Crawford

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 31 1955

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. 3840
Metal or Mineral Uranium
Date Received 5-31-55
Estimated Cost 20,240.00
Participation (Government %) 75

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: EDWARD K. KEISER
1546 MAHANTONGO STREET
POTTSVILLE, PENNSYLVANIA

(*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 See survey map of KEYSTONE CLAIM GROUP, Outside boundries lined in red

(*b*) State any mine name by which the property is known. none

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

(*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 None

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

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

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

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

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

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

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

(*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 2 months from the date of an exploration project contract.

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

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

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

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

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

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

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

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

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

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

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

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

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

[X] Money [ ] Use of equipment owned by you [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 MAY 22, 1955

Edward K. Geisser

EDWARD K. GEISSER

By 1546 MAHANTONGO STREET

POTTSVILLE, PENNSYLVANIA

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

EDWARD K. KEISER
1546 MAHANTONGO STREET
POTTSVILLE, PENNSYLVANIA

Supplementary Information
Page 1

1.(b)
Partnership, Pennsylvania
(d)
Conway A. Ulmer
1709 Mahantongo Street
Pottsville, Pennsylvania

3.(f)
KEYSTONE CLAIM GROUP
Recorded Montrose County Court House Montrose, Colorado.

KEYSTONE #1	Location Certificate	Book	403	Page	268
	Map Recorded	do	407	do	377
KEYSTONE #2	Location Certificate	do	403	do	269
	Map Recorded	do	407	do	369
KEYSTONE #3	Location Certificate	do	403	do	270
	Map Recorded	do	407	do	370
KEYSTONE #4	Location Certificate	do	403	do	271
	Map Recorded	do	407	do	371
KEYSTONE #5	Location Certificate	do	403	do	272
	Map Recorded	do	407	do	372
KEYSTONE #6	Location Certificate	do	403	do	273
	Map Recorded	do	407	do	373
KEYSTONE #7	Location Certificate	do	403	do	274
	Map Recorded	do	407	do	374
KEYSTONE #8	Location Certificate	do	403	do	275
	Amended Location	do	409	do	30
	Map Recorded	do	407	do	375
KEYSTONE #9	Location Certificate	do	403	do	276
	Map Recorded	do	407	do	376
KEYSTONE #10	Claim Recorded May 20, 1955, I do not have Book and Page numbers yet.				

4.(a&c)
I have just completed drilling four holes across the long axis of the property, total combined footage of these holes were 1379 feet. The purpose of this operation was for the gathering of geological information and the establishment of elevations. (see Schedule and Claim Map) Samples were taken every five feet except in the ore sand which was sampled every three feet in hole #4 and every foot in hole #1. Holes nos. 2-3 were plugged drilled and were wet so no accurate information was recorded except the coring that was taken in hole 3 of the ore sand. Hole #1 was proved with a Harmacy, hole 4 with a Mabble, and nos.2-3 were examined by the cuttings, all holes were negative. Samples of holes were turned over to the Grand Junction Office of The U.S.A.E.C.
Results of my findings are as follows; All formations are in place with the exception of some rotted Dakota slump on the surface. The Brushey Basin Formation of The Morrison covers the entire area and is composed mainly wellbleachedgreen mute #1. In all cases The Upper Salt Wash Sand is of a desireable thickness, 60-65 feet, and is well bleached. The formations have a fairly constant dip of approximately 4°

GERARD N. KAISER
1346 CARMICHAELS MAIN ST
PERRYVILLE, PENNSYLVANIA

Supplementary Information
Page 2

4.(a-c) cont.
This work was completed May 1, 1955 at my own expense. The property is easily accessible on East West Carpenter Ridge Road that runs through The Pa Nat National Forest, see Roc Creek Quadrangle and Mt. Peale-1 Photogeologic Map, two roads have been built into the center of the claims from the Forest Road. I believe that as a result of my findings and the proximity of known ore in the vicinity ie. Valley View, Radium Cycle, and Pine Mines together with the fact that there has been no drillin in the area to speak of that further investigation through drilling is definately worth while.

4.(b)
none

4.(c)
see 4.(a)

4.(d)
Property is easily accessible through existing roads. Closest shipping point is The Saturita Mill about 35 miles. Supplies and residence would be Saturita, Colorado. However a mining camp would be advisable should a mine be established.

4.(e)
Manpower, material, supplies, and equipment are available at Saturita, Colorado. Water can be had from Buckeye Creek a distance of approximately four miles.

5.(b)
Refer To Claim Map
The proposed work would include 10,000 feet of drilling about 26 holes together with the necessary dozer work for cutting drill sites. The work to be done in three stages. I would drill 15 holes app 5200 feet spaced as shown in green on claim map. These holes are spotted to cover all the claims and take advantage of surface features as identified through aerial photos. Should this phase show favorable sands ect. I would recommend 7 more holes as indicated in blue on the claim map, this would be an additional 2,500 feet. Should any ore be discovered in either of these phases I would drill 6 more holes to offset any ore bearing hole. All holes are to be plug drilled down to the ore sand and then cored. Average depth is 290' Plug plus 60' coring

5.(d)
I have just completed 6mos of exploration work on the Plateau. Have had five years experience in Coal Mining & Stripping in Pennsylvania and West Virginia.

EDWARD K. [illegible]
1546 [illegible]TO SO STREET
POTTSVILLE, PENNSYLVANIA

6. ESTIMATE OF COST

I am submiting three bids: one from Sprague Henwood Inc. one from The Uranium Drilling Company, and one Contracting Myself. In addition to the bid of Sprague Henwood and The Uranium Drilling Company dozer work and supervision must be added. Ihave done this on an extra sheet and completed their bids.

7.(b)

If Sprague Henwood or Uranium Drilling Company is successful bidder I will furnish cash less $500.00 supervision per month at the rate of 125.00 a week.
If my bid is successful I will deduct my share of the cost with labor and material.

COPY

THIS COPY MADE BY E.K.KEISER
ORIGINAL IS WITH ORIGINAL COPY
OF THIS APPLICATION

May 23, 1955

Keiser Coal & Coke Company
Room 314, Schuylkill Trust Building
Pottsville, Pennsylvania

I am sending in my bid on drilling and coring on Carpenter Ridge.
$1.90 per ft. for drilling
$3.50 per ft. for coring

Any hole not to exceed over 450 ft. in depth. Any lost circulation over any one 8 hr. period will be charged to the second party. At the rate of $15.00 per hr.

On straight day work bid will be $150.00 for 10 hr. days work. Second party to furnish, all labor expense, fuel, bits, lost circulation material, mud and water and any other expense other than repairs.

Signed W.F. Hammond
Uranium Drilling Company
Minerals Building
Grand Junction, Colorado

COPY

EDWARD K. KEISER
1546 MAHANTONGO STREET
POTTSVILLE, PENNSYLVANIA

Break down and total of Uranium Drilling Company bid;

8120 ft @ $1.90 ft	$15,428.00	
1680 ft @ $3.50 ft	5,880.00	
		$21,308.00
Edw. K. Keiser Supervision 8 weeks @ $125.00 week	1,000.00	$1,000.00
D-6 Dozer @ $11.00 hr. 120 hrs	$1,320.00	$1,320.00
		$23,628.00

COPY

EDWARD K. KEISER
1546 HAMILTONIAN GIRLS
POTTSVILLE, PENNSYLVANIA

BID SUBMITTED BY EDWARD K. KEISER

Rental on Portadrill @$150.00 day 60 days		9,000.00
Compressor @$500.00 month 2 months		1,000.00
Water truck @25.00 day 60 days		1,500.00
Bits @$56.00 15		840.00
Core bit $1,200.00		1,200.00
Gas & oil @.30¢ 4800 gal		1,440.00
Labor		
Driller @$3.00 hr 600 hrs	1,800.0	
Helper @$1.50 hr 600 hrs	900.00	2,700.00
Supervision E. K. Keiser @155.00 wk 8 wks		1,240.00
D-6 Cat @$11.00 hr 120 hrs		1,320.00
		$20,240.00

COPY

May 23, 1955

Mr. Edward K. Kaiser
1546 Mahantongo
Pottsville, Penna.

Attn: Mr. Edward Kaiser

Gentlemen:

In accordance with our conversations, we herewith submit our proposal for drilling in the Buckeye Reservoir area, Montrose County, Colorado, as shown our representative, Mr. R. Williams.

Our proposal is as follows:

Non-Core Drilling

Item 1. From 0 to 400 ft. depth . . . . . $1.75 per ft.
Item 2. From 400 to 600 ft. depth . . . . . $2.10 per ft.

Core Drilling

Item 3. From 0 to 200 ft. depth . . . . . $2.75 per ft.
Item 4. From 200 to 400 ft. depth . . . . . $3.50 per ft.
Item 5. From 400 to 600 ft. depth . . . . . $4.50 per ft.

Delays

Item 6. For all delays required for radiometric logging or for any other reason required by customer. . . . . $12.00 per hr. per rig.

Transportation

Item 7. Transportation of crew and equipment to and from drill area $500.00

This item does not apply if total drilling exceeds 7,500 ft.

The above quotation is subject to the following conditions:

1. All drill hole locations will be accessible to Sprague & Henwood, Inc. truck mounted drills and water trucks. Any work required for the preperations and maintenance of the locations and access roads will be provided by the customer at no cost to Sprague & Henwood, Inc.

May 23, 1955
Grand Junction, Colorado

(Continued Quotation of Drilling)

2. Cores will be delivered at drill hole locations and the storage and preservation of such cores will be the responisbility of the customer.

3. All drill holes will be located in the field by the customer.

4. Prior to start of each hole, the non-core depth will be established by the customer. Any drilling beyond this depth will be based on the price schedule set out for core drilling.

5. Payments are to be made monthly based on completed holes. Prior to commencement of drilling, mutually satisfactory financial arrangements are to be made between Sprague & Henwood, Inc. and the customer.

6. Sprague & Henwood, Inc. agrees to start drilling within two weeks after receipt of order.

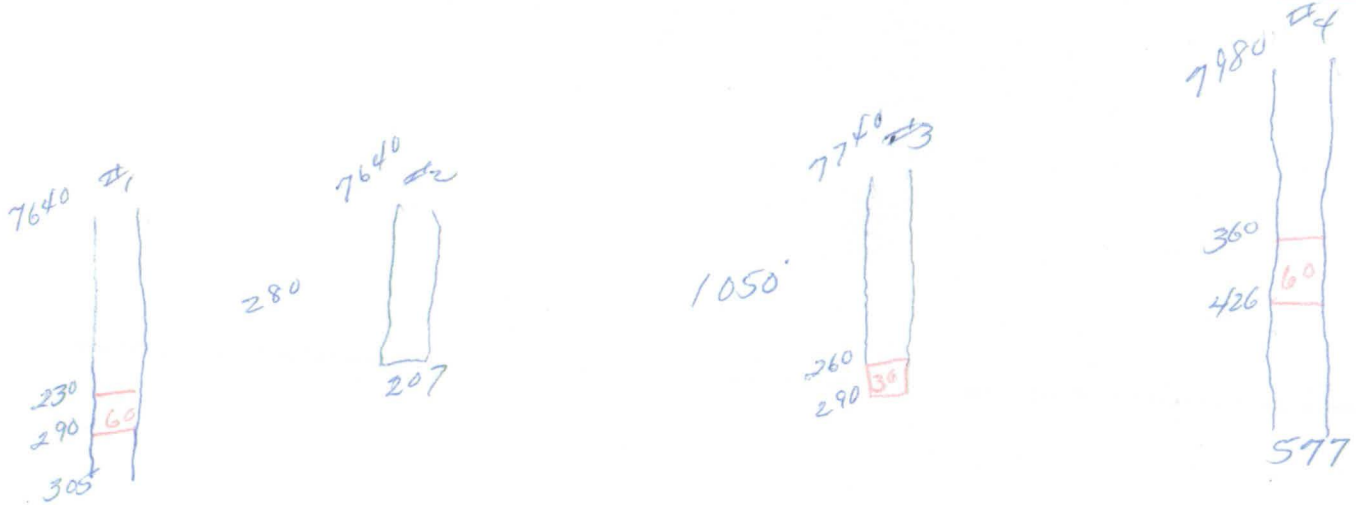
We thank you for the opportunity of quoting on this work and hope to be favored with your order.

Very truly yours,

SPRAGUE & HENWOOD, INC.

R. H. Carver

RRC:ab
CC:SCRANTON



DEPA
Belem
MAY

SCHEDULE B.

= over roads.

Surname copy

700

Murphy
Ellis
Gechen
Nelson
Selfridge

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

OCT 1 0 1955

Mr. Edward K. Keiser
1546 Mahantongo Street
Pottsville, Pennsylvania
and
Mr. Conway A. Ulmer
1709 Mahantongo Street
Pottsville, Pennsylvania
(Partners)

Re: Docket No. DMEA-3040 (Uranium)
Keystone claim group
Montrose County, Colorado

Gentlemen:

Your application for aid in an exploration project and other information available to us in Washington concerning your above-named property have been reviewed.

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

Careful study of all our information indicates to us that the probability of disclosing minable ore reserves by your proposed program is not sufficiently promising to justify Government participation. We regret to advise you, under these circumstances, that your application for exploration assistance is denied without prejudice to the property. If future work on or adjacent to 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, FMMurphy/gla 9-27-55
cc to: Admr.'s Reading File
Operating Committee
Docket
Messrs. JECrawford, Rm.3641
THKiilsgaard, Rm. 5221
JCHosted, Rm.3210, GSA
Code 700
Mr. Murphy
DMEA Field Team, RegionIII(2)

Frank E. Johnson

ACTING Administrator

cc: Mr. Conway A. Ulmer

R.C.G.

700

Murphy
Ellis
Nelson

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

October 19, 1955

Summary of Proposed Project

Object: Denial of application for exploration aid.

Docket No. DMEA-3840

Commodity: Uranium

Applicant: A partnership,
Edward K. Keiser, 1546 Mahantongo Street,
and Conway A. Ulmer, 1709 Mahantongo Street,
Pottsville, Pennsylvania

Property: Owners, 10 claims, Keystone Nos. 1 to 10, inclusive, situated in secs. 6 and 7, T. 47 N., R. 19 W., Montrose County, Colorado

Date of application: May 22, 1955
Referred to Field Team, June 20, 1955
Field Team report, September 19, 1955

Amount of application: $20,240.00

Work proposed: 28 drill holes in 3 stages, totaling 8,120 plug drilling and 1680 feet of core drilling.

Estimated Costs:

Labor and supervision	$ 3,940.00	
Equipment rental	12,820.00	
Materials and supplies	3,480.00	
Total		$20,240.00

Excerpts from Field Team Report:

The Keystone claims are located largely on exposures of the Brushy Basin member of the Jurassic Morrison formation in an area where general geologic conditions appear to be favorable for the occurrence of commercial ore deposits in the Salt Wash member, but there has been no actual discovery of ore-grade material, or even mineralization, in 4 holes already drilled on the claims,

or in any nearby property. The nearest ore body is 2 miles away. No trends which would indicate an extension of known mineralization towards the property have been established, and there are no definite objectives on which to base a drilling program.

It is concluded that the proposed exploration project does not meet minimum requirements for a DMEA project on the basis of the present information. At some future time, when drilling already under way or planned approaches the Keystone group, exploration results may justify DMEA exploration, but at this time it is recommended that the request for Government assistance be denied without prejudice.

Commodity Committee Members' comments:

U. S. Bureau of Mines - J. E. Crawford, September 29, 1955.

Concurs in Field Team's recommendation of denial.

U. S. Geological Survey - N. E.Nelson, October 4, 1955 (excerpts):

The four holes drilled on the Applicant's property gave inconclusive results. Other drilling is being done in the area and the examiners and Field Team recommend that the application be denied without prejudice, inasmuch as a better appraisal can be made at a later date.

Mr.Nelson concurs in the Field Team's recommendation.

Rare and Miscellaneous Metals Division,
F. M. Murphy - October 10, 1955

Although the proposed project is in an area favorable for uranium mineralization, the Field Team examiners state that no trend of mineralization on which to base an exploration program was evident at the present time. However, they recommend that if future drilling on or near the property indicates a favorable trend of possible mineralization, then a project on the subject property should be considered. In the meantime, the Field Team recommends a denial of the present application without prejudice. This Division concurs in this recommendation.

Ernest Wm. Ellis

Ernest Wm. Ellis, Chief
Rare and Miscellaneous
Metals Division

IN REPLY REFER TO:

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

RECEIVED
OCT - 1955

October 4, 1955

Re: DMEA 3840
Edward K. Keiser and
Conway A. Ulmer
Montrose Co., Colo.
$20,240.00 - 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 applicants requested Government participation in a program calling for 8,120 feet of plug and 1,680 feet of core drilling, in three stages.

The property the applicants proposed to drill is underlain by the Brushy Basin and Salt Wash members of the Morrison formation. Three small mines in the general area produced ore up the second and third quarters of 1944. The Valley View mine, 3/4 mile to the southeast is credited with 756.09 tons of about 0.49% U_3O_8 and 1.75% V_2O_5. The Radium Cycle mine is 1-1/4 miles, also to the southeast. It is credited with about 5,000 tons averaging 0.30% U_3O_8. The Lone Pine Group, 3/4 mile to the east, has produced probably not exceeding 1,500 tons.

The distances given are as shown on a Photogeologic Map, Mt. Peale -1, furnished with the application. The Field Team report says the nearest ore is at least two miles away.

Four holes drilled on the applicant's property gave inconclusive results. Other drilling is being done in the area and the examiners and Field Team recommend that the application be denied without prejudice, inasmuch as a better appraisal can be made at a later date.

I concur with the Field Team recommendation.

N. E. Nelson

N. E. Nelson

10/6/55 gla

IN REPLY REFER TO:

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

October 4, 1955

Re: DMEA 3840
Edward K. Kaiser and
Gussey A. Ulmer
Montrose Co., Colo.
$20,240.00 - Uranium

Memorandum

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I concur with the Field Team recommendation.

N. E. Nelson

N. E. Nelson

NENelson:iml
G-10/4/55
cc: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file; J. E. Crawford, 3641; J. O. Hosted, 3210

IN REPLY REFER TO:

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

October 4, 1955

Re: DMEA 3640
Edward K. Kaiser and
Conway A. Ulmer
Montrose Co., Colo.
$80,240.00 - Uranium

Memorandum

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Subject: Review of Field Team report.

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I concur with the Field Team recommendation.

N. E. Nelson

N. E. Nelson

NENelson:iml
G-10/4/55
cc: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file; J. E. Crawford, 3641; J. O. Hosted, 3210

IN REPLY REFER TO:

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

RECEIVED
OCT 11 1955

October 4, 1955

Re: DMEA 3040
Edward K. Kaiser and
Conway A. Ulmer
Montrose Co., Colo.
$20,240.00 - 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 applicants requested Government participation in a program calling for 5,120 feet of plug and 1,600 feet of core drilling, in three stages.

The property the applicants proposed to drill is underlain by the Brushy Basin and Salt Wash members of the Morrison formation. Three small mines in the general area produced ore up the second and third quarters of 1944. The Valley View mine, 3/4 mile to the southeast is credited with 756.09 tons of about 0.49% U_3O_8 and 1.75% V_2O_5. The Radium Cycle mine is 1-1/4 miles, also to the southeast. It is credited with about 5,000 tons averaging 0.30% U_3O_8. The Lone Pine Group, 3/4 mile to the east, has produced probably not exceeding 1,500 tons.

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N. E. Nelson

N. E. Nelson

NENelson:iml
G-10/4/55
cc: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file; J. E. Crawford, 3641; J. O. Rosted, 3210

9/30/55 gh

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

September 29, 1955

Memorandum

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

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

Subject: Report of Examination, DMEA Docket 3840, Edward K. Keiser and Conway A. Ulmer, Partners, Keystone claim group, Montrose County, Colorado

I have reviewed the report of examination, Keystone claim group, DMEA Docket 3840; and I have discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

Because the Field Team found little evidence suggesting the possibility of ore channels on the Keystone group of claims, we concur in the denial of this application. The Field Team determined that there was no geologic data which would indicate that the subject claims had more potential than any other undeveloped property in this area.

The comments of the Field Team affirm the opinions which we expressed in our memorandum of June 10 regarding the application of Messrs. Keiser and Ulmer. We had at that time recommended that the application be denied.

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

John E. Crawford
John E. Crawford

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

September 29, 1955

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BUREAU OF MINES
WASHINGTON 25, D. C.

September 29, 1955

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

John E. Crawford

9/29/55 gla

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

224 New Customhouse
Denver 2, Colorado

September 19, 1955

Memorandum

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

From: Field Team, Region III

Subject: Joint Report of Examination, Docket No. DMEA-3840 (Uranium), Edward K. Keiser and Conway A. Ulmer, Partners, Keystone claim group, Montrose County, Colorado.

Enclosed are the original and three copies of a joint engineering and geologic report of the subject application by H. M. Salsbury, U. S. Bureau of Mines and Carl H. Roach, U. S. Geological Survey, with a memorandum of transmittal and comment by E. N. Harshman and John F. Shaw.

The examining team is of the opinion that at the present time there is not sufficeient evidence of uranium mineralization to warrent a DMEA contract for exploration, even though the subject claims are in a geologically favorable area. They therefore recommend that the application be denied without prejudice.

We concur with their recommendation.

W. M. Traver

W. M. Traver

Enclosures

E. N. Harshman

E. N. Harshman

Reviewed by
DMEA OPERATING COMMITTEE
9-28-55

DMEA
Date Rec'd.

SEP 14 1955

BUREAU OF MINES
Region III
Denver, Colorado

TRANSMITTED

SEP 19 1955

Building 20
Denver Federal Center
Denver 2, Colorado
September 13, 1955

Memorandum

To: Executive Officer, DMEA Field Team, Region III

From: John F. Shaw
E. N. Harshman

Subject: DMEA 3840 (Uranium) Edward K. Keiser and Geneva A. Elmer, Keystone claims, Montrose County, Colorado.

Enclosed are the original and ten copies of a Joint Engineering and Geologic Report by M. H. Salsbury, mining engineer, and Carl H. Roach, geologist, covering docket DMEA 3840.

The applicants requested exploration assistance at an estimated cost of $20,240.00 to explore the Keystone groups of claims by 8,120 feet of plug-bit and 1,680 feet of core drilling. The property was examined on July 27, 1955. The examining team concluded that there was little possibility of discovering a significant amount of uranium by the proposed exploration. It is recommended that the application be denied.

John F. Shaw
John F. Shaw
Supervising Mining Engineer

E. N. Harshman
E. N. Harshman
Member Field Team

Enclosures

cc 10
EHHarshman
DMEA 3840
Chron

JFS/cm

9-28-55

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA 3840

Keystone Claims

Edward K. Keiser and Conway A. Ulmer

Montrose County, Colorado

Uranium

By

M. H. Salsbury
Mining Engineer
Bureau of Mines

Carl H. Roach
Geologist
Geological Survey

September 7, 1955

9-28-55

DMEA 3840

KEYSTONE CLAIMS
EDWARD K. KEISER AND CONWAY A. ULMER
MONTROSE COUNTY, COLORADO

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DMEA 3840

KEYSTONE CLAIMS
EDWARD K. KEISER AND CONWAY A. ULMER
MONTROSE COUNTY, COLORADO

JOINT ENGINEERING AND GEOLOGIC REPORT

By M. H. Salsbury and Carl H. Roach

INTRODUCTION

Edward K. Keiser, 1546 Mahantongo Street, Pottsville, Pennsylvania, and Conway A. Ulmer, 1709 Mahantongo Street, Pottsville, Pennsylvania, a partnership, has applied for Defense Minerals Exploration assistance in a plug and core-drilling program on claims owned by them on Carpenter Ridge, Montrose County, Colorado (fig. 1). The project calls for approximately 8,120 feet of plug drilling and 1,680 feet of core drilling, or about 28 holes in three stages at an estimated cost of $20,240.00, using the applicant's bid which is the lowest of three submitted. Government participation at 75 percent would be $15,180.00.

The property was visited on July 27, 1955 by M. H. Salsbury, and by Carl H. Roach on July 29. Mr. Keiser was contacted by phone in Pottsville in advance by J. William Hasler of the U. S. Geological Survey, but for the purposes of the examination, his presence did not appear to be essential, and it was not requested. The Atomic Energy Commission was contacted but was unable to furnish additional information.

The Keystone claims are located largely on exposures of the Brushy Basin member of the Jurassic Morrison formation in an area where general

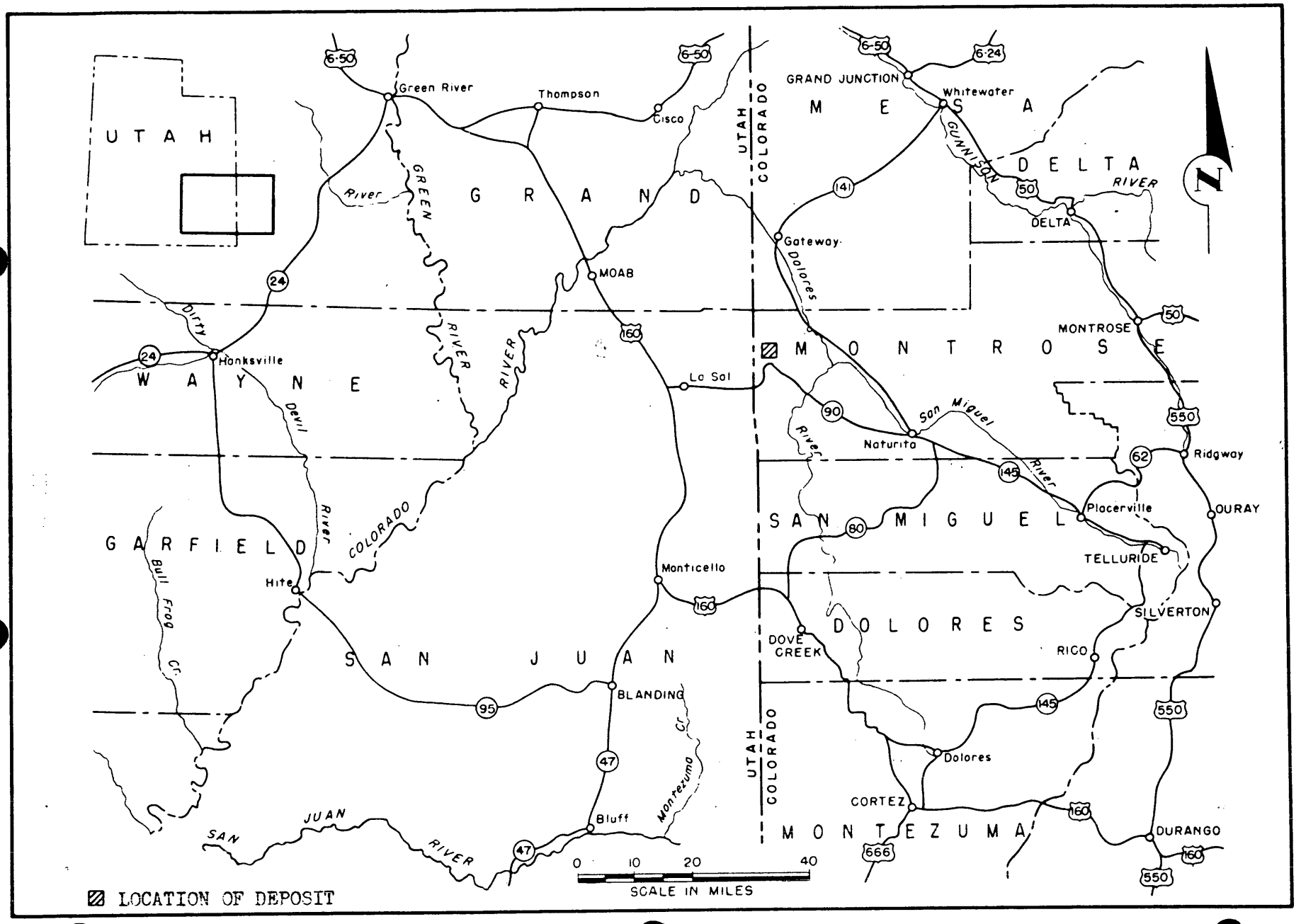


FIGURE 1 - LOCATION MAP, KEYSTONE CLAIMS, KE[illegible]R AND ULNER, MONTROSE COUNTY, COLO. DMEA 3840

geologic conditions appear to be favorable for the occurrence of commercial ore deposits in the Salt Wash member, but there has been no actual discovery of ore-grade material, or even mineralization, in 4 holes already drilled on the claims, or in any nearby property. The nearest known ore body is 2 miles away. No trends which would indicate an extension of known mineralization towards the property have been established, and there are no definite objectives on which to base a drilling program.

It is concluded that the proposed exploration project does not meet minimum requirements for a DMEA project on the basis of present information. At some future time, when drilling already underway or planned approaches the Keystone group, exploration results may justify DMEA exploration, but at this time it is recommended that the request for Government assistance be denied without prejudice.

ACKNOWLEDGEMENTS

Data on the property was furnished by the applicants, including a good topographic map showing the claims accurately surveyed with locations of holes already drilled or proposed. Louis Garbrecht of the Atomic Energy Commission and W. D. Carter, project chief for the U. S. Geological Survey in the area, were consulted. Carter furnished an evaluation of the geologic conditions in the area. No additional data was obtained from the Atomic Energy Commission.

LOCATION, TOPOGRAPHY AND CLIMATE

The ten located claims, Keystone Nos. 1 to 10, are in a compact

group on Carpenter Ridge in secs. 6 and 7, T. 48 N., R. 19 W., New Mexico principal meridian, Montrose County, Colorado (fig. 1). They are reached via a haulage road from Paradox, Colorado, 10 miles distant. Paradox is 28 miles from Naturita, Colorado, and 41 miles from Uravan, Colorado, via graveled Colorado Highway 90, where uranium-vanadium ore mills are located. Grand Junction is 147 miles farther via surfaced highways, or 107 miles via graveled or surfaced Colorado Highway 141. Mining timber is available locally, some items may be obtained in Naturita, Colorado, but most supplies must be shipped from Grand Junction, Colorado. Drilling and domestic water supplies are ample. Power would have to be furnished by diesel or gasoline-driven units.

The supply of labor for mining or exploration in the region is short, but personnel for drilling, usually furnished by a drilling contractor, would present no problem. A trailer camp would probably be established for the proposed exploration.

The region, at an altitude of about 8,000 feet, is a heavily forested mesa area in decided contrast to the more typical Colorado Plateau mining areas. The claims lie on a broad bench of Brushy Basin sediments and, except at the south end, access roads and drill sites are easily constructed.

The area enjoys substantial precipitation with frequent summer storms and moderate to heavy snowfall in winter which accumulates in the timber and remains until late spring. Surface operations have been carried on in winter, but are inadvisable unless the winter season is unusually open.

HISTORY AND PRODUCTION

Exploration and limited mining operations have been carried on in the general area since 1940, but not in the immediate vicinity of the applicant's claims. The Keystone group was located in the period December 1954 to May 1955. Surrounding claims were located in the same period. The applicant has drilled four holes on the property with inconclusive results.

There has been no production from the Keystone group or from any adjoining property. The nearest production has come from mines at least 2 miles away. Production figures up to the second and third quarters of 1954 on several properties as shown by records at the La Sal Creek camp of the Geological Survey, are given in Table 1. The Atomic Energy Commission gives the total to date for the Radium Cycle mine as about 5,000 tons of ore averaging 0.30 percent U_3O_8.

Table 1

Mine	Period	Tons	Content Percent U_3O_8	Content Percent V_2O_5
Radium Cycle	Prior to 1953	3,176.58	0.31	1.71
	1st quarter 1954	109.83	0.53	2.44
	2nd quarter 1954	46.38	0.55	2.56
	3rd quarter 1954	39.46	0.47	1.70
Valley View	1940 to 1944 (estimated)	100.00	0.60	2.41
	1948 to 1953	532.51	0.48	1.63

Mine	Period	Tons	Content Percent U_3O_8	Content Percent V_2O_5
Valley View (Cont'd)	1st quarter 1954	53.91	0.48	1.22
	2nd quarter 1954	69.67	0.20	0.80

OWNERSHIP AND EXTENT

The Keystone group of 10 claims has location dates on different claims between December 24, 1954, and May 17, 1955. All claims are located in the name of the applicants. The southernmost claim, Keystone No. 1, has the name of Robert Riddle on the certificate also. A. E. Riddle and Robert I. Riddle located most of the surrounding claims. The Keystone group has been surveyed, corners and discoveries are well marked and were easily found in the field (fig. 2). All claims in the area appear to have been laid out with careful attention to adjoining claim boundaries and there is apparently no question of validity or conflicting locations.

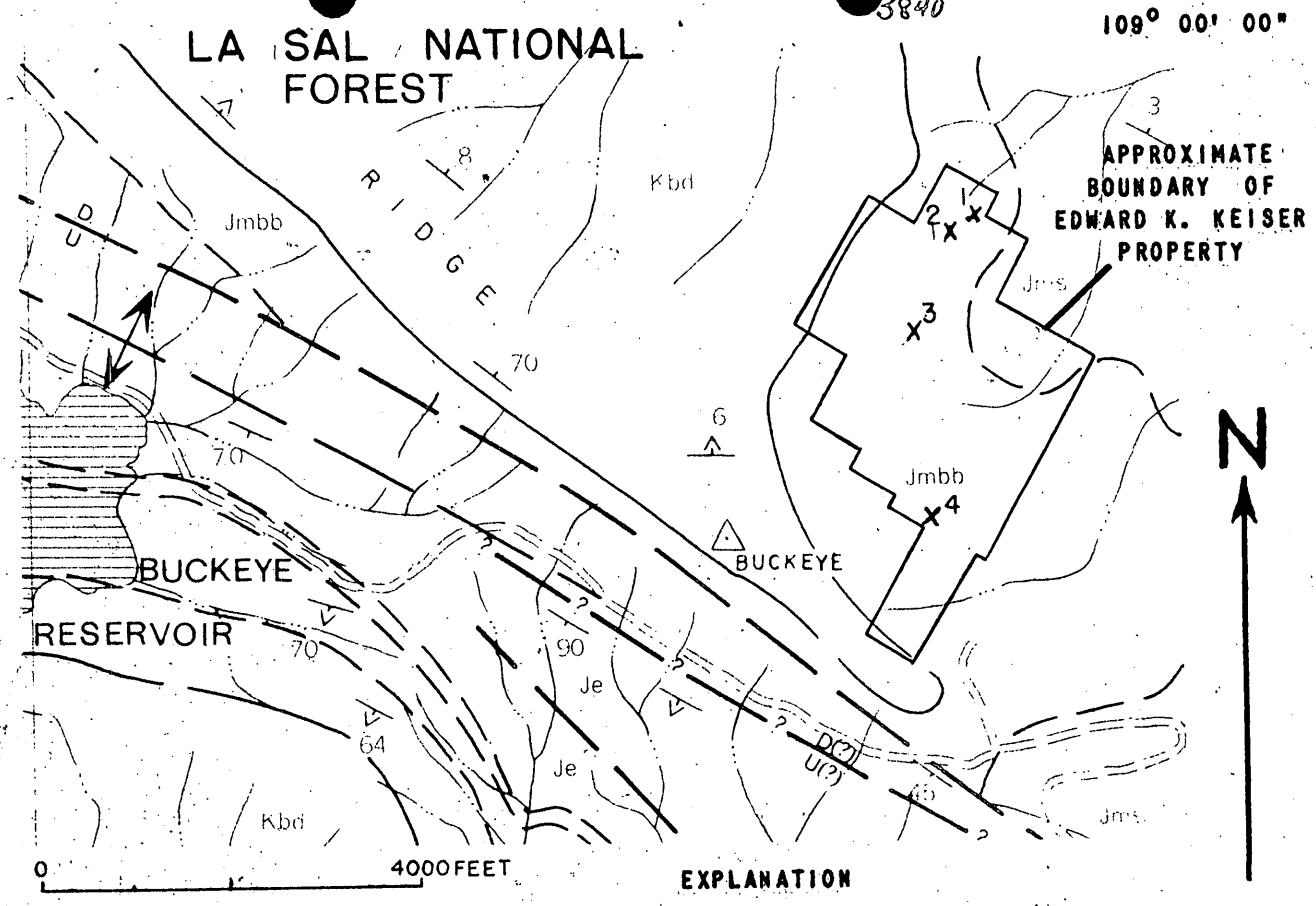
PRESENT STATUS

Exploration and development

Exploration to date on the property has consisted of two rotary drill holes, no. 2 and 3, and two churn drill holes, Nos. 1 and 4, at locations shown in figure 2. As logged by Carter, the rotary holes did not reach the potential ore horizon, and the churn drill holes penetrated favorable thickness of sandstone but no mineralization. However, Carter states that evaluation of the churn drill sludge was difficult and by no means certain.

U. S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
DOCKET NO. ~~3540~~ 3840
AUGUST 1955



EXPLANATION

Kbd	CRETACEOUS BURRO CANYON FORMATION AND DAKOTA SANDSTONE, UNDIFFERENTIATED
Jm: Jmbb, Jms	BRUSHY BASIN SHALE MEMBER, Jmbb SALT WASH SANDSTONE MEMBERS, Jms OF THE JURASSIC MORRISON FORMATION, Jm
Js	JURASSIC SUMMERVILLE FORMATION
Je	JURASSIC ENTRADA FORMATION
	FAULT
? ?	PROBABLE OR DOUBTFUL FAULT
	CONTACT (CAN BE ACCURATELY LOCATED WITHIN 30 FEET HORIZONTALLY)
	CONTACT (CAN BE APPROXIMATELY LOCATED WITHIN 30 TO 200 FEET HORIZONTALLY)
	CONTACT (CANNOT BE LOCATED ACCURATELY; PROBABLE ERROR GREATER THAN 200 FEET)
x4	LOCATION OF HOLES DRILLED BY APPLICANT

Note: GEOLOGY FROM U. S. GEOLOGICAL SURVEY PHOTOGEOLOGIC MAP, MT. PEALE 1. SECTION CORNER, AND PROPERTY BOUNDARIES FROM APPLICANT'S MAP.

Figure 2. GEOLOGIC MAP OF EDWARD K. KEISER PROPERTY AND ADJACENT AREAS, MONTROSE COUNTY, COLORADO

Mining and milling equipment and other facilities

No improvements other than access roads have been made.

GEOLOGY

Rocks cropping out in the area of the Keystone group of claims consists largely of the Brushy Basin member of the Jurassic Morrison formation. The Brushy Basin member consists of variegated shales and mudstones with minor amounts of fine-grained sandstones and conglomerate and is about 350 feet thick.

The Salt Wash member of the Morrison formation outcrops along the eastern boundary of the property and is the "ore-bearing horizon" in this area (fig. 2). The Salt Wash member is about 350 feet thick and consists mainly of fine- to medium-grained sandstone with some interbedded mudstone layers. The outcrops are covered by a dense growth of vegetation and little detail can be observed.

The Cretaceous Dakota and Burro Canyon formations outcrop along the western boundary of the area and consist mainly of coarse-grained sandstone and conglomerate with minor amounts of interbedded mudstone. The total combined thickness of the two formations, near the Keystone group of claims, is approximately 200 feet.

ORE DEPOSITS

There are no known ore deposits in the immediate area of the Keystone group of claims. The Valley View, Radium Cycle, and the Lone Pine mines are located about two or more miles east of the Keiser property.

The recorded production figures for the Valley View and Lone Pine mines indicate that they are small ore deposits, probably not exceeding 1,500 tons in size. About 5,000 tons of ore averaging about 0.30 percent U_3O_8 have been produced from the Radium Cycle mine.

ORE RESERVES

There are no ore reserves in any category on the property.

PROPOSED EXPLORATION

The applicant proposed to explore the property by three stages of plug and core drilling. Holes were to be plug drilled an average of 290 feet through the Brushy Basin member and cored an additional 60 feet to penetrate the potential ore-bearing sandstones in the upper part of the Salt Wash member. Holes were to be located on about 900 foot centers in the first stage and at intermediate points in the second stage. Third stage drilling was planned for offsetting any ore holes. Following is a tabulation of the drilling proposed.

Stage	Holes	Plug drilling feet	Core drilling feet	Total drilling feet
I	15	4,350	900	5,250
II	7	2,030	420	2,450
III	6	1,740	360	2,100
Totals	28	8,120	1,680	9,800

The applicants submitted three bids for the work, including their own which was the low bid, calling for a total expenditure of $20,240.00. Government participation at 75 percent would be $15,180.00. The unit cost on this basis is $2.07 per foot, a reasonable figure.

By their statement the applicants are prepared to furnish their share of the cost in services, equipment and cash.

CONCLUSIONS AND RECOMMENDATIONS

Although the Radium Cycle mine is a moderate sized ore deposit for this area, there is little evidence, to date, to suggest that the ore trends will traverse the Keystone group of claims. Future drilling is being planned on properties adjacent to the Keystone group of claims and the results of this exploration may indicate something concerning the potential of the Keiser property. At the present, there is no geologic evidence to indicate that the Keystone group of claims has more potential than any other undeveloped property in the area.

Although the drilling results have been inconclusive and the area can be considered as generally favorable geologically, still the proposed exploration does not meet the requirements for a DMEA project.

Denial of the application without prejudice is recommended.

/jw

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

RECEIVED
JUN 30 1955

224 New Customhouse
Denver 2, Colorado

June 24, 1955

Memorandum

To: J. F. Shaw W/Brochure
J. W. Hassler

From: DMEA Field Team, Region III

Subject: Docket DMEA-3840 (Uranium), Edward K. Keiser and Conway A. Ulmer, partners, (Keystone claim group), Montrose County, Colorado

Enclosed are copies of subject loan application for $20,240.00 including three drill bids, its transmittal by the Chairman of the Operating Committee and memoranda to E. W. Ellis from J. E. Crawford, USBM and R. D. Trace, USGS, members of the Uranium Commodity Committee.

Drilling to date on the property has been negative, and the closest uranium production is one or more miles away. However, to ascertain definitely its merits, after the usual check with the Grand Junction office of the AEC, a field examination and covering reports are required.

The Chairman of the Operating Committee requests that in the event a contract is recommended, the recording data for Keystone Claim No. 10 be furnished.

DMEA Field Team, Region III

W. M. Traver

W. M. Traver

E. N. Harshman

E. N. Harshman

WMT:sr

Enclosures

cc Harshman
Sec. Op. Comm. (2)
Subject
Chron

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

RECEIVED
JUN 30 1955

224 New Customhouse
Denver 2, Colorado

June 24, 1955

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J. W. Hassler

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DMEA Field Team, Region III

W. M. Traver

W. M. Traver

E. N. Harshman

E. N. Harshman

WMT:sr

Enclosures

cc Harshman
Sec. Op. Comm. (2)
Subject
Chron

700

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

Surname copy

F. L. Knouse
Ellis
Kulgoard
Hedges
Selbridge
Johnson

Mr. Edward K. Keiser
1546 Mahantongo Street
Pottsville, Pennsylvania
and
Mr. Conway A. Ulmer
1709 Mahantongo Street
Pottsville, Pennsylvania
(Partners)

JUN 20 1955

Re: Docket No. DMEA-3840 (Uranium)
Keystone Claim Group
Montrose County, Colorado

Gentlemen:

The application for assistance in exploring the subject property in Montrose County, Colorado, 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
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

Administrator

cc to: Mr. Conway A. Ulmer

FLKnouse/gla
6-17-55
cc to: Admr.'s Reading File
Docket
Code 700
Mr. Knouse
DMEA Field Team, Region III (2)

R.C.G.

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

Surname copy

F L Knouse
Ellis
Selfridge
K J Simon

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

JUN 20 1955

Re: Docket No. DMEA-340 (Uranium)
Edward K. Keiser and
Conway A. Ulmer, partners
Keystone Claim Group
Montrose County, Colorado

Dear Mr. Traver:

The captioned application is referred to Region III Field Team for either a field examination and report or recommendations for the proposed project based on information available to your office. A copy of the application and related information was forwarded to your office on June 1, 1955.

Enclosed are copies of memoranda from Mr. John E. Crawford, dated June 10, and Mr. R. D. Trace, dated June 15, 1955, members of the Uranium Commodity Committee.

If the Field Team recommends either the program as submitted, or an alternate one approved by the Applicant, please furnish us the necessary information to draft a contract. In this connection, please furnish the recording data for the Keystone Claim No. 10.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (JHB)

Enclosures

FLKnouse/gla
6-17-55
cc to: Admr.'s Reading File
Operating Committee
Docket ✓
Messrs. J. E. Crawford, Rm. 3641
T. H. Kiilsgaard, Rm. 5224
J. O. Hosted, Rm. 3210, GSA
Code 700
Mr. Knouse

APPROVED:

J. H. Hedges (JHB)
Member, Bureau of Mines

Thor H. Kiilsgaard (JHB)
Member, Geological Survey

R.G.G.

6/16/55 gla

IN REPLY REFER TO:

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

RECEIVED
JUN 16 1955

June 15, 1955

Re: DMEA-3840
Ed. K. Keiser
Keystone claims
Near Buckeye Res.
Montrose Co., Colo.
$20,240 - Uranium

Memorandum

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

From: R. D. Trace, U. S. Geological Survey

Subject: Review of application

The applicant proposes wide-spaced drilling of the Salt Wash on a group of claims where the Brushy Basin crops out. Holes depths would average 350 feet. The applicant has drilled 4 holes, all barren. The applicant indicates that uranium has been mined about 1 to 2 miles from his property.

I have no information about the nearby mines. At first glance, the area appears to be "a little off the beaten track", but this idea may merely reflect my lack of information.

I suggest that this application be referred to the Field Team.

RD Trace

R. D. Trace

IN REPLY REFER TO:

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

RECEIVED
JUN 16 1955

June 15, 1955

Re: DMEA-3840
Ed. K. Keiser
Keystone claims
Near Buckeye Mes.
Montrose Co., Colo.
$20,240 - Uranium

Memorandum

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

From: R. D. Trace, U. S. Geological Survey

Subject: Review of application

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I have no information about the nearby mines. At first glance, the area appears to be "a little off the beaten track", but this idea may merely reflect my lack of information.

I suggest that this application be referred to the Field Team.

R. D. Trace

RDTrace:hln
G-6/15/55

Copy to: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
J. E. Crawford, 3641 Interior
J. O. Nested, 3210 GSA

6/13/55 gla

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

RECEIVED
JUN 13 1955

June 10, 1955

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 3840, Keystone Claim group, Montrose County, Colorado

I have reviewed the attached application, Keystone Claim group, Montrose County, Colorado, and I have discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

We recommend that the application of Edward Keiser be denied, inasmuch as the four holes previously drilled on the property by the applicant were all barren of uranium mineralization. There is no evidence available which would justify approval of Mr. Keiser's request for assistance.

John E Crawford
John E. Crawford

Attachment

June 1, 1955

Subject DMEA-3840
Re Exploration Assistance
Keystone Claim Group

Edward K. Keiser
1546 Mahantongo St.,
Pottsville, Penna.

Dear Sir;

The receipt of your application dated May 22, 1955 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-3840 and referred to the Rare & Miscellaneous 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

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED
MAY 31 1955

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. 3840
Metal or Mineral Uranium
Date Received 5-31-55
Estimated Cost 20240.00
Participation (Government %) 75

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: EDWARD K. KEISER (2 partners) See address for
1546 MAHANTONGO STREET Conway A. Klopfer
POTTSVILLE, PENNSYLVANIA on page 2

(*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 See survey map of KEYSTONE CLAIM GROUP, Outside boundries lined in red

(*b*) State any mine name by which the property is known. none

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

(*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 None

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

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

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

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

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

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

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

(*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 2 months from the date of an exploration project contract.

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

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

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

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

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

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

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

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

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

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

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

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

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

[x] Money [ ] Use of equipment owned by you [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 MAY 22, 1955

Edward K. Keiser

EDWARD K. KEISER
(Applicant)

By 1546 MAHANTONGO STREET

POTTSVILLE, PENNSYLVANIA

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

EDWARD K. KEISER
15[illegible] MAHANTONGO STREET
POTTSVILLE, PENNSYLVANIA

Keiser Coal and Coke Company

Telephone 6151

Room 314, Schuylkill Trust Building
POTTSVILLE, PENNSYLVANIA

Supplementary Information
Page 1

Bureau Mineral Administration
RECEIVED
MAY 3 1 19[illegible]

1.(b)
Partnership, Pennsylvania
(d)
Conway A. Ulmer
1709 Mahantongo Street
Pottsville, Pennsylvania

3.(f)
KEYSTONE CLAIM GROUP
Recorded Montrose County Court House Montrose, Colorado.

KEYSTONE #1	Location Certificate	Book	403	Page	268
	Map Recorded	do	407	do	377
KEYSTONE #2	Location Certificate	do	403	do	269
	Map Recorded	do	407	do	369
KEYSTONE #3	Location Certificate	do	403	do	270
	Map Recorded	do	407	do	370
KEYSTONE #4	Location Certificate	do	403	do	271
	Map Recorded	do	407	do	371
KEYSTONE #5	Location Certificate	do	403	do	272
	Map Recorded	do	407	do	372
KEYSTONE #6	Location Certificate	do	403	do	273
	Map Recorded	do	407	do	373
KEYSTONE #7	Location Certificate	do	403	do	274
	Map Recorded	do	407	do	374
KEYSTONE #8	Location Certificate	do	403	do	275
	Amended Location	do	409	do	30
	Map Recorded	do	407	do	375
KEYSTONE #9	Location Certificate	do	403	do	276
	Map Recorded	do	407	do	376
KEYSTONE #10	Claim Recorded May 20, 1955, I do not have Book and Page numbers yet.				

4.(a&c)
I have just completed drilling four holes across the long axis of the property, total combined footage of these holes were 1379 feet. The purpose of this operation was for the gathering of geological information and the establishment of elevations. (see Schedule B and Claim Map) Samples were taken every five feet except in the ore sand which was sampled every three feet in hole #4 and every foot in hole #1. Holes nos. 2-3 were pluged drilled and were wet so no accurate information was recorded except the coring that was taken in hole 3 of the ore sand. Hole #1 was probed with a Barnaby, hole #4 with a Babble, and nos.2-3 were examined by the cuttings, all holes were negative. Samples of holes were turned over to the Grand Junction Office of The U.S.G.S.
Results of my findings are as follows; All formations are in place with the exception of some rotted Dekota slump on the surface. The Brushey Basin Formation of The Morrison covers the entire area and is composed mainly of well bleached green mud. In all cases The Upper Salt Wash Sand is of a desireable thickness, 60-65 feet, and is well bleached. The formations have a fairly constant dip of approximately 4 degrees from DH#4 to#1.

Keiser Coal and Coke Company

EDWARD K. KEISER
146 MAHANTONGO STREET
POTTSVILLE, PENNSYLVANIA

Telephone 6151

Room 314, Schuylkill Trust Building
POTTSVILLE, PENNSYLVANIA

4.(a&c) cont.
This work was completed May 1, 1955 at my own expense. The property is easily accessible on East West Carpenter Ridge Road that runs through The La Sal National Forest, see Roc Creek Quadrangle and Mt. Peale-1 Photogeologic Map, two roads have been built into the center of the claims from the Forest Road. I believe that as a result of my findings and the proximity of known ore in the vicinity ie. Valley View, Radium Cycle, and Pine Mines together with the fact that there has been no drilling in the area to speak of that further investigation through drilling is definately worth while.

4.(b)
none

4.(c)
see 4.(a)

4.(d)
Property ia easily accessible through existing roads. Closest shipping point is The Naturita Mill about 35 miles. Supplies and residence would be Naturita, Colorado. However a mining camp would be advisable should a mine be established.

4.(e)
Manpower, material, supplies, and equipment are available at Naturita, Colorado. Water can be had from Buckeye Creek a distance of approximately four miles.

5.(b)
Refer To Claim Map
The proposed work would include 10,000 feet of drilling about 28 holes together with the necessary dozer work for cutting drill sites. The work to be done in three stages. I would drill 15 holes app 5200 feet spaced as shown in green on claim map. These holes are spotted to cover all the claims and take advantage of surface features as identified through aerial photos. Should this phase show favorable sands ect. I would recommend 7 more holes as indicated in blue on the claim map, this would be am additional 2,500 feet. Should any ore be discovered in either of these phases I would drill 6 more holes to offset any ore bearing hole. All holes are to be plug drilled down to the ore sand and then cored. Average depth is 290' Plug plus 60' coring

5.(d)
I have just completed 6mos of exploration work on the Plateau. Have had five years experience in Coal Mining & Stripping in Pennsylvania and West Virginia.

Keiser Coal and Coke Company

EDWARD K. KEISER
1[illegible]5 MAHANTONGO STREET
POTTSVILLE, PENNSYLVANIA

Telephone 6151

Room 314, Schuylkill Trust Building
POTTSVILLE, PENNSYLVANIA

6. ESTIMATE OF COST

I am submiting three bids: one from Sprague Henwood Inc. one from The Uranium Drilling Company, and one Contracting Myself. In addition to the bid of Sprague Henwood and The Uranium Drilling Company dozer work and supervision must be added. Ihave done this on an extra sheet and completed their bids.

7.(b)

If Spregue Henwood or Uranium Drilling Company is successful bidder I will furnish cash less $500.00 supervision per month at the rate of $125.00 a week.

If my bid is successful I will deduct my share of the cost with labor and material.

May 23, 1955.

Keiser Coal & Coke Company
Room 314, Schuylkill Trust Building
Pottsville, Pennsylvania.

I am sending in my bid on drilling and coring on Carpenter Ridge.
$1.90 per ft. for drilling
$3.50 per ft. for coring

Any hole not to exceed over 450 ft.in depth. Any lost circulation over any one 8hr. period will be charged to second party. At the rate of $15.00 per hr.

On straight day work bid will be $150.00 for 10 hr. days work. Second party to furnish, all labor expense, fuel, bits, lost circulation material, mud and water and any other expense other than repairs.

W F Hammond

W. F. Hammond
Uranium Drilling Company
Minerals Building
Grand Junction, Colo.

EDWARD K. KEISER
15[illegible] MAHANTONGO STREET
POTTSVILLE, PENNSYLVANIA

Keiser Coal and Coke Company

Telephone 6151

Room 314, Schuylkill Trust Building
POTTSVILLE, PENNSYLVANIA

Colorado Minerals Adm.
RECEIVED
MAY 31 1955

Break down and total of Uranium Drilling Company bid;

8120 ft @ $1.90 ft	$15,428.00	
1680 ft @ $3.50 ft	5,880.00	
		$21,308.00
Edw. K. Keiser Supervision 8 weeks @ $125.00 week	$1,000.00	$1,000.00
D-6 Dozer @ $11.00 hr. 120 hrs	$1,320.00	$1,320.00
		$23,628.00

EDWARD K. KEISER
546 MAHANTONGO STREET
POTTSVILLE, PENNSYLVANIA

Keiser Coal and Coke Company

Telephone 6151

Room 314, Schuylkill Trust Building
POTTSVILLE, PENNSYLVANIA

Bureau of Mines
Bureau Minerals Administration
RECEIVED

BID SUBMITTED BY EDWARD K. KEISER

Rental on Portadrill @$150.00 day 60 days		$9,000.00
Compressor @$500.00 month 2 months		1,000.00
Water truck @25.00 day 60 days		1,500.00
Bits @$56.00 15		840.00
Core bit $1,200.00		1,200.00
Gas & oil @.30¢ 4800 gal		1,440.00
Labor		
Driller @$3.00 hr 600 hrs	$1,800.00	
Helper @$1.50 hr 600 hrs	900.00	2,700.00
Supervision E. K. Keiser $155.00 wk 8 wks		1,240.00
D-6 Cat @$11.00 hr 120 hrs		1,320.00
		$20,240.00

MANUFACTURERS OF
DIAMOND DRILLS
DRILLING EQUIPMENT
DIAMOND BITS

BRANCH OFFICES
NEW YORK · PITTSBURGH
PHILADELPHIA
GRAND JUNCTION, COLO.

EXECUTIVE OFFICES & PLANT
221 W. OLIVE STREET
SCRANTON, PA.

SPRAGUE & HENWOOD, INC.

SINCE 1883

CONTRACTORS FOR
DIAMOND DRILLING
SHOT DRILLING · SOIL SAMPLING · PRESSURE GROUTING
WATER WELLS & CHURN DRILLING

PLEASE REPLY TO
P. O. BOX 645
GRAND JUNCTION, COLO.
TELEPHONE 834

MAY 31 1955

May 23, 1955

Mr. Edward K. Kaiser
1546 Mahantongo
Pottsville, Penna.

Attn: Mr. Edward Kaiser

Gentlemen:

In accordance with our conversations, we herewith submit our proposal for drilling in the Buckeye Reservoir area, Montrose County, Colorado, as shown our representative, Mr. R. Williams.

Our proposal is as follows:

Non-Core Drilling

Item 1. From 0 to 400 ft. depth . . . . . $1.75 per ft.
Item 2. From 400 to 600 ft. depth . . . . . $2.10 per ft.

Core Drilling

Item 3. From 0 to 200 ft. depth . . . . . $2.75 per ft.
Item 4. From 200 to 400 ft. depth . . . . . $3.50 per ft.
Item 5. From 400 to 600 ft. depth . . . . . $4.50 per ft.

Delays

Item 6. For all delays required for radiometric logging or for any other reason required by customer. . . . . $12.00 per hr. per rig.

Transportation

Item 7. Transportation of crew and equipment to and from drill area $500.00

This item does not apply if total drilling exceeds 7,500 ft.

The above quotation is subject to the following conditions:

1. All drill hole locations will be accessible to Sprague & Henwood, Inc. truck mounted drills and water trucks. Any work required for the preperations and maintenance of the locations and access roads will be provided by the customer at no cost to Sprague & Henwood, Inc.

FORM 5—3-55—25M

SPRAGUE & HENWOOD, INC.

Administration
MAY 31 1955

May 23, 1955
Grand Junction, Colorado

(Continued Quotation of Drilling)

2. Cores will be delivered at drill hole locations and the storage and preservation of such cores will be the responisbility of the customer.

3. All drill holes will be located in the field by the customer.

4. Prior to start of each hole, the non-core depth will be established by the customer. Any drilling beyond this depth will be based on the price schedule set out for core drilling.

5. Payments are to be made monthly based on completed holes. Prior to commencement of drilling, mutually satisfactory financial arrangements are to be made between Sprague & Henwood, Inc. and the customer.

6. Sprague & Henwood, Inc. agrees to start drilling within two weeks after receipt of order.

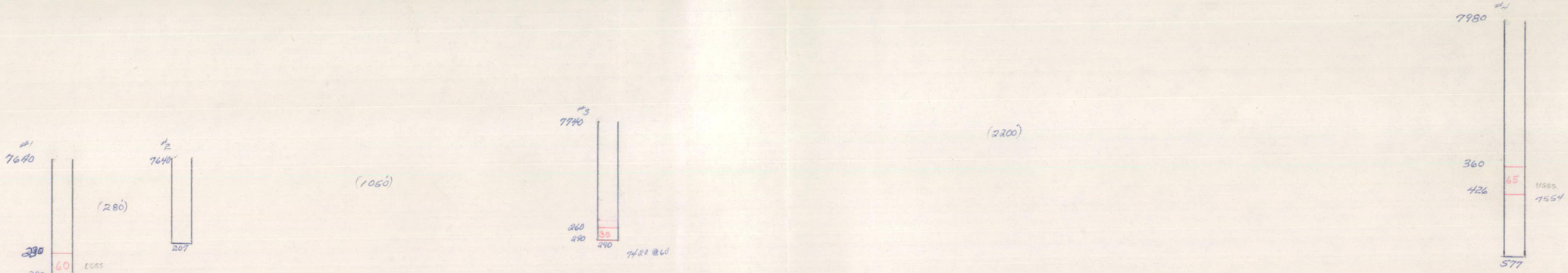
We thank you for the opportunity of quoting on this work and hope to be favored with your order.

Very truly yours,

SPRAGUE & HENWOOD, INC.

R. R. Carver

RRC:ab
CC:SCRANTON



4% Dip Hole

6379'

N 15° E 1-N

Keystone Claim Group

E.K. Keiser

= ORE SANDS.

SCHEDULE "B"

PLEASE RETURN TO
EDWARD K. KEISER
1546 MAHANTONGO STREET
POTTSVILLE, PENNSYLVANIA

Bakersville, N. C.

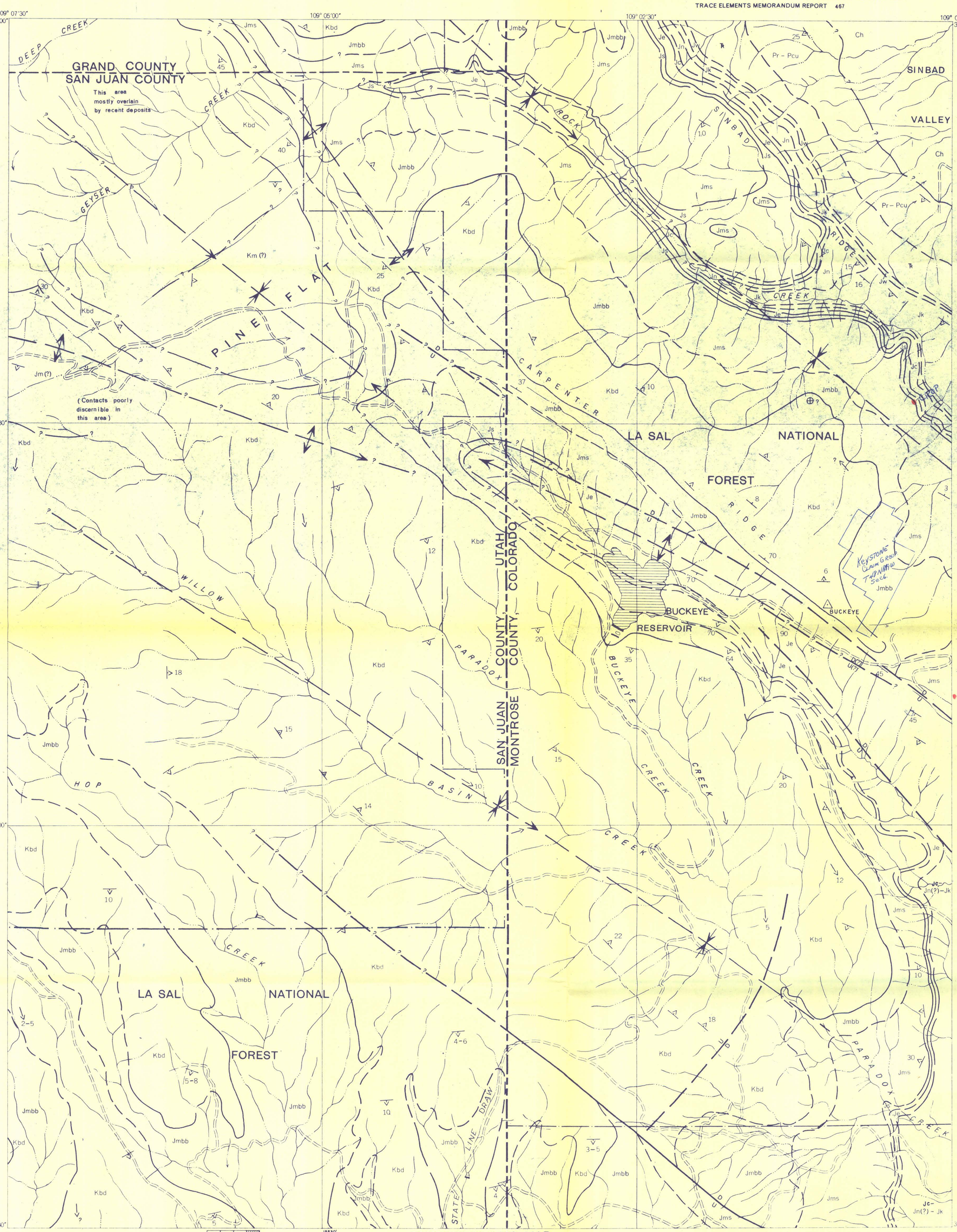
Mr. Lawrence G. Hawk, Chief
Nonmetallic Minerals Division
U. S. Dept. of the Interior, D. M. E. A.
Washington 25, D. C.

U. S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH THE
ATOMIC ENERGY COMMISSION

COMPILATION OF PHOTOGEOLOGY AND SURFACE GEOLOGY
COLORADO PLATEAU AREA, UNITED STATES

TRACE ELEMENTS MEMORANDUM REPORT 467



EXPLANATION

CRETACEOUS	Upper	Km	Mancos shale
	Lower	Kbd	Burro Canyon formation and Dakota sandstone, undifferentiated
JURASSIC	Upper	Jm: Jmbb, Jms	Morrison formation Brushy Basin shale member, Jmbb; Salt Wash sandstone members, Jms
		Js	Summerville formation
		Je	Entrada formation
	Middle	Jc	Carmel formation
		Jn	Navajo sandstone
JURASSIC (?)		Jk	Kayenta formation
		Jw	Wingate sandstone
TRIASSIC		TR	Triassic Rocks undivided
PERMIAN		Pcu	Cutler formation
		Pr	Rico formation
CARBONIFEROUS	Pennsylvanian	Ch	Hermosa formation

Contact (Can be accurately located within 30 feet horizontally)

Contact (Can be approximately located within 30 to 200 feet horizontally)

Contact (Cannot be located accurately; probable error greater than 200 feet)

Probable or doubtful contact

Fault (Dashed where approximately located)

Probable or doubtful fault

High-angle fault (U, upthrown side; D, downthrown side)

Anticline Showing trace of axial plane and direction of plunge (Dashed where approximately located)

Doubtful or probable anticline

Syncline Showing trace of axial plane and direction of plunge (Dashed where approximately located)

Doubtful or probable syncline

Strike and dip of beds (Based on field measurement)

Strike and dip of beds (Based on photo-interpretation)

Horizontal beds

Dip component

Secondary road

Trail

Reservation boundary, National or State

State boundary

County boundary

Note

All the Triassic rocks have been mapped as one unit since correlation with the thicker sections west of the area are uncertain. These rocks are probably equivalent to the Chinle formation of Upper Triassic age

BASE MAP COMPILED BY SOIL CONSERVATION SERVICE
U. S. DEPT. OF AGRICULTURE
AUGUST 1952

4	3	2	1
5	6	7	8
12	11	10	9
13	14	15	16

MT. PEALE QUADRANGLE

TRUE NORTH 15°30'

PHOTOGEOLOGIC MAP
MT. PEALE - 1
GRAND AND SAN JUAN COUNTIES, UTAH
MONTROSE COUNTY, COLORADO

PHOTOGEOLOGY BY R. J. HACKMAN
PHOTOGEOLOGY UNIT, ALASKAN GEOLOGY BRANCH
SCALE 1:24,000
0 1 MILE

NIELSEN BLUE PRINT CO., INC
108 North 3rd St. Phone 2124
Grand Junction, Colorado

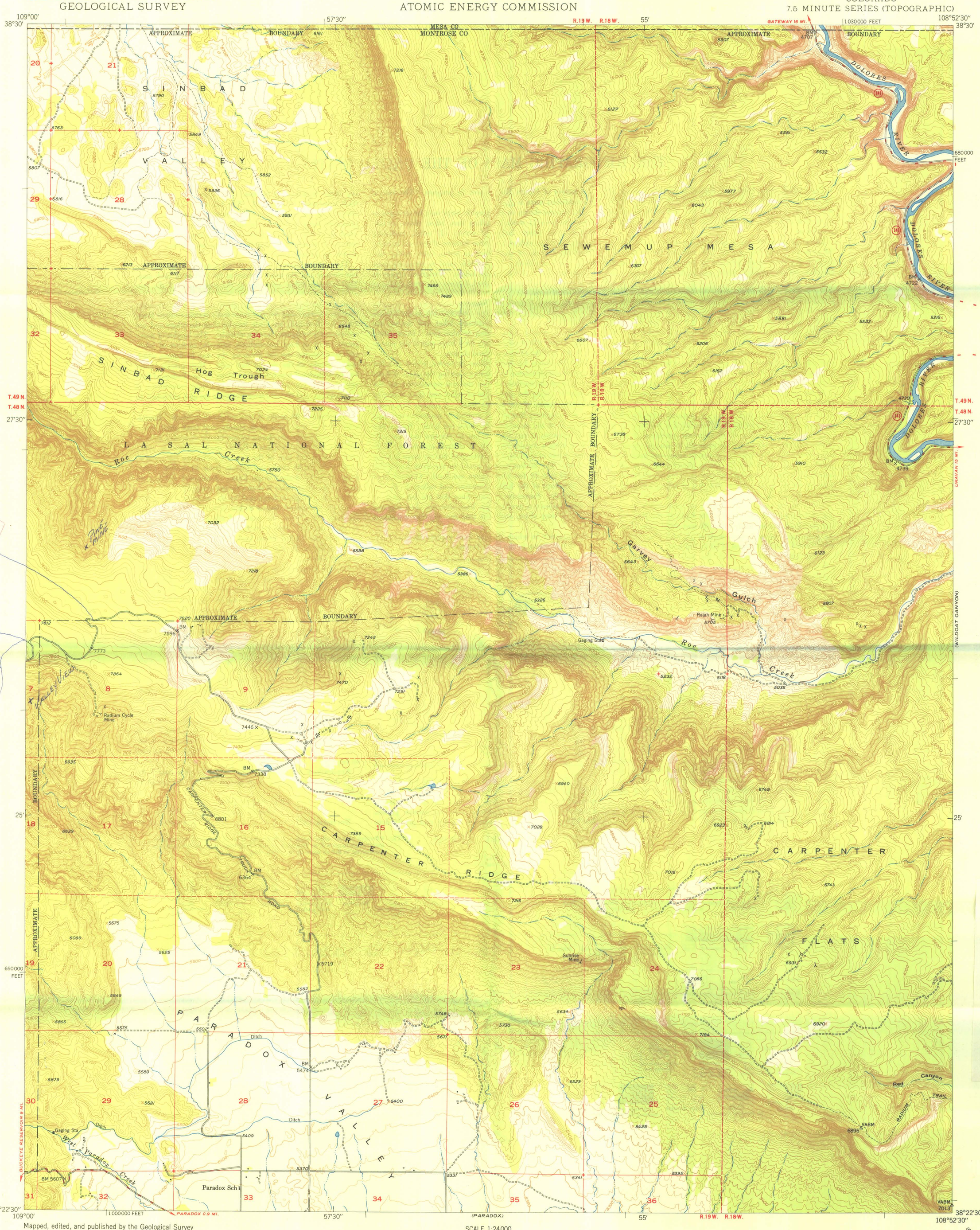
Stratigraphic column modified from Colorado Geol. Survey Bull. 16; U. S. Geol. Survey Strategic Minerals Inv., Geologic map of vanadium region of southwestern Colorado and southeastern Utah, by R. P. Fischer, 1944; and Oil and Gas Inv., Prelim. Map 93.

U 268 NE

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

UNITED STATES
ATOMIC ENERGY COMMISSION

ROC CREEK QUADRANGLE
COLORADO
7.5 MINUTE SERIES (TOPOGRAPHIC)



Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography from aerial photographs by multiplex methods
Aerial photographs taken September 1947. Field check, 1948

Polyconic projection. 1927 North American datum
10,000-foot grid based on Colorado coordinate system, south zone.

Dashed land lines indicate approximate location
Land lines omitted in part of T.48N.–R.18W., T.48N.–R.19W., T.49N.–R.18W. and T.49N.–R.19W. because of insufficient data

TRUE NORTH
MAGNETIC NORTH
15°
APPROXIMATE MEAN DECLINATION, 1948

SCALE 1:24000

1 ½ 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO OR WASHINGTON 25, D. C.

ROAD CLASSIFICATION

HARD-SURFACE ALL WEATHER ROADS		DRY WEATHER ROADS
Heavy-duty	4 LANE 16 LANE	Improved dirt
Medium-duty	4 LANE 16 LANE	Unimproved dirt
Loose-surface, graded, or narrow hard-surface		

U. S. Route — State Route

ROC CREEK, COLO.
N3822.5—W10852.5/7.5

EDITION OF 1949

URANIUM PROSPECTOR SERVICE
503 Rood Ave.
Grand Junction, Colo.

PLEASE RETURN TO
EDWARDK. KEISER
1546 MAHANTONGO STREET
POTTSVILLE, PENNSYLVANIA

U. S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH THE
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COMPILATION OF PHOTOGEOLOGY AND SURFACE GEOLOGY COLORADO PLATEAU AREA, UNITED STATES

TRACE ELEMENTS MEMORANDUM REPORT 467

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- Upper: Km — Mancos shale
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- Js — Summerville formation
- Je — Entrada formation
- Middle: Carmel formation
- Navajo sandstone
- Jn — Kayenta formation
- Wingate sandstone

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- TR — Triassic Rocks undivided

PERMIAN
- Pcu — Cutler formation
- Pr — Rico formation

CARBONIFEROUS
- Pennsylvanian: Ch — Hermosa formation

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MS-3-1-1

BASE MAP COMPILED BY SOIL CONSERVATION SERVICE
U. S. DEPT. OF AGRICULTURE
AUGUST 1952

PLEASE RETURN TO
EDWARD K. KEISER
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4	3	2	1
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TRUE NORTH 18°30'

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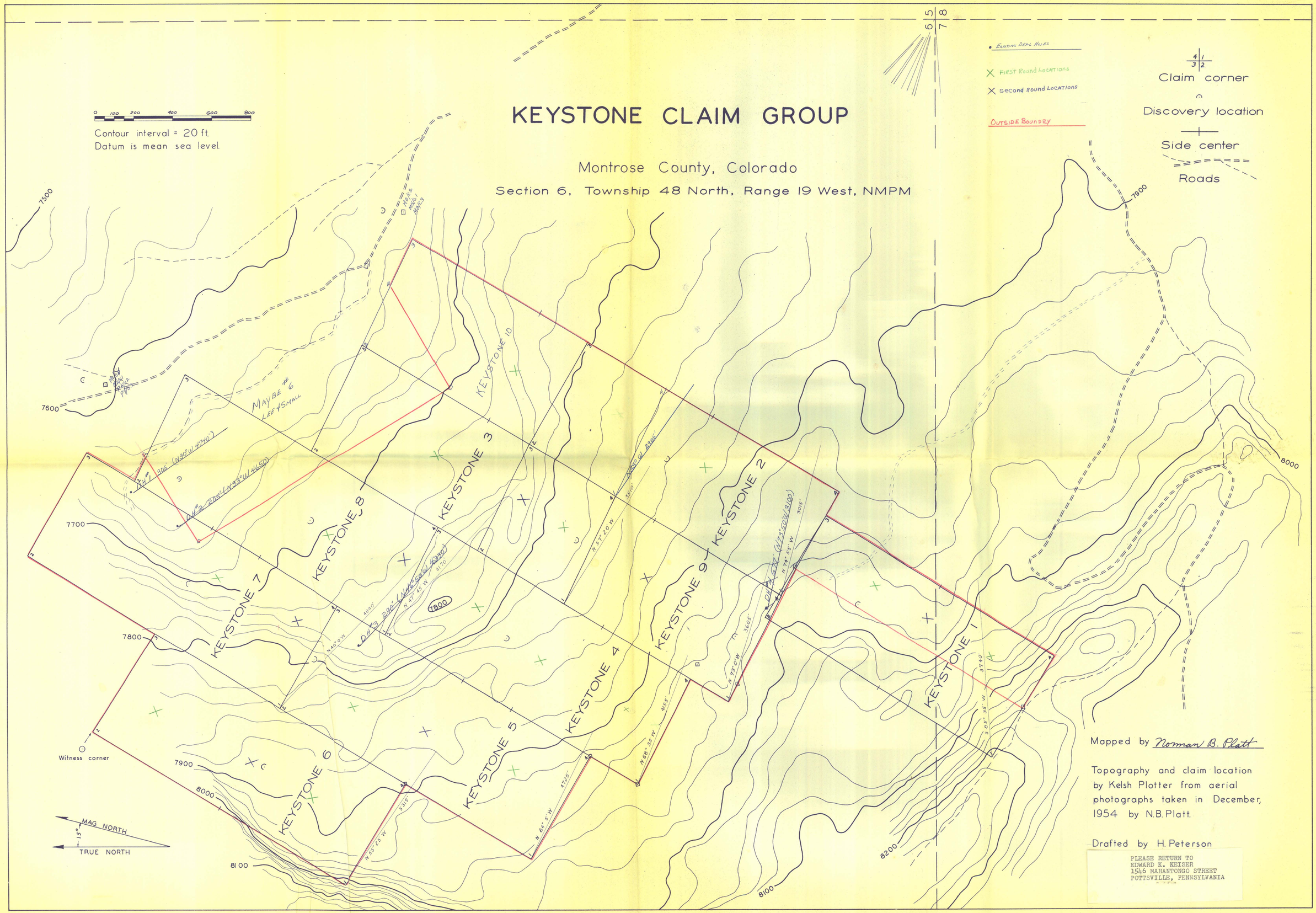
URANIUM PROSPECTOR SERVICE
503 Rood Ave.
Grand Junction, Colo.

KEYSTONE CLAIM GROUP

Montrose County, Colorado

Section 6, Township 48 North, Range 19 West, NMPM



Mapped by Norman B. Platt

Topography and claim location by Kelsh Plotter from aerial photographs taken in December, 1954 by N.B. Platt.

Drafted by H. Peterson

PLEASE RETURN TO
EDWARD K. KEISER
1546 MAHANTONGO STREET
POTTSVILLE, PENNSYLVANIA