Surname copy

700

FLKnouse
Ellis
Gehan
Kilgaard
Martin
Yglesias

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

JUN 13 1956

Mr. Paul A. Peterson
Buffalo, South Dakota

Re: Docket No. DMEA-4179 (Uranium)
Roger Nos. 1 and 2 Claims
Fremont County, Wyoming

Dear Mr. Peterson:

Your application for aid in an exploration project and other information available to us relating to the subject property have been reviewed.

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

Careful study of all available information, although noting a weak radioactive anamoly on your property, indicates to us that the probability of disclosing significant ore reserves is not sufficiently promising to justify Government participation. We regret to advise you that, under these circumstances, your application for exploration assistance is denied. Such denial, however, is made without prejudice to your property. If future work on your property reveals evidence which could materially alter this opinion, be assured we will be pleased to consider a new application.

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

Sincerely yours,

G. O. Mittendorf

Administrator

FLKnouse/gla
6-12-56
cc to: Admr.'s Reading File
Operating Committee
Docket
Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA
Code 700
Mr. Knouse
DMEA Field Team, Region III (2)

Docket Copy

700

Summary of Proposed Project

June 13, 1956

Object: Denial of application for an exploration project.

Docket No.: DMEA-4179

Commodity: Uranium

Property: Consists of two unpatented lode claims, i.e., Roger Nos. 1 and 2, located in sec. 22, T. 28 N., R. 92 W., Sixth Principal Meridian and Base, Fremont County, Wyoming. Property was acquired by a Quit Claim deed, dated March 27, 1956 from Vernon and Frances Ward to Paul A. Peterson. The granters reserved a 5 percent interest in all minerals mined.

Date of Application: February 10, 1956

Work Proposed: To explore property by drilling 150 holes ranging from 50 to 250 feet in depth at an overall cost of $8,510.00. The proposed drilling pattern consisted of drilling five rows of holes parallel to the claim side lines spaced 200 feet apart and 30 holes were to be drilled in each row spaced 50 feet apart. As a justification the Applicant stated the property adjoined three claims owned by the Gaddis Mining Company on which extensive drilling operations had discovered several good beds of uranium-bearing ore, and also that he had good reasons to believe that the same ores are present on his property.

The Field Team report shows these claims are not adjoining but are about 1/2 mile away.

Cost of Proposed Work:

(1) Independent Contracts

Drill road and site preparation, 100 hrs. tractor operating time @ $15/hr.	$1,500.00	
Drill and coring 150 holes, 300 hrs. @ $15/hr.	4,500.00	
Supervision, 400 hrs. @ $1.50/hr.	600.00	
Consulting Geologist 20 hrs. @ $3.00/hr.	60.00	
Operating materials and supplies - drill bits	1,500.00	
Equipment - Nucliometer with 250-ft. probe	150.00	
Miscellaneous	100.00	
20 chemical analyses @ $5/sample	100.00	
Contingencies	100.00	
Total Estimated Cost of Project		$8,510.00
Government Participation @ 75%		$6,382.50

Field Team Report:

(Joint report by R. E. Davis, USGS & H. F. Robertson, USBM, May 16, 1956)

In the Crooks Gap area, deposits of secondary uranium minerals occur in the lower part of the Wasatch formation, which consists largely of sandstone, containing granite conglomerate lenses and thin seam and lenses of clayey siltstone and carbonaceous material.

With three possible exceptions, no exposures of bedrock were noted on the Applicant's property, but geologic mapping by the U. S. Geological Survey indicates that the contact between the Wasatch formation and the next underlying unit, either the Fork Union or the Cody may cross some part of the property. The steep hillside on which the claims are located is covered with a few feet of rock debris from the upper part of the Wasatch, which effectively conceals the underlying bedrock. The three exceptions noted are three shallow bulldozer cuts in each of the claims.

The experience of the Gaddis Mining Company and Wyoming Uranium Company, whose properties are located 1/2 mile or more northwest of the Applicant's property, have shown conclusively that deposits in the area display no preferred orientations or trends.

Only one locality of anomalous radioactivity was noted on the property in a small pocket of carbonaceous material in one of the cuts and was found to be 1½ times background of the area.

Because of a lack of exposures on the property, the geology cannot be interpreted with any degree of certainty.

It is recommended that the Applicant's proposal be denied without prejudice until additional prospecting has been done on the property and submits a sound exploration program based upon the results.

Field Team concurs with examiners recommendations.

Comments of Commodity Specialists:

USGS, N. E. Nelson, June 6, 1956:

Concurs with recommendations of Field Team

USBM, James Paone, June 8, 1956:

Concurs with recommendations of Field Team.

Rare & Miscellaneous Metals Division, F. L. Knouse, June 13, 1956:

Since only one small radioactive anomoly has been found on the property, and also as the nearest known occurrence of significant uranium mineralization is 1/2 mile away without a trend toward the

property, the Applicant has not provided a justification for the proposed exploration program. Therefore, unless additional prospecting provides such information, no further consideration of an exploration project for the property is warranted.

Ernest Wm. Ellis

Ernest Wm. Ellis, Chief
Rare and Miscellaneous
Metals Division

6-8-56

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

June 8, 1956

Memoradum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee

From: James Paone, Bureau of Mines Alternate Member
Uranium Commodity Committee

Subject: Report of Examination, DMEA Docket 4179, (Uranium)
Paul A. Peterson (Roger Claims) Fremont County, Wyoming

I have reviewed the report of examination, DMEA Docket 4179, Paul A. Peterson, Fremont County, Wyoming, dated May 24, 1956, and received in this office June 4, 1956. I have also discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

The field examiners recommend that the application for exploration assistance be denied without prejudice because only a small amount of prospecting has been done to date on the subject property.

We recommended on February 21, 1956 that the application be denied without prejudice; we concur with the field examiners at this time.

The report is being forwarded to the Chief, Division of Minerals, in accordance with the routing slip attached thereto.

James Paone

James Paone

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

June 8, 1956

Memoradum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee

From: James Paone, Bureau of Mines Alternate Member
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BUREAU OF MINES
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The report is being forwarded to the Chief, Division of Minerals, in accordance with the routing slip attached thereto.

James Paone

6-7-56

IN REPLY REFER TO:

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

RECEIVED
JUN - 7 1956

June 6, 1956

Re: DMEA 4179
Paul A. Peterson
Roger Claims, 1 and 2
Fremont Co. Wyo.
$8,510.00 - Uranium

Memorandum

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

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

Subject: Review of Field Team report

The applicant requested assistance in prospecting by bulldozing and drilling two claims which adjoin property on which work has been done and uranium deposits indicated. No radioactive material has been found on the property, but a weak anomalous condition is found in one bulldozer cut. Rock exposures are scarce and the geology cannot be interpeted with certainty.

Drilling on nearby claims has not indicated a trend or trends that can be projected to the referenced property, although the work on the Goddis property has indicated lenticular uranium ore bodies of indefinite extent.

The examiners concluded that part of the property may be underlain by rocks with which the uranium deposits are associated, but until the applicant shows up something more definite recommend that the application be denied without prejudice.

I concur with that recommendation.

N. E. Nelson

N. E. Nelson

IN REPLY REFER TO:

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

June 6, 1956

Re: DMEA 4179
Paul A. Peterson
Roger Claims, 1 and 2
Fremont Co. Wyo.
$8,510.00 - Uranium

Memorandum

To: [illegible] Ellis, Defense Minerals Exploration Administration

From: N. [illegible] Nelson, U. S. Geological Survey

Subject: Review of Field Team report

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I concur with that recommendation.

N. E. Nelson

NENelson:btr
G 6/6/56

N. E. Nelson

cc: J. E. Crawford, Rm. 3641
J. O. Hosted, Rm. 3614
Director's reading file (4212)
Branch reading file
DMEA (3)
Chron. File
Docket File

IN REPLY REFER TO:

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

RECEIVED

June 6, 1956

Re: DMEA 4179
Paul A. Peterson
Roger Claims, 1 and 2
Fremont Co. Wyo.
$8,510.00 - Uranium

Memorandum

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

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

Subject: Review of Field Team report

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I concur with that recommendation.

N. E. Nelson

N. E. Nelson

NENelson:btr
G 6/6/56

cc: J. E. Crawford, Rm. 3641
J. O. Hosted, Rm. 3614
Director's reading file (4212)
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Docket File

IN REPLY REFER TO:

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

June 6, 1956

Re: DMEA 4179
Paul A. Peterson
Roger Claims, 1 and 2
Fremont Co. Wyo.
$8,510.00 - Uranium

Memorandum

To: [illegible] Ellis, Defense Minerals Exploration Administration

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

Subject: Review of Field Team report

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The examiners concluded that part of the property may be underlain by rocks with which the uranium deposits are associated, but until the applicant shows up something more definite recommend that the application be denied without prejudice.

I concur with that recommendation.

N. E. Nelson

N. E. Nelson

N.Nelson:btr
6/6/56

cc: J. D. Crawford, Rm. 3641
J. D. Hosted, Rm. 3614
Director's reading file (4212)
Branch reading file
DMEA (3)
Chron. File
Docket File

6-5-56

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

RECEIVED
MAY 28 1956

May 24, 1956

224 New Customhouse
Denver 2, Colorado

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Field Team, Region III

Subject: Joint Report of Examination, DMEA Docket 4179 (Uranium)
Paul A. Peterson (Roger Claims) Fremont County, Wyoming

Enclosed are the original and three copies of a joint engineering and geologic report on the subject docket.

The field examiners found only a small amount of prospecting has been done to date on this property, and because of the lack of geologic exposures the geology cannot be interpreted with any degree of certainty. They recommend that the application be denied without prejudice. We concur in this recommendation.

DMEA Field Team, Region III

By J. W. Townsend
Acting Executive Officer

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
6-4-56
(date)

RECEIVED
MAY 28 1956

DMEA
Date Rec'd.
MAY 21 1956

BUREAU OF MINES
Denver, Colorado

REGION III

Building 20
Denver Federal Center
Denver 2, Colorado
May 18, 1956

Memorandum

To: Executive Officer, DMEA Field Team, Region III

TRANSMITTED
MAY 24 1956

From: E. N. Harshman
John F. Shaw

Subject: Docket DMEA 4179 (Uranium) Paul A. Peterson (Roger Claims)
Fremont County, Wyoming

Enclosed are the original and 9 copies of a joint engineering and geologic report by H. F. Robertson, mining engineer, and R. E. Davis, geologist, covering Docket DMEA 4179.

Paul A. Peterson applied for exploration assistance to explore the Roger No. 1 and No. 2 claims, in Fremont County, Wyoming, by 150 drill holes at an estimated cost of $8,510.00.

The property was examined on April 11, 1956 by H. F. Robertson, and C. M. Harrer, mining engineers, and R. E. Davis and M. H. Bergendahl, geologists. The only work on the applicant claims consists of a few shallow bulldozer cuts, one of which contains a small anomaly.

Because of the lack of geologic exposures on the property, the geology cannot be interpreted with any degree of certainty.

It is recommended that the application be denied without prejudice.

E. N. Harshman

E. N. Harshman
Member Field Team

John F. Shaw

John F. Shaw
Supervising Mining Engineer

JFS/mw
ENHARSHMAN
DMEA 4179
Chron

Reviewed by
DMEA OPERATIONS CONTROL
6-4-56
(Date)

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

JOINT REPORT OF EXAMINATION BY EXAMINING TEAM
REGION III

RECEIVED
MAY 28 1956

TRANSMITTED
MAY 24 1956

DMEA 4179
ROGER CLAIMS
PAUL A. PETERSON
CROOKS GAP URANIUM DISTRICT
FREMONT COUNTY, WYOMING

Uranium

Joint Engineering and Geologic Report

By

R. E. Davis, Geologist
Geological Survey

H. F. Robertson, Mining Engineer
Bureau of Mines

May 16, 1956

Reviewed by
DMEA OPERATING COMMITTEE
6-4-56
(date)

DMEA 4179
Roger claims
Paul A. Peterson
Crooks Gap Uranium District
Fremont County, Wyoming

RECEIVED
MAY 28 1956

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Joint engineering and geologic report — Page

Introduction and summary 1
Acknowledgments 2
Location, topography and physical features 2
History and production 2
Ownership and extent 3
Geology 4
Minable ore reserves 5
Present Status 5
Exploration and Development 5
Mining, milling and other facilities 6
Project proposals with costs 6
Conclusions and recommendations 7

ILLUSTRATIONS

Figure — Follows page

1. Location map, Roger 1 and Roger 2 claims, Paul A. Peterson, Fremont County, Wyo. DMEA 4179 2

2. Claim map showing Roger No. 1 and Roger No. 2, Paul A. Peterson, Fremont County, Wyo. DMEA 4179 ... 7

3. Map showing topography on Roger Nos. 1 and 2, Paul A. Peterson, Fremont County, Wyo. DMEA 4179 ... 7

4. Geology and locations of claims, part of Crooks Gap area, Fremont County, Wyo. 7

DMEA 4179
ROGER 1 and ROGER 2
PAUL PETERSON
FREMONT COUNTY, WYOMING

RECEIVED
MAY 28 1956

INTRODUCTION AND SUMMARY

Paul A. Peterson, of Buffalo, South Dakota, applied to the Defense Minerals Exploration Administration for assistance to explore for uranium on his two claims, known as the Roger Nos. 1 and 2, located in Sec. 22, T. 28 N., R. 92 W., Sixth Principal Meridian, Fremont County, Wyoming. The applicant proposes to explore the claims in one stage by drilling 150 holes ranging from 50 to 250 feet in depth at an estimated overall cost of $8,510.00.

Field examination of the property was made by a joint Geological Survey and Bureau of Mines team on April 11, 1956. The examining team consisted of H. F. Robertson and C. M. Harrer, Bureau of Mines, and R. E. Davis and M. H. Bergendahl, Geological Survey.

The field examination of the property disclosed only one very weak radioactive anomaly in the bank and floor of a shallow trench on the Roger 1. The anomaly was of such low magnitude that it could not be considered as a favorable indication of the probability of minable uranium reserves. There is no evidence to date to show that mineralization on other properties in the Crooks Gap area has any recognizable trend or continuity. The nearest drill holes, approximately one-half mile distant, cannot give projected stratigraphic information owing to the lenticular nature of the beds in the area.

The examining team recommends that the application be denied without prejudice. If Mr. Peterson should re-apply after completion of further prospecting, a field examination and supplementary report should suffice to re-evaluate the proposed exploration.

ACKNOWLEDGMENTS

Mr. Paul A. Peterson, owner of the subject claims accompanied the examining team over the property.

The Denver Exploration Branch of the Atomic Energy Commission was consulted for structural and geologic information concerning the Crooks Gap area, and results of previous geologic work by D. R. MacLaran and J. G. Stephens of the U. S. Geological Survey has been used freely in the description of the geology.

LOCATION, TOPOGRAPHY AND PHYSICAL FEATURES

The Peterson property (figure 1) is in an area known as Crooks Gap, in section 22, T. 28 N., R. 92 W., sixth principal meridian, Fremont County, Wyoming. The property is situated on a steeply sloping hillside with altitudes ranging from 7100 to 7550 feet above sea level as shown on figure 3. The Roger claim group is reached by travelling 60 miles southeast from Lander, Wyoming, over U. S. Highway 287; thence 8 miles south on a graveled (Sinclair Oil Company) access road; thence 2 miles east over a dirt road. The area is semi-arid, but water for drilling and mining purposes is available locally. Supplies and equipment can be obtained at Lander, Rawlins, and Casper, Wyoming, 70, 85 and 113 miles distant, respectively. The nearest Atomic Energy Commission ore-buying station is located at Riverton, 95 miles distant. The nearest railroad terminals are the Chicago and North Western at Lander and the Union Pacific at Rawlins.

HISTORY AND PRODUCTION

Uranium was discovered in the Crooks Gap area during February 1954. Strip mining operations started at the Snowball mine, in Sec. 29, T. 28 N., R. 92 W., from which 1,250 tons of uranium ore averaging 0.25 percent U_3O_8

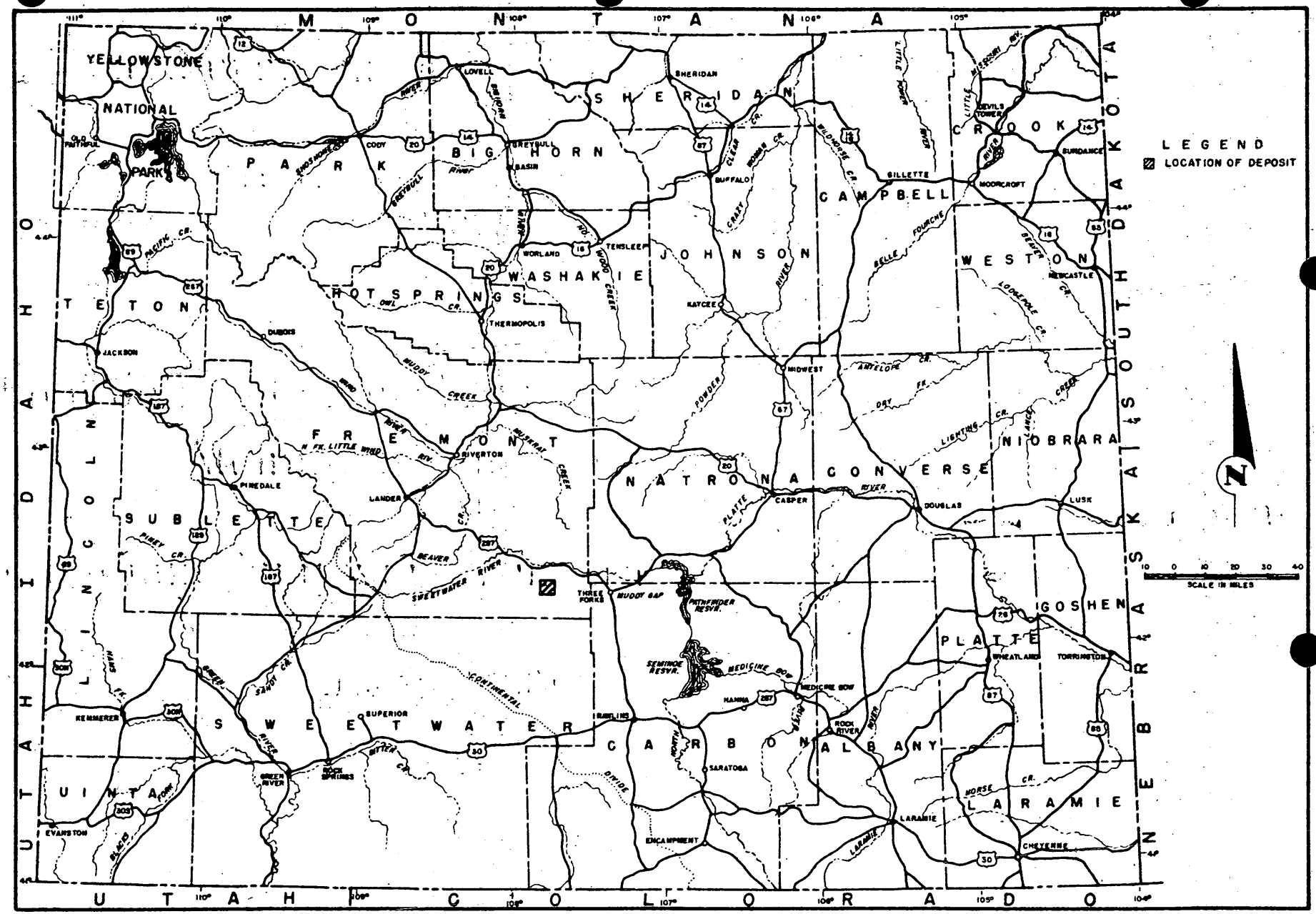


FIGURE 1 - LOCATION MAP, ROGER 1 AND ROGER 2 CLAIMS, PAUL A. PETERSON, FREMONT COUNTY, WYO. DMEA 4179

were shipped to the A. E. C. buying station at Edgemont, South Dakota. A trial shipment of 6.5 tons, made from the Helen May No. 4 cut of Wyoming Uranium Corporation, in Sec. 20, T. 28 N., R. 92 W., averaged 0.29 percent U_3O_8.

An exploration contract with the Gaddis Mining Company (DMEA 3688, Idm-E827) was recently completed. Their property is located in Secs. 17, 20 and 21, T. 28 N., R. 92 W. The program developed definite indications of uranium ore reserves, but no trends or continuity of ore zones were recognizable. Mining operations have not commenced at the present time.

There has been no production to date from the claims known as the Roger 1 and Roger 2.

OWNERSHIP AND EXTENT

The Crooks Gap property of Paul Peterson consists of two unpatented lode locations acquired by Quit Claim Deed, dated March 27, 1956, from Vernon and Frances Ward to Paul A. Peterson. The granters reserve a 5 percent interest in all minerals mined and sold at the prevailing market prices. The above interest does not apply to allowances for transportation or mine development but does include 5 percent of any bonuses and premiums paid on the ores and minerals.

The claims involved are the following:

Name of Claim	Locator	Discovery Date	Recording Date	Book	Page
Roger 1	Vernon D. Ward	4/10/55	4/29/55	104	64
Roger 2	"	"	"	"	65

The above information was taken from the records at the Fremont County Courthouse at Lander, Wyoming.

The area surrounding the subject property is claimed by various other Companies and individuals, but there are no obvious conflicts with the property owned by Mr. Peterson.

GEOLOGY

Rocks exposed in the Crooks Gap area in the vicinity of the applicant's claims, the Roger No. 1 and Roger No. 2, include the Cody shale, of Cretaceous age, and the Fort Union and Wasatch formations, of Tertiary age (figure 4). These rocks are folded into anticlines and synclines, the major structure among which probably is the Crooks Gap anticline. The axis of this southeast-plunging fold lies about one mile west of the applicant's claims. The applicant's property lies near, perhaps on, the axis of a southeast-plunging syncline, as determined by the attitude of beds in adjacent areas.

In the Crooks Gap area, deposits of secondary uranium minerals occur in the lower part of the Wasatch formation, which consists largely of sandstone, containing granite conglomerate lenses and thin seams and lenses of clayey siltstone and carbonaceous material. In general, the lower part of the formation is somewhat finer-grained than the upper part and, consequently, has been more favorable for the concentration of uranium minerals. It has been suggested that uranium has been leached from the upper part of the Wasatch formation by descending waters and has been redeposited in the lower finer-grained, less permeable seams and lenses. The presence of carbonaceous material was probably an important factor in localization of the deposits.

The experiences of the Gaddis Mining Company and the Wyoming Uranium Company, whose properties are located one-half mile and more west and northwest of the applicant's property, have shown conclusively that deposits in the area display no preferred orientations or trends. This is due to the lenticular nature of the lithologic types within the Wasatch formation.

With three possible exceptions, no exposures of bedrock were noted

on the applicant's property, but geologic mapping by J. G. Stephens of the U. S. Geological Survey indicates that the contact between the Wasatch formation and the next underlying unit, either the Fort Union or the Cody, may cross some part of the property. The steep hillside on which the claims are located is covered with a few feet of rock debris from the upper part of the Wasatch, which effectively conceals the underlying bedrock. The three exceptions noted are shallow bulldozer cuts in each of the claims. Snow and mud covered most of the bottoms of these cuts at the time of the examination, and it was not determined whether the rocks exposed were actually bedrock or merely part of the material slumped from above.

Only one locality of anomalous radioactivity was noted on the property. A small pocket of carbonaceous material in the bulldozer cut on the Roger No. 1 claim was checked with a P. R. I. Model 111 B Scintillator and found to be radioactive to the extent of about 1½ times background of the area. This pocket was very close to the surface and probably was part of the rock mantle rather than bedrock.

MINABLE ORE RESERVES

There is no basis on which to estimate ore reserves.

PRESENT STATUS

Exploration and Development

Three shallow trenches (figure 2) that have been dug on the property by bulldozer represent all previous prospecting of the property. The cut in the center of Roger 1 shows very weak radioactivity and a small amount of carbonaceous material. Anomalous radioactivity was not noted in the other cuts.

Mining, Milling and Other Facilities

There are no mining, milling or other facilities on the property. The nearest ore purchasing depot is at Riverton, Wyoming, 95 miles distant.

PROJECT PROPOSALS WITH COSTS

Mr. Peterson proposes to explore his Crooks Gap property with 150 holes ranging from 50 to 250 feet in depth at an estimated overall cost of $8,510.00. His plan was to drill 5 rows of holes parallel to the side lines of the claims. The rows would be 200 feet apart and each row would contain 30 holes spaced at 50-foot intervals. The applicant gives no estimate of the time required to complete the program. His costs are distributed as follows:

Independent Contracts	
Drill, road and site preparation for 150 holes. D-7 bulldozer rental 100 hrs. at $15.00 per hour	$1,500.00
Drilling and coving 150 holes 300 hours at $15.00 per hour	4,500.00
Total	$6,000.00
Personnel	
Supervision - 400 hours at $1.50 per hour	$600.00
Geological Consultants - 20 hours at $3.00 per hr.	60.00
Total	$660.00
Operating Materials and Supplies	
Drill Bits	$1,500.00
Equipment	
One Nucliometer with 250-foot probe	$150.00
Miscellaneous	
Chemical analysis of 20 samples at $5.00 per sample	$100.00
Contingencies	
Incidental allowance	$100.00

Estimated overall cost $8,510.00

The above overall cost is based on a rough estimate and not on formal bids.

CONCLUSIONS AND RECOMMENDATIONS

The applicant's claims, Roger No. 1 and Roger No. 2, lie on a steep, debris-covered hillside, which probably is underlain largely by the lower part of the Wasatch formation. Some Fort Union or Cody rocks, perhaps both, may underlie the northeastern part of the Roger No. 1 claim. In the Crooks Gap area, the lower part of the Wasatch formation contains the ore-bearing horizons. Experience of operators in the immediate area has shown that the ore horizons have no preferred orientations or trends and are not continuous for any appreciable distances.

No work has been done on the applicant's claims except for a few shallow bulldozer cuts, one of which contains a small anomaly. Because of a lack of exposures on the property, the geology cannot be interpreted with any degree of certainty.

It is recommended by the examining team that the applicant's proposal be denied without prejudice until additional prospecting has been done on the property and the applicant submits a sound exploration program based upon the results of such further prospecting.

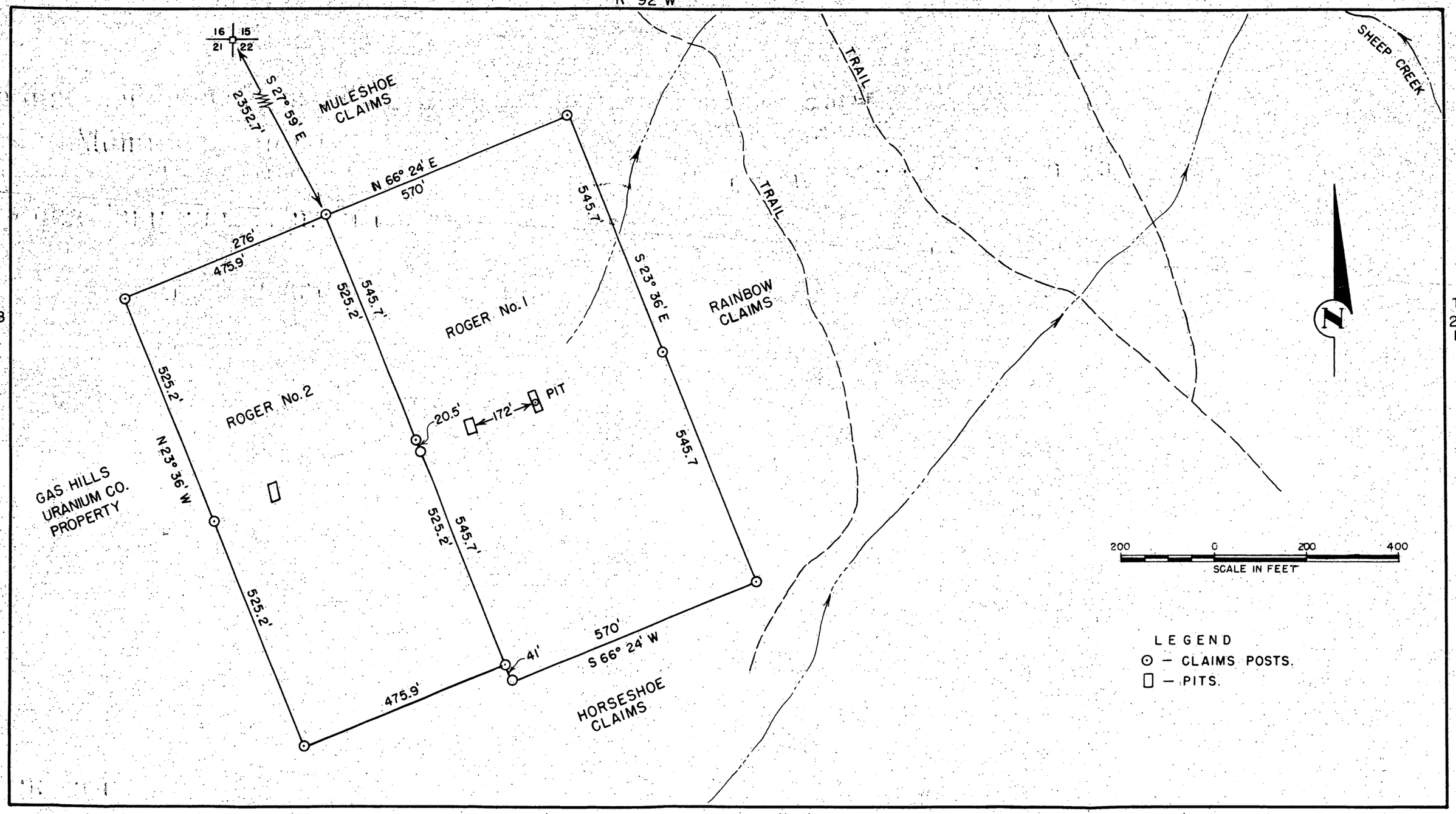


FIGURE 2 – CLAIM MAP SHOWING ROGER NO. 1 AND ROGER NO. 2, PAUL A. PETERSON, FREMONT COUNTY, WYO. DMEA 4179

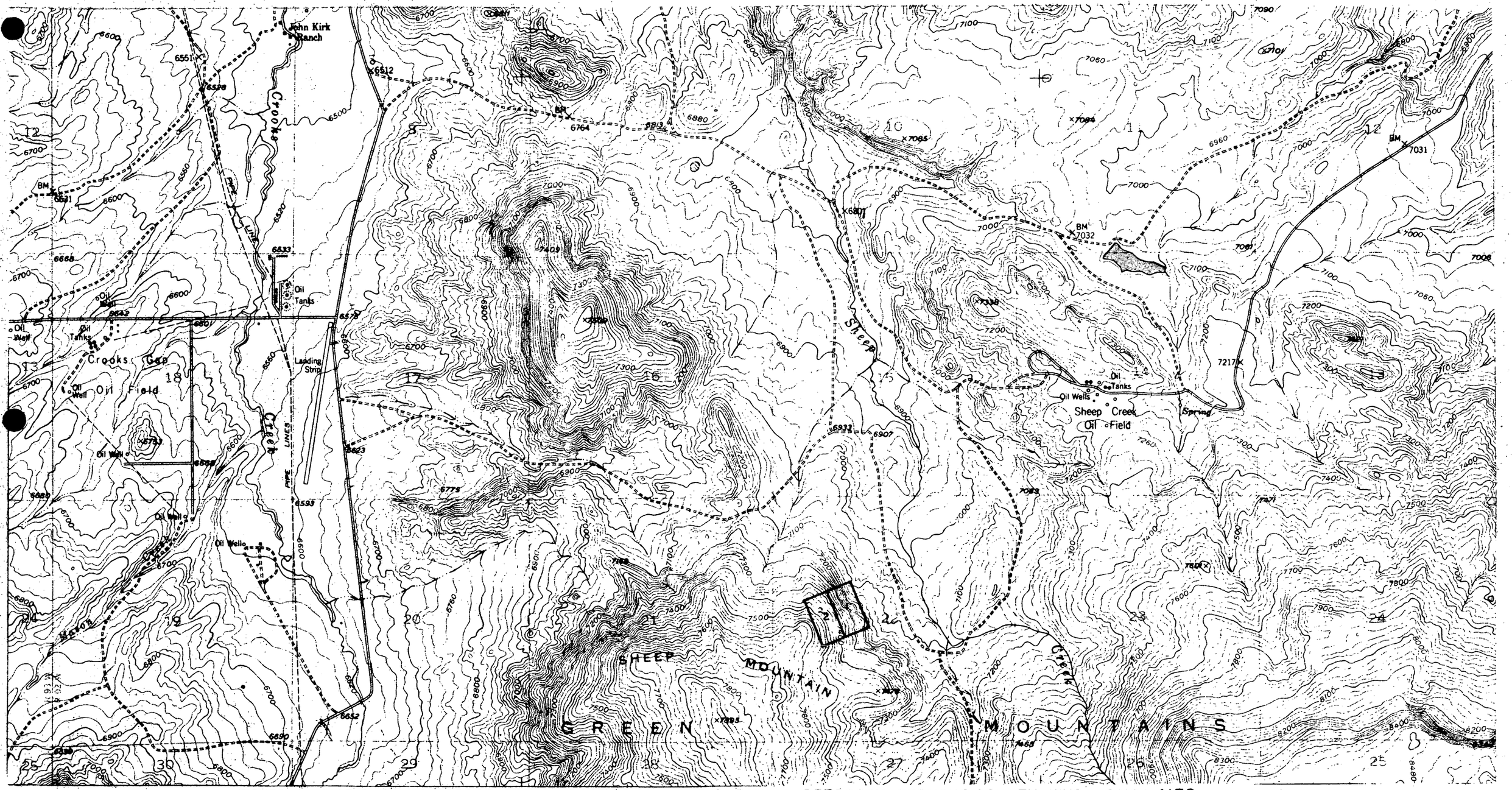
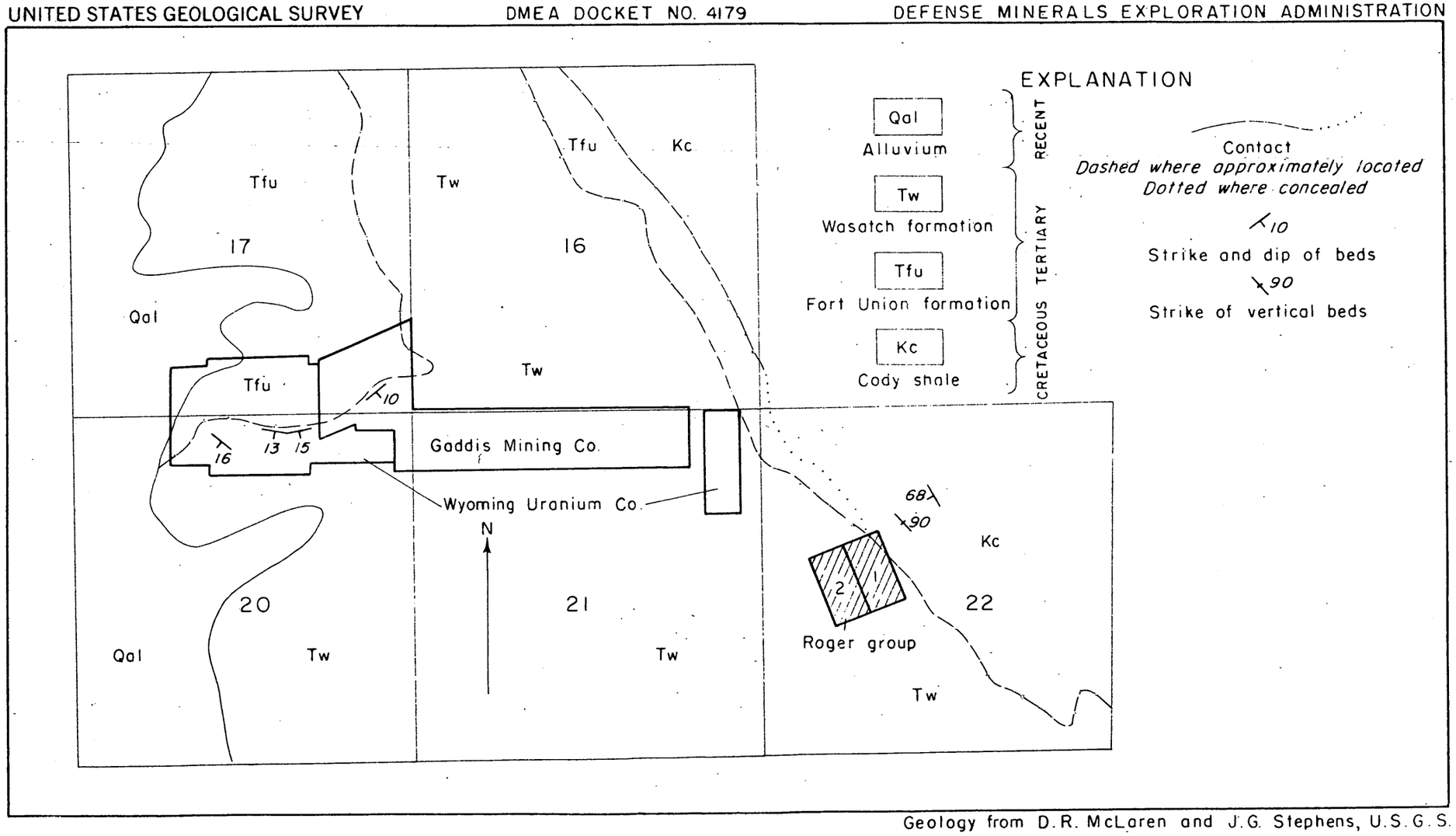


FIGURE 3 – MAP SHOWING TOPOGRAPHY ON ROGER NOS. 1 AND 2, PAUL A. PETERSON, FREMONT COUNTY, WYO. DMEA 4179

DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

EXAMINATION REPORT
DMEA DOCKET NO. 4179

PREPARED FOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION



Geology from D.R. McLaren and J.G. Stephens, U.S.G.S.

FIGURE 4-GEOLOGY AND LOCATIONS OF CLAIMS, PART OF CROOKS GAP AREA, FREMONT COUNTY, WYO.

1000 0 1000 Feet

5/29/56 gla

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

May 24, 1956

224 New Customhouse
Denver 2, Colorado

RECEIVED
MAY 28 1956

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Field Team, Region III

Subject: Joint Report of Examination, DMEA Docket 4179 (Uranium)
Paul A. Peterson (Roger Claims) Fremont County, Wyoming

Enclosed are the original and three copies of a joint engineering and geologic report on the subject docket.

The field examiners found only a small amount of prospecting has been done to date on this property, and because of the lack of geologic exposures the geology cannot be interpreted with any degree of certainty. They recommend that the application be denied without prejudice. We concur in this recommendation.

DMEA Field Team, Region III

By /J. W. Townsend
Acting Executive Officer

Enclosures

Reviewed by Operating Committee 6-4-56

DMEA
Date Rec'd.

MAY 21 1956

BUREAU OF MINES
Denver, Colorado

RECEIVED
MAY 28 1956

REGION III

Building 20
Denver Federal Center
Denver 2, Colorado
May 18, 1956

TRANSMITTED
MAY 24 1956

Memorandum

To: Executive Officer, DMEA Field Team, Region III

From: E. N. Harshman
John F. Shaw

Subject: Docket DMEA 4179 (Uranium) Paul A. Peterson (Roger Claims)
Fremont County, Wyoming

Enclosed are the original and 9 copies of a joint engineering and geologic report by H. F. Robertson, mining engineer, and R. E. Davis, geologist, covering Docket DMEA 4179.

Paul A. Peterson applied for exploration assistance to explore the Roger No. 1 and No. 2 claims, in Fremont County, Wyoming, by 150 drill holes at an estimated cost of $8,510.00.

The property was examined on April 11, 1956 by H. F. Robertson, and C. M. Harrer, mining engineers, and R. E. Davis and M. H. Bergendahl, geologists. The only work on the applicant claims consists of a few shallow bulldozer cuts, one of which contains a small anomaly.

Because of the lack of geologic exposures on the property, the geology cannot be interpreted with any degree of certainty.

It is recommended that the application be denied without prejudice.

E. N. Harshman

E. N. Harshman
Member Field Team

John F. Shaw

John F. Shaw
Supervising Mining Engineer

JFS/mw
EHARSHMAN
DMEA 4179
Chron

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

JOINT REPORT OF EXAMINATION BY EXAMINING TEAM
REGION III

RECEIVED
MAY 28 1956

TRANSMITTED
MAY 24 1956

DMEA 4179
ROGER CLAIMS
PAUL A. PETERSON
CROOKS GAP URANIUM DISTRICT
FREMONT COUNTY, WYOMING

Premium

Joint Engineering and Geologic Report

By

R. E. Davis, Geologist
Geological Survey

H. F. Robertson, Mining Engineer
Bureau of Mines

May 16, 1956

RECEIVED
MAY 28 1956

DMEA 4179
Roger claims
Paul A. Peterson
Crooks Gap Uranium District
Fremont County, Wyoming

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Joint engineering and geologic report — Page

Introduction and summary 1
Acknowledgments 2
Location, topography and physical features 2
History and production 2
Ownership and extent 3
Geology 4
Minable ore reserves 5
Present Status 5
Exploration and Development 5
Mining, milling and other facilities 6
Project proposals with costs 6
Conclusions and recommendations 7

ILLUSTRATIONS

Figure — Follows page

1. Location map, Roger 1 and Roger 2 claims, Paul A. Peterson, Fremont County, Wyo. DMEA 4179 2

2. Claim map showing Roger No. 1 and Roger No. 2, Paul A. Peterson, Fremont County, Wyo. DMEA 4179 ... 7

3. Map showing topography on Roger Nos. 1 and 2, Paul A. Peterson, Fremont County, Wyo. DMEA 4179 ... 7

4. Geology and locations of claims, part of Crooks Gap area, Fremont County, Wyo. 7

DMEA 4179
ROGER 1 and ROGER 2
PAUL PETERSON
FREMONT COUNTY, WYOMING

INTRODUCTION AND SUMMARY

Paul A. Peterson, of Buffalo, South Dakota, applied to the Defense Minerals Exploration Administration for assistance to explore for uranium on his two claims, known as the Roger Nos. 1 and 2, located in Sec. 22, T. 28 N., R. 92 W., Sixth Principal Meridian, Fremont County, Wyoming. The applicant proposes to explore the claims in one stage by drilling 150 holes ranging from 50 to 250 feet in depth at an estimated overall cost of $8,510.00.

Field examination of the property was made by a joint Geological Survey and Bureau of Mines team on April 11, 1956. The examining team consisted of H. F. Robertson and C. M. Harrer, Bureau of Mines, and R. E. Davis and M. H. Bergendahl, Geological Survey.

The field examination of the property disclosed only one very weak radioactive anomaly in the bank and floor of a shallow trench on the Roger 1. The anomaly was of such low magnitude that it could not be considered as a favorable indication of the probability of minable uranium reserves. There is no evidence to date to show that mineralization on other properties in the Crooks Gap area has any recognizable trend or continuity. The nearest drill holes, approximately one-half mile distant, cannot give projected stratigraphic information owing to the lenticular nature of the beds in the area.

The examining team recommends that the application be denied without prejudice. If Mr. Peterson should re-apply after completion of further prospecting, a field examination and supplementary report should suffice to re-evaluate the proposed exploration.

RECEIVED
MAY 28 1956

ACKNOWLEDGMENTS

Mr. Paul A. Peterson, owner of the subject claims accompanied the examining team over the property.

The Denver Exploration Branch of the Atomic Energy Commission was consulted for structural and geologic information concerning the Crooks Gap area, and results of previous geologic work by D. R. Maclaren and J. G. Stephens of the U. S. Geological Survey has been used freely in the description of the geology.

LOCATION, TOPOGRAPHY AND PHYSICAL FEATURES

The Peterson property (figure 1) is in an area known as Crooks Gap, in section 28, T. 28 N., R. 92 W., sixth principal meridian, Fremont County, Wyoming. The property is situated on a steeply sloping hillside with altitudes ranging from 7100 to 7550 feet above sea level as shown on figure 3. The Roger claim group is reached by travelling 60 miles southeast from Lander, Wyoming, over U. S. Highway 287; thence 8 miles south on a graveled (Sinclair Oil Company) access road; thence 2 miles east over a dirt road. The area is semi-arid, but water for drilling and mining purposes is available locally. Supplies and equipment can be obtained at Lander, Rawlins, and Casper, Wyoming, 70, 85 and 113 miles distant, respectively. The nearest Atomic Energy Commission ore-buying station is located at Riverton, 95 miles distant. The nearest railroad terminals are the Chicago and North Western at Lander and the Union Pacific at Rawlins.

HISTORY AND PRODUCTION

Uranium was discovered in the Crooks Gap area during February 1954. Strip mining operations started at the Snowball mine, in Sec. 29, T. 28 N., R. 92 W., from which 1,250 tons of uranium ore averaging 0.25 percent U_3O_8

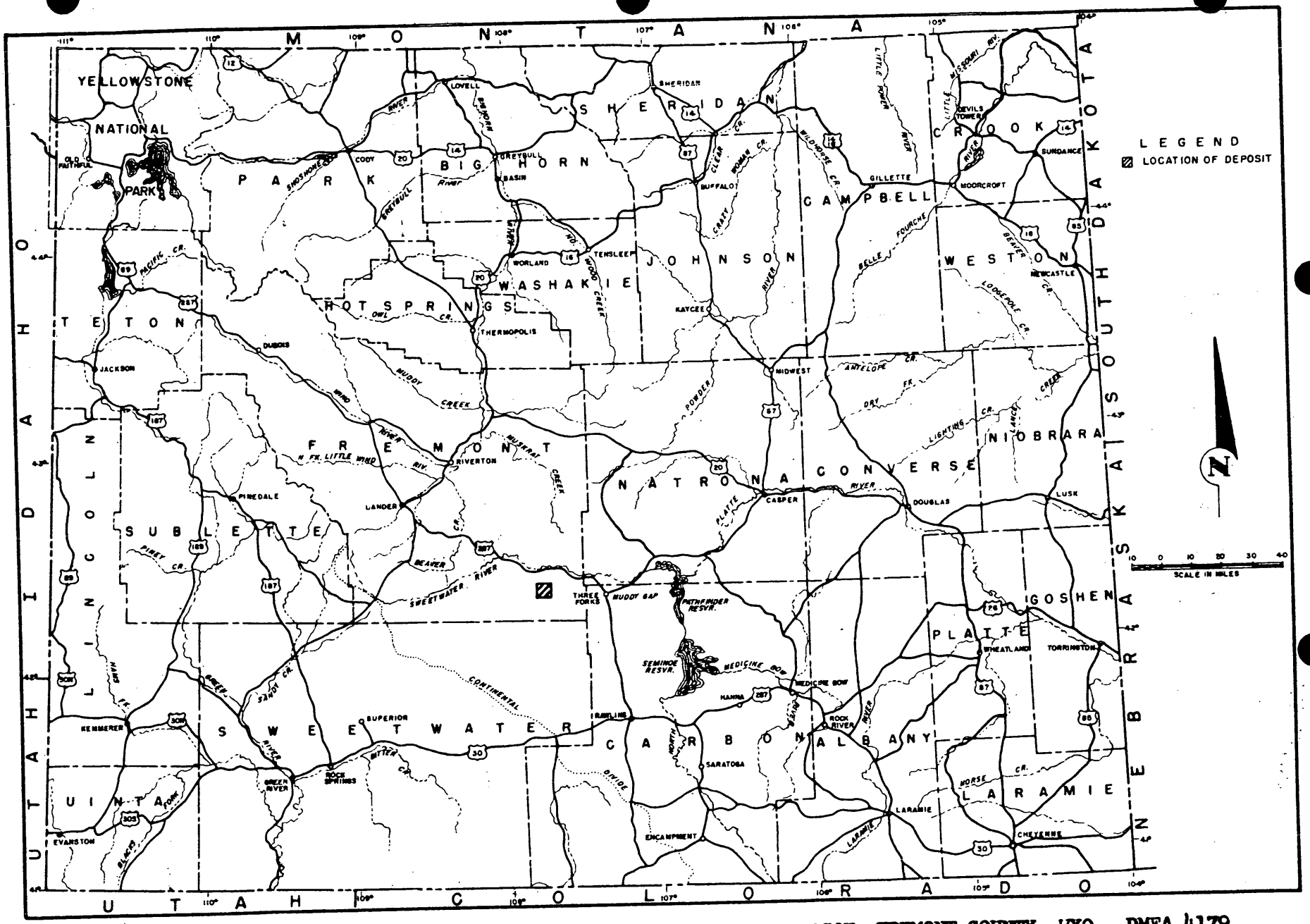


FIGURE 1 - LOCATION MAP, ROGER 1 AND ROGER 2 CLAIMS, PAUL A. PETERSON, FREMONT COUNTY, WYO. DMEA 4179

were shipped to the A. E. C. buying station at Edgemont, South Dakota. A trial shipment of 6.5 tons, made from the Helen May No. 4 out of Wyoming Uranium Corporation, in Sec. 20, T. 28 N., R. 92 W., averaged 0.29 percent U_3O_8.

An exploration contract with the Geddis Mining Company (DMEA 3688, Idm-M827) was recently completed. Their property is located in Secs. 17, 20 and 21, T. 28 N., R. 92 W. The program developed definite indications of uranium ore reserves, but no trends or continuity of ore zones were recognizable. Mining operations have not commenced at the present time.

There has been no production to date from the claims known as the Roger 1 and Roger 2.

OWNERSHIP AND EXTENT

The Crooks Gap property of Paul Peterson consists of two unpatented lode locations acquired by Quit Claim Deed, dated March 27, 1956, from Vernon and Frances Ward to Paul A. Peterson. The grantors reserve a 5 percent interest in all minerals mined and sold at the prevailing market prices. The above interest does not apply to allowances for transportation or mine development but does include 5 percent of any bonuses and premiums paid on the ores and minerals.

The claims involved are the following:

Name of Claim	Locator	Discovery Date	Recording Date	Book	Page
Roger 1	Vernon D. Ward	4/10/55	4/29/55	104	64
Roger 2	"	"	"	"	65

The above information was taken from the records at the Fremont County Courthouse at Lander, Wyoming.

The area surrounding the subject property is claimed by various other Companies and individuals, but there are no obvious conflicts with the property owned by Mr. Peterson.

GEOLOGY

Rocks exposed in the Crooks Gap area in the vicinity of the applicant's claims, the Roger No. 1 and Roger No. 2, include the Cody shale, of Cretaceous age, and the Fort Union and Wasatch formations, of Tertiary age (figure 4). These rocks are folded into anticlines and synclines, the major structure among which probably is the Crooks Gap anticline. The axis of this southeast-plunging fold lies about one mile west of the applicant's claims. The applicant's property lies near, perhaps on, the axis of a southeast-plunging syncline, as determined by the attitude of beds in adjacent areas.

In the Crooks Gap area, deposits of secondary uranium minerals occur in the lower part of the Wasatch formation, which consists largely of sandstone, containing granite conglomerate lenses and thin seams and lenses of clayey siltstone and carbonaceous material. In general, the lower part of the formation is somewhat finer-grained than the upper part and, consequently, has been more favorable for the concentration of uranium minerals. It has been suggested that uranium has been leached from the upper part of the Wasatch formation by descending waters and has been redeposited in the lower finer-grained, less permeable seams and lenses. The presence of carbonaceous material was probably an important factor in localization of the deposits.

The experiences of the Gaddis Mining Company and the Wyoming Uranium Company, whose properties are located one-half mile and more west and northwest of the applicant's property, have shown conclusively that deposits in the area display no preferred orientations or trends. This is due to the lenticular nature of the lithologic types within the Wasatch formation.

With three possible exceptions, no exposures of bedrock were noted

on the applicant's property, but geologic mapping by J. G. Stephens of the U. S. Geological Survey indicates that the contact between the Wasatch formation and the next underlying unit, either the Fort Union or the Cody, may cross some part of the property. The steep hillside on which the claims are located is covered with a few feet of rock debris from the upper part of the Wasatch, which effectively conceals the underlying bedrock. The three exceptions noted are shallow bulldozer cuts in each of the claims. Snow and mud covered most of the bottoms of these cuts at the time of the examination, and it was not determined whether the rocks exposed were actually bedrock or merely part of the material slumped from above.

Only one locality of anomalous radioactivity was noted on the property. A small pocket of carbonaceous material in the bulldozer cut on the Roger No. 1 claim was checked with a P. R. I. Model 111 B Scintillator and found to be radioactive to the extent of about 1½ times background of the area. This pocket was very close to the surface and probably was part of the rock mantle rather than bedrock.

MINABLE ORE RESERVES

There is no basis on which to estimate ore reserves.

PRESENT STATUS

Exploration and Development

Three shallow trenches (figure 2) that have been dug on the property by bulldozer represent all previous prospecting of the property. The cut in the center of Roger 1 shows very weak radioactivity and a small amount of carbonaceous material. Anomalous radioactivity was not noted in the other cuts.

Mining, Milling and Other Facilities

There are no mining, milling or other facilities on the property. The nearest ore purchasing depot is at Riverton, Wyoming, 95 miles distant.

PROJECT PROPOSALS WITH COSTS

Mr. Peterson proposes to explore his Crooks Gap property with 150 holes ranging from 50 to 250 feet in depth at an estimated overall cost of $8,510.00. His plan was to drill 5 rows of holes parallel to the side lines of the claims. The rows would be 200 feet apart and each row would contain 30 holes spaced at 50-feet intervals. The applicant gives no estimate of the time required to complete the program. His costs are distributed as follows:

Independent Contracts	
Drill, road and site preparation for 150 holes. D-7 bulldozer rental 100 hrs. at $15.00 per hour	$1,500.00
Drilling and coring 150 holes 300 hours at $15.00 per hour	4,500.00
Total	$6,000.00
Personnel	
Supervision - 400 hours at $1.50 per hour	$600.00
Geological Consultants - 20 hours at $3.00 per hr.	60.00
Total	$660.00
Operating Materials and Supplies	
Drill Bits	$1,500.00
Equipment	
One Nuclisometer with 250-foot probe	$150.00
Miscellaneous	
Chemical analysis of 20 samples at $5.00 per sample	$100.00
Contingencies	
Incidental allowance	$100.00

Estimated overall cost $8,510.00

The above overall cost is based on a rough estimate and not on formal bids.

CONCLUSIONS AND RECOMMENDATIONS

The applicant's claims, Roger No. 1 and Roger No. 2, lie on a steep, debris-covered hillside, which probably is underlain largely by the lower part of the Wasatch formation. Some Fort Union or Cody rocks, perhaps both, may underlie the northeastern part of the Roger No. 1 claim. In the Crooks Gap area, the lower part of the Wasatch formation contains the ore-bearing horizons. Experience of operators in the immediate area has shown that the ore horizons have no preferred orientations or trends and are not continuous for any appreciable distances.

No work has been done on the applicant's claims except for a few shallow bulldozer cuts, one of which contains a small anomaly. Because of a lack of exposures on the property, the geology cannot be interpreted with any degree of certainty.

It is recommended by the examining team that the applicant's proposal be denied without prejudice until additional prospecting has been done on the property and the applicant submits a sound exploration program based upon the results of such further prospecting.

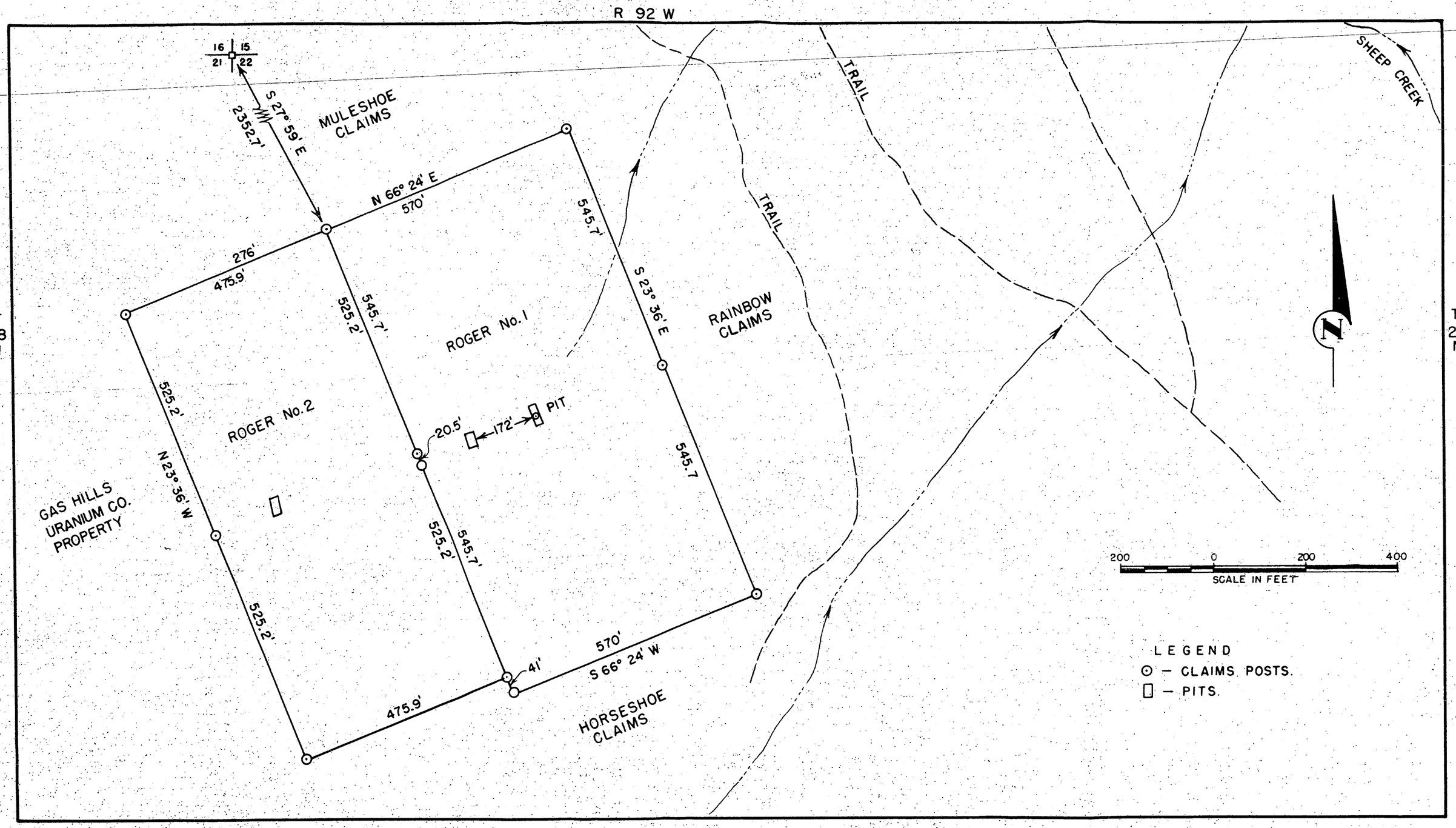


FIGURE 2 – CLAIM MAP SHOWING ROGER NO. 1 AND ROGER NO. 2, PAUL A. PETERSON, FREMONT COUNTY, WYO. DMEA 4179

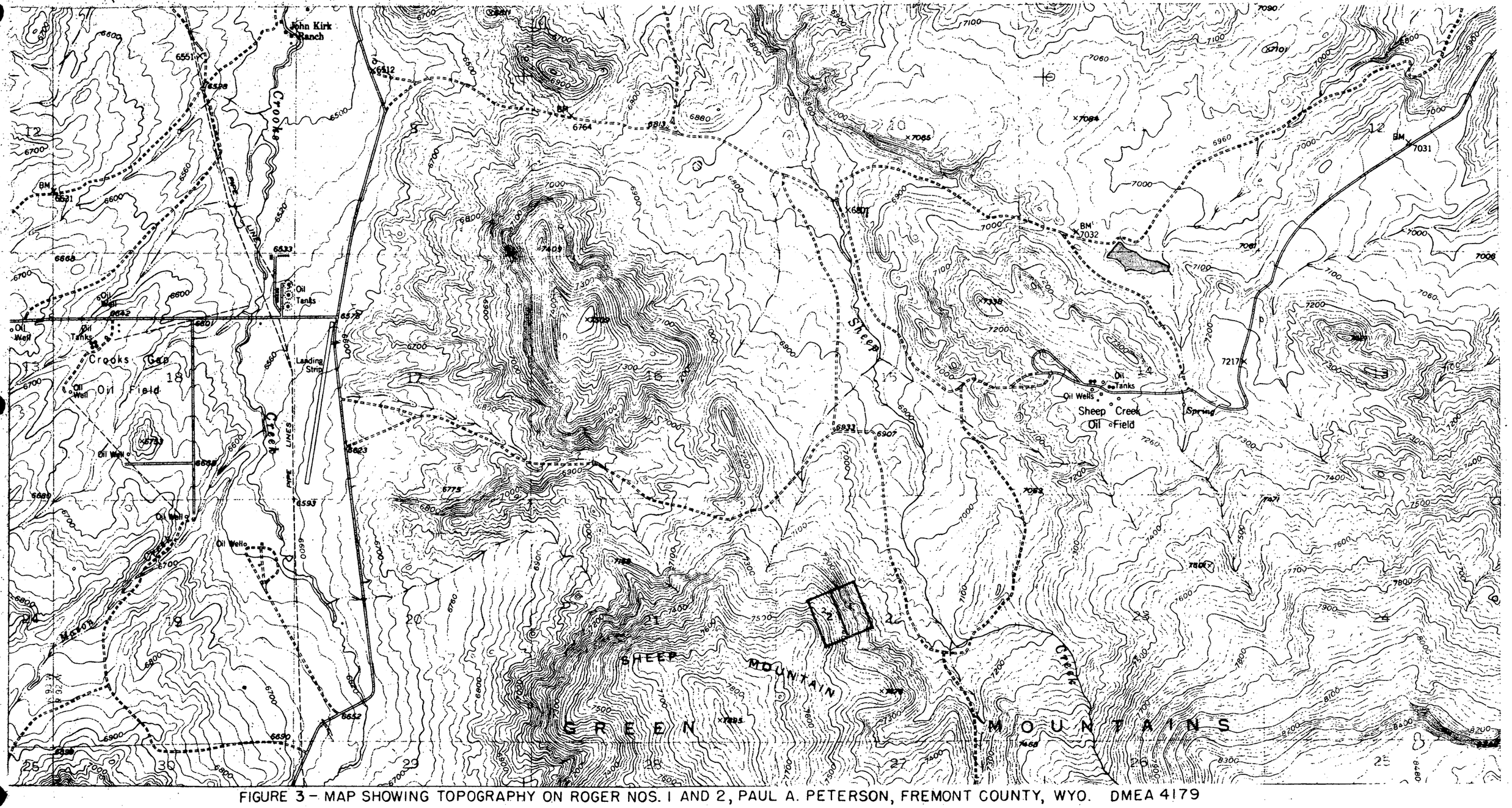
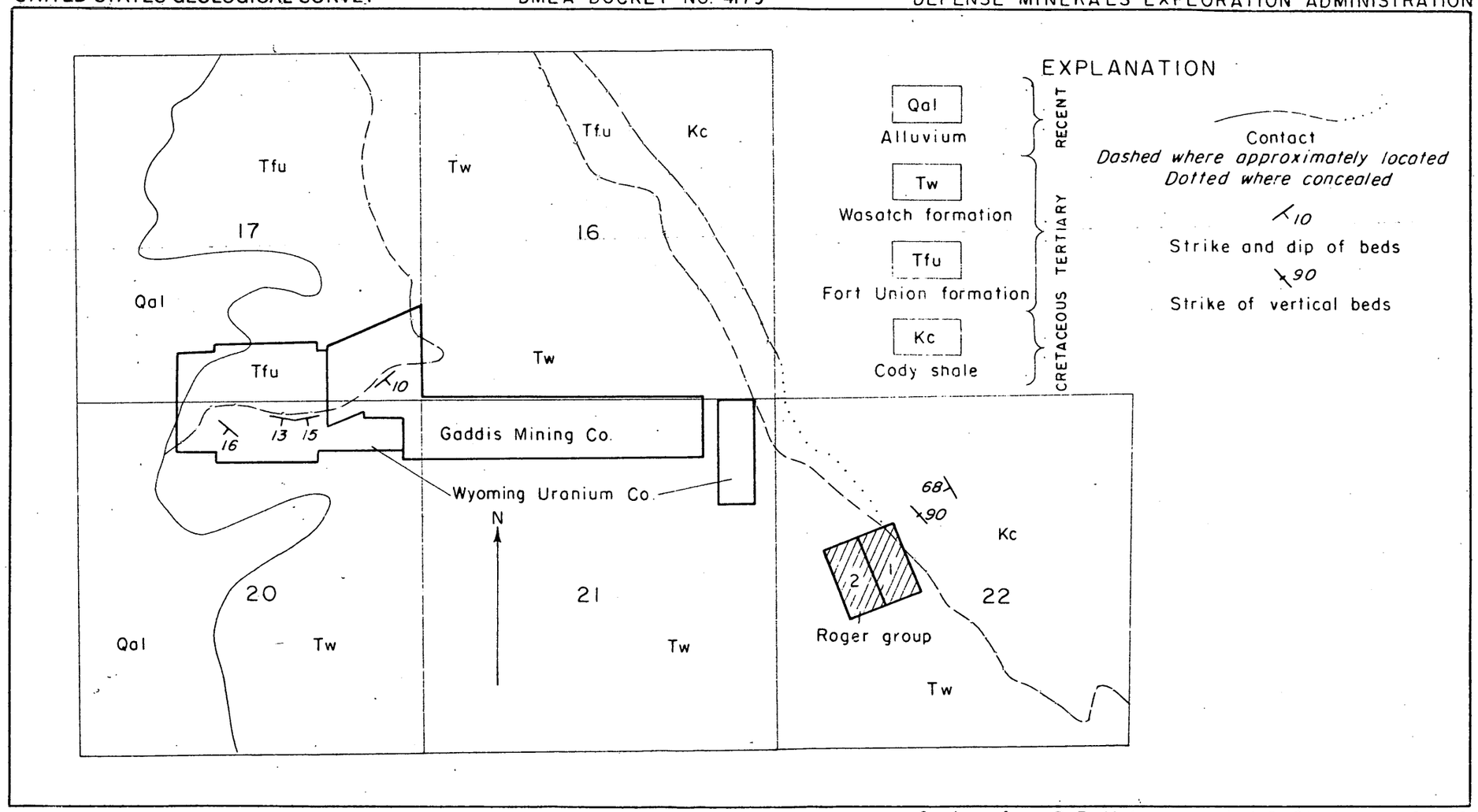


FIGURE 3 – MAP SHOWING TOPOGRAPHY ON ROGER NOS. 1 AND 2, PAUL A. PETERSON, FREMONT COUNTY, WYO. DMEA 4179

DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

EXAMINATION REPORT
DMEA DOCKET NO. 4179

PREPARED FOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION



Geology from D.R. McLaren and J.G. Stephens, U.S.G.S.

FIGURE 4-GEOLOGY AND LOCATIONS OF CLAIMS, PART OF CROOKS GAP AREA, FREMONT COUNTY, WYO.

1000 0 1000 Feet

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

RECEIVED
MAR 19 1956

March 15, 1956

Memorandum

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

From: Superintendent, Denver Experiment Station, Reg. III

Subject: Docket DMEA 4179 (Uranium), Paul A. Peterson, Roger Nos. 1 and 2 claims, Fremont County, Wyoming

The subject application in the amount of $8,510.00 was received in this office on March 15, 1956.

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

John F. Shaw

cc: W. M. Traver (2)
E. N. Harshman
J. F. Shaw
Sec. Exp. Cont. (2)

RECEIVED
MAR 19 1956

March 15, 1956

Memorandum

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

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John F. Shaw

cc: W. M. Traver (2)
E. N. Marshman
J. F. Shaw
Sec. Op. Chron. (2)

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

RECEIVED
MAR 16 1956

March 14, 1956

224 New Customhouse
Denver 2, Colorado

Memorandum

To: J. F. Shaw (2) (With brochure)
E. N. Harshman

From: Field Team, Region III

Subject: Docket DMEA 4179 (Uranium), Paul A. Peterson, Roger Nos. 1 and 2 claims, Fremont County, Wyoming

Enclosed is the subject application in the amount of $8,510.00. A field examination and suitable report are requested.

Enclosed for your further information is a copy of a letter from the Chairman of the Operating Committee dated March 12, 1956 and memoranda of review of the application by N. E. Nelson and John E. Crawford.

The Administrator, DMEA has requested the applicant to forward this office additional information which will be forwarded you as soon as it is received by this office.

DMEA Field Team, Region III

W. M. TRAVER,

By W. M. Traver
Executive Officer

Enclosures

HMC:ab

cc: Chair. Op. Comm. (2)
Docket 4179
Chron.

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

RECEIVED
MAR 16 1956

March 14, 1956

224 New Customhouse
Denver 2, Colorado

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To: J. F. Shaw (2) (With brochure)
E. N. Harshman

From: Field Team, Region III

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DMEA Field Team, Region III

W. M. TRAVER,

By W. M. Traver
Executive Officer

Enclosures

HMC:ab

cc: Chair. Op. Comm. (2)
Docket 4179
Chron.

FILE COPY
Surname:

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

MAR 12 1956

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

Re: Docket No. DMEA-4179 (Uranium)
Paul A. Peterson
Roger Nos. 1 and 2 Claims
Fremont County, Wyoming

Dear Mr. Traver:

The captioned application is referred to your office for either a field examination and report on the proposed project or the Field Team's recommendations based on information available to your office. Certain information has been requested from the Applicant. However, you may desire to schedule the examination, based on information available to your office, prior to receipt of the requested information.

Enclosed are copies of memoranda, dated February 21 and March 1, 1956, from Mr. John E. Crawford, USBM, and Mr. N. K. Nelson, USGS, respectively, relating to the subject project.

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

1. Nine copies of a map showing locations (if available) of ore bodies on adjoining Geddes property, and location of proposed work, all in relation to the property boundaries;

2. Bids from three contractors if drilling is to be done by an independent contractor; and

3. If the land to be included in the project was deeded to the Applicant and the former owner retained 5 percent royalty, we will require a Subordination Agreement executed by Vernon D. Ward. If, however, the land is controlled by means of an option to purchase, we will require

R.G.S.

a Consent to Lien, executed by Mr. Ward. In either case, request the Applicant to furnish the appropriate form.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (GCB)

Enclosures

APPROVED:

/s/ Robert W. Geehan (GCB)
Member, Bureau of Mines

Thor H. Kiilsgaard (GCB)
Member, Geological Survey

FLKnouse/gla/izm 3-6-56
cc to: Docket
Code 700
Mr. Knouse
Admr.'s Reading File
Operating Committee
Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA

Surname copy

700

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

F. L. Kemper
Ellis
Gechen
Kilgoore
Selfridge
G. E. Johnson

Mr. Paul A. Peterson
Buffalo, South Dakota

MAR 12 1956

Re: Docket No. DMEA-4179 (Uranium)
Roger Nos. 1 and 2 Claims
Fremont County, Wyoming

Dear Mr. Peterson:

The application for assistance in exploring your claims, under the captioned docket number, has been reviewed by the Rare and Miscellaneous Metals Division of the Defense Minerals Exploration Administration. It has been referred to the Executive Officer of Region III at the following address:

Mr. W. H. Traver
Executive Officer
DMEA Field Team, Region III
7th New Customhouse Building
Denver 2, Colorado

In the meantime, so the processing of your application will not be delayed, please clarify and furnish the following:

1. Your application states that the property you propose to explore, Roger Nos. 1 and 2, unpatented claims, were purchased from Vernon D. Ward and a 5 percent royalty is held by him. In this connection, we will require a copy of your agreement with Mr. Ward.

2. In the application you describe the claims as adjoining a group of three claims owned by Geddes Mining Company on which there has been extensive drilling operations that discovered several good beds of uranium-bearing ores; also, that you have good reasons to believe that the same ores are present on your claims, and you propose to explore your property by drilling 150 holes to depths of 50 to 250 feet. As you are using the Geddes ore bodies to justify your application, you should furnish a sketch of your claims showing the location, or approximate location, of these ore bodies with respect to the location of your proposed exploration work. If information is available, describe the ore bodies, i.e., size of bodies, thickness, grade, strike and dip, and any other local geological features as justification for the proposed project.

R.S.H.

Please send one copy of this information to Mr. W. M. Traver at the above address. Three copies of this information and one copy of your agreement with Mr. Ward should be forwarded to this office.

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

Sincerely yours,

E. O. Mittendorf

Administrator

FLKnouse/gla/izm 3-6-56

cc to: Docket
Code 700
Mr. Knouse
Admr.'s Reading File
Operating Committee
DMEA Field Team, Region III (2)
Messrs. JECrawford, Rm. 3641
THKillegaard, Rm. 5224
JOHosted, Rm. 3210, OSA

700

FILE COPY

Surname:

mailed:

visited:

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

Mr. Paul A. Peterson
Buffalo, South Dakota

Re: Docket No. DMEA-4179 (Uranium)
Roger Nos. 1 and 2 Claims
Fremont County, Wyoming

Dear Mr. Peterson:

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

In the meantime, so the processing of your application will not be delayed, please clarify and furnish the following:

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3/2/56 dgm

IN REPLY REFER TO:

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

RECEIVED
MAR - 2 1956

March 1, 1956

Re: DMEA 4179
Paul Peterson
Roger #1 and #2
Fremont Co., Wyoming
$8,510.00 - Uranium

Memorandum

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

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

Subject: Review of application.

The applicant requests assistance in doing bulldozer work and drilling on two claims, believed to be underlain by the Fort Union formation. Apparently no radioactive material has been found on the property, but by inference should be there because it is reported that the Geddes Mining Co. adjoining found ore by drilling.

No data concerning the results of the Geddes drilling are given and none are at hand.

The proposed work consists of:--

Bulldozing	$1,500.00
Drilling (300 hrs.)	4,500.00
Supervision	660.00
Supplies	1,500.00
Probing	150.00
Analyses	100.00
Contingencies	100.00
	$8,510.00

Probably the Field Team has information concerning the Geddes drilling and may be able to make a recommendation without having to make an examination of the small plot.

Referral to the Field Team for appropriate action is recommended.

N. E. Nelson

N. E. Nelson

IN REPLY REFER TO:

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

RECEIVED
MAR - 2 1956

March 1, 1956

Re: DMEA 4179
Paul Peterson
Roger #1 and #2
Fremont Co., Wyoming
$8,510.00 - Uranium

Memorandum

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

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

Subject: Review of application.

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Referral to the Field Team for appropriate action is recommended.

NENelson:iml
G-3/1/56
cc: Director's reading, 4212
Branch reading, 4212; DMEA (3);
Docket file; J. E. Crawford, 3641; J. O. Hosted, 3210

N. E. Nelson

N. E. Nelson

2-24-56 Lyn

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

RECEIVED
FEB 23 1956

February 21, 1956

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee, Room 4445

From: John E. Crawford, Bureau of Mines Member
Uranium Commodity Committee

Subject: Application for assistance, DMEA Docket 4179, Paul A. Peterson, Fremont County, Wyoming

I have reviewed the attached application of Paul A. Peterson, DMEA Docket 4179, dated February 10 and received in this office February 15. I have also discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

The applicant is desirous of exploring for uranium on claims located in Fremont County, Wyoming. The sole reason for requesting exploration assistance is apparently the proximity of the Geddes Mining Company's uranium operation to the claims of the applicant. There has been no evidence of uranium mineralization on the subject claims presented to DMEA, nor has sufficient geologic data been made available by the applicant to allow an evaluation of the property.

Because the application as submitted is incomplete and describes a prospecting venture, we suggest that it be denied. More information relative to mineralization on the subject property and adjoining claims, as well as maps and data describing the geologic features of the area, is required.

John E Crawford
John E. Crawford

Attachment

February 15, 1956
Subject: DMEA-4179
Re: Exploration Assistance
Roger #1 & Roger #2

Mr. Paul A. Peterson
Buffalo, South Dakota

My dear Mr. Peterson:

The receipt of your application dated February 10, 1956, for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-4179 and referred to the Rare & Misc. Metals Division.

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

Sincerely yours,

Robert E. Adams, Chief
Operations Control and
Statistics Division

February 15, 1956

Memorandum

To: Executive Officer, DMEA Field Team, Region III

From: Chief, Operation's Control and Statistics Division

Subject: Assignment of Docket Number

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

DMEA - 4179 Paul A. Peterson

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

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

RECEIVED
FEB 15 1956

February 13, 1956

224 New Customhouse
Denver 2, Colorado

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Application for DMEA Aid (Uranium), Paul A. Peterson, Roger No. 1 and No. 2 claims, Sec. 22, T. 28 N., R. 92 W., Fremont County, Wyoming

Enclosed are three copies of the subject application in the amount of $8,510.00. One copy of the application is being retained in our files.

W. M. Traver

W. M. Traver

Enclosures

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

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Denver 2, Colorado

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From: Executive Officer, DMEA Field Team, Region III

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W. M. TRAVER,

W. M. Traver

Enclosures

DMEA.
Date Rec'd.

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

FEB 15 1956

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

RECEIVED
FEB 15 1956 BUREAU OF MINES
Denver, Colorado

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

Not to be filled in by applicant

Docket No. DMEA-4179
Metal or Mineral Uranium
Date Received 2-15-56
Estimated Cost $8,510.00
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: PAUL A. PETERSON
Buffalo, So. Dak.

(*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 Sec. 22, Township 28N, Range 92W, 6th PM. Roger #1 filed in Book 104, page 65, Fremont County, Wyoming; and Roger #2 filed in Book 104, page 64, Fremont County, Wyoming.

(*b*) State any mine name by which the property is known. Roger #1 and Roger #2.

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise Unpatented claims purchased from Vernon D. Ward with a 5% royalty held by him.

(*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 will to explore uranium and other rare minerals.

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

(*c*) The work will start within 30 days and be completed within 6 months from the date of an exploration project contract.

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

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

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

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

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

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

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

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

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

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

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

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

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

[X] Money [X] Use of equipment owned by you [X] 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 2/10, 1956

Paul A Peterson
(Applicant)

By

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

Peterson Implement Company

Phones FR5-2225 - FR5-2215

BUFFALO, SOUTH DAKOTA

RECEIVED
FEB 15 1956

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

Paul A. Peterson, applicant: Buffalo So Dak

4.a. At present there is no mining work being done on ~~par~~ property.

b. None.

c. The claims are located in the Fort Union formation and the veins are imbedded. Claims join a group of three claims owned by Geddes Mining Company of Denver, Colorado, on which there was extensive drilling operations last year. They discovered several good beds of uranium bearing ore. The applicant has reasons to believe that the same ores are present on Roger #1 and Roger #2.

d. Dirt road leads to mine. Buying station located at Riverton, Wyoming, eighty-five miles distant. Seventy-five miles of this mileage is a blacktop road.

e. There is plenty of manpower drilling equipment and bulldozers available for this work. Water is also available.

5.b. Bulldozer work will consist of 100 hours to level sites for drilling operations. Drilling operations will consist of 150 holes drilledfrom 50 feet to 250 feet in depth, with a core drill to be used when checking samples of ore.

d. Applicant has had three years of experience in core drilling work searching for uranium in South Dakota and Wyoming. Work will be supervised by the applicant.

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Paul A. Peterson, applicant: Buffalo So Dak

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b. 400 hours supervision at $1.50 per hour and 20 hours geological consultants at $3.00 per hour.

c. Operating materials and supplies furnished by contractor. Drill bits to be furnished by applicant, bits to be priced at current market prices. Estimated cost of bits at this time $1500.00. We are unable to know at this time the cost of drill bits to be used because number of drill bits used depends upon type of formation being drilled.

d. One Nucliometer with 250 foot probe to be furnished by applicant. Purchase price $750.00, use allowance $150.00.

e. None.

f. None.

g. Chemical analysis of twenty samples at $5.00 per sample.

h. $100.00.

7.a. Yes.

Totals of estimated costs:

6.a.	$ 6000.00
b.	660.00
c.	1500.00
d.	150.00
g.	100.00
h.	100.00
	$ 8510.00

MF-103
(Revised April 1952)

DMEA
Date Rec'd. Crawford

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

FEB 13 1956

RECEIVED
FEB 15 1956
BUREAU OF MINES
Denver, Colorado

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Not to be filled in by applicant

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Participation (Government %)

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Dated 2/10/56, 195.

Paul A Patterson
(Applicant)

By

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

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Phones FR5-2225 - FR5-2215

BUFFALO, SOUTH DAKOTA

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e. None.
f. None.
g. Chemical analysis of twenty samples at $5.00 per sample.
h. $100.00.

7.a. Yes.

Totals of estimated costs:

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b.	660.00
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d.	150.00
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h.	100.00
	$ 8510.00