DMEA Form 9
Rev. 6/57

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE | Idm-E NO._____ | DMEA NO. 4991

Application
- [x] Denied
- [ ] Withdrawn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
- [ ] Owner's Consent to Lien and Subordination Agreement
- [x] Application and attachments

Right Side

- [x] Project summary (final)
- [ ] Work Comoleted analysis (final)

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

- [ ] Field Team Semi-Annual 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
- [x] On-site Exam Report (Tab)
- [ ] Settlement Sheets
- [ ] Drill Logs

Additional Folders:

Left Side

Folders No._____: Reports

- [ ] Analysis of Semi-Annual Inspection Reports
- [ ] Project Summary (Interim) by DMEA Engineers

Right Side

- [ ] Field Team Semi-Annual 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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

RECEIVED APR 28 1958

224 New Customhouse
Denver 2, Colorado
April 24, 1958

Memorandum

To: Secretary to the Operating Committee

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

Subject: Application for DMEA aid (Uranium) P-C Mining Corporation (Shawver group) Fremont County, Wyoming

Enclosed are the original and two copies of the subject application in the amount of $92,466. One copy of the application is being retained in our file.

The Applicant proposes to explore the Shawver Group by drilling 125 non-core holes of an average depth of 450 feet.

Three bids for drilling were submitted with the application.

E. N. Harshman

E. N. Harshman

Form MF-103
Revised Oct. 1957

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Budget Bureau No. 42-R1035.3
Approval expires June 30, 1958

APPLICATION FOR AID IN AN EXPLORATION PROJECT

PURSUANT TO DMEA ORDER I, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

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

P-C MINING CORPORATION
410 BELL BLDG.
CHEYENNE, WYOMING

DMEA
DEPARTMENT OF THE INTERIOR
APR 23 1958
REGION III
DENVER, COLORADO

APPLICANT NOT TO USE THIS BLOCK

Docket Number	DMEA-4991
Date Received	4-28-58
Government Participation %	
Region	III
Division Code	700

BUSINESS ORGANIZATION (Check one)

- Individual [ ]
- Corporation [X]
- Partnership [ ]
- Other (Specify) [ ]

State in which firm is organized WYOMING

LIST CORPORATE OFFICERS OR PARTNERS HERE, IF APPLICABLE

Name	Address	Title
Robert A. Palma	410 Bell Bldg. Cheyenne Wyo.	President
John D. Cummings	410 Bell Bldg. Cheyenne Wyo.	Vice-President
Walter B. Phelan	410 Bell Bldg. Cheyenne Wyo.	Treasurer
Ellen Crowley	410 Bell Bldg. Cheyenne Wyoming	Secretary

Mineral(s) for which you wish to explore: URANIUM

Estimated Cost of Project: $ $92,466.00

LOCATION OF PROPERTY

Name	County	State
Shawver Group	Fremont	Wyoming

GENERAL INSTRUCTIONS

Before filling out this application, please read DMEA Order-I, Revised, "Government Aid in Defense Exploration Projects." 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 four 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 1, existing mine workings and geology in item 2, and the proposed exploration project in item 4. 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 2(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 Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest DMEA 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.

April 22, 1958
Dated

Rodney W. Kruza
BY *(Signature)*

Geologist
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. *Applicant's Property Rights:*

(a) 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 land adjacent to the proposed project area which you own or control. Describe any part of the project land or workings which should not be subject to Government lien for royalty payments. If the land consists of unpatented claims, state the book and page number for each recorded location notice, including amended locations, and the place where recorded (courthouse, recorder's office, county, and state).

(b) State all the names by which you know the property.

(c) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise. If you are not the owner, submit with this application one exact copy of the lease, contract, or other document (with address of owner) under which you control the property.

(d) Describe all liens, mortgages, or other encumbrances on the property.

2. *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 lands, including existing mine workings. Describe all production facilities.

(b) State your interest, if any, in operations stated in 2*(a)*.

(c) State, as far as 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 on the property giving quantities and grades and sampling methods used, supporting 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 may have, indicating on each whether you require its return to you.

3. *Accessibility of Project:*

(a) To aid DMEA representatives who may be required to examine the property, state the name and address of the person who will meet the DMEA representative; give directions for reaching the property; and describe accessibility of the property including the mine workings.

(b) Name the shipping and supply points and places where employees reside and state the distances between them and the property.

4. *The Exploration Project:*

(a) Describe fully the proposed exploration project giving individual footages and sizes of openings *for each item of work.* Use narrative, maps, plans, and longitudinal and cross sections as necessary. Show the 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 *property boundaries* or to the closest identifiable corner.

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

(c) In the event that an exploration contract with DMEA is executed, how soon will the work start and how many months will be required to complete it? State your anticipated average daily or monthly rate of progress for each type of work.

5. *Experience:*

State your operating experience and background with relation to your ability to carry out this exploration project, and also that of the person or persons who will supervise the operations.

6. *Estimate of Costs:*

Furnish detailed estimates of the costs *for each item of the work proposed in 4(a)* under the headings listed below with a total for each heading and the estimated total cost of the project. Costs for any work to be performed by an independent contractor should be shown separately under category *(a)* below. Costs for any work that is not to be performed by an independent contractor should be given in detail under categories *(b)* through *(g)*.

(a) Independent contracts. State the cost of any proposed independent contract for the performance of all or any part of the work, expressed in units of work, such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, 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. For necessary supervision, engineering and geological services, and labor, include an itemized schedule of numbers, classes, rates of wages, salaries or fees, and periods of employment. State whether these technicians and employees are available.

(c) Operating materials and supplies. List items of material and supplies with their cost. 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 operating equipment to be used giving specifications and indicating how each item is to be acquired – i.e., rented, purchased, or provided by the applicant. If it is rented or purchased, state the estimated rental or purchase price. If it is to be furnished by the applicant, give its present fair market value.

(e) Initial rehabilitation and repairs. Describe the type and the cost of necessary *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 on the exploration project.

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

(g) Miscellaneous. For the operating equipment listed in 6*(d)*, describe the type and estimate the cost of repairs and maintenance expected during project operations. Do not repeat initial repairs listed in 6*(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 – 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)* State whether you are prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation stated in Sec. 7 of DMEA Order–I, Revised.

(b) Explain to what extent you propose to furnish your share of the costs by providing money, by use of equipment owned by you, or otherwise.

* * * * *

INT.-DUP. SEC., WASH., D.C. 25960

APPENDIX

Subject	Page Number
Applicant's Property Rights	1
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Accessibility of Project	3
The Exploration Project	4
Experience	5
Estimate of Costs	6
Preparation of Costs	7
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DATE | INITIALS | CODE

REQUEST FOR A DMEA LOAN
ON THE SHAWVER GROUP OWNED
AND OPERATED BY THE P-C
MINING CORPORATION

1. Applicant's Property Rights

A. Location of Property---Twenty-three (23) claims located in Sections 17, 18, 19, and 20. Township 33 North, Range 89 West.

The East boundary of the Shawver group joins the West boundary of the Thunderbird Claims, owned and operated by the P-C Mining Corporation.

All of the twenty-three (23) claims will be subject to Government lien or royalty payments.

These claims are unpatented and are recorded in Book 166, Page 54. They were recorded in May 17, 1957 at the Fremont County Courthouse, Recorder's Office, Lander, Fremont County, Wyoming.

B. These claims are known as the Shawver group consisting of twenty-three (23) and a fraction of a claim. The different claims in this group are as follows:

Leo-Burt Claims--------1 through 5 and a fraction of claim 6
Lode Star Claims-------1 through 5
Lode Stone Claims------1 through 4
Shawver Claims---------1 through 9

C. P-C Mining Corporation is the owner of these claims.

D. There is a sliding scale royalty of the property.

DMEA
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DATE

2. Physical Description

A. The only exploration on this property to my knowledge has been shallow holes drilled on or near the center location notices. These holes have been drilled for assessment work and the average depth is about 150 feet. In some places, I have noted radiation increases of from four (4) to six (6) times background.

B. The P-C Mining Corporation drilled the holes for assessment work for the year of 1957.

C. There has been no production on this property.

D. There is no known ore reserves on this property.

E. The Shawver group lies in the Upper Wind River formation. The thickness of this Wind River formation will vary from 200 feet to 700 feet. A large graben cuts through the Northern part of the claims, its thickest section will be in the eastern area of the claims and will get thinner toward the west. The thicker section of the Graben will be about 700 feet. The thinner section of the Graben will be about 225 feet. The thickness of the Upper Wind River formation outside the Graben will vary from 200 to about 500 feet.

These claims are located on the Eastern and South-Eastern flank of the Gas Hills Anti-cline. The Lucky Mac and the Vitro mine are located on the Western and South-Western flank of the Anti-cline. These mines are from a mile to a mile and one half due West of the Shawver group.

F. The Shawver group is located in the Upper Wind River formation which has sufficient thickness for ore bearing horizons. The claims are located in an area that should have had about the same mineralizing conditions as the adjoining areas of Lucky Mac and Vitro.

G. The only geological reports on the property has been made by the Author and is state in 2(e).

3. Accessibility of Project

A. The personnel to meet the DMEA representatives are

R. W. Hruza, Geologist and Project Engineer
or
John D. Cummings, Supervisor and General Manager

The personnel are located on the Thunderbird Claims in the East Gas Hills but can meet the DMEA representatives in either Moneta, Wyoming or Riverton, Wyoming and can direct them out to the property.

The property is approximately 33 miles South-East of Moneta, Wyoming or approximately 56 miles East of Riverton, Wyoming. All roads leading to the property are marked with signs bearing the P-C Mining Corporation name.

The road from the Lucky Mac--Utah Construction camp to the East Gas Hills runs through the Shawver group between the Lode Stone claims 1, 2, and 3 and the Shawver claims 6 and 8.

Accessibility of the property is very good and can be driven over with a car or pickup in most places, as the property consists mostly of rolling hills with grass and small sage.

B. The employees reside at the P-C Mining Corporation camp, a distance of approximately one mile to the East of the Shawver group. This camp is located on the P-C Mining Corporation Thunderbird Claims.

Shipping points from this property could be to the new Lucky Mac Mill, a distance of about two (2) miles.
Fremont Mill at Riverton, Wyoming a distance of about 56 miles.
Western Nuclear Mill at Jeffery City, Wyoming a distance of about 27 miles.

General supplies are received from Riverton, Wyoming, a distance of about 57 miles from the P-C Mining Corporation camp.

ORIGINAL PAGE OUT
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DATE

4. The Exploration Project

A. The Shawver Group has no open pits or cuts. The only lithology known are the shallow holes drilled as assessment work. These holes were all drilled in Upper Wind River Sands. By projecting from the known thickness on the Thunderbird Claims it is the Author's theory that an overall average of 450 feet will penetrate the Wind River Formation in this area.

Enclosed with the report is a map of the Shawver Group showing a proposed drilling grid for the first phase. These drill locations are laid out on a five hundred (500) foot spacing and in such a manner as to cover as much area as possible.

The depth of drill holes should average out about the same in the Graben as outside the Graben, as we have a thinning effect as we near the Anti-Cline. It also appears that outside the Graben to the South we have a thicker section of Wind River.

The ore when found in this area should be in lenses and rolls as is common in the surrounding areas.

B. No roads will be needed expect for drill location set-ups.

C. Work will be started within thirty (30) days of the time the contract is signed and will be completed within eight (8) months.

The work will consist entirely of drilling and logging. The anticipated average footage would be three hundred (300) feet per day.

5. Experience

R. W. Hruza, Geologist and Project Engineer has four (4) years experience in Uranium in Fremont and Natrona Counties, Wyoming. Has supervised about 150,000 feet of drilling. Has supervised a DMEA loan on the Thunderbird claims. Has worked as a Geologist and Project Engineer for the P-C Mining Corporation for the past two (2) years.

John D. Cummings, Supervisor and General Manager, has worked in this capacity for the P-C Mining Corporation for the past three (3) years.

6. Estimate of Costs

A. Bulldozing 72 hrs. at $13.00 per hr.----------$,936.00

Drilling First & Second Phases

$1.25 per foot for 57,000 feet----------$~~71,00~~
$ 71,250.00

Probing First & Second Phases
12¢ per foot for 57,000 feet----------$ 6,840.00

Assays U_3O_8 200 at $4.00 per assay----------$ 800.00
" Se 50 at $10.00 per assay----------$ 500.00

Reproduction of drilling logs
$80.00 a month for 8 months----------$ 640.00

Paper Sacks for 57,000 feet of drilling----------$ 300.00

B. Geologist $650.00 a month for 8 months----------$ 5,200.00
Assistant Geologist $400.00 a month for 8 months----------$ 3,200.00
Typing & Clergical work--~~$200.00 a month~~ for 8 months------$ 1,600.00

C. Gas and Oil for field car $150.00 a month for 8 months 1,200.00

D. None
E. None
F. None
G. None

Total Estimate of Costs----------$92,466.00

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DATE
28

7. A. The P-C Mining Corporation is prepared to furnish their share of the cost of the proposed project in accordance with the regulations on Government Participation stated in Section 7 of DMEA Order-1, Revised.

B. The P-C Mining Corporation propose to furnish their share of the costs by providing money.

Submitted by: R. W. Hruza

R. W. Hruza,
Geologist and Project Engineer for P-C Mining Corporation

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DATE	INITIALS	CODE

SUMMARY OF DMEA

The Shawver Group of claims lie on the South and South-Eastern flank of the Gas Hills Anti-cline. The thickness of the Wind River Sands is comparable to the Vitro property to the West. This area has had very little exploration other than shallow holes dug by hand and by ditching machines. The drilling has been very shallow and wide spread with very little or no system. It is the Author's contention that this area should have the same type of ore and ore zones as the Vitro and Lucky Mac property to the West.

It is the belief of the Author that the drilling program in this area would be very comparable to the drilling on the Thunderbird Claims to the East and can be drilled with the same money allowance per foot such as ------$1.00 per foot from 0-350
$1.22 per foot from 350-on.

In this loan an additional 12 cents a foot should be allowed for probing. This plus travel time is what the P-C Mining Corporation paid for logging on the Thunderbird Claims to the Century Geophysical Corporation. The reasons for this is the resistivity log plus a very accurate radio-metric log.

It is the Author's contention that this additional expense is justified as the whole program is set up for the accurate and permanent record of the area.

The small probing units are not satisfactory in these deep holes for the following reasons:

A. They are not heavy enough to sink through the heavy mud that is necessary to hold the walls of the drill holes.

B. The readings tend to fluctuate for numerous reasons.

C. The small probes do not have a resistivity log, which is very important to get an accurate lithology log.

I have petitioned for drilling bids but to-date these have not been turned in to me. Will send these bids to you as soon as I receive them.

Submitted by: R. W. Hruza

R. W. Hruza
Geologist & Project Engineer for P-C Mining Corporation

RWH:oh

ALBRIGHT & SCHROEDER DRILLING CO.
RIVERTON, WYOMING

April 21, 1958

Mr. John D. Cummings,
P. O. Box 206,
Riverton, Wyoming.

Gentlemen:

I am submitting the following bid for drilling on the Shawver Claims for a DMEA loan:

0-325'----------$1.15
325'-600'----------$1.50

Standby time------$16.50 per hour.

Standby time will be charged for waiting on probing unit, waiting on locations and the washing out of holes.

P-C Mining Corporation will have to furnish all road and location work.

ORIGINAL FILE COPY
DMEA
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DATE | INITIALS | CODE

Yours very truly,
M. Albright

Mark Albright, President
Albright & Schroeder Drilling Co.
Riverton, Wyoming

WIMP DRILLING COMPANY
HOME ON THE RANGE, WYOMING

April 21, 1958

MR. JOHN D. CUMMINGS
P. O. BOX 206
RIVERTON, WYOMING

DEar Sir:

I wish to submit the following bid on your DMEA drilling on the Shawver Claims located in Fremont County, Wyoming.

I will drill these claims under the following terms:

0' to 300'-------$1.10
300' to 600'-------$1.47

Standby time waiting on probe, waiting on locations, and washing out holes,-----$16.50 per hour.

P-C agrees to furnish roads and location work.

Yours very truly,

M. D. Wimp, President
Wimp Drilling Company
Home on the Range, Wyoming

M. D. Wimp

ORMSBEE DRILLING COMPANY
BOULDER, COLORADO

RECEIVED APR 28 1958
DATE | INITIALS | CODE

April 22, 1958

Mr. John D. Cummings,
P. O. Box 206,
Riverton, Wyoming.

Dear Sir:

I was asked to submit a drilling bid for a DMEA loan on the Shawver Group located in Fremont County, Wyoming.

I am submitting the following bid for the drilling of these claims:

0' to 350'----------$1.10
350' to 650'----------$1.35

There will be no standby time charged.

If any location work or roads are needed, P-C will furnish the needed work.

Sincerely,

A. R. Ormsbee

A. R. Ormsbee, President
Ormsbee Drilling Company
Boulder, Colorado

June 13, 1958 Docket Copy

Summary of Proposed Project

Object: Denial of application for exploration aid.

Docket No.: DMEA-4991 (considered as amendment to DMEA-4713, contract No. Idm-E1115, because property under contract adjoins claims on west)

Commodity: Uranium

Applicant: P-C Mining Company, a Wyoming corporation
410 Bell Building
Cheyenne, Wyoming

Property: Consists of 23 unpatented lode mining claims and fractions in secs. 17, 18, 19, and 20, T. 20 N., R. 89 W., 6th P.M. & B., Fremont County, Wyoming. The claims are Lode Star Nos. 1, 2, 3, and 4; Lode Stone Nos. 1, 2, 3, and 4; Shawver Nos. 1 through 9; and Leo Nos. 1 through 6.

Property Rights: Applicant owns property, but Applicant reports there is a sliding scale royalty against the property.

Processing data: Application dated April 22, 1958
Application amount: $92,466.00
Received in Division: Aptil 28, 1958
Referred to Region III: May 12, 1958
Property examined: May 8, 1958
Field Team report received in Division: June 3, 1958

Work Proposed: Explore the Upper Wind River formation by non-core rotary drilling in two stages. (Adjoining claims on east side of the property is being explored under DMEA-4713, Contract No. Idm-E1115, and a significant discovery is reported in this formation.)

Stage I : Consisted of 76 holes drilled on approximately 500-foot centers aggregating 34,200 feet of hole. Drilling depths estimated to average 450 feet.

Stage II: Consisted of drilling 51 offset holes around significant mineralized Stage I holes, or 22,800 feet of drilling.

Estimated Cost (Stages I and II combined):

72 hrs. bulldozing @ $13/hr.	$ 936.00
57,000 ft. non-core drilling @ $1.25/ft.	71,250.00
57,000 ft. hole probing @ $0.12/ft.	6,840.00
200 chemical assays for U_3O_8 @ $4	800.00
50 chemical assays for Se @ $10	500.00
Drill log reproduction @ $80/mo., 8 mos.	640.00
Sample sacks	300.00
Geologist - 8 mos. @ $650/mo.	5,200.00
Asst. Geologist - 8 mos. @ $400/mo.	3,200.00
Typing and clerical work - 8 mos. @ $200/mo.	1,600.00
Gasoline and oil for field cars - 8 mos. @ $150/mo.	1,200.00
Estimated Total Cost of the Project	$92,466.00
Government Participation @ 50%	$46,233.00

Field Team Report, dated May 21, 1958
By W. N. Sharp, USGS, and E. O. Binyon, USBM

Under Contract No. Idm-E1115, preliminary results of the recently completed drilling indicate that a possible 120,000-ton ore body averaging at least 0.12 percent U_3O_8 exists at the eastern edge of the property. The average depth of the ore is about 320 feet below the surface. Other small zones of ore-grade material were penetrated in the central part of the property.

This proposed program should be considered as a part of Contract No. Idm-E1115 since the property is in part contiguous to claims owned and explored in this contract.

Uranium deposits in the Gas Hills region are apparently restricted to the Upper Wind River or coarse-grained facies of the formation.

The claims are in the eastern Gas Hills area where only the Upper Wind River rocks are present. Also, the claims overlie in part a highly-faulted zone that forms a northwest trending graben structure in the Wind River formation. East of the claim this graben area has been explored by DMEA drilling under Contract Idm-E1115. The large ore body and mineralization in the central part of the property described above occurs in the graben area. The formation in holes drilled ranges from 45 to 800 feet thick in the graben. Near the west boundary of these claims, contiguous to the Shawver group, the Wind River is 550 to 700 feet thick in the graben and about 250 feet thick south of the graben. Over-all the Wind

River formation should average about 350 feet thick on the Shawver claim group.

Therefore, a two-stage program of 134 non-core holes aggregating 46,900 feet of hole estimated at $54,187.40 is recommended to explore these claims.

Division of Rare and Miscellaneous Metals, F. L. Knouse.

Since the program recommended by the Field Team is designed to explore the continuation of the Upper Fall River formation along and adjacent to the graben area in which a significant discovery of uranium has been made under Contract No. Idm-E1115, the application should be denied pursuant to the instructions in the press release dated June 6, 1958.

Conclusions

A review of all our information relating to the proposed project indicates that the proposed work would explore the Upper Fall River formation on adjacent and nearby claims that have been explored by DMEA assistance where a significant discovery of uranium was made. Therefore, the application should be denied pursuant to instructions contained in the press release, dated June 6, 1958.

F L Knouse

F. L. Knouse,
Acting Director,
Division of Rare and
Miscellaneous Metals ~~Division~~

DMEA Form 7
(12-56)

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Date	Surname	Code
7/3/58	Knouse	700
7/	GLS	130
7/7	Johnson	110
7	[illegible]	100
7/8	C	220
		225

JUL 7 1958

Mr. J. W. Townsend
Alternate Acting Executive Officer
DMEA Field Team, Region III
224 New Customhouse Building
Denver 2, Colorado

Re: Docket No. DMEA-4991 (Uranium)
P-C Mining Corporation
Shawver, et al., Claims
Fremont County, Wyoming

Dear Mr. Townsend:

In accordance with your request of June 30, 1958, enclosed are three copies of the Administrator's letter of June 19, 1958, to the Applicant denying the subject application. We are sorry that the copies prepared for your office apparently went astray.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (GCS)

Enclosures

P. F. Yopes (GCS)
Member, Bureau of Mines

Thor H. Kiilsgaard (GCS)
Member, Geological Survey

FLKnouse/gla
7-3-58

cc to: Admr.'s Reading File
Operating Committee
FLKnouse

8623

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

224 New Customhouse
Denver 2, Colorado
June 30, 1958

DMEA
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7/3 C 220
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225

Memorandum

To: Chairman, Operating Committee

From: Alternate Acting Executive Officer, DMEA Field Team, Region III

Subject: Docket No. DMEA 4991 (Uranium) P-C Mining Corporation (Shawver et al. claims) Fremont County, Wyoming

Reference is made to the Minutes, Operating Committee, June 18, 1958, wherein it is stated that the subject application was denied.

Will you please forward this office a copy for our files of the letter to the Applicant advising him that his application has been denied.

J. W. Townsend

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

224 New Customhouse
Denver 2, Colorado
June 23, 1958

OFFICIAL FILE COPY
DMEA
RECEIVED JUN 26 1958

DATE	INITIALS	CODE
6/26	J.G.	225
"		700
	(Closed)	225

Memorandum

To: Chairman, Operating Committee, DMEA

From: Alternate Acting Executive Officer, DMEA Field Team, Region III

Subject: Docket No. DMEA 4991 (Uranium) P-C Mining Corporation (Shawver et al. claims) Fremont County, Wyoming

Enclosed are two copies of a letter dated June 20, 1958, from Mr. Walter B. Phelan, the Applicant's attorney. Also enclosed are two copies of a Mining Deed from Robert B. Chambers, Lester W. Chambers, Stanley W. Chambers, Larry Chambers, Albert B. Bartlett, Fred K. Root, and Royal Sage Uranium Corporation to the P-C Mining Corporation.

One copy of the Mining Deed is being retained in this office.

J. W. Townsend

3

GEORGE F. GUY
PHONE 6-6440
WALTER B. PHELAN
PHONE: 5-5660

GUY AND PHELAN
ATTORNEYS AND COUNSELORS AT LAW
P. O. BOX 332
410 BELL BUILDING
CHEYENNE, WYOMING

ASSOCIATES
LOUIS A. MANKUS
PHONE: 2-1017
WARD A. WHITE
PHONE: 3-3434

JUNE 20, 1958

DMEA
DEPARTMENT OF THE INTERIOR
JUN 23 1958
REGION III
DENVER, COLORADO

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATI ON ADMINISTRATION
224 NEW CUSTOMHOUSE
DENVER 2, COLORADO

ATTN: E. N. HARSHMAN, ACTING EXECUTIVE OFFICER
DMEA FIELD TEAM, REGION III

IN RE: DOCKET NO. DMEA 4991 (URANIUM)
(SHAWVER ET AL CLAIMS)
FREMONT COUNTY, WYOMING

DEAR MR. HARSHMAN:

I AM ENCLOSING HEREWITH TWO COPIES OF THE MINING DEED COVERING THE ABOVE PROPERTY IN ACCORDANCE WITH YOUR LETTER OF MAY 16TH IN WHICH YOU REQUESTED "TWO COPIES OF THE ROYALTY AGREEMENT SO THAT YOU MIGHT DETERMINE THE NATURE OF THE CLAIM."

THE "CONSENT TO LIEN AND SUBORDINATION AGREEMENT" WHICH YOU ALSO FORWARDED TO ME UNDER DATE OF MAY 16TH, 1958, HAS NOW BEEN FORWARDED TO MR. ROBERT PALMA, PRESIDENT OF THE ROYAL SAGE URANIUM CORPORATION IN SCHENECTADY, NEW YORK. HE IS THE ONE PERSON WHO HAS NOT AS YET SIGNED THIS CONSENT. JUST AS SOON AS HE HAS SIGNED SAME, HE WILL FORWARD SAME DIRECTLY TO YOU AT THE ABOVE ADDRESS. YOU SHOULD HAVE THIS IN YOUR HANDS NOT LATER THAN JUNE 26, 1958.

RESPECTFULLY YOURS,

GUY AND PHELAN

BY: Walter B. Phelan

WBP:DK

ENC.

FILE COPY
DMEA
RECEIVED JUN 26 1958
DATE | INITIALS | CODE

485197

4 P

DMEA
DEPARTMENT OF THE INTERIOR
JUN 23 1958
REGION III
DENVER, COLORADO

MINING DEED

KNOW ALL MEN BY THESE PRESENTS: That ROBERT B. CHAMBERS, LESTER W. CHAMBERS, STANLEY W. CHAMBERS, LEROY CHAMBERS, ALBERT B. BARTLETT, FRED K. ROOT and ROYAL SAGE URANIUM CORPORATION, for and in consideration of the sum of One Dollar and other good and valuable considerations not herein expressed, to them in hand paid by P-C MINING CORPORATION, a Wyoming corporation, the receipt whereof is hereby confessed and acknowledged, have remised, released, and forever quitclaimed unto the said P-C Mining Corporation, its successors and assigns forever, the following described unpatented lode mining claims, located in Fremont County, Wyoming, to-wit:

SHAWVER LODE MINING CLAIMS Nos. 1 through 9 inclusive, situated in Sections 17, 18, 19 and 20, Township 33 North, Range 89 West, excluding portions of Shawver No. 4 and Shawver No. 5, overlapped by Thunderbird No. 28 and Thunderbird No. 29, to the extent of approximately 3.79 acres, excluding that portion of Shawver No. 8 which overlaps Rae No. 13, approximately 6.81 acres, and excluding that portion of Shawver No. 9 overlapping Shawver No. 8 and Rae No. 13, approximately 3.00 acres.

LODE STONE LODE MINING CLAIMS Nos. 1 through 4, inclusive, excluding the portion of Lode Stone No. 4 overlapping Cole 80 No. 5, approximately 2.23 acres, situated in Section 18, Township 33 North, Range 89 West.

LODE STAR MINING CLAIMS Nos. 1 through 5 inclusive, situated in Section 19, Township 33 North, Range 89 West.

LEO LODE MINING CLAIMS Nos. 1 through 6 inclusive, situated in Section 19, Township 33 North, Range 89 West.

BURT LODE MINING CLAIMS Nos. 1 through 4 inclusive, situated in Section 19, Township 33 North, Range 89 West.

TO HAVE AND TO HOLD the said premises unto the said P-C Mining Corporation, its successors and assigns, to its own proper use forever.

RESERVING, HOWEVER, unto the grantees named herein the following gross royalties set forth in tabulated form as follows:

Ten (10%) percent on all ore mined within 75 feet of the surface.

Eight (8%) percent on all ore mined between 75 and 150 feet of the surface.

Six (6%) percent on all ore mined below 150 feet from the surface.

The term "ore" as used in this reservation in this deed shall include all minerals, rare earths, and all other fissionable and nonfissionable materials which may be produced from said premises. The words "gross royalty" as used herein shall include all dues and premium allowances, but shall not include development allowances or royalty.

Dated this 8th day of December, 1956.

Robert B. Chambers
Lester E. Chambers
Stanley N. Chambers
Fred K. Root
Albert R. Bartlett
Lester E. Chambers
By Robert B. Chambers
His Attorney in Fact
ROYAL [illegible] CORPORATION
By [illegible]
President

THE STATE OF WYOMING
County of Fremont

On this 8th day of December, 1956, before me personally appeared Robert B. Chambers, Lester E. Chambers by Robert B. Chambers, his attorney in fact, Stanley N. Chambers, Larry Chambers and Fred K. Root, to me known to be the persons described in and who executed the foregoing mining deed, and acknowledged to me that they executed the same as their free act and deed.

Given under my hand and notarial seal the day and year last aforesaid.

My commission expires May 1, 1960

Notary Public

STATE OF New York
County of Queens } ss.

On this 8th day of December, 1956, before me personally appeared Albert R. Bartlett, to me known to be the person described in and who executed the foregoing instrument, and acknowledged to me that he executed the same as his free act and deed.

Given under my hand and notarial seal the day and year last aforesaid.

My commission expires

Notary Public

THE STATE OF New York
COUNTY OF Albany

557

On this 26th day of September, 1957, before me personally appeared Robert Palma, to me personally known, who being by me duly sworn did say that he is the President of the Royal Sage Uranium Corporation, and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said Robert Palma acknowledged said instrument to be the free act and deed of said corporation.

Given under my hand and notarial seal this 26th day of September, 1957.

Janet Redwood
Notary Public

My commission expires March 30, 1959

OFFICIAL FILE COPY
DMEA
RECEIVED JUN 26 1958

DATE	INITIALS	CODE

EXTRA COPY
DMEA
RECEIVED 1958

DATE		CODE

224 New Customhouse
Denver 2, Colorado
June 23, 1958

Memorandum

To: Chairman, Operating Committee, DMEA

From: Alternate Acting Executive Officer, DMEA Field Team, Region III

Subject: Docket No. DMEA 4991 (Uranium) P-C Mining Corporation (Shawver et al. claims) Fremont County, Wyoming

Enclosed are two copies of a letter dated June 20, 1958, from Mr. Walter E. Phelan, the Applicant's attorney. Also enclosed are two copies of a Mining Deed from Robert B. Chambers, Lester W. Chambers, Stanley W. Chambers, Larry Chambers, Albert B. Bartlett, Fred K. Root, and Royal Sage Uranium Corporation to the P-C Mining Corporation.

One copy of the Mining Deed is being retained in this office.

Original signed by
J. W. TOWNSEND

J. W. Townsend

HMC:dp

cc: Harshman w/cy of lease & ltr.
Docket
Chron.

3

GEORGE F. GUY
PHONE 6-6440
WALTER B. PHELAN
PHONE: 5-5600

GUY AND PHELAN
ATTORNEYS AND COUNSELORS AT LAW
P. O. BOX 332
410 BELL BUILDING
CHEYENNE, WYOMING

ASSOCIATES
LOUIS A. MANKUS
PHONE: 2-1017
WARD A. WHITE
PHONE: 3-3434

JUNE 20, 1958

DMEA
DEPARTMENT OF THE INTERIOR
JUN 23 1958
REGION III
DENVER, COLORADO

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
224 NEW CUSTOMHOUSE
DENVER 2, COLORADO

ATTN: E. N. HARSHMAN, ACTING EXECUTIVE OFFICER
DMEA FIELD TEAM, REGION III

IN RE: DOCKET NO. DMEA 4991 (URANIUM)
(SHAWVER ET AL CLAIMS)
FREMONT COUNTY, WYOMING

DEAR MR. HARSHMAN:

I AM ENCLOSING HEREWITH TWO COPIES OF THE MINING DEED COVERING THE ABOVE PROPERTY IN ACCORDANCE WITH YOUR LETTER OF MAY 16TH IN WHICH YOU REQUESTED "TWO COPIES OF THE ROYALTY AGREEMENT SO THAT YOU MIGHT DETERMINE THE NATURE OF THE CLAIM."

THE "CONSENT TO LIEN AND SUBORDINATION AGREEMENT" WHICH YOU ALSO FORWARDED TO ME UNDER DATE OF MAY 16TH, 1958, HAS NOW BEEN FORWARDED TO MR. ROBERT PALMA, PRESIDENT OF THE ROYAL SAGE URANIUM CORPORATION IN SCHENECTADY, NEW YORK. HE IS THE ONE PERSON WHO HAS NOT AS YET SIGNED THIS CONSENT. JUST AS SOON AS HE HAS SIGNED SAME, HE WILL FORWARD SAME DIRECTLY TO YOU AT THE ABOVE ADDRESS. YOU SHOULD HAVE THIS IN YOUR HANDS NOT LATER THAN JUNE 26, 1958.

RESPECTFULLY YOURS,

GUY AND PHELAN

BY: Walter B. Phelan

WBP:DK

ENC.

DMEA
DEPARTMENT OF THE INTERIOR
JUN 23 1958
REGION III
DENVER, COLORADO

485187

4 P

555

F.B. Fischer

MINING DEED

KNOW ALL MEN BY THESE PRESENTS: That ROBERT B. CHAMBERS, LESTER W. CHAMBERS, STANLEY W. CHAMBERS, LARRY CHAMBERS, ALBERT B. BARTLETT, FRED K. ROOT and ROYAL SAGE URANIUM CORPORATION, for and in consideration of the sum of One Dollar and other good and valuable considerations not herein expressed, to them in hand paid by P-C MINING CORPORATION, a Wyoming corporation, the receipt whereof is hereby confessed and acknowledged, have remised, released, and forever quitclaimed unto the said P-C Mining Corporation, its successors and assigns forever, the following described unpatented lode mining claims, located in Fremont County, Wyoming, to-wit:

SHAWVER LODE MINING CLAIMS Nos. 1 through 9 inclusive, situated in Sections 17, 18, 19 and 20, Township 33 North, Range 89 West, excluding portions of Shawver No. 4 and Shawver No. 5, overlapped by Thunderbird No. 28 and Thunderbird No. 29, to the extent of approximately 3.79 acres, excluding that portion of Shawver No. 8 which overlaps Rae No. 13, approximately 6.81 acres, and excluding that portion of Shawver No. 9 overlapping Shawver No. 8 and Rae No. 13, approximately 3.00 acres.

LODE STONE LODE MINING CLAIMS Nos. 1 through 4, inclusive, excluding the portion of Lode Stone No. 4 overlapping Cole 80 No. 5, approximately 2.23 acres, situated in Section 18, Township 33 North, Range 89 West.

LODE STAR MINING CLAIMS Nos. 1 through 5 inclusive, situated in Section 19, Township 33 North, Range 89 West.

LEO LODE MINING CLAIMS Nos. 1 through 6 inclusive, situated in Section 19, Township 33 North, Range 89 West.

BURT LODE MINING CLAIMS Nos. 1 through 4 inclusive, situated in Section 19, Township 33 North, Range 89 West.

TO HAVE AND TO HOLD the said premises unto the said P-C Mining Corporation, its successors and assigns, to its own proper use forever.

RESERVING, HOWEVER, unto the grantees named herein the following gross royalties set forth in tabulated form as follows:

Ten (10%) percent on all ore mined within 75 feet of the surface.

The term "ore" as used in this reservation in this deed shall include all minerals, rare earths, and all other fissionable and nonfissionable materials which may be produced from said premises. The words "gross royalty" as used herein shall include all bonus and premium allowances, but shall not include development allowances or hauling.

Dated this 5th day of December, 1956

Robert B. Chambers
Larry E. Chambers
Stanley W. Chambers
Fred K. Root
Albert R. Bartlett

Lester W. Chambers
By Robert B. Chambers
His Attorney in Fact

ROYAL SAGE URANIUM CORPORATION
By Robert Palmer
President

THE STATE OF WYOMING }
County of Fremont } SS.

On this 5th day of December, 1956, before me personally appeared Robert B. Chambers, Lester W. Chambers by Robert B. Chambers, his attorney in fact, Stanley W. Chambers, Larry Chambers and Fred K. Root, to me known to be the persons described in and who executed the foregoing mining deed, and acknowledged to me that they executed the same as their free act and deed.

Given under my hand and notarial seal the day and year last aforesaid.

Ann Orland
Notary Public

My commission expires May 1, 1960

STATE OF Wyo }
County of Fremont } SS.

On this 8th day of December, 1956, before me personally appeared Albert R. Bartlett, to me known to be the person described in and who executed the foregoing instrument, and acknowledged to me that he executed the same as his free act and deed.

Given under my hand and notarial seal the day and year last aforesaid.

THE STATE OF New York
COUNTY OF Albany

557

On this 26th day of September, 1957, before me personally appeared Robert Palma, to me personally known, who being by me duly sworn did say that he is the President of the Royal Sage Uranium Corporation, and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said Robert Palma acknowledged said instrument to be the free act and deed of said corporation.

Given under my hand and notarial seal this 26th day of September, 1957.

My commission expires March 30, 1959.

Janet Redwood
Notary Public

[illegible] 1959

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
6/19/58	Knouse	700
6/18	Selfridge	130
"	Johnson	110
19 Mittendorf		100
		220
		225
		130
6/18/58	Lamb	130
6/18/58	Kiilsgaard	

JUN 19 1958

Mr. Robert A. Palma, President
P-C Mining Corporation
410 Bell Building
Cheyenne, Wyoming

Re: Docket No. DMEA-4991 (Uranium)
Shawver, et al., Claims
Fremont County, Wyoming

Dear Mr. Palma:

Your application, dated April 22, 1958, for aid in an exploration project, for a total amount of $92,466.00, and other reports available to us relating to the subject property have been reviewed. Since the proposed work is designed to explore land that is adjacent and near to that included in Contract No. Idm-E1115 (Docket No. DMEA-4713) with your company, your application was considered as an addition to this contract.

Under the new policy announced on June 6, copy enclosed, we are unable to increase the Government's financial commitment in any existing contract where results to date have progressed to a point at which a certification of discovery or development can be issued.

Since, in our opinion, the results of the work performed under Contract No. Idm-E1115 provide the basis for a certification of discovery or development, your case falls within the restricted category; therefore, I regret to advise you that additional funds cannot be approved.

Sincerely yours,

C. O. Mittendorf (for)

Administrator

Enclosure
FLKnouse/COMittendorf/gla
6-19-58
cc to: Admr.'s Reading File
Operating Committee
Docket DMEA-4712 - Idm-E1115
THKiilsgaard, 5224
FLKnouse
DMEA Field Team, Region III (2)

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
6/17/58	Kuson	700
		~~700~~
6/18	Selfridge	130
"	Johnson	110
		100
		220
		225
6/18	Lamb	130
6/18	Calegaris	13

Mr. Robert A. Palma, President
P-C Mining Corporation
410 Bell Building
Cheyenne, Wyoming

Re: Docket No. DMEA-4991 (Uranium)
Shawver, et al., Claims
Fremont County, Wyoming

Dear Mr. Palma:

Your application, dated April 22, 1958, for aid in an exploration project, for a total amount of $92,466.00, and other reports available to us relating to the subject property have been reviewed. Since the proposed work is designed to explore ~~adjacent and nearby land that is included in~~ Contract No. Idm-E1115 (Docket No. DMEA-4713) with your company, your application was considered as an addition to this contract.

Under the new policy announced on June 6, copy enclosed, we are unable to increase the Government's financial commitment in any existing contract where results to date have progressed to a point at which a certification of discovery or development can be issued.

Since, in our opinion, the results of the work performed under Contract No. Idm-E1115 provide the basis for a certification of discovery or development, your case falls within the restricted category; therefore, I regret to advise you that additional funds cannot be approved.

Sincerely yours,

Administrator

Enclosure

FLKnouse/gla
(6-13-58) 6-17-58
cc to: Admr.'s Reading File
Operating Committee
Docket DMEA-4713 - Idm-E1115
THKiilsgaard, 5224
FLKnouse

DMEA Field Team, Region III (2)

Claim that was adjacent and [illegible] to that which [illegible]

better

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
6/13/58	Knouse	700
		[redacted]
		130
		110
		100
		220
		225
6/16	Lamb	130
6/16	Gilsgaard	230

Mr. Robert A. Palma, President
P-C Mining Corporation
410 Bell Building
Cheyenne, Wyoming

Re: Docket No. DMEA-4991 (Uranium)
Shawver, et al., Claims
Fremont County, Wyoming

Dear Mr. Palma:

Your application, dated April 22, 1958, for aid in an exploration project, for a total amount of $92,466.00, and other reports available to us relating to the subject property have been reviewed. Since the proposed work is designed to explore adjacent and nearby land included in Contract No. Idm-E1115 (Docket No. DMEA-4713) with your company, your application was considered as an addition to this contract.

that is
[illegible]

Under the new policy announced on June 6, copy enclosed, we are unable to increase the Government's financial commitment in any existing contract where results to date have progressed to a point at which a certification of discovery or development can be issued.

Since, in our opinion, the results of the work performed under Contract No. Idm-E1115 provide the basis for a certification of discovery or development, your case falls within the restricted category; therefore, I regret to advise you that additional funds cannot be approved.

Sincerely yours,

Administrator

Enclosure
FLKnouse/gla
6-13-58
cc to: Admr.'s Reading File
Operating Committee
Docket DMEA-4713 - Idm-E1115
THKiilsgaard, 5224
FLKnouse
DMEA Field Team, Region III (2)

8623

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DMEA
RECEIVED JUN 11 1958

DATE	INITIALS	CODE
6/11	C	220
"	Krause (Ching)	700

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

Date June 10, 1958

DMEA Docket No. 4991
DMEA Contract No.
Commodity Uranium
Name of Applicant P-C Mining Company
Name of Property Shawver group of claims
Location of property Fremont County, Wyoming
Estimated cost of project $54,187.43

Memorandum

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

1. Date of subject document: 5/26/58 2. Date received by reviewer: 5/28/58

3. Prior reports on this property known to reviewer: Yes ☐ No ☐

4. Prior reports on nearby properties known to reviewer: Yes ☐ No ☐

5. Information available on past production: Yes ☐ No ☐

6. Other pertinent factors known to reviewer: Yes ☐ No ☐

7. Explain items marked "yes" above:

8. Factors meeting special consideration:

a. Location ☐
b. Ownership ☐
c. Evidence of mineralization ☐
d. Geology ☐
e. Proposed exploration method ☐
f. Alternate exploration method ☐
g. Costs
h. ☐

9. Action advised:

a. Obtain information from applicant ☐
b. Refer to Field Team ☐
c. Reject ☐
d. Agree with Field Team ☒
e. Disagree with Field Team ☐
f. Support alternate plan ☐
g. Request another consideration ☐
h. Approval ☒
i. Consult with Mr. _____ at _____ MPC Meeting

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

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

IN REPLY REFER TO:

OFFICIAL FILE COPY
DMEA
RECEIVED JUN 5 1958

DATE	INITIAL	CODE
6/5	C	220
6/6	Knauer (Chrisy)	700

June 4, 1958

Memorandum

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

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

Subject: Review of field examination report, DMEA 4991 (Uranium)
P-C Mining Company, Shawver Claims, Fremont County, Wyoming

The examining team's report states that the subject property is in part contiguous to the claims owned and recently explored by the applicant under the terms of DMEA contract Idm-E1115. Results under that contract indicate that a possible 120,000 ton ore body averaging 0.12 percent U_3O_8 exists onthe property.

The applicant's claims lie over favorable thicknesses of Wind River formation, providing host rocks for large ore bodies. A favorable geologic structure is also present in the form of a low anticline in the underlying Mesozoic and Paleozoic rocks. The claims are located on the east limb of the anticline.

The overall geologic conditions on the property appear favorable, and it seems likely that the examining team's proposed project would have a good chance for success. I agree with the recommendations in the examining team's report.

W. P. Williams

W. P. Williams

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

224 New Customhouse
Denver 2, Colorado
May 26, 1958

OFFICIAL FILE COPY
DMEA
RECEIVED MAY 28 1958

DATE	INITIALS	CODE
5/28	C	220
6/2	HB	130
6/2	C	220
6/3	Kuhnert (Chrisp)	780

Memorandum

To: Chairman, Operating Committee

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

Subject: Docket No. DMEA 4991 (Uranium) P-C Mining Company (Shawver group of claims) Fremont County, Wyoming - Joint Report of Examination

Enclosed is one copy of a memorandum report of examination on the subject property. The original and one copy were forwarded you May 23, 1958.

The field examiners recommend a two stage drilling program of exploration at a total estimated cost of $54,187.43, in which we concur.

Consent to Lien and Subordination Agreements were forwarded the Applicant May 16, 1958, and will be forwarded you when received by this office.

Eight extra copies each of Figure 2 and Figure 3 are attached for use in the contract.

for JW Formwalt
E. N. Harshman

on-site exam

Reviewed by
DMEA OPERATING COMMITTEE
6-2-58
(date)

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Defense Minerals Exploration Administration
Denver Federal Center
Denver, Colorado

May 23, 1958

OFFICIAL FILE COPY
DMEA
RECEIVED MAY 26 1958

DATE	INITIALS	CODE
5/26	C	220
6/2	2/13	130
		220

Memorandum

To: Chairman, Operating Committee, DMEA

From: E. N. Harshman

Subject: DMEA Docket 4991 (Uranium), P-C Mining Company (Shawver group of claims), Fremont County, Wyoming

Enclosed are the original and one copy of a memorandum report on the subject property in which the examiners recommend approval of a two-stage program of exploration. They further recommend that the proposed work be included as an amendment to Contract Idm-E 1115. Government participation in the proposed work would be at a rate of 50 percent.

DMEA 4913

The two copies are being sent by this office in order to expedite processing of this application. An additional copy and extra copies of figures 2 and 3 will be forwarded by the Field Team in the normal manner.

Robert U. King
for E. N. Harshman

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
6-2-58
(date)

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Defense Minerals Exploration Administration
Denver Federal Center
Denver, Colorado

OFFICIAL FILE COPY
DMEA
RECEIVED MAY 26 1958

DATE	INITIALS	CODE
6/2	[illegible]	130
		220

May 21, 1958

Memorandum

To: Executive Officer, DMEA Field Team, Region III
Through: E. N. Harshman Rec'd for ENH

From: W. N. Sharp
E. O. Binyon

Subject: Docket DMEA 4991 (Uranium), P-C Mining Corporation (Shawver group of claims); land contiguous to Thunderbird claims of same company, Docket DMEA 4713, Contract Idm-E 1115

P-C Mining Corporation, 410 Bell Building, Cheyenne, Wyoming, has made application (Docket DMEA 4991) for assistance in exploring for uranium on the Shawver et al. claims in the Gas Hills region of Wyoming. The property is in part contiguous to claims owned and recently explored by the applicant under DMEA contract Idm-E 1115. Preliminary results of the recently completed drilling under contract Idm-E 1115 on the Thunderbird claims indicate that a possible 120,000-ton body averaging at least 0.12 percent U_3O_8 exists at the eastern edge of the property. The average depth of the body is about 320 feet below the surface. Other small zones of ore grade material were penetrated in the central part of the property.

An examination of the property was made May 8, 1958, in company with R. W. Hruza, geologist and project engineer for the corporation. As a result of the examination, the field examiners recommend that an exploration program as outlined below be approved. Also it is recommended that

Reviewed by
DMEA OPERATING COMMITTEE
6-2-58
(date)

the program be made a part of and subject to the provisions of the original contract Idm-E 1115 covering the contiguous Thunderbird claims.

Howard Zeller, U. S. Geological Survey, Project Chief for uranium investigations in the Gas Hills area, was consulted regarding this project. The application and the area were discussed with Millard Reyner of the Casper Office of the AEC.

LOCATION AND OWNERSHIP

The Shawver et al. claims, hereafter the Shawver group, are located in parts of secs. 17, 18, 19, and 20, T. 33 N., R. 89 W., Fremont County, Wyoming (fig. 1).

The Shawver group, owned by the corporation, comprises three adjoining groups and one separate group of unpatented lode mining claims designated as the Shawver No. 1 through 9, Lode Stone No. 1 through 4, and Leo No. 1 through 5, and the Lode Star No. 1 through 5, respectively (fig. 2). The Shawver group adjoins and lies to the west of a part of the Thunderbird claim group as shown on figure 3.

A check of the claims was made at the County Recorder's office at Lander, Wyoming, and it was found that the map submitted with the application showing the four claim groups and survey ties was filed in Book 166 on page 54. The map is numbered 475559 and the filing date is 11:00 A. M., March 17, 1957. The claims were originally located by Albert B. Bartlett and Fred R. Root and were properly recorded; however, amended locations have been made of all claims and these are recorded as follows:

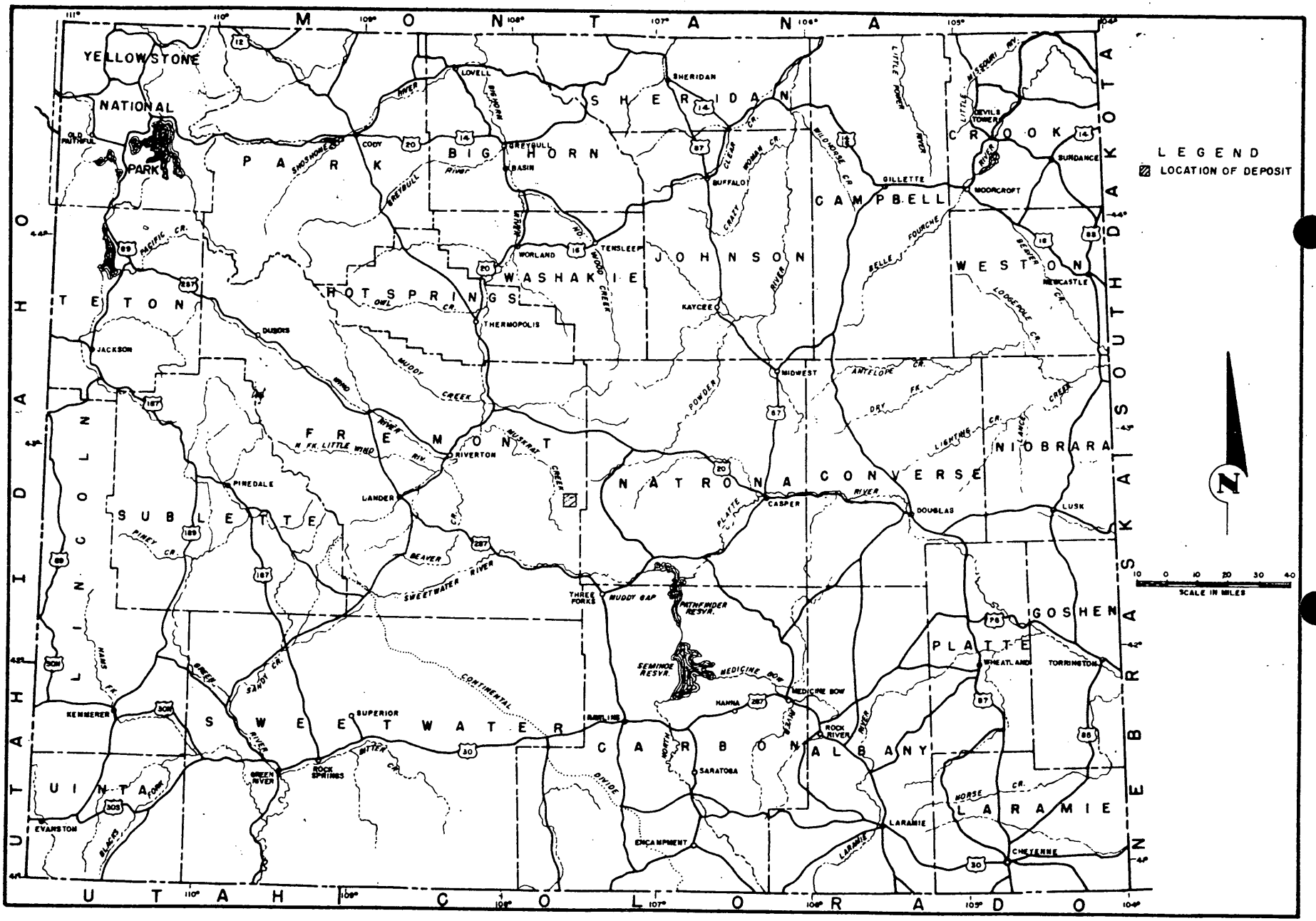

Figure 1 - Location Map. P.- C Mining Corporation, Shawver et al Claims, Fremont County, Wyoming
DMEA 4991

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DATE	INITIALS	CODE

Claim	Book	Page	Date of amended location	Filing
Lode Star No. 1	165	248	4/19/55	4/22/55
Lode Star No. 2	"	249	"	"
Lode Star No. 3	"	250	"	"
Lode Star No. 4	"	251	"	"
Lode Stone No. 1	165	252	4/18/55	4/18/55
No. 2	"	253	"	"
No. 3	"	254	"	"
No. 4	"	255	"	"
Shawver No. 1 through 9	165	262-271	4/18 through 4/26/55	5/11/55
Leo No. ~~2~~ 1 Sewards application	165	256	5/6/55	5/7/55
Leo No. 2	"	257	"	"
Leo No. 3	"	258	"	"
Leo No. 4	"	259	"	"
Leo No. 5	"	260	"	"
Leo No. 6	"	261	"	"

P-C Mining Corporation purchased the claims from the original locators Albert B. Bartlett and Fred K. Root.

GEOLOGY

The Gas Hills region of central Wyoming in which is located the Shawver group of claims is underlain mostly by the lower Eocene Wind River formation, a series of clastic sedimentary rocks of fluvial origin. The Wind River formation, composed of two units, a lower fine-grained facies and an upper coarse-grained facies, is essentially flat lying; however, supratenuous folding, resulting from the dumping of clastic material on a highly irregular pre-Wind River erosion surface of folded and faulted Mesozoic and Paleozoic rocks, forms local areas with moderate dips (fig. 2).

Uranium deposits in the Gas Hills region are apparently restricted to the upper Wind River or coarse-grained facies of the formation. Large sized deposits of up to 1,000,000 tons have been found at depths of 60 to 3000 feet below the surface and many are being mined.

A more detailed discussion on the geology of the area may be found in the examination report, DMEA Docket 4713.

The Shawver group of claims are in the eastern Gas Hills area, where only the upper Wind River rocks are present. The claim area overlies in part a highly faulted zone that forms a northwest-trending graben structure in the Wind River formation. East of the Shawver group this graben area has been explored recently by drilling under DMEA contract Idm-E 1115 (Thunderbird group). The Wind River formation in holes drilled on the Thunderbird claims ranged in thickness from 45 feet to 800 feet

at places in the graben. Near the western boundary of the Thunderbird group, contiguous to the Shawver group, the Wind River is 550 to 700 feet thick in the graben and about 250 feet thick south of the graben. Logs of oil wells drilled in and around the Shawver group show Wind River to be as thin as 90 feet near the west boundary and 240 feet thick near the northwest corner (fig. 3). Over-all the Wind River formation should average about 350 feet on the Shawver group, being thickest at the east side in the graben and thinning westward to less than 100 feet thick at the westernmost boundary.

The Shawver group of claims appears well located with respect to favorable geology, and may contain significant uranium deposits. The claims lie over adequate thicknesses of Wind River formation to provide host rocks for large ore bodies; they are located on the east limb of a low anticlinal structure in the underlying Mesozoic and Paleozoic rocks; a number of significant uranium-ore bodies surround the claim area within 2 to 3 miles. One of these deposits is a large newly discovered deposit about 1 mile northwest of the property in the Wind River formation-filled trough of the breached Gas Hills anticline (fig. 3). The area has not been drilled previously except for shallow location holes.

APPLICANT'S PROPOSED PROGRAM

Exploration of the property as proposed in the application was to be done in two stages, totaling 127 rotary non-core drill holes, drilled to an average depth of 450 feet for a total aggregate footage of 57,150 feet. Stage I consisted of 76 holes or 34,200 feet of drilling; Stage II of about 51 holes offset around significantly mineralized Stage I holes, or 22,950 feet of drilling. The cost of the program, including dozer work, standby time, analyses, and other miscellaneous charges was estimated to be $92,466.00.

RECOMMENDED PROGRAM

The recommended program consists of two stages: Stage I, 74 holes averaging 350 feet in depth, drilled on a 500-foot square grid, totaling 25,900 feet; Stage II, sixty 100-foot offset holes drilled around significantly mineralized Stage I holes, totaling 21,000 feet.

The applicant's two-stage program, drilling on a regular wide-spaced grid and offset drilling around ore or mineralized holes, appears to be well arranged to explore the claims area. His proposals are acceptable to the examining team in general; however, two features are changed: 1) the proposed hole layout has been modified slightly to conform more nearly to a consistent 500-foot square grid, and 2) the average hole depth has been recalculated based on substantial lithologic data from oil holes and previous DMEA drilling. The results of these changes are

that a 74 hole Stage I program is recommended in place of the applicant's 76 holes, and the average hole depth is reduced from the applicant's figure of 450 feet to a more realistic 350 feet average depth.

The recommended Stage I hole layout is shown on figure 2. No hole should be drilled closer than 100 feet of the property boundary, and holes should be drilled through the Wind River formation, 5 feet and not more than 15 feet, into the underlying formation; however, in no hole should drilling extend more than 650 feet in depth.

Stage II will be 100-foot offset drilling and amount to 60 holes, assuming that 20 percent of Stage I holes will be significantly mineralized. Stage II holes should be regulated in depth by the data from each parent Stage I hole.

In the event that unforeseen channels are encountered in Stage I drilling and additional footage is required to complete the drill pattern, some provision should be made to borrow from footage allowed under Stage II drilling.

All holes should be probed by recording logging equipment immediately after completion to provide radiometric and resistivity logs. A driller's lithologic log should also be required.

Cuttings should be taken at 2-foot intervals during drilling and those intervals showing anomalous radioactivity and/or promising mineralogy should be assayed chemically for U_3O_8.

COST

The total estimated cost of the recommended program is $54,187.40. The individual costs are based on the same cost per foot for drilling as set forth in contract Idm-E 1115, and include an incidental allowance of $0.109 per foot plus an additional $0.12 per foot for probing and logging of holes by a reputable geophysical company.

A breakdown of the costs is as follows:

Stage I Independent Contracts		
Drilling rotary non-core		
74 holes averaging 350 ft. 25,900 feet 23,900 feet to depths not exceeding 350 feet @ $0.88/ft.	$21,032.00	
2,000 feet to depths ranging from 350 to 650 feet @ $1.10/ft.	2,200.00	
Bulldozer operation 1/		
80 percent of 74 holes - 60 holes @ 15 min. per hole or 15 hrs. @ $13.00/hr.	195.00	
Standby time for probing and misc. contingencies 15 holes @ 45 min/hole or 11-1/4 hrs. @ $10.00/hr.	112.50	
Probing		
25,900 ft. @ $0.12/ft.	3,108.00	
Total Independent Contracts		$26,647.50
Incidental Allowances		
25,900 feet @ $0.1091/ft.	(rounded)	2,825.70
Analyses 110 samples for U_3O_9 @ $4.00 No allowance for analyses for Se		440.00
Total Stage I		$29,913.20
Gov't share @ 50%		$14,956.60

Stage II Independent Contracts

Drilling rotary non-core		
60 holes averaging 350 ft. 21,000 19,320 feet to depths not exceeding 350 feet @ $0.88/ft.	$17,001.60	
1,680 feet depths ranging from 350 to 650 feet @ $1.10/ft.	1,848.00	
Bulldozer operations 1/		
80 percent of 60 - 48 holes @ 15 min. per hole or 12 hrs. @ $13.00/hr.	156.00	
Standby time for probing and misc. contingencies		
13 holes @ 45 min/hole or 9-3/4 hrs. @ $10.00/hr.	97.50	
Probing		
21,000 ft. @ $0.12/ft.	2,520.00	
Total Independent Contracts		$21,623.10
Incidental Allowance		
21,000 feet @ $0.1091/ft.		2,291.10
Analyses		
90 samples for U_3O_8 @ $4.00		360.00
No allowance for analyses for Se		
Total Stage II		$24,274.20
Gov't share @ 50%		$12,137.10

1/ If a D-6 bulldozer or equivalent unit is used, the allowable hourly rate shall be reduced to $10.00 per hour for 15 hours.

SUMMARY OF COSTS

	Number of holes	Footage	Total costs
Stage I	74	25,900	$29,913.20
Stage II	60	21,000	24,274.20
Total	134	46,900	$54,187.40

CONCLUSIONS AND RECOMMENDATIONS

The examining team concludes that the Shawver group of claims overlies a potentially favorable uranium-bearing area and may contain significant deposits.

It is recommended that the DMEA exploration program outlined above be approved.

W. N. Sharp

W. N. Sharp, Geologist

E O Binyon

E. O. Binyon, Mining Engineer

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DATE INITIAL
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MC 700

224 New Customhouse
Denver 2, Colorado
May 16, 1958

Mr. Robert A. Palma, President
P-C Mining Corporation
410 Bell Building
Cheyenne, Wyoming

Re: Docket No. DMEA 4991 (Uranium)
(Shawver et. al. claims)
Fremont County, Wyoming

Dear Mr. Palma:

Enclosed are the original and six copies of Consent to Lien and Subordination Agreement for the signatures and addresses of all parties holding the sliding scale royalty claim referred to in the captioned application. The original and four signed copies should be returned to this office.

Please also be advised that, while early submission of these executed agreements will expedite the processing of the application, its presentation does not imply that a contract will be approved.

We will also require two copies of the royalty agreement so that we may determine the nature of the claim.

Very truly yours,

Original signed by
E. N. HARSHMAN

E. N. Harshman
Acting Executive Officer
DMEA Field Team, Region III

EHH:dp

cc: Chron. Op. Comm. 2
Harshman
DMEA/DPC Att: Binyon
Docket
Chron.

DMEA Form 7
(12-56)

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Date	Surname	Code
5/9	Ching	700
5/9	Ellis	700
5/12	GCS	130
"	Johnson	110
"	Williams	100
		~~240~~
		220
		700

MAY 12 1958

Mr. E. N. Harshman
Acting Executive Officer
DMEA Field Team, Region III
224 New Customhouse Building
Denver 2, Colorado

Re: Docket No. DMEA-4991 (Uranium)
P-C Mining Corporation
Shawver, et al., Claims
Fremont County, Wyoming

Dear Mr. Harshman:

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

Enclosed for your information are memoranda, dated May 5 and 7, 1958, by T. H. Kiilsgaard, USGS, and James Paone, USBM, respectively, relating to the application. Also enclosed are two copies of the application for the use of the Field Team.

If a contract is recommended, the Applicant should be advised that a Consent to Lien and Subordination Agreement will be required of the party or parties holding the sliding scale royalty claim referred to in the application. The Applicant should also be advised that, while early submission of this form will expedite the processing of the application, its presentation does not imply that a contract will be approved. Copies of the royalty agreement will be required to determine the nature of this claim.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Enclosures
APPROVED:

Frank D. Lamb

Member, Bureau of Mines

W. P. Williams

Member, Geological Survey

MChing/izm 5-9-58
cc: Mr. Ching
Admr.'s Reading File
Operating Committee
THKiilsgaard, 5224

8623

DMEA Form 7
(12-56)

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Date	Surname	Code
5-9	Ching	700
5-9	Ellis	700
5/12	Sellnow	130
"	[illegible]	110
"	Mittendorf	100
5/12	Williams	130
5/12	Lamb	130
5/13	[illegible]	220
		700

MAY 12 1958

Mr. Robert A. Palma, President
P-C Mining Corporation
410 Bell Building
Cheyenne, Wyoming

Re: Docket No. DMEA-4991 (Uranium)
Shawver, et al., Claims
Fremont County, Wyoming

Dear Mr. Palma:

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

Mr. E. M. Harahman
Acting Executive Officer
DMEA Field Team, Region III
224 New Customhouse Building
Denver 2, Colorado

The Regional Office will contact you in regard to your project if additional information is required.

Sincerely yours,

C. O. Mittendorf (for)

Administrator

MChing/izm 5-9-58
cc: Mr. Ching
Admr.'s Reading File
DMEA FT Reg. 3 (2)

8623

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

Date May 7, 1958

DMEA Docket No. 4991
DMEA Contract No.
Commodity Uranium
Name of Applicant P—C Mining Corporation
Name of property Shawver group
Location of property Fremont County, Wyoming
Estimated cost of project $92,466

Memorandum

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

1. Date of subject document: 4/24/58. 2. Date received by reviewer: 4/28/58

3. Prior reports on this property known to reviewer: Yes ☐ No ☐

4. Prior reports on nearby properties known to reviewer: Yes ☐ No ☐

5. Information available on past production: Yes ☐ No ☐

6. Other pertinent factors known to reviewer: Yes ☐ No ☐

7. Explain items marked 'yes' above:

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

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

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

Although the applicant has not presented adequate proof of an exploration target, a field examination should provide the necessary information.

IN REPLY REFER TO:

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

Memorandum

May 5, 1958

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

From: T. H. Kiilsgaard, U. S. Geological Survey

Subject: Review of application, DMEA Docket 4991 (uranium), P-C Mining Corporation (Shawver Group), Fremont County, Wyoming.

The applicant proposes to explore the Shawver group of claims by using a wide-spaced drilling program, the aggregate cost of which is estimated at $92,466. The Shawver group is believed to be in a section of the Gas Hills uranium district that has been heretofore unproductive. We have, however, no information on this property.

The Field Team has amassed a great deal of information on the Gas Hills and no doubt is familiar with the geology in the applicant's area. It is therefore recommended that this application be referred to the Field Team for field examination.

T. H. Kiilsgaard

T. H. Kiilsgaard

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DMEA
RECEIVED MAY 6 1958

DATE		CODE
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"	EWE	700
"	MC	

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

April 28, 1958

P-C Mining Corporation
410 Bell Building
Cheyenne, Wyoming

Subject: DMEA-4991

Gentlemen:

Your application for exploration assistance, dated April 22, 1958 submitted to our office at Denver, Colorado has been assigned Docket Number DMEA-4991 and referred to the Rare and Miscellaneous Metals Division in the Washington office. Kindly identify all future correspondence relating to your application by this Docket Number.

Sincerely yours,

Allen S. Dakan, Director
Operations Control and
Statistics Division

Copy to: Region III.

U.S. Government Messenger Envelope

Standard Form No. 65 (Rev. 1957)
Promulgated by Bureau of the Budget Circular A-33 (Rev.)

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~~Mr. Martin Murray~~ Property Management	STOP		STOP
~~Mr. M. E. Young~~ ~~Room 5227 S.B.K. Bldg.~~	STOP		STOP
~~Payroll Section~~ ~~(T & A)~~	STOP		STOP
~~Mr. Kenney~~	STOP		STOP
Mr. Chamberlain Ext. 4454	STOP		STOP
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