DMEA Form 9

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE

DMEA NO. 4529

Application (Denied ✓
(Withdrawn
(After disposition, delete items not applicable)

Contract (Terminated - not Certified
(Cancelled
(Terminated - Certified
(Royalty Agreement

This is the official contract file containing all official records of the project. The records contained in the files are checked and are arranged in this order:

Left Side

Interim Royalty Audits
Reports of Royalty Review
Certification of Discovery
Certificate of Audit (Final)
Interim Audit(s)
Report of Review
Termination Notice or Agreement
Recision Notice
Assignment of Contract
Contract Amendments (latest on top)
Contract with all exhibits and annexes
Owner's Consent to Lien
Subordination Agreement
✓Leases and assignments of leases
✓Application and attachments
(3) Envelope for maps

Right Side

✓Project summary
Work completed analysis
All other material is filed in chronological order with correspondence including the following reports as checked:

Final Field Team Report (Tab)
Operator's Final Report
(2R) Interim Reports
(2R) Operator's monthly reports and all attachments (latest on top)
✓On-site Exam Report(s) (Tab)
(4) Settlement Sheets

When the volume of records is expected to warrant additional folders, or when convenience of reference warrants separate folders for certain records, they should be set up in this order:

Left Side

Folder No. 2: (In chron. order)
Interim Summary Reports by W. O. Engineers

Right Side

Operator's Semi-Annual Report for Certified Project, Field Team Interim Reports, Operator's Monthly Report with transmittal, narrative, maps, and Field Team review.

Folder No. 3: Maps (Use pocket folder or envelope. Fold maps with title block out and show reference to related document or correspondence.)

Folder No. 4: Settlement Sheets

Folder No. 5: Drill Logs

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

RECEIVED NOV 2 1956 D.M.E.A.

224 New Customhouse
Denver 2, Colorado

October 31, 1956

Memorandum

To: Secretary to the Operating Committee, DMEA

From: DMEA Field Team, Region III

Subject: Application for DMEA aid (Uranium), Frank A. Neun, (Root Ranch), Gilpin County, Colorado

Enclosed are three copies of the subject application in the amount of $21,800.00.

Two typed and signed copies of the mining lease and two illegible photocopies accompanied the application. One of the signed copies is attached for your use and one is being retained with our copy of the application.

DMEA Field Team, Region III

W. M. Traver

By W. M. Traver
Executive Officer

Enclosures

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED NOV 2 1956 D.M.E.A.

DMEA
DEPARTMENT OF THE INTERIOR

OCT 30 1956
REGION III
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. 4529
Metal or Mineral Uranium
Date Received 11-2-56
Estimated Cost $21,800
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: FRANK A. NEUN, 612 Olive Street, St. Louis 1, Missouri.

(*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

(*b*) State any mine name by which the property is known.

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

(*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 plan to explore .....

.....

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

☒ Money ☐ Use of equipment owned by you ☐ Other

Explain in detail on acompanying paper.

CERTIFICATION

The undersigned, whether as an individual, corporate officer, partner, or otherwise, both in his own behalf and acting for the applicant, certifies that the information set forth in this form and accompanying papers is correct and complete, to the best of his knowledge and belief.

Dated 29 Oct, 1956

Frank A. Nenn
(Applicant)

By D. V. Workman agent

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

Applicant: FRANK A. NEUN, 812 Olive Street, St. Louis 1, Missouri.

RECEIVED NOV 2 1956 D.M.E.A.

2. Enclosed.

3. (a) The W½ of NW¼, Sec. 29; the NE¼ Sec. 30; the NE¼ of NW¼ Sec. 30. Also the following described land -- Beginning at a point 13.18 chains North of the Quarter Section post in the South boundary of Section 19; thence; South 46° 39' West 25.15 chains; thence South 60° West 4.58 chains; thence South 8° 36' West 13.86 chains; thence East 34.24 chains to the East boundary of the Northwest Quarter of Section 30; thence North 33.18 chains to the place of beginning; all land being in Township 3 South, Range 72 West, Gilpin County, Colorado.

(b) Formerly known as "Root Ranch".

(c) Applicant is lessee of all mineral rights from S. Marvin James of Denver. (Photo copy of lease is Exhibit 1)

(d) Copy of lease submitted.

(e) No liens or encumbrances exist, other than provisions for royalty payments on future production.

(f) Not applicable.

4. (a) The land contains several abandoned gold mines of ancient age, and several open pits where prospecting for uranium was conducted by others no longer having any interest. My interest as lessee is absolute as to all mineral rights. The property is easily accessible for examination as to the western portion where the major exploration is to be conducted. It is reached by the main Virginia Canyon Highway north 3.6 miles from Idaho Springs; thence 1.7 miles over county highway eastward, making two left turns; thence over 1.2 miles road constructed by By Gilpin County on about August 1, 1956, for the purpose of this mining operation, ending at the mining area.

A diagram of the present operation is Exhibit 2.

(b) None. Except that under Source Material License No. P-3256 to Frank A. Neun, shipment of some ore is contemplated.

(c) The property is traversed with E-W trending porphyries and pegmatites enclosed in Pre-Cambrian granite, gneiss and schist. Uranium mineralization can be seen in one pit 8-foot deep which has been dug on the property; also in a trench 4 feet deep and about 40 feet in length that has been dug approximately 50 feet north of the pit. Several tons of mineralized pegmatite which were removed from the pit has been stockpiled, and appear to run about .25% U_3O_8, using a standardized Geiger counter as an indicator. Samples removed from this stockpile showed the following chemical assays:

Sample No.	% U_3O_8
1	0.27
2	0.78
3	1.20

Three 25-pound samples from the same stockpile and sent to the Union Carbide Nuclear Company at Rifle, Colorado, showed the following:

	Radiometric % U_3O_8		Chemical
Sample No.	Beta	Beta-gamma	U_3O_8
491-1	0.51	0.65	0.56
491-2	0.17	0.21	0.19
491-3	0.21	0.27	0.23

Walking the property with a Scintillator shows radiometric anamalies which appear to be along the trends of the pegmatite dykes. We wish to further prospect the property, as the ore seen in place and also the many anomalies present show much stronger than is normal for pegmatite dykes observed in other parts of Clear Creek and Gilpin Counties.

(d) The property is easily accessible for examination as to the western portion where the major exploration is to be conducted. It is reached by the main Virginia Canyon Highway north 3.6 miles from Idaho Springs; thence 1.7 miles over county highway eastward, making two left turns; thence over 1.2 miles road constructed by Gilpin County on about August 1, 1956, for the purpose of this mining operation, ending at the mining area. The distance to Union Carbide Nuclear Company at Rifle, Colorado, is 160 miles on paved road.

(e) Manpower, materials, supplies, equipment, water, and power fully available in Idaho Springs and Denver, Colorado.

5. (a) Uranium.

(b) The proposed work consists of the following:

Stage No. 1:

Consists of 7 trenches 5 feet deep, and approximately 50 feet in length, as shown on attached property map. These trenches are to be dug across the pegmatite dykes so as to expose the dykes and also the contacts on each side of the dykes. The dykes are for the most part covered with one to three feet of overburden, and it is planned to expose a 5-foot solid face across the dykes.

Stage No. 2:

Provided Stage No. 1 results are promising then Stage No. 2 would consist of driving a 400-foot drift to explore the most promising areas underground.

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

(d) The applicant has had little mining experience but is a good business man, and is at present a practicing attorney in St. Louis, Missouri. D. V. Watrous, a registered mining engineer, who has had many years of practical mining experience, will supervise the operation.

6. Stage No. 1:

(a)	Independent contracts. 350 lineal feet of trenching, 5 feet deep, 5 feet wide in solid rock,	at $10.00 per foot,	$3,500.00
(b)	Supervision and engineering consultant,		700.00
(c)	Furnished by contractor		
(d)	Furnished by contractor.		
(e)	None		
(f)	None		
(g)	Chemical assays for U_3O_8,	40 at $5.00	200.00
(h)	None		
		Total Stage No. 1,	$4,400.00

Stage No. 2: Will not be undertaken if Stage No. 1 proves the ground to be unfavorable.

(a)	Independent contracts. Driving 400 feet of 5 x 7 drifts	at $40.00 per foot,	16,000.00
(b)	Supervision and engineering consultant,		1,200.00
(c)	Furnished by contractor		
(d)	Furnished by contractor		
(e)	None		
(f)	None		
(g)	Chemical assays for U_3O_8,	40 at $5.00	200.00
(h)	None		
		Total Stage No. 2,	$17,400.00
		Total Stages Nos. 1 and 2,	$21,800.00

MINING LEASE

THIS INDENTURE, made this 9th day of October, 1956, between S. MARVIN JAMES of Denver, State of Colorado, party of the first part, and FRANK A. NEUN of St. Louis, State of Missouri, party of the second part, WITNESSETH, that the said party of the first part, for and in consideration of the rents, covenants and agreements hereinafter expressed to be paid, kept and performed by the said party of the second part, has leased, let and demised, and by these presents does lease, let and demise unto the said party of the second part, his heirs and assigns, the following described premises, situate, lying and being in the CENTRAL CITY-IDAHO SPRINGS MINING DISTRICT, in the County of GILPIN, and State of COLORADO, to-wit:

Full and unlimited mineral rights in and to the following two parcels:

Parcel One consisting of the eastern half of the northeastern Quarter of Section 30 and the western half of the northwestern Quarter of Section 29, T3S, R72W; and

Parcel Two consisting of the western half of the northeastern Quarter of Section 29, and all land and mineral rights owned by the lessor in the northwestern Quarter of Section 30, including that portion of two parcels described in Book 180, page 134, and that portion of said Quarter Section 30 contained within the following description by metes and bounds, to-wit: Beginning at a point 13.18 chains North of the Quarter Section post in the South boundary of Section 19; thence South 46° 39' West 25.15 chains; thence South 60° West 4.58 chains; thence South 8° 36' West 13.86 chains; thence East 34.24 chains to the East boundary of the Northwest Quarter of Section 30; thence North 33.18 chains to the place of beginning T3S, R72W; comprising in both parcels about 320 acres;

And in addition party of the second part shall have the first right of refusal prior to the sale or parting of all or any interest on the part of party of the first part in and to the mineral rights in the following described premises, and in addition party of the second part shall have the option during the term of this lease to also lease all or any part of the following described premises under the same terms on the basis of $4,000.00 advance royalty per quarter section, to-wit:

South half of the Northeast Quarter of Section 19; and Northeast Quarter of the Northeast Quarter of Section 19; and Southeast Quarter of Section 19; and

Southwest Quarter of the Northwest Quarter of Section 20; and Portion of North half of the northwest Quarter of Section 20 described in Book 160, page 134; and

Eastern Half of the Northwest Quarter of Section 29; and all land and mineral rights owned by the lessor in the Southwest Quarter of Section 19 included in the description by metes and bounds set forth above in T3S, R72W, comprising about 479.04 acres.

The same to include all easements, rights of way, and the right to use as much of the surface as necessary for mining purposes.

TO HAVE AND TO HOLD THE SAME, for the purpose of mining for the term of five years, with option in second party to renew the lease for additional five year periods, as desired, from the date hereof, unless sooner terminated under any of the provisions herein contained, with no power to assign this lease or any interest thereunder, or to sublet the whole or any part of said premises unless by the written consent of the party of the first part, except that the parties hereto expressly agree to the assignment of the interest of second party to a corporation in which party of the second part shall be a principal officer.

And the said party of the second part, for and in consideration of the leasing of said premises, covenants and agrees with said party of the first part to commence work on said premises within a reasonable time, and to continue mining operations thereon, and this lease shall continue in force as long as party of the second part shall promptly file his application for a Defense Minerals Exploration Administration Loan, and then so long as work goes forward under the provisions of said loan, and for such time as is necessary for the completion of said exploration and development work, and thereafter so long as second party or its assigns is in good faith conducting mining operations upon the leased premises. And said party of the second part agrees to render accurate accounts and a monthly statement to said party of the first part showing the amount and character of the work done, and to pay said party of the first part as rental for said premises royalty upon all ore taken and sold therefrom as follows, to-wit:

Royalties shall be paid upon all minerals according to the following percentages based upon the gross price per ton actually received by second party from the purchaser or milling company, but not including any reimbursements for transportation or haulage, and not including development allowances, bonus payments, or any other payments not actually included in the sale price of the mineral or ore, to-wit:

12-1/2 percent of the gross paid on ore netting $100.00 per ton or less;
15 percent of gross paid on ore netting $101.00 to $200.00 per ton;
20 percent of gross paid on ore netting $201.00 to $300.00 per ton;
25 percent of gross paid on ore netting $301.00 to $400.00 per ton;

30 percent of gross paid on ore netting $401.00 to $500.00 per ton; and
35 percent of gross paid on ore netting $501.00 or more per ton.

Said party of the second part hereby guarantees a minimum royalty of at least $8,000.00 per year or $4,000.00 per Quarter Section on each of the Quarter Sections leased herein, payable on the First Day of June 1957, and thereafter on the First Day of June of each year, and all royalty payments made to party of the first part upon ore shipped from said premises shall be credited against the amount of the advance royalty hereby guaranteed, provided that should the said guaranteed minimum not be paid when due then this lease shall be subject to cancellation by the lessor, but no liability shall thereafter attach to the lessee by reason of failure to pay the minimum royalty provision herein.

It is further expressly understood and agreed that all payments of royalty shall be made upon the assay value of the mineral in the ore, and that the royalty shall be promptly paid on the first day of each month upon all ores extracted and delivered and on which payment has been received from the purchaser prior to the fifteenth day of the preceding month.

And said party of the second part furthermore covenants that the party of the first part, his agent or attorney, shall have the right to enter upon and inspect all parts of said premises, make surveys or take samples, and that said party of the second part will render any assistance required. And said party of the second part covenants to occupy and hold all veins, spurs or lodes discovered, and not to allow any person not in privity with the parties totake possession of same under any pretense whatever, and to pay in due season all taxes and assessments levied against said demised premises on account of the production of ore under this lease.

And the said party of the second part furthermore covenants that in case he fails in any respect to keep and fulfill any of the covenants or agreements herein expressed or implied, then, and in that case it shall be lawful for the said party of the firstpart, his agent or attorney, to declare said term ended, and with or without process of law to enter upon and take possession of said premises, and

in such case, and also at the expiration of this lease by limitation, said party of the second part agrees to surrender, yield and deliver to said party of the first part quiet and peaceable possession of said premises in good condition, ordinary mining operations excepted, and that time shall be of the essence hereof, and that all of the covenants and agreements herein contained shall extend to and be binding upon the heirs, executors, administrators, successors and lawful assigns of the respective parties hereto.

IN WITNESS WHEREOF, the parties hereto have executed these presents the day and year first above written.

S. Marvin James

S. Marvin James

Frank A. Neun

Frank A. Neun

STATE OF COLORADO)
City &) SS
COUNTY OF DENVER)

Before me a Notary Public personally appeared S. MARVIN JAMES, to me known to be the person whose name is subscribed to the within instrument, and acknowledged that he executed the foregoing instrument as his own free act and deed for the uses and purposes specified therein.

Vera C. Landin

Notary Public

My Commission expires:

June 7, 1959

STATE OF MISSOURI)
) SS
CITY OF ST. LOUIS)

Before me a Notary Public personally appeared FRANK A. NEUN, to me known to be the person whose name is subscribed to the within instrument, and acknowledged that he executed the foregoing instrument as his own free act and deed for the uses and purposes specified therein.

Dathyl A. Hauf
Notary Public

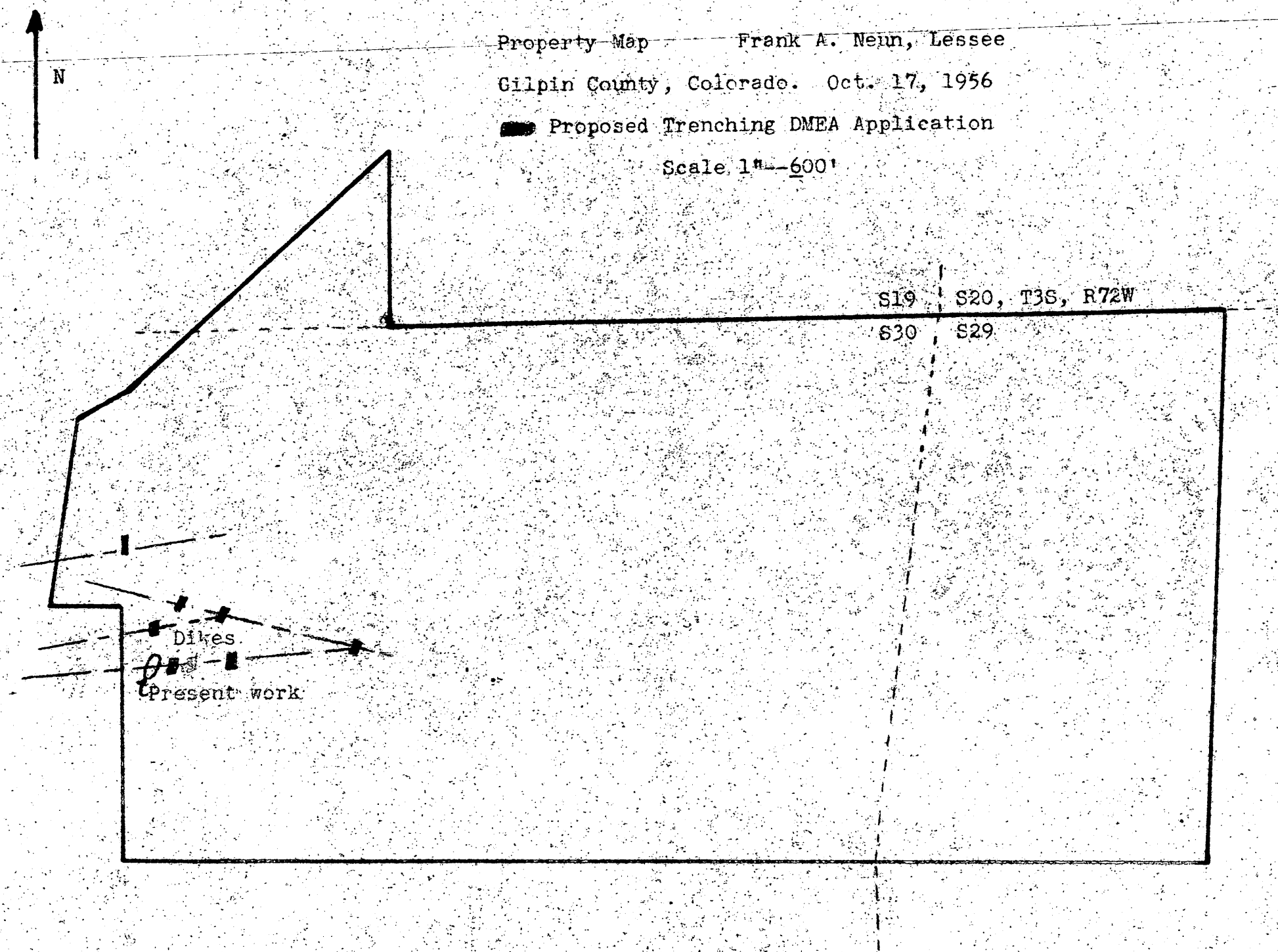
My Commission expires:
October 16, 1958

Property Map Frank A. Neun, Lessee

Gilpin County, Colorado. Oct. 17, 1956

Proposed Trenching DMEA Application

Scale 1" = 600'



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February 12, 1957

Summary of Proposed Project

Object: Denial of application for an exploration project.

Docket No.: DMEA-4529

Commodity: Uranium

Applicant: Frank A. Neun
812 Olive Street
St. Louis 1, Missouri

Property: The Root Ranch, consisting of the W½ NW¼ sec.29, NE¼ sec. 30, SE¼ NW¼ sec. 30, and a plot described by metes and bounds in secs. 19 and 30, all in T. 3 S., R. 72 W., 6th P.M. & B., Gilpin County, Colorado. Applicant is the lessee.

Date of application: October 29, 1956.

Amount of application: $21,800.00

Work Proposed: Explore pegmatite dikes as follows:

Stage I - 7 trenches 5 ft. x 5 ft. x 50 ft.

350 ft. @ $10.00/ft.	$3,500.00	
Supervision and engineering	700.00	
Chemical assays (40)	200.00	$4,400.00

Stage II - 5 ft. x 7 ft. drift

400 ft. @ $40.00/ft.	$16,000.00	
Supervision and engineering	1,200.00	
Chemical assays (40)	200.00	17,400.00

Estimated total cost	$21,800.00
Government participation @ 75%	$16,350.00

Field Team Report: January 24, 1957
E. N. Harshman, USGS and D. E. Redmon, USBM

The property is on the southeastern border of the Front Range mineral belt in an area underlain by the Precambrian Idaho Springs formation. Ahomalous radioactivity is associated with small pegmatites and a large bostonite dike in granite-gneiss and schist.

Secondary uranium minerals found along shears in the pegmatites are probably derived from primary minerals genetically related to the pegmatites. Six samples were taken as follows:

A composite channel sample across a 2 to 3-foot wide pegmatite in Pit No. 1 assayed 0.06 percent U_3O_8.

A grab sample of material from a 5-foot wide pegmatite exposed in Pit No. 2 assayed 0.005 percent U_3O_8.

A grab sample of material from a silicified shear zone exposed in Pit No. 3 assayed 0.001 percent U_3O_8.

A chip sample across a large bostonite dike, which is 12 to 18 feet wide and crops out for a distance of 500 feet, assayed 0.002 percent U_3O_8.

A grab sample from about $4\frac{1}{2}$ tons of stockpiled material from Pit No. 1 assayed 0.08 percent U_3O_8. A selected sample of the most radioactive material in the stockpile assayed 0.39 percent U_3O_8.

Because of the small size of the uranium-bearing pegmatites and their low average grade, they cannot be considered as a significant source of uranium. Extensive geologic work in this general area has shown that bostonite dikes also cannot be considered as a significant source of uranium. It is recommended that the application be denied.

Commodity Group comments:

U. S. Geological Survey, N. E. Nelson, February 5, 1957.

Concurs with the Field Team recommendation for denial.

U. S. Bureau of Mines, John E. Crawford, February 7, 1957.

Agrees with the Field Team and advises denial of the application.

Rare and Miscellaneous Metals Division, Michael Ching, February 12, 1957.

The potential of this property is quite limited.

Conclusions and Recommendations:

The chances of finding significant ore bodies under the proposed project are practically nil. It is recommended that the application be denied.

Ernest Wm. Ellis

Ernest Wm. Ellis

DMEA Form 7
(12-56)

700

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Date	Surname	Code
2/12	Ching	700
2-13	Ellis	700
2/13	Selfridge	130
"	Johnson	110
"	Mittendorf	100
		220

Lamb
Nelson

FEB 13 1957

Mr. Frank A. Neun
812 Olive Street
St. Louis 1, Missouri

Re: Docket No. DMEA-4529 (Uranium)
Root Ranch
Gilpin County, Colorado

Dear Mr. Neun:

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, although noting some uranium mineralization on your property, indicates 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.

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

Sincerely yours,

E. O. Mittendorf

Administrator

MChing/gla
2-12-57
cc to: Admr.'s Reading File
Operating Committee
Code 700
Mr. Ching
T. H. Kiilsgaard, 5224
Jack Kratchman - AEC
DMEA Field Team, Region III (2)

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DMEA
RECEIVED FEB 8 1957

DATE	INITIALS	CODE
2/8	C	220
"	Chiny	700

commonly complete

February 7, 1957

4529

Uranium

Frank A. Neun
Root Ranch
Gilpin Co., Colorado
$21,760

Ernest William Ellis, DMEA Member
Uranium Commodity Committee
John E. Crawford, Bureau of Mines Member
Uranium Commodity Committee

Joint Report of Exam

m 1/24/57 2/5/57

x

x

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D M E A
IN REPLY REFER TO:
RECEIVED FEB 7 1957

DATE	INITIALS	CODE
2-8	C	220
2-8	Clay	700

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

February 5, 1957

Re: DMEA 4529
Frank A. Neun
Root Ranch
Gilpin Co. ~~Colorado~~
$21,800 - 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 exploring, by trenching and drifting, pegmatite dikes from which 4½ tons of sorted material assaying 0.08% U_3O_8 has been mined. The sorted material was selected from about 30 tons of broken rock.

Secondary uranium minerals are associated with minor fractures in pegmatites, and slight radioactivity was detected in a bostonite dike.

Because of the small size of the uranium-bearing pegmatites and their low average grade and the low grade of the bostonite dike, the examiners and the Field Team recommended that the application be denied.

I concur with the recommendation.

N. E. Nelson

N. E. Nelson

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

OFFICIAL FILE COPY DMEA RECEIVED JAN 31 1957		
DATE	INITIALS	CODE
1-31	CW	220
		130
2.5	C	220
2.5	~~Cheng~~	700

224 New Customhouse
Denver 2, Colorado

January 29, 1957

Memorandum

To: Secretary, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Joint Report of Examination, Docket DMEA 4529 (Uranium), Frank A. Neun (Root Ranch), Gilpin County, Colorado

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

The field examiners recommend that the application be denied. We concur with their recommendation.

W. M. Traver

W. M. Traver

Reviewed by
DMEA OPERATING COMMITTEE
2-4-57
(date)

ON-SITE EXAM. REPORT

IN REPLY REFER TO:

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

DMEA
DEPARTMENT OF THE INTERIOR
JAN 25 1957
REGION III
DENVER, COLORADO

TRANSMITTED
JAN 29 1957

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DATE	INITIALS	CODE
		130
		220

Memorandum

January 25, 1957

To: Executive Officer, DMEA Field Team, Region III

From: J. F. Shaw
E. N. Harshman

Subject: DMEA Docket 4529 (Uranium), Frank A. Neun (Root Ranch), Gilpin County, Colorado

Enclosed are the original and nine copies of a joint report of examination on the Frank A. Neun (Root Ranch) property in Gilpin County, Colorado.

The applicant requests DMEA assistance in exploring for uranium by a program of trenching and drifting at an estimated total cost of $21,760.

On the Root Ranch property minor amounts of uranium are associated with fracture zones in small lenticular masses of pegmatite and with large bostonite dikes.

The examiners conclude that the proposed exploration will not result in the discovery of significant amounts of uranium ore and recommend that the application be denied.

We concur with the conclusions and recommendations.

J. F. Shaw

Original signed by
E. N. HARSHMAN
E. N. Harshman

Enclosures (10)

ENHarshman:arh

Reviewed by
DMEA OPERATING COMMITTEE
2-4-57
(date)

FOR UNITED STATES GOVERNMENT USE ONLY TRANSMITTED

JAN 29 1957

UNITED STATES
DEPARTMENT OF THE INTERIOR
FRED A. SEATON, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

OFFICIAL FILE COPY
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RECEIVED JAN 31 1957

DATE	INITIALS	CODE
		130
		220

DMEA 4529

Frank A. Neun

Root Ranch

Gilpin County, Colorado

Uranium

Joint Engineering and Geologic Report

by

E. N. Harshman, Geologist
Geological Survey

D. E. Redmon, Mining Engineer
Bureau of Mines

January 24, 1957

Reviewed by
DMEA OPERATING COMMITTEE
2-4-57
(date)

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2.	Area map, Frank A. Neun, Root Ranch, Gilpin County, Colo. DMEA 4529	3
3.	Frank A. Neun (Root Ranch) Gilpin County, Colorado.	9

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 31 1957

DATE	INITIALS	CODE

DMEA 4529

FRANK A. NEUN
ROOT RANCH
GILPIN COUNTY, COLORADO

INTRODUCTION AND SUMMARY

On October 30, 1956, Frank A. Neun applied for DMEA assistance to explore for uranium on about 320 acres of land in Gilpin County, Colorado. Mr. Neun leased the land from S. Marvin James of Denver, Colorado, owner.

The application was referred for field examination on November 15, 1956. The property was inaccessible, due to snow, until December 20, 1956, when it was examined by a Region III field team composed of E. N. Harshman, U. S. Geological Survey, and D. E. Redmon, U. S. Bureau of Mines, accompanied by Mr. L. C. Morgan, superintendent of operations, and Mr. D. C. Watrous, geologist for the applicant.

The applicant's proposed two-stage exploration program consists of digging 350 lineal feet of trenches across presumably favorable dikes (Stage I), estimated to cost $4,400. Stage II, if justified by favorable Stage I exploration, would consist of driving 400 feet of 5- by 7-foot drifts at an estimated cost of $17,360.

The proposed exploration program would cost a total of $21,760. Government participation at 75 percent would be $16,320.

Secondary uranium minerals (autunite and torbernite) are associated with a small pegmatite dike in pit no. 1, and other pegmatite

dikes in the area show anomalous radioactivity. Channel samples of the pegmatite dikes contain from 0.002 to 0.06 percent U_3O_8. A bostonite dike 15 feet wide and at least 500 feet long is slightly radioactive; a sample from the dike contained 0.002 percent U_3O_8.

An estimated 30 tons of material had been dug from a pit 12 feet deep (pit no. 1). Approximately 4-1/2 tons of radioactive material was stockpiled near the test pit, presumably hand-picked during excavation. A general grab sample from the stockpile contained 0.08 percent U_3O_8. A picked sample of the rocks with highest radioactivity in the stockpile contained 0.39 percent U_3O_8.

A channel sample, taken about 6 feet below ground level in the shaft at the spot of highest radioactivity, contained 0.06 percent U_3O_8.

Although secondary uranium minerals are associated with minor fractures in pegmatites, it is concluded that primary uranium mineralization is genetically related to small pegmatite bodies. It is also concluded that because of the small size of the pegmatite bodies and the paucity of primary mineralization, the deposits are not significant.

It is recommended that the application for DMEA assistance be denied.

ACKNOWLEDGMENTS

Mr. E. L. Grossman, from the Denver Branch of AEC, furnished information concerning the property. The AEC concurs with the examining team's conclusion that significant uranium deposits will not be found by the proposed exploration.

PROPERTY, LOCATION, PHYSICAL FEATURES

The Root Ranch property is leased by Mr. Frank A. Neun from Marvin James of Denver, Colorado, and comprises about 320 acres in secs. 19, 29, and 30, T. 3 S., R. 72 W., 6th P. M., Gilpin County, Colorado, as described in Book 180, page 134, in the office of the county clerk, Central City, Colorado (figs. 1 and 2).

It was established that the SE 1/4 NW 1/4 sec. 30 was included in the land description in Book 180, page 134, as suggested in a letter to W. M. Traver from George M. Selfridge, Chairman, Operating Committee, dated November 16, 1956.

Section 30 is about 2-1/2 miles NE of Idaho Springs, Colorado. It is reached by travelling north from Idaho Springs on the Virginia Canyon highway a distance of 3.6 miles, then turning right and going 1.0 mile eastward on the county highway, then turning right and going 0.3 mile on a good dirt road, then turning left and going 0.8 mile, then turning right at the top of a ridge and proceeding for 1.0 mile.

The terrain is mountainous and has relatively steep slopes; altitudes range from 8,100 to 9,100 feet.

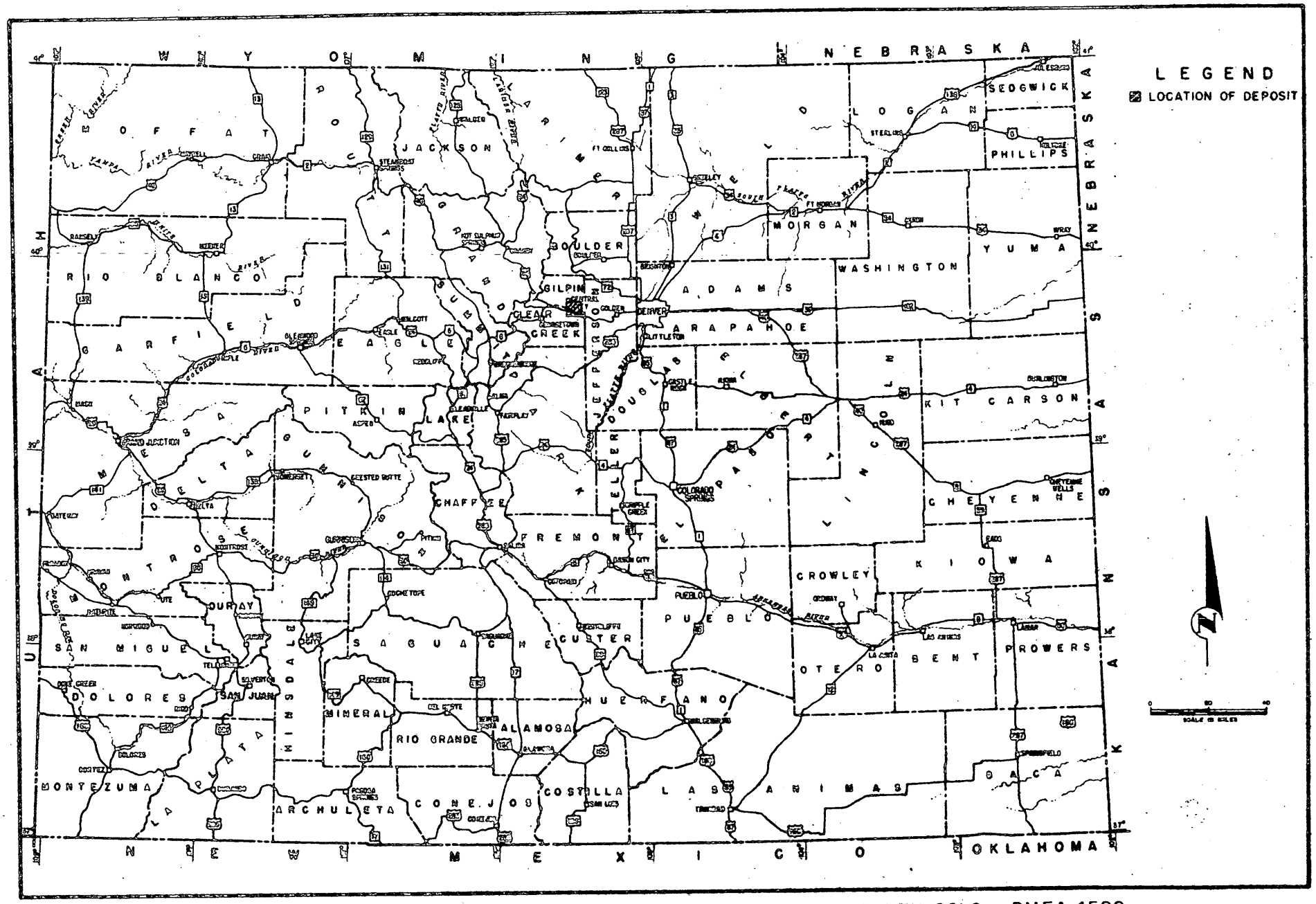


FIGURE 1 - GENERAL AREA MAP, FRANK A. NEUN, ROOT RANCH, GILPIN COUNTY, COLO. DMEA 4529

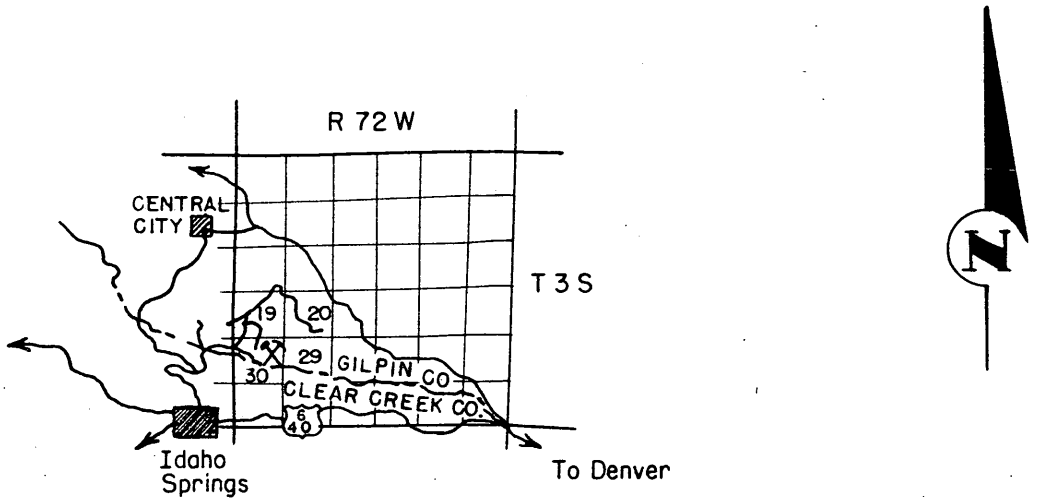


FIGURE 2 – AREA MAP, FRANK A. NEUN, ROOT RANCH, GILPIN COUNTY, COLO. DMEA 4529

The climate is moderate, but heavy snows occur during winter months that might occasionally stop mining activities. Abundant timber for mining uses grows on the property. Water would have to be hauled or pumped from nearby springs or streams.

Electric power can be obtained by extending a power line from near Idaho Springs, but preliminary work would be done by using portable generator units.

Skilled labor and adequate housing are available in nearby communities.

Supplies can be obtained in Denver, Colorado, 40 miles east by road.

OWNERSHIP, HISTORY, PRODUCTION

The land is owned by S. Marvin James of Denver, Colorado, and leased for a term of five years beginning October 9, 1956, to Frank A. Neun, 812 Olive Street, St. Louis 1, Missouri.

The area has been rather thoroughly prospected for gold and silver, and in recent years uranium seekers have prospected the property with apparently disappointing results.

No production has been realized from the property.

PRESENT STATUS

Exploration and very limited mining is continuing with available equipment.

EQUIPMENT AND FACILITIES

Equipment consisted of a John Deere J-40 track-mounted tractor with hydraulic bucket and a rented Jaeger 125-cubic-foot compressor.

There were no buildings or surface improvements.

GEOLOGY

The Frank A. Neun (Root Ranch) property is on the southeastern border of the Front Range Mineral Belt in an area underlain by the Precambrian Idaho Springs formation. The rocks in the area consist of granite-gneiss and schist containing numerous small lenticular masses of pegmatitic material and large, persistent, bostonite dikes.

Exploration is proposed on four structures exposed in the extreme western part of the property. Limited prospecting has been done on two of the structures as shown on figure 3. Pit no. 1 prospects a small pegmatite lens 2 to 3 feet wide and, at most, a few tens of feet long. Secondary uranium minerals (autunite and torbernite) have been concentrated along a weak shear zone that cuts the pegmatite, strikes N. 65° E., and dips 65° N. The shear zone is not abnormally radioactive where the walls are gneiss, and it is probable that the secondary uranium minerals concentrated along the shear were derived from primary uranium minerals in and genetically related to the pegmatite. Scintillator traverses across the shear zone immediately east and west of the pit showed no abnormal radioactivity. A composite

sample derived from two 30-inch cuts across the highest grade part of the sheared pegmatite contained 0.06 percent U_3O_8. Two trenches are proposed east of pit no. 1 to explore this shear zone.

About 100 feet north of pit no. 1 a narrow silicified shear zone in gneiss is exposed. It strikes N. 80° E. and probably dips steeply north. No abnormal radioactivity was noted at any point along the rather poor exposure, and no prospecting of this structure has been done. One trench across this shear zone is proposed.

A prominent bostonite dike 12 to 18 feet wide is exposed about 225 feet north of pit no. 1 (fig. 3). It is anomously radioactive, as are most bostonite dikes in the Idaho Springs-Central City area. It strikes N. 80° W. and appears to dip steeply north. It crops out for a distance of 500 feet and may extend a considerable distance east and west of the outcrop. A sample of the dike contained 0.002 percent U_3O_8. Three trenches are proposed by the applicant to explore this dike.

Pit no. 2 (fig. 3) exposes a 5-foot-wide mass of pegmatite that appeared to strike about N. 75° E. and dip 80° N. The pegmatite is slightly radioactive, and a sample of the material excavated from the pit contained 0.005 percent U_3O_8. No exploration is proposed by the applicant in this area.

In an old pit (no. 3 on fig. 3) about 750 feet north of pit no. 1 what appears to be a silicified shear zone in gneiss has been prospected to a depth of about 5 feet. The material from the pit is

slightly radioactive, and a sample contained 0.002 percent U_3O_8. Because of a moderate cover of snow at the time of the examination, the relation of this radioactive structure to a silicified zone along the road and 350 feet southwest of pit no. 3 could not be determined (fig. 3). The applicant proposes one trench in the vicinity of pit no. 3.

Six samples were taken during the examination as follows:

Sample No.	Description	U_3O_8 (percent)
DER-6	Grab of stockpile.	0.080
DER-7	Grab of highest grade material in stockpile.	0.390
DER-8	Composite of two 30-inch channel samples across pegmatite in pit no. 1.	0.060
DER-9	Chip sample across bostonite dike.	0.002
DER-10	Grab of material excavated from pit no. 2.	0.005
DER-11	Grab of material excavated from pit no. 3.	0.001

APPLICANT'S PROPOSAL AND COST ESTIMATE

The applicant proposes a two-stage exploration program as follows:

Stage I

Seven trenches, 5 feet deep, approximately 50 feet in length, across various pegmatite and porphyry dikes.

350 lineal feet at $10 per foot	$ 3,500.00
Supervision and engineering	700.00
40 chemical assays at $5 each	200.00
Total Stage I	$ 4,400.00

Stage II

Stage II will not be undertaken if Stage I work proves the ground to be unfavorable.

400 feet of drift to explore the most favorable areas.

400 feet of 5- by 7-ft. drifts at $40 per foot.	$16,000.00
Supervision and engineering	1,200.00
40 chemical assays at $4.00	160.00
Total Stage II	$17,360.00

Total cost of applicant's proposed exploration program would be $21,760. Government participation at 75 percent would be $16,320.

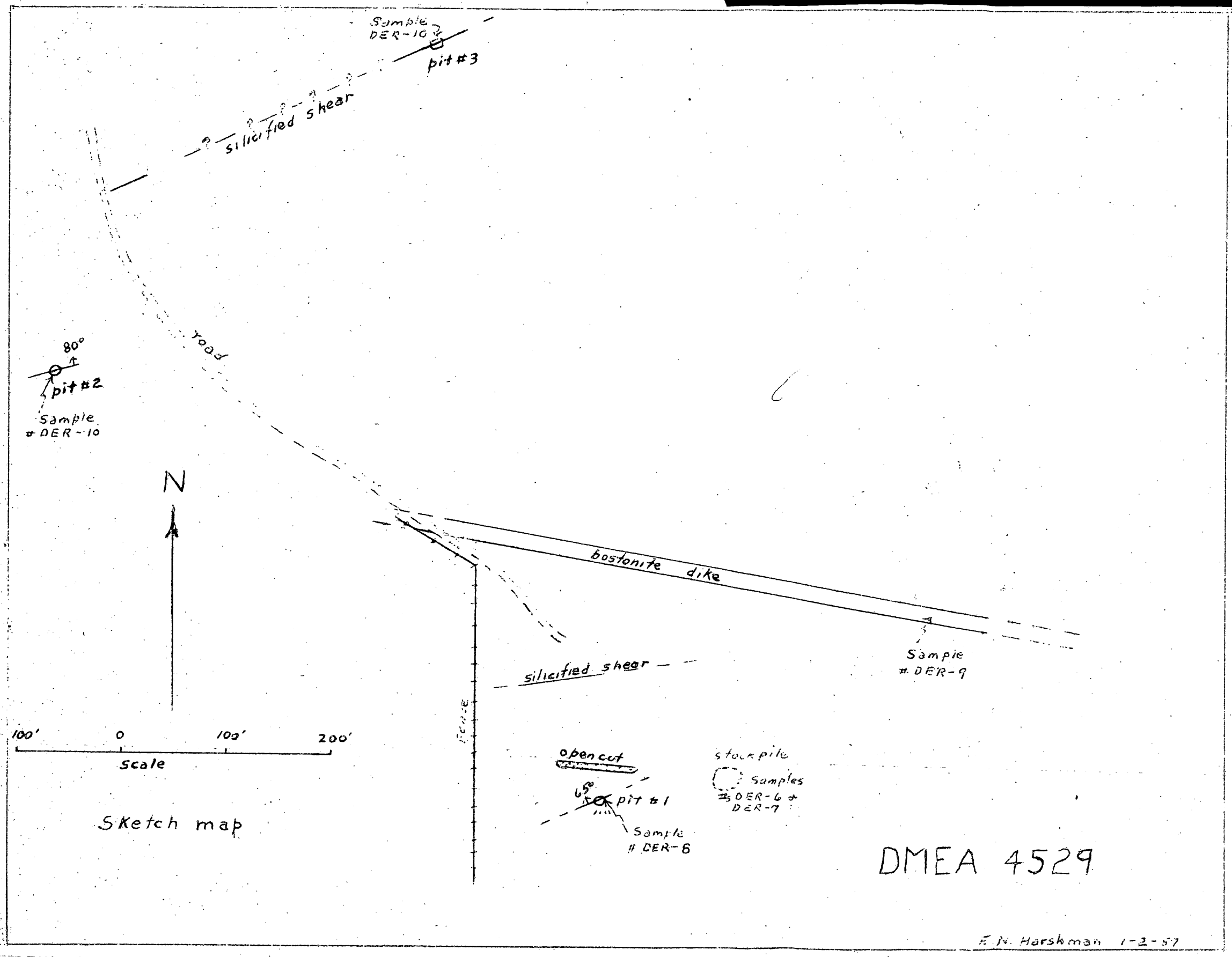
The applicant's proposed program for exploration is relatively well presented. However, charges for supervision and consultant fees are high, amounting to 8.7 percent of the total estimated cost. The estimated cost for trenching also appears excessive.

CONCLUSIONS AND RECOMMENDATIONS

Anomalous radioactivity on the Neun (Root Ranch) property is associated with small pegmatites and large bostonite dikes. Although secondary uranium minerals are found along shears in the pegmatites, it is probable that primary mineralization is genetically related to the pegmatites and not to the shears. The pegmatites examined, which showed abnormal radioactivity, are a few feet in width and, at most, a few tens of feet in length. The average grade of the pegmatitic material appears to be less than 0.1 percent U_3O_8. Because of the small size of the uranium-bearing pegmatites and their low average grade, they cannot be considered as a significant source of uranium.

Abnormal radioactivity associated with bostonite dikes in the Idaho Springs-Central City area has long been recognized. Extensive geologic work has shown that these dikes contain from 0.001 to about 0.020 percent U_3O_8 and that they cannot be considered as a significant source of uranium (see TEI-247).

Denial of the application for exploration assistance (DMEA Docket 4529) is recommended.



Sketch map

Fig. 3 Frank A. Neun (Root Ranch) Gilpin County, Colorado

11/26/56

Region III

Building 20
Denver Federal Center
Denver 2, Colorado

November 21, 1956

DMEA
DEPARTMENT OF THE INTERIOR
NOV 22 1956
REGION III
DENVER, COLORADO

RECEIVED
NOV 26 1956
DMEA

Memorandum

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

From: Superintendent, Denver Experiment Station, Reg. III

Subject: Docket DMEA 4529 Frank A. Neun (Uranium), (Root Ranch)
Gilpin County, Colorado

The application for Frank A. Neun, Docket DMEA 4529, in the amount of $21,800.00 was received in this office on November 21, 1956.

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

W. H. KING

W. H. King

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

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

224 New Customhouse
Denver 2, Colorado

November 20, 1956

Memorandum

To: W. H. King (2) (w/brochure)
E. N. Harshman

From: DMEA Field Team, Region III

Subject: Docket DMEA No. 4529 (Uranium) Frank A. Neun (Root Ranch) Gilpin County, Colorado

Enclosed is the subject application in the amount of $21,800.00. A field examination and suitable covering reports of examination are required. Included with the Application Form are two supplemental sheets, a Mining Lease, and two maps.

Copies of the transmittal letter to the Executive Officer from the Chairman of the Operating Committee, and memoranda of review from J. Crawford, U.S.B.M. and N. E. Nelson, U.S.G.S., relative to the application are also enclosed. During the application, the examiners are requested to have clarified a discrepancy between the land description in the application and that in the Mining Lease.

In the event a contract will be recommended, please advise this office as soon as possible in order that we may proceed to secure the Consent to Lien and Subordination forms required.

The Applicant requests that you contact B. V. Watrous for an appointment to make your field examination. His address is 1122 Colorado Street, Idaho Springs, Colorado.

Please return the brochure with your Report of Examination.

DMEA Field Team, Region III

Original signed by
W. M. TRAVER

By W. M. Traver
Executive Officer

Enclosures

WMT:ytl
cc
Sec. Op. Comm. (2)
Docket 4529
Chron.

700

FILE COPY
Surname:
Ching
Ellis
Faust
Williams
Schwabe
Fitzsimmons

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

NOV 16 1956

Mr. Frank A. Neun
812 Olive Street
St. Louis 1, Missouri

Re: Docket No. DMEA-4529 (Uranium)
Root Ranch
Gilpin County, Colorado

Dear Mr. Neun:

The application for assistance in exploring your property, 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:

Mr. W. M. 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

MChing/izm 11-16-56
cc to: Docket
Code 700
Mr. Ching
Admr.'s Reading File
DMEA Field Team, Reg. III (2)

700

FILE COPY
Surname:
Ching
Selfridge

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

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

NOV 16 1956

Re: Docket No. DMEA-4529 (Uranium)
Frank A. Moun
Root Ranch
Gilpin County, Colorado

Dear Mr. Traver:

The subject application is being referred to you for investigation, a field examination if warranted and recommendations. One copy of the application was retained by your office.

Enclosed for the information and use of the Field Team are the following documents:

1. One copy of the application, complete with two supplemental sheets, a mining lease, and two maps.

2. Two copies of a memorandum, dated November 8, 1956, from John E. Crawford, USBM, relating to the application.

3. Two copies of a memorandum, dated November 14, 1956, from N. E. Nelson, USGS, relating to the application.

If a contract appears likely, a Consent to Lien and Subordination Agreement should be obtained from S. Marvin James, covering all the land involved.

Please note that the description of the land under 3(a) of the application is not the same as in the Mining Lease. In the event a field examination is made it is suggested that the examiners establish the fact that the SE¼ of the NW¼ of sec. 30 is contained within "that portion of two parcels described in Book 180, Page 134."

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Enclosures
APPROVED:

Frank D. Lamb
Member, Bureau of Mines

W. P. Williams
Member, Geological Survey

cc to: Docket
Code 700
Mr. Ching
Admr.'s Reading File
Operating Committee
Messrs. JECrawford, 3643
THKilsgaard, 5224
JOHosted, 3210, GSA

MChing/izm 11-16-56

11-15-56

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

IN REPLY REFER TO:

RECEIVED NOV 15 1956 D.M.E.A.

November 14, 1956

Re: DMEA 4529
Frank A. Neun
Root Ranch
Gilpin County, Colorado
$21,800.00 - 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 exploring by Stage I, trenching, and, Stage II, drifting, pegmatite dikes from which several tons of uranium-bearing ore has been taken. Samples of the ore show from 0.19% U_3O_8 to 1.20% U_3O_8.

Referral of the application to the Field Team for appropriate action is recommended.

N. E. Nelson

N. E. Nelson

11-9-56

RECEIVED NOV 9 1956 DMEA

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

Date 11/8/56

DMEA Docket No. 4529
DMEA Contract No.
Commodity Uranium
Name of applicant Frank A. Neun
Name of property Root Ranch
Location of property Gilpin County, Colorado
Estimated cost of project $21,800.00

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee

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

Subject: Review of Application
(Application, Field Team Report, etc.)

1. Date of subject document: 10/29/56 2. Date received by reviewer: 11/5/56.

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

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

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

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

7. Explain items marked yes above:

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

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

10. Remarks: (Use back of page if necessary)
Mr. J. O. Hosted, Washington representative of the Atomic Energy Commission, assisted in the review.

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration
Washington 25, D. C.

November 2, 1956

Mr. Frank A. Neun
812 Olive St.
St. Louis 1, Mo.

Subject: DMEA-4529
Re: Exploration Assistance
Root Ranch

Dear Mr. Neun

Your application for exploration assistance, dated October 29, 1956 submitted to our office at Denver, has been assigned Docket Number DMEA-4529 and referred to the Rare & Misc. Metals Division in the Washington office. Kindly identify all future correspondence relating to your application by this Docket Number.

Sincerely yours,

Allen S. Dakan, Chief
Operations Control and
Statistics Division

Copy to:

Region III. Denver 2, Colorado

Code 700

3571

U. S. Government Messenger Envelope

Standard Form No. 65 (Rev. 1/46)

1. Use blocks consecutively, one at
2. Void previous block.
3. Write clearly.

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~~Mr. Tidyard~~	RUN STOP		RUN STOP
[illegible]	RUN STOP		RUN STOP
Mr. Griswold 4444 Ext.	RUN STOP		RUN STOP
	RUN STOP		RUN STOP
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16—

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF COLORADO
STATE HIGHWAY DEPARTMENT CITY AND COUNTY OF DENVER
DENVER BOARD OF WATER COMMISSIONERS

COLORADO
BLACK HAWK QUADRANGLE
7½-MINUTE SERIES

Mapped by the Geological Survey
and from Denver City special survey
1942

Works Progress Administration Nos. 4803 and 5012
Colorado State Highway Department, City and County
of Denver, Denver Board of Water Commissioners, Sponsors
Max J. Gleissner, Geological Survey, Supervisor

TRUE NORTH
MAGNETIC NORTH
14°
APPROXIMATE MEAN DECLINATION, 1942

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 50 feet
Datum is mean sea level

ROAD CLASSIFICATION

HARD-SURFACE ALL WEATHER ROADS		DRY WEATHER ROADS
Heavy-duty	4 LANE / 2 LANE	Improved dirt
Medium-duty	4 LANE / 2 LANE	Unimproved dirt
Loose-surface, graded, or narrow hard-surface		

U. S. Route State Route

Polyconic projection. 1927 North American datum
10000 foot grids based on Colorado (North) and
Colorado (Central) rectangular coordinate systems

BLACK HAWK, COLO.
Edition of 1948

N3945—W10522.5/7.5

Kistler's
1636 Champa
Denver, Colo.