess, not based on any positive proof, I believe these ores to be of the same age as those of the tungsten deposits of Boulder County, Colorado.

Some of the veins have been followed on their outcrops for distances of from a few hundred to a maximum distance of fifteen hundred feet. The area is park-like, with gramma grass covering everything and clusters of pine trees quite numerous.

The gangue of the veins is made of quartz, garnet, epidote and magnetite and in many instances quartz and garnet form most of the gangue and appear to be in nearly equal amounts.

The scheelite is found mostly in crystals disseminated through the gangue and in grains varying from 1/60th to 1/10th of an inch. Exceptionally crystals of scheelite 1 inch in diameter are found. Occasionally also, the scheelite occurs in narrow and net long. However, as only a few pits, cutting the ores at their outcrops, have been exposed, these remarks are somewhat superficial. Assays taken on several of these outcrops have varied from 0.01 to 1.5 % tungsten trioxide, when taken across the widths of the outcrops.

In the special case of the outcrop of the Jasper Queen vein, for the development of which this application is made, my own opinion is that the shipment of 12 tons recovered from the length of the outcrop of the ore body exposed there gives the best idea of the value of the ore at the present time.

(d) The property is located 26 miles from Cripple Creek, of which 8 miles are on the State highway No. 143 and 18 miles on the U.S. paved highway No. 24, from Colorado Springs to Salida. It is 30 miles from Colorado Springs, the nearest railroad point.

(e) It is expected that the miners with their houses in Cripple Creek can drive to their work on this property in less than 40 minutes. Cripple Creek has available all normal mining supplies. There is no water and no power available on the property. The water will require the erecting of a water tank and the water will have to be hauled from Lake George, 4 miles away. For power it will be necessary to use Diesel engines.

5. The Exploration project.

(a) The Mineral is scheelite, a calcium tungstate, ore of tungsten.

(b) At the start of operations, we propose to erect a building with a hoist and compressor room, a blacksmith's shop and an office. It will be located west of the vein. The ore bins will be located east of the vein.

For the exploration work, we propose to drive an adit tunnel starting at the lower point of exposure of the outcrop of the ore body and to drive on the vein 300 feet.

At a point 160 feet from the portal of the tunnel a raise will be driven to the surface a distance of approximately 65 feet. (See sketch attached.) As the walls of the vein are made of pre-Cambrian gneisses, they stand up. We hope that it will be possible to mine the vein above the adit tunnel by the "glory-hole method. The ore will be drawn out of a chute at the bottom of the raise and trammed through the adit tunnel to the ore bins.

We plan to sink a shaft 4½ x 9 feet in the clear, with two compartments to a depth of 115 feet below the adit tunnel. At a depth of 100 feet levels will be driven to explore the vein at that depth.

(c) The work will start within 15 days and be completed within approximately five months from the date of the exploration project contract.

(d) The work will be under the management of Etienne A. Ritter. He is a registered mining engineer from the State of Colorado and a member of the American Institute of Mining and Metallurgical Engineers. For the last 30 years he has had his own office in the Empire Building, Denver 2, Colorado, and during that time has been connected as an engineer with mining operations in Teller, Gilpin, San Juan, Park and Gunnison Counties, Colorado.

6. Estimate of costs.

(a) No independent contract.

(b) Salary of a manager @ $ 300 per month and of a mine foreman @ $ 350 per month. Hoist man, miners as drillers and muckers will be paid $ 15 per shift of 8 hours (5 days) and half time for overtime for 1 day. No work on Sunday.

ESTIMATED COST OF THE CONTEMPLATED WORK.

| | | |
|---|---|---|
| An open-cut to reach a face of 10 feet at the portal of the adit tunnel | $ 500 | |
| Driving 300 feet of the adit tunnel @ $ 20 per foot | 6,000 | |
| Raising 65 feet | 600 | |
| Sinking 115 feet of shaft @ $ 70 per foot | 8,050 | |
| Cutting a station at the 100 ft. level | 250 | |
| Crosscutting 10 feet and drifting 300 ft. @ $ 20 per foot | 6,200 | |
| Total | | $ 21,600 |
| (c) A water tank will be built on the ground | | 200 |

The water will be hauled from Lake George by contract if possible. Power will be by Diesel engines, coupled with the hoist, air-compressor, etc...

| | | |
|---|---|---|
| Reported from preceeding page | | $ 21,500 |
| | | 200 |
| (d) A hoist with rope and bucket | $ 3,500 | |
| An air-compressor | 4,500 | |
| Machine drills and steel | 2,000 | |
| Air tank | 200 | |
| Mine cars | 600 | |
| Rails and ties | 500 | |
| Material for the blacksmith's shop and small tools | 500 | |
| Total | | 11,800 |
| (e) No rehabilitation and repairs | | |
| (f) Building for the hoist and air-compressor, blacksmith's shop and office | | |
| Lumber | $ 460 | |
| Windows, doors, elaterite, etc.. | 240 | |
| Desk, chairs for office, etc.. | 80 | |
| Supplies for the backsmith's shop | 60 | |
| Labor | 1,100 | |
| Lumber for Galloss frame | 120 | |
| Iron rods | 40 | |
| Labor | 340 | |
| Total | | 2,440 |
| (e) Ore sorting building | | |
| Lumber | $ 130 | |
| conveyor belt | 450 | |
| labor | 220 | |
| Ore bins | 900 | |
| Material | | |
| Labor | 1,200 | |
| | | 2,900 |
| (g) None | | |
| (h) Contingencies | | 1,060 |
| | Total | $ 40,000 |

We do not know if we have given sufficient information in detail regarding the cost of material to be purchased. We know that when we have the cash in hand and are ready to pay for the machinery, we can buy some excellent second-hand machinery at figures that we cannot furnish in this estimate.

We are prepared to submit, when the time comes, all estimates and bills for machinery for the approval of each separate item by the Supervising Engineer of the Bureau of Mines in charge of supervising our operation, before making any purchase.

7. Are you prepared to furnish your share of the cost.

(a) We are prepared to furnish 25 % of the share of the cost, according to the regulations on Government participation. (See7 MDFA No. 1

(b) We propose to furnish our share with cash in the bank.

---

FILE COPY
SURNAME:
400

Rutledge
Martin
Geehan
Thayer
Hodges
Selfridge

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

OCT 19 1953

Mr. Etienne A. Ritter, Vice-President
Industrial Gas Company, Inc.
604 Empire Building
Denver 2, Colorado

Re: Docket No. DMEA 3148 - Tungsten
Wilfley Group of claims
Park County, Colorado

Dear Mr. Ritter:

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

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

Careful study of all our information has indicated that the property covered by the subject application is identical with that on which an application was previously denied on July 27, 1953, under Docket No. DMEA 2941, Consolidated Tungsten Corp. No new evidence has been submitted to indicate that there has been any change since the field examination on May 1, 1953. Under these circumstances, we regret to advise you that your application is denied.

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

FARUTLEDGE:foc
10-14-53
cc: Docket
Code 400
Admr. Reading File
FT. Reg. 4
R. W. Geehan, USBM
T. P. Thayer, USGS
Operating Committee

Sincerely yours,

Frank E. Johnson (fwo)

ACTING Administrator

R.C. 10-19-53

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

October 14, 1953

MEMORANDUM

TO: Administrator, DMEA

From: Iron and Ferro-Alloys Division

Subject: Denial of exploration assistance in the amount of $40,000.00
Docket No. DMEA 3148 - Tungsten
Industrial Gas Company, Inc.
Wilfley Group of claims
Park County, Colorado

The denial of the subject application by this Division is based on the following information:

1. The application is identical with that previously denied under Docket No. DMEA 2941 with the exception that five test pits have been eliminated in the present application. All other data and costs are the same.

2. No new evidence has been submitted by the applicant to indicate that there have been any changes since the field examination on May 1, 1953.

3. The Field Team recommends denial.

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

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

FILE COPY
SURNAME:

400

Rutledge
Martin
Gerhan

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

October 14, 1953

MEMORANDUM

TO: Administrator, DMEA

From: Iron and Ferro-Alloys Division

Subject: Denial of exploration assistance in the amount of $40,000.00
Docket No. DMEA 3148 - Tungsten
Industrial Gas Company, Inc.
Wilfley Group of claims
Park County, Colorado

The denial of the subject application by this Division is based on the following information:

1. The application is identical with that previously denied under Docket No. DMEA 2941 with the exception that five test pits have been eliminated in the present application. All other data and costs are the same.

2. No new evidence has been submitted by the applicant to indicate that there have been any changes since the field examination on May 1, 1953.

3. The Field Team recommends denial.

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

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

FARutledge:foc
10-14-53
cc: Docket
Code 400
Admr. Reading File

R.C.G.
10-19-53

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT - 5 1953

224 New Customhouse
Denver 2, Colorado

September 30, 1953.

Memorandum

To: Secretary to the Operating Committee, Defense Minerals Exploration Administration.

From: Field Team, Region IV

Subject: Geologic Report of Examination - DMEA Docket 3148 (Tungsten), Industrial Gas Company, Inc., Wilfley Group, Park County, Colorado.

Enclosed are the original and three copies of the geologic report pertaining to the above application.

A review of this application shows that it is identical with DMEA Docket 2941 with the exception that five test pits proposed in the earlier application are not included in the present request for exploration assistance.

No new evidence has been submitted by the applicant that there has been any change since the field examination on May 1, 1953 and we recommend that the application be denied.

W H King
W. H. King
Field Team, Region IV

A. H. Koschmann
A. H. Koschmann
Field Team, Region IV

Enclosures

Cleared OC
10-9-53
J.A.R.

September 16, 1953

Memorandum

Reviewed by
DMEA OPERATING COMMITTEE
10-9-53
(date)

To: A. N. Koschmann A.N.K.

From: E. N. Harshman

Subject: DMEA Docket 3148 (tungsten), Industrial Gas Company, Inc., Wilfley Group, Park County, Colorado

The Industrial Gas Company, Incorporated, 604 Empire Building, Denver 2, Colorado, has applied for Government assistance, DMEA Docket 3148, to explore for scheelite on the Jasper Queen claim of the Wilfley Group, Park County, Colorado.

A review of this application shows that it is identical with a proposal to explore the Jasper Queen claim submitted previously (DMEA Docket 2941) with the exception that 5 test pits proposed in the earlier application are not included in the present request.

Etienne A. Ritter as vice-president of Consolidated Tungsten Corporation filed the original application (DMEA Docket 2941) and as vice-president of the Industrial Gas Company, Incorporated, filed the present application (DMEA Docket 3148). Both companies have the same mailing address.

The Jasper Queen claim, and the other claims in the Wilfley Group, were examined on May 1, 1953, and a geologic report was prepared (DMEA Docket 2941). Since no new evidence is presented by the applicant, it appears that the former conclusions are still valid and that a field examination is not required.

It is therefore recommended that the application of the Industrial Gas Company, Incorporated, for exploration assistance to explore for tungsten on the Wilfley Group (DMEA Docket 3148) be denied.

400

FILE COPY
SURNAME:

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

Hopkins
Rutledge
Kelley
Miller
Ellis
Kunkel
King
Selfridge

SEP 2 1953

Mr. Etienne A. Ritter, Vice-President
Industrial Gas Company, Inc.
604 Empire Building
Denver 2, Colorado

Re: Docket No. DMEA 3148 - Tungsten
Industrial Gas Company, Inc.
Wilfley Group of Claims
Park County, Colorado

Dear Mr. Ritter:

Your application for assistance in exploring a tungsten occurrence on the Wilfley Group of Claims in Park County, Colorado, has been reviewed by the Iron and Ferro-Alloys Division, DMEA, and has been referred to Mr. W. H. King, Executive Officer, DMEA Field Team, Region IV, 224 New Customhouse Building, Denver 2, Colorado, for further consideration and a field examination.

At the time a field examination is made of the property, any assistance that you can render the examining engineers will be appreciated.

Sincerely yours,

George C. Selfridge (for)
ACTING Administrator

JHopkins:foc
8-31-53
cc: Docket
Code 400
FT. Reg. IV
Operating Comm.
Adm. Reading File
R. W. Geehan, USBM
Mary Miller, USGS

R.C.G.
9-2-53

FILE COPY
SURNAME:

400

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

SEP 2 1953

Hopkins
Rutledge
Mulder
Miller
Ellis
Knight
Selfridge

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

Re: Docket No. DMEA 3148 - Tungsten
Industrial Gas Company, Inc.
Wilfley Group of Claims
Park County, Colorado

Dear Mr. King:

Reference is made to the subject application for exploration assistance which is being referred to your office for an examination of the property.

Sincerely yours,

Ernest Wm. Ellis
857

ACTING Chairman, Operating Committee

APPROVED:

M. H. Kline
857
Member, Bureau of Mines

A. R. Kinkel, Jr.
857
Member, Geological Survey

JHopkins:foc
8-31-53
cc: Docket
Code 400
Operating Comm.
Adm. Reading File
FT. REG. 4
H. W. Geehan, USBM
Mary Miller, USGS

R.C.S.
9-2-53

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

August 27, 1953

Industrial Gas Company, Inc.
604 Empire Building
Denver 2, Colorado

Subject: DMEA-3148
Re: Exploration Assistance
Jasper Queen Load

My dear Mr. Ritter

The receipt of your application dated 8/6/1953 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-3148 and referred to the Iron and Ferro Alloys Division.

Kindly refer to DMEA-3148 in any future correspondence relating to your application.

Sincerely yours,

ROBERT E. ADAMS

Robert E. Adams

WILLIAM L. LLOYD
ATTORNEY AND COUNSELOR AT LAW
501-508 THATCHER BUILDING
PUEBLO, COLORADO

August 26, 1953

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 27 1953

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

RE: APPLICATION OF INDUSTRIAL GAS CO., INC., A NEVADA CORPORATION.

Dear Sir:

I am enclosing herewith Application for Aid in an Exploration Project, Pursuant to DMEA Order 1, under the Defense Production Act of 1950, as Amended, in quadruplicate.

I would appreciate if you would wire me collect the Docket number assigned this application as soon as you have received and filed the same.

As references to my idenity I can refer you to Mr. James Parriott and Mr. James D. Geissinger, Assistant Solicitors in the Department of Interior, Washington, D. C. and also to Senator Millikin or anyone in his administrative office.

Thank you for your co-operation in this matter, I am

Sincerely yours,

William L. Lloyd

WILLIAM L. LLOYD

WLL:SJC

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

Defense Minerals Administration
RECEIVED
AUG 27 1953

# 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. DMEA-3148
Metal or Mineral
Date Received 8-27-53
Estimated Cost
Participation (Government %)

## INSTRUCTIONS

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

Industrial Gas Co., Inc. a Nevada Corporation

604 Empire Building, Denver 2, Colorado

(*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

Seven patented Lode Mining Claims (See detailed information attached).

(*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 A Lease with option to purchase (See information attached).

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

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

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

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

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

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

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

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

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

.....

(*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 ..... days and be completed within ..... months from the date of an exploration project contract.

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

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

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

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

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

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

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

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

(*g*) *Miscellaneous.*—Furnish a detailed list showing the cost of repairs to and maintenance of operating equipment (not including initial rehabilitation or repairs of the Operator's equipment), analytical work, accounting, workmen's compensation and employers' liability insurance, and payroll taxes.

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

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

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

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

☐ 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 August 6, 1953, 195...

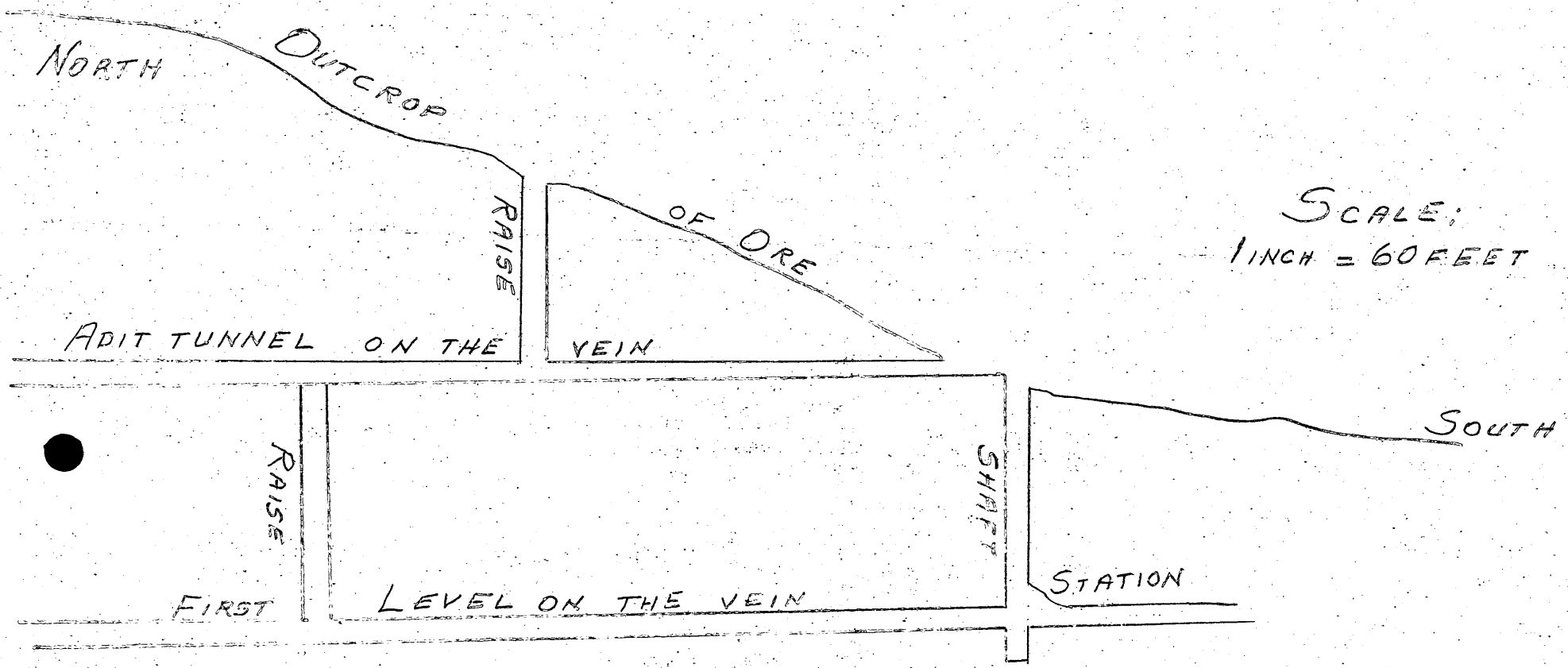
Industrial Gas Co., Inc. Nevada Corporation
(Applicant)

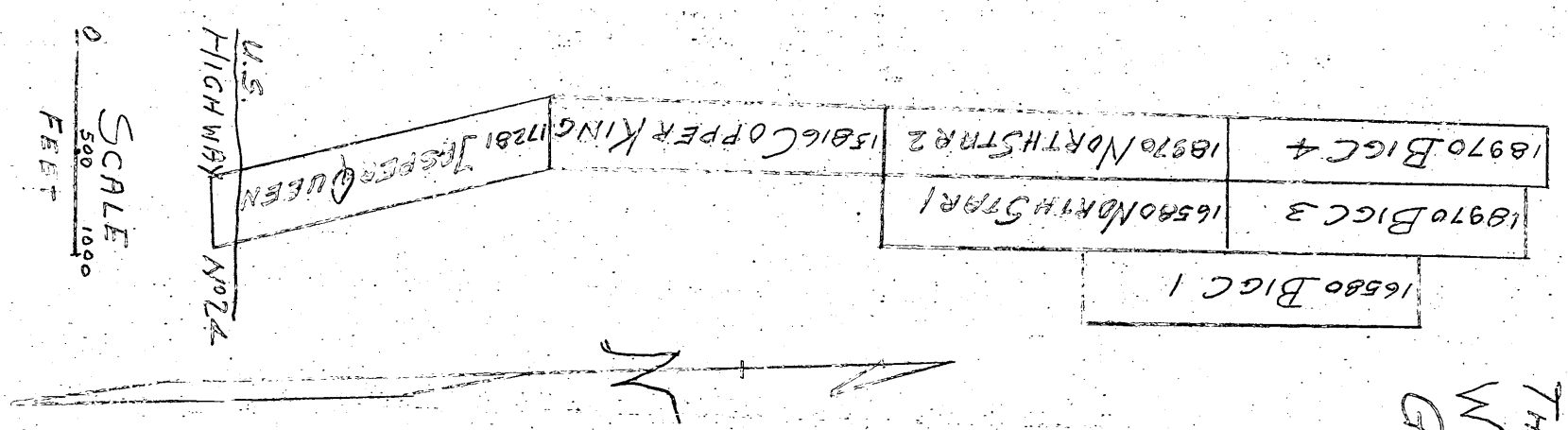
By Etienne A. Ritter

Etienne A. Ritter, Vice-President

**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 WILFLEY GROUP

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER1, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

Not to be filed by applicant
Docket No. _____
Metal or mineral _____
Date received _____
Estimated cost _____
Participation (Government)%

INSTRUCTIONS

1. Name of applicant. (a) Industrial Gas Co., Inc. incorporated under the laws of Nevada.
(b) President - Charles W. Swift, 4631 Langdon Avenue, Sherman Oaks, California, Vice-President- Etienne A. Ritter, 604 Empire Building, Denver 2, Colorado. Secretary-Treasurer, C. George Swallow, 791 Troy Street, Hoffman Heights, Denver 8, Colorado,

3. Applicants property rights. (a) A Lease and Option to Purchase, copy given under letter (d).
(b) The claim on which the work will be done will be the Jasper Queen Lode, U.S. Min. Surv. No. 17281, in T. 12 S., R. 72 W., in Park County, Colorado.
(c) Copy of the Lease and Option to Purchase given under:
(d) This Agreement of Lease and Option to Purchase entered into this 25th day of July, A.D. 1953, by and between Robert D. Wilfley and Amy F. Wilfley, of the City of Colorado Springs, County of El Paso, State of Colorado, parties of the first part, Hereinafter called LESSORS, and Industrial Gas Co., Inc., a Nevada Corporation, party of the second part, hereinafter called LESSEE,

WITNESSETH:

Lessors, for and in consideration of the sum of one Dollar, in hand paid, receipt of which is hereby acknowledged, and of the covenants and agreements hereby contained to be kept and performed by the Lessee, and of the payments herein agreed to be paid by the lessee to the lessors, have let, demised and leased, and by these presents do let, demise and lease unto the said lessee, its successors and assigns, all of the following described Lode Mining Claims, situate in the Tarryall Springs, Mining District, County of Park, State of Colorado, to wit:

| | | |
|---|---|---|
| The Big C. No. 1 Lode, | U. S. Min Surv. No. | 16580 |
| The North Star No. 1 | " " | 16580 |
| The Big C. No. 3 | " " | 18970 |
| The Big C No. 4 | " " | 18970 |
| The North Star No. 2 | " " | 18970 |
| The Jasper Queen | " " | 17281 |
| The Copper King | " " | 15816 |

together with the right and option to purchase said Lode Mining Claims on the following terms and conditions:

1. The purchase price for said claims shall be the sum of Fourteen Thousand Dollars ($ 14,000.00), to be paid in the manner following: One thousand dollars ($ 1,000.00) on or before sixty (60) days from the date hereof, for which sum lessee agrees to execute its promissory note payable to the order of lessors, or the survivor of them, at the Exchange National Bank of Colorado Springs, Colorado, with interest at the rate of six per centum (6%) per annum; Five Thousand Dollars ($ 5,000.00) on or before October 15, 1954; and Eight Thousand Dollars ($ 8,000.00) on or before October 15, 1955. On payment of the total purchase price within the time and in the manner aforesaid, lessors agree to deliver a Mining Deed conveying said Claims free and clear of all encumbrances to lessee. If any payments herein called for are not made by the lessee within the time herein specified, lessors may at their option terminate this agreement and all sums heretofore paid hereunder shall be kept and retained by them as rental or royalty payments for the privilege of operating said Claims.

2. Lessee agrees to commence operating said Claims within one hundred and twenty days from the date hereof (unless it exercises the further option hereinafter contained) and to pay lessors a royalty of ten per cent (10%) on all ores or concentrates made from ores shipped and sold from said Lode Mining Claims, and such royalty payments are to apply on the purchase price for said claims.

3. Lessee agrees to carry compensation insurance and to post in a conspicuous place a notice that lessors are not to be held responsible for any expenditures incurred for materials furnished or labor performed on the above described premises. Lessee agrees to comply with all the laws, rules and regulations of the United States and of the State of Colorado governing mining operations.

4. Lessee agrees to allow lessors or their representative to inspect the work done by lessee~~s~~ at all reasonable hours.

5. It is mutually understood and agreed between lessee and lessors that all taxes levied on the output of the ores mined from said demised premises shall be paid by the respective parties hereto in proportion to the sale returns received, respectively, by them.

6. In the event lessee fails to pay the above mentioned royalty or to keep and fulfill any and all of the agreements herein expressed or implied, lessors shall notify lessee in writing of such default and in the event lessee fails to remedy such default within thirty (30) days, then, in that event, it shall be lawful for lessors, their agent or attorney, to declare this lease void and of no effect, and with or without process of law, to enter and take possession of the above described Lode Mining Claims and premises.

7. At the termination of this lease, whether voluntarily or by forfeiture, lessee shall have thirty (30) days to remove any machinery or personal property placed by it on the leased claims and premises.

8. The privilege of assignment of this lease and option is acknowledged by lessors and the terms contained herein are binding on the heirs, executors, administrators, successors and assigns of the parties hereto.

9. All other conditions and covenants herein contained to the contrary notwithstanding, lessee is hereby given the option of purchasing said claims for the total sum of six thousand dollars ($ 6,000.00) if paid on or before minety (90) days from the date hereof.

IN TESTIMONY WHEREOF, lessors have subscribed their names hereto and lessee has caused its corporate name to be hereunto subscribed by its President and its seal to be hereunto affixed by its Secretary, the day and year first above written.

July 25th 1953

Robert D. Wilfley
Amy F. Wilfley
LESSORS

INDUSTRIAL GAS CO., INC.

By _____

SEAL

Attest _____
Secretary

Notarial Acknowledgment

4. Physical Description. (a) No mining or exploration operations are now being conducted upon the land.

There is an ore body in a vein 4 feet wide, which outcrops on the side of a hill for an horizontal distance of 300 feet and a difference in elevation of approximately 140 feet between the lower and the upper end of the outcrop of the ore body.

(b) Approximately 16 tons of ore were taken right at the surface of the ground, out of the outcrop of the ore body. Four tons were culled out and remain now on the ground as a waste pile. Twelve tons were thus sorted and were shipped to the U.S. Minerals Reserve Corporation to Boulder, Colorado, in April 1944 and were settled for on a basis of 1.1% tungsten trioxide ($WO_3$) contained in them.

(c) There are no workings at all.

The sketch profile added to this application shows the program of development which we desire to undertake.

The ore is in a well defined fissure vein cutting through the crystalline schists and gneisses of the pre-Cambrian. The vein on the Jasper Queen claim is only one of quite a number of veins of the same character which have been opened up by shallow shafts of from 10 to 30 feet in depth in an area of a few square miles. These veins vary in width from 2 to 8 feet; they are nearly vertical. They cut indifferently through the various kinds of rocks which constitute the pre-Cambrian complex.

They are found often close to, but not genetically connected with, dikes of pegmatite. As a wild guess, not based on any positive proof, I believe these ores to be of the same age as those of the tungsten deposits of Boulder County, Colorado.

Some of the veins have been followed on their putcrops for distances of from a few hundred to a maximum distance of fifteen hundred feet. The area is park-like, with gramma grass covering everything and clusters of pine trees quite numerous.

The gangue of the veins is made of quartz, garnet, epidote and magnetite and in many instances quartz and garnet form most of the gangue and appear to be in nearly equal amounts.

The scheelite is found mostly in crystals dissiminated through the gangue and in grains varying from 1/60th to 1/10th of an inch. Exceptionally crystals of scheelite 1 inch in diameter are found. Occasionally also, the scheelite occurs in narrow and not long. However, as only a few pits, cutting the ores at their outcrops, have been exposed, these remarks are somewhat superficial. Assays taken on several of these outcrops have varied from 0.01 to 1.5 % tungsten trioxide, when taken across the widths of the outcrops.

In the special case of the outcrop of the Jasper Queen vein, for the development of which this application is made, my own opinion is that the shipment of 12 tons recovered from the length of the outcrop of the ore body exposed there gives the best idea of the value of the ore at the present time.

(d) The property is located 26 miles from Cripple Creek, of which 8 miles ate on the State highway No. 143 and 18 miles on the U.S. paved highway No. 24, from Colorado Springs to Salida. It is 30 miles from Colorado Springs, the nearest railroad point.

(e) It is expected that the miners with their houses in Cripple Creek can drive to their work on this property in less than 40 minutes. Cripple Creek has available all normal mining supplies. There is no water and no power available on the property. The water will require the erecting of a water tank and the water will have to be hauled from Lake George, 4 miles away. For power it will be necessary to use Diesel engines.

5. The Exploration project. (a) The Mineral is scheelite, a calcium tungstate, ore of tungsten.

(b) At the start of operations, we propose to erect a building with a hoist and compressor room, a blacksmith's shop and an office. It will be located west of the vein. The ore bins will be located east of the vein.

For the exploration work, we propose to drive an adit tunnel starting at the lower point of exposure of the outcrop of the ore body and to drive on the vein 300 feet.

At a point 160 feet from the portal of the tunnel a raise will be driven to the surface a distance of approximately 65 feet. (See sketch attached.) As the walls of the vein are made of pre-Cambrian gneisses, they stand up. We hope that it will be possible to mine the vein above the adit tunnel by the "glory-hole method. The ore will be drawn out of a chute at the bottom of the raise and trammed through the adit tunnel to the ore bins.

We plan to sink a shaft 4½ x 9 feet in the clear, with two compartments to a depth of 115 feet below the adit tunnel. At a depth of 100 feet levels will be driven to explore the vein at that depth.

(c) The work will start within 15 days and be completed within approximately five months from the date of the exploration project contract.

(d) The work will be under the management of Etienne A. Ritter. He is a registered mining engineer from the State of Colorado and a member of the American Institute of Mining and Metallurgical Engineers. For the last 30 years he has had his own office in the Empire Building, Denver 2, Colorado, and during that time has been connected as an engineer with mining operations in Teller, Gilpin, San Juan, Park and Gunnison Counties, Colorado.

6. Estimate of costs.

(a) No independent contract.

(b) Salary of a manager @ $ 300 per month and of a mine foreman @ $ 350 per month. Hoist man, miners as drillers and muckers will be paid $ 16 per shift of 8 hours (5 days) and half time for overtime for 1 day. No work on Sunday.

ESTIMATED COST OF THE CONTEMPLATED WORK.

| | | |
|---|---|---|
| An open-cut to reach a face of 10 feet at the portal of the adit tunnel | $ 500 | |
| Driving 300 feet of the adit tunnel @ $ 20 per foot | 6,000 | |
| Raising 65 feet | 600 | |
| Sinking 115 feet of shaft @ $ 70 per foot | 8,050 | |
| Cutting a station at the 100 ft. level | 250 | |
| Crosscutting 10 feet and drifting 300 ft. @ $ 20 per foot | 6,200 | |
| Total | | $ 21,600 |
| (c) A water tank will be built on the ground | | 200 |

The water will be hauled from Lake George by contract if possible. Power will be by Diesel engines, coupled with the hoist, air-compressor, etc...

| | | |
|---|---|---|
| Reported from preceeding page | | $ 21,500 |
| | | 200 |
| (d) A hoist with rope and bucket | $ 3,500 | |
| An air-compressor | 4,500 | |
| Machine drills and steel | 2,000 | |
| Air tank | 200 | |
| Mine cars | 600 | |
| Rails and ties | 500 | |
| Material for the blacksmith's shop and small tools | 500 | |
| Total | | 11,800 |
| (e) No rehabilitation and repairs | | |
| (f) Building for the hoist and air-compressor, blacksmith's shop and office | | |
| Lumber | $ 460 | |
| Windows, doors, elaterite, etc.. | 240 | |
| Desk, chairs for office, etc.. | 80 | |
| Supplies for the backsmith's shop | 60 | |
| Labor | 1,100 | |
| Lumber for Galloes frame | 120 | |
| Iron rods | 40 | |
| Labor | 340 | |
| Total | | 2,440 |
| (e) Ore sorting building | | |
| Lumber | $ 130 | |
| conveyor belt | 450 | |
| labor | 220 | |
| Ore bins | 900 | |
| Material | | |
| Labor | 1,200 | |
| | | 2,900 |
| (g) None | | |
| (h) Contingencies | | 1,060 |
| | Total | $ 40,000 |

We do not know if we have given sufficient information in detail regarding the cost of material to be purchased. We know that when we have the cash in hand and are ready to pay for the machinery, we can buy some excellent second-hand machinery at figures that we cannot furnish in this estimate.

We are prepared to submit, when the time comes, all estimates and bills for machinery for the approval of each separate item by the Supervising Engineer of the Bureau of Mines in charge of supervising our operation, before making any purchase.

7. Are you prepared to furnish your share of the cost.

(a) We are prepared to furnish 25 % of the share of the cost, according to the regulations on Government participation. (See7 MDEA No. 1

(b) We propose to furnish our share with cash in the bank.

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