IMEA Form 9

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE

DMEA NO. 4594

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(Withdrawn ✓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

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CLAIM	Date	Book	Page	Date	Book	Page	Date	Book	Page
Maybe #1	4-12-54	79	76	11-24-54	237	269	11-10-54	227	255
Maybe #2	4-12-54	79	76	11-24-54	237	269	11-10-54	227	255
Maybe #3	4-12-54	79	77	11-24-54	237	269	11-10-54	227	256
Maybe #4	4-12-54	79	77	11-24-54	237	269	11-10-54	227	256
Maybe #5	4-12-54	79	78	11-24-54	237	269	11-10-54	227	257
Maybe #6	4-12-54	79	78	11-24-54	237	269	11-10-54	227	257
Maybe #7	4-12-54	79	79	11-24-54	237	269	11-10-54	227	258
Maybe #8	4-12-54	79	79	11-24-54	237	269	11-10-54	227	258
Maybe #9	4-12-54	79	80	11--24-54	237	269	11-10-54	227	259
Maybe #10	4-12-54	79	80	11-24-54	237	269	11-10-54	227	259
Maybe #11	4-12-54	79	81	11-24-54	237	269	11-10-54	227	260

TO HAVE AND TO HOLD the same for a term of five (5) years from date hereof, unless sooner relinquished or abandoned by Lessee pursuant to the terms hereof.

It is further understood and agreed that if Lessee is in possession of said claims under this lease at the end of said five-year term and is conducting mining operations on said premises at that time, then Lessee shall have the option to remain on said premises and renew the term of this lease for additional consecutive one-year terms, provided Lessee shall, at least ninety (90) days prior to the expiration of the first five-year term hereof,

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D.M.E.A.
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DATE	INITIALS	CODE

P 6728

MINING CLAIM LEASE AGREEMENT

THIS AGREEMENT, Made and entered into this 15 day of June, 1955, by and between OL JATO URANIUM COMPANY, a Utah corporation, hereinafter called "Lessor", and RADIO GEOPHYSICAL COMPANY, a Texas corporation, hereinafter called "Lessee",

W I T N E S S E T H:

That Lessor, for and in consideration of the royalties hereinafter reserved and the covenants and agreements hereinafter expressed, and by Lessee to be kept and performed, does hereby lease and demise unto Lessee the following mining claims, to-wit:

DEC 12 10 47 AM '55

(a) Either an abstract of title, prepared by a bonded abstracter, both as to claim names and area covered, certified to date, or copies of all recorded instruments in the chain of title of said claims, duly certified by Lessor's officers to be true copies of all such instruments; and

(b) Supplementing such abstract or certified copies of recorded instruments, the following:

(1) Copies of all maps of said claims and survey data relating thereto possessed by Lessor;

(2) A written statement prepared and signed by one or more of Lessor's officers, with regard to any conflicting claims of third parties known to exist, setting forth all available information with regard to the dates, location, validity and ownership thereof, and the names and addresses of witnesses by whom such information may be proven;

(3) A written statement signed by one or more of Lessor's officers setting forth what development work, if any, has been performed on the demised claims.

2. The Lessee covenants and agrees to enter upon said mining property and commence exploration or mining and to perform not less than Two Thousand Seven Hundred Fifty ($2750.00) Dollars worth per year of exploration, development and mining work on said mining claims during the term of this lease and any renewal or extension thereof. Overhead management costs shall not be counted towards fulfillment of this requirement.

3. Lessee shall, in all cases, before actual mining operations are commenced, survey the claims described herein. If such

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give written notice by registered mail to Lessor of its election to extend the lease for the first one-year additional period and like notice at least thirty (30) days prior to the expiration of the succeeding one-year terms.

1. The Lessor covenants and agrees to protect Lessee's possession of said premises from any person or persons claiming by, through or under Lessor; to pay any royalties or other amounts due or to become due to any such third person or persons claiming by, through or under Lessor; and to furnish Lessee, as promptly as possible, and in any event not later than three months from date, with full evidence of its title to said mining claims, in the following form:

surveys, in the opinion of the Lessee, indicate the necessity of filing new or amended location certificates, Lessee will prepare the same at its expense, and Lessor agrees to execute and file of record the same at its expense.

4. Lessee agrees to work and mine said premises in a manner consistent with good and economical mining practices with due regard to the development and preservation of the same as mining property, reserving, however, to the Lessee the right to quit and abandon said mining claims, or any of them, at any time if, in the opinion of the Lessee, such claims are not susceptible of profitable mining operations, provided, however, that said abandonment or release by Lessee shall be subject to terms and conditions herein set forth in paragraph

5. Lessee shall enter upon said leased premises and work the same in good minderlike fashion in manner necessary to good and economical mining, and is hereby given the right to take over the sole and exclusive possession of said property and to investigate, test, sample, develop, work, operate, manage and control the same, and the water and water rights appurtenant thereto, and to mine, extract, and remove from said property the ores and minerals therein and belonging thereto, and to treat or mill on or off the premises, ship, sell or otherwise dispose of the same and receive the proceeds therefrom, subject to the payment of royalty as hereinafter provided; to erect, construct, maintain, use and operate thereon structures, machinery and equipment; to build, erect, construct, use and operate ponds, tanks or reservoirs for the storage and use of water; to stack or store on the surface thereof waste products and residues resulting from its operatimns on said property; to construct and maintain roads, power lines, telephone lines, etc., over and cross the surface thereof; and to do all things, including but not limited to the foregoing, necessary or convenient to carrying on the operations contemplated herein.

6. Lessee shall pay to the Lessor as rent or royalty fifteen percent of the gross values of all ores or other values mined

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7. Lessee shall perform the annual work upon said mining claims as required by law, provided, however, that if Lessee shall exercise its right to surrender any claims as hereinabove provided, and if such surrender shall become effective at any time between July first and October first of any year, Lessee shall not be responsible for completion of the annual assessment work or for the annual work requirement for the year ending June 30th next following. In the event of surrender of this lease at any time between October first and June 30th Lessee shall be obligated to complete the full work requirement set forth in Paragraph 2 above. If the amount of the assessment work or the amount of the annual work requirement for which Lessee is responsible as set forth herein has not been completed at the time of any surrender by Lessee of this lease after October first of any year, Lessee or its successors in interest shall forthwith pay Lessor in cash the amount by which it is short of its responsibility hereunder. Excess annual work requirements performed by Lessee with respect to the claims covered by this lease for any particular period shall not be accumulated and and credited to Lessee for any following period. Upon execution of this lease, Lessee is immediately obligated to complete any un-

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9. Lessee shall comply with all laws and regulations pertaining to the mining operations to be carried on hereunder by Lessee, including the payment of all Federal and State taxes and exactions levied or assessed on said mining claims, or the product thereof, and in connection with the removal of ore therefrom, whether such taxes be property, occupation, or other taxes; provided that this shall not apply to any income taxes payable by Lessor on royalties or income received by it from said claims or from ore mined and removed therefrom.

10. If a production tax or severance tax is levied or assessed against production from the property herein at any time during the term of this lease, Lessee shall pay such tax and Lessor shall pay Lessee 15% of the same from Lessor's royalties herein as its proportionate share of said tax.

11. Lessee shall take out workmen's compensation insurance and maintain the same at all times hereunder, or comply at all times with the State regulations covering the carrying of self insurance, if self insurance is permissible under the laws of the State of Utah.

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of the terms and conditions herein contained on the part of Lessee, by giving Lessee sixty days' written notice, by registered mail, addressed to it at Transit Tower, San Antonio, Texas, of such violation, and during such sixty-day period, Lessee shall have the right to correct and remedy the alleged violation, provided that failure to complete annual assessment work within the time prescribed herein shall be grounds for immediate cancellation by Lessor without notice to Lessee.

15. Lessee shall have the right upon the termination or cancellation hereof, however the same is effected, to remove from the leased premises within ninety (90) days from the termination date, all property placed thereon by it and irrespective of whether the same may constitute real or personal property, provided, however, that Lessee may not remove any timbering from any shafts, tunnels or drifts; and provided further that Lessee shall not remove any underground structure that would endanger any shaft, tunnel or drift.

16. In the event Lessee desires to make application to the United States of America, or any of its agencies, to cancel

& MANGUM

18. All notices provided for herein to be served upon Lessor shall be in writing, by registered mail, and deposited in the United States mail, addressed to it at 114 Atlas Building, Salt Lake City, Utah, or to such other address as Lessor may, in writing, hereafter direct. All notices herein provided to be served upon Lessee shall be in writing, by registered mail, and deposited in the United States mail, directed to Lessee at Transit Tower, San Antonio, Texas, or at such other address as it may in writing hereafter designate.

19. Within a reasonable time after receipt of the title information specified to be furnished by Lessor in Paragraph numbered "1" hereof, the Lessee shall have its attorneys examine the same. Should such investigation show the title to the demised premises is not free and clear of liens, encumbrances, clouds and

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shall either undertake the defense of said action or shall tender surrender of the demised premises back to Lessor.

This lease and each and all of the terms, conditions, covenants and agreements herein contained shall extend to and be binding upon and inure to the benefit of the successors and assigns of the parties hereto.

OL JATO URANIUM COMPANY

By _____
President

Secretary

LESSOR

RADIO GEOPHYSICAL COMPANY

By _____
Vice President

Secretary

LESSEE

Entry No. P 6728 433 70

Recorded 12-12-55 At 10:47 A.M. Book 84 Page 440

FEE PAID

ARVILLA E. WARREN,
San Juan County Recorder

$ 12.20 By _____ Deputy

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UTAH OIL BUILDING
SALT LAKE CITY, UTAH

or recovered from said claims by Lessee, such payment to be made by delivery of such ore to some mill or regular ore buyer, and leaving with such mill or ore buyer the percentage of sale returns aforesaid for delivery to said Lessor. For the purpose of this contract, "gross values" shall mean such sums as shall be paid for the values in the ore after deducting that part of any haulage costs which exceeds the haulage allowance paid by the Government, cost of mill assays and mill charges. Should the uranium oxide content of ore mined and the volume thereof be sufficient to qualify for a bonus from the Government, Lessor shall be entitled to receive fifteen percent as its share of such bonus. Development allowances and transportation allowances as set forth by the Government for the development and transportation of uranium are to be retained by the Lessee as its sole property.

finished assessment requirements on the demised claims for the period ending June 30, 1955.

Annual assessment work, as required by this lease to be performed by Lessee, shall be completed by Lessee on or before May 15th of each calendar year except that such assessment work may be done at a later date, provided prior written consent of Lessor is obtained. Proof of Labor affidavit shall be prepared and filed by Lessee with proper County Recorder on or before May 15th or such subsequent date as may be agreed upon by the Lessor and Lessee, but in no event later than June 30th, and a copy thereof sent to the Lessor.

8. Lessee shall furnish Lessor with copies of any drill logs and survey plats made by it and all drill holes put down by Lessee shall be plainly marked thereon for location and identification purposes. Also, Lessee shall, in a proper and reasonable manner, permanently mark all drill holes and plug the same.

12. Lessee agrees to indemnify and hold harmless Lessor from any and all loss or damage, and from all claims for injury, death loss or damage of any kind or character, and by whomsoever suffered, occasioned by or in connection with any work or operations performed or undertaken by Lessee, its agents or employees. Lessee further agrees to promptly pay all bills for labor and materials incurred in Lessee's operations hereunder, and to indemnify and save harmless Lessor from all claims and liability of every kind and nature which may or might be incurred by reason of Lessee's operations hereunder.

13. Lessor or its duly designated agent may, at reasonable times, enter upon said premises and descend into all mine workings for the purpose of inspecting the same at reasonabletimes without interference with mining operations.

said properties to be drilled at the total or partial expense of the United States, or to any Government agency for an exploration or development loan or grant, Lessor agrees to execute consents or agreements for mineral exploration as may be required by the United States or any of its agencies; and agrees that, if necessary, it will subordinate the Lessor's royalties hereunder to the lien of the United States for the repayment of such loan or grants.

17. At any time that the Lessee determines any claims have no commercial value or promise, Lessee may surrender such claims to the Lessor by giving written notice to the Lessor by registered mail, provided Lessee shall have complied with all requirements with respect to such claims, and further provided that said Lessee shall be relieved of future obligations with regard to such claims released or relinquished to the Lessors, except to account for and pay royalties accrued for ores already extracted from such claims, and to do or pay assessment work as herein provided. The dollar volume of annual work requirements provided by Paragraph 2 herein shall not be changed because of surrender of part of the claims herein leased.

defects, except for the paramount title of the United States and discovery requirements, Lessor covenants and agrees to cooperate fully with Lessee and forthwith take such steps and actions as may be necessary or required by Lessee to cure said defects or clouds in title. The cost and expense of clearing title to said demised premises of any defects shown by such investigation shall be paid in the first instance by Lessee but one-half thereof shall be charged against future royalty payments to become due and payable to Lessor hereunder. Any title work which Lessee may elect to perform hereunder shall be entirely voluntary and the cost thereof shall be borne equally by the parties as above provided. The cost of any settlement of a title dispute by the Lessor and Lessee with any third party or third parties shall be borne equally by Lessor and and Lessee and shall be mutually agreed upon. In the event that any litigation is commenced or threatened involving the title to said premises, Lessee shall promptly notify Lessor thereof and

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

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D M E A
RECEIVED JAN 4 1957

DATE	INITIALS	CODE

224 New Customhouse
Denver 2, Colorado

January 2, 1957

Memorandum

To: Secretary to the Operating Committee

From: DMEA Field Team, Region III

Subject: Application for DMEA Aid (Uranium) Radio Geophysical Company (Maybe Claims) San Juan County, Utah

Enclosed are the original and one copy of the subject application in the amount of $10,780.00. One copy of the application is being forwarded the Grand Junction Office, DMEA, for their review and recommendations, and one copy is being retained in our file.

No bids for drilling have been submitted by the Applicant. Some drilling has been done on the property but the Applicant has not made clear his postulation of the existence of a Shinarump channel on the property.

DMEA Field Team, Region III

By W. M. Traver
Executive Officer

Enclosures

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

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

RECEIVED		
DATE	INITIALS	CODE

224 New Customhouse
Denver 2, Colorado

January 2, 1957

Memorandum

To: J. W. Hasler

From: DMEA Field Team, Region III

Subject: Application for DMEA Aid (Uranium) Radio Geophysical Company (Maybe Claims) San Juan County, Utah.

Enclosed is the Survey copy of the brochure on the subject application. Will you please discuss this application with the Bureau of Mines representative in the Grand Junction Office and the AEC and forward this office nine copies of your joint recommendations regarding the advisability of making a field examination.

DMEA Field Team, Region III

Original signed by
W. M. TRAVER

By W. M. Traver
Executive Officer

Enclosure

HMC:ytl

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

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

Signed by
W. W. TRAVER

RADIO GEOPHYSICAL COMPANY

GEOPHYSICS - MINING - RESEARCH
TRANSIT TOWER
SAN ANTONIO, TEXAS

LABORATORIES
5205 N. LAMAR BLVD.
AUSTIN, TEXAS

MINING
R G C BUILDING
BLANDING, UTAH

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DMEA
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DATE	INITIALS	CODE

December 20, 1956.

DMEA
DEPARTMENT OF THE INTERIOR
JAN 2 1957
REGION III
DENVER, COLORADO

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

Dear Sir:

Radio Geophysical Company, of San Antonio, Texas and Blanding, Utah, respectfully submits herewith to your office an application for a DMEA loan on one of it's uranium prospects in San Juan County, Utah.

Please address any correspondence regarding the processing of this application to: Radio Geophysical Company, P.O. Box 406, Blanding, Utah.

Very truly yours,

R.J. Noonan

R.J. Noonan
Radio Geophysical Company.

Enclosures: 4- DMEA Form MF-103
4- sets of 5 supplementary sheets to MF-103
4- MAYBE CLAIM maps.
4- photostatic copies of RGC-Oljato Lease

MF-103
(Revised April 1952)

RECEIVED
JAN 4 1957
DMEA

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

DMEA
DEPARTMENT OF THE INTERIOR
JAN 2 1957
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. 4594
Metal or Mineral Uranium
Date Received 1-4-57
Estimated Cost $10,780
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: RADIO GEOPHYSICAL COMPANY, a Texas Corporation. Mailing address: TRANSIT TOWER, SAN ANTONIO, TEXAS & P.O. BOX 406, BLANDING, UTAH.
Corporation President: William T. Rhame, Transit Tower, San Antonio, Texas.
Corporation Vice-president: R.J. Noonan, P.O. Box 406, Blanding, Utah
See letter of Dec. 30-1956

(*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 Eleven unpatented mining claims called the MAYBE CLAIMS 1-11 (inclusive) located in Section 15, T 36 S, R 18 E, SLM, in San Juan County, Utah.

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

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise Radio Geophysical Company is a lessee of the above named claims.

(*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. A photostat of the recorded copy of lease herewith attached.

(*e*) If you own the land, describe any liens or encumbrances on it
Owner of the claims is Oljato Uranium Company of Salt Lake City, Utah

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. All recordation information included in attached lease.

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 120 days and be completed within 6 months from the date of an exploration project contract. See supplementary sheets attached

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

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

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

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

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

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

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

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

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

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

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

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

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

[X] Money [ ] 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 December 15, 1956

RADIO GEOPHYSICAL COMPANY
(Applicant)

By R.J. Noonan

Vice-president & General Mgr.

P.O. Box 406, Blanding, Utah

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

NOTE: FIVE SUPPLEMENTARY EXPLANATION SHEETS ATTACHED

RADIO GEOPHYSICAL COMPANY
GEOPHYSICS - MINING - RESEARCH
TRANSIT TOWER
SAN ANTONIO, TEXAS

LABORATORIES
5209 N. LAMAR BLVD.
AUSTIN, TEXAS

MINING
R G C BUILDING
BLANDING, UTAH

OFFICIAL FILE COPY
RECEIVED JAN 4 1957

DATE	INITIALS	CODE

December 15, 1956

RADIO GEOPHYSICAL COMPANY
APPLICATION FOR DMEA LOAN
SUPPLEMENT TO FORM MF-103:

Parafraph #4:

(a) There are no mines on the property. In June of 1955 Radio Geophysical Company drilled one 4 3/4" rotary hole through the potential ore horizon on each of the eleven claims. Gamma logs were run on each hole and vertical and horizontal survey control was established for each drill site. Cores were taken from ten of the holes at the shinarump-moenkopi contact. A geologic strip log of the drill cuttings was recorded for each hole drilled. These eleven holes were drilled for claim title validation purposes as well as a broad reconnaissance and evaluation of the prospect. Uranium mineralization encountered in the 1955 drilling as evidenced by the gamma logs obtained is as follows:

Hole#	Depth	%U3O8	Rock	Formation
M-1	194' - 200'	0.07	Gy SS	Shinarump
	196' - 197'	0.62	"	"
M-2	Barren			
M-3	247' - 249'	0.03	Br SS	"
M-4	241' - 245'	0.10 plus	Gy SS	"
	244' - 245'	0.98	"	"
M-5	261' - 265'	0.15	"	"
M-6	270' - 276'	0.06	"	"
M-7	Unreliable log---hole caved unable to relog.			
M-8	Barren			
M-9	Barren			
M-10	Barren			
M-11	Barren			

All of the above survey notes, gamma logs and driller's logs are on permanent file in the Blanding, Utah office for examination.

(b) The property has no production history.

RADIO GEOPHYSICAL COMPANY
GEOPHYSICS - MINING - RESEARCH
TRANSIT TOWER
SAN ANTONIO, TEXAS

LABORATORIES
5209 N. LAMAR BLVD.
AUSTIN, TEXAS

MINING
R G C BUILDING
BLANDING, UTAH

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 4 1957

DATE	INITIALS	CODE

December 15, 1956

RADIO GEOPHYSICAL COMPANY
APPLICATION FOR DMEA LOAN
SUPPLEMENT TO FORM MF-103:

Paragraph #4:

(c) The MAYBE CLAIMS lie in a ~~favorable area for~~ finding uranium bearing paleostream channels in the Triassic Shinarump Formation. The claims are located in Section 15, T 36 S, R 18 E, SLM., in San Juan County, Utah on the west flank of a regional feature known as Elk Ridge. Uranium oxide ore production is current from shinarump channels less than one mile from the prospect to the north, northeast, southeast and to the southwest. Five of the holes drilled by Radio Geophysical Company in June of 1955 encountered weak to very strong uranium mineralization in the basal shinarump formation in rock that was considered to be channel sediments. Determination of the drill depths to the shinarump-moenkopi contact was carefully recorded. Vertical and horizontal survey control was then established for each drill site and the elevation datums of the moenkopi formation were computed and mapped. A regional southwest to west-south west dip of 2 degrees is indicated by this mapping. However, from drill hole M-7 to drill hole M-6 an east dip of 10 feet was recorded. Although these two holes are 600 feet apart the reversal of dip found indicates either shinarump scouring into the moenkopi, or structural anomaly. The four holes drilled to the west of hole M-7 were barren.

(d) A good road in daily use to the Deer Flat area crosses the prospect. The perimeter of the claim area had been bulldozed and is usable as a road. Other cross trails within the claim area have been bulldozed out for access. The entire area is flat lying with a light cover of sagebrush and manzanilla. The operator of a nearby mine has used the area to construct a landing strip for light planes.

(e) Availability of manpower, materials, supplies, equipment, etc., is excellent.

RADIO GEOPHYSICAL COMPANY
GEOPHYSICS - MINING - RESEARCH
TRANSIT TOWER
SAN ANTONIO, TEXAS

LABORATORIES
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AUSTIN, TEXAS

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BLANDING, UTAH

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DMEA
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DATE	INITIALS	CODE

December 15, 1956

RADIO GEOPHYSICAL COMPANY
APPLICATION FOR DMEA LOAN
SUPPLEMENT TO FORM MF-103:

Paragraph #5:

(a) Uranium

(b) The applicant is requesting the DMEA loan to aid in a drilling program to explore and to test the shinarump formation for uranium. Reconnaissance drilling to divulge the existence and the location of any shinarump channels that may traverse the prospect is considered to be the prime objective of the proposed program. Regional dip of the area is southwest to west-southwest. Mine control and other drill control in the area indicates that the general bearing of shinarump channels is southwesterly to west-southwesterly. The drill program proposed for the MAYBE CLAIMS basically consists of a combination of drill hole profiles oriented along strike to intercept and to cross-section any channels present.

Two such drill hole profiles are proposed. One profile with drill holes on 200 foot centers along an azimuth of 147 degrees from RGC hole M-7, and the other profile on 200 foot centers along an azimuth of 147 degrees from RGC drill hole M-3 should intercept any channel that crosses the prospect in a southwesterly direction.

Two holes off-setting RGC drill hole M-4 is desired to determine whether the strong mineralization encountered in that hole is associated with shinarump channeling. One hole 200 feet due southeast of M-4, and one hole 200 feet due southwest of M-4 should accomplish this objective.

The 1955 drilling indicates an average drilling depth of 265 feet from the surface into the moenkopi 5 feet. All holes drilled would be "plugged" to within 20 feet of the shinarump-moenkopi contact where a core would be taken. All holes would bottomed at least 5 feet into the moenkopi formation. Gamma logs would be run immediately after the hole was bottomed. Driller's logs and a geologic strip log would be recorded. Horizontal and vertical survey control would be obtained on each location and mapped.

(c) The entire program would be completed within 120 days after a contract had been awarded provided that such date were not prior to May 1, 1957. Snow and spring thaws could prevent earlier operations. Operating conditions for exploration work have been good in this area up into the month of December for the past three years.

RADIO GEOPHYSICAL COMPANY
GEOPHYSICS - MINING - RESEARCH
TRANSIT TOWER
SAN ANTONIO, TEXAS

LABORATORIES
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AUSTIN, TEXAS

MINING
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BLANDING, UTAH

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DATE	INITIALS	CODE

December 15, 1956

RADIO GEOPHYSICAL COMPANY
APPLICATION FOR DMEA LOAN
SUPPLEMENT TO FORM MF-103:

Paragraph #5:

(d) Radio Geophysical Company has been operating as an exploration, development and uranium producing company in the Elk Ridge area since March of 1954. Substantial amounts of money have been spent by the Company in uranium exploration and development work. Company personnel have made an intensive study of the potentialities and geology of the Elk Ridge area. The intended supervisor of the drilling program has directed three years of exploration work for the Company in uranium and has extensive experience in oil geology and seismology.

Paragraph #6:

(a) Program contracts and costs:

Unit	Unit Cost	Program	Estimated Costs
Drilling, plug***	$1.50/foot	4410 feet	$ 6,615.00
Drilling, core***	$3.00/foot	360 feet	1,080.00
Gamma logging***	$25.00/hole	18 holes	450.00
Bulldozing ***	$10.00/hour	30 hours	300.00
Surveying	$100.00/day	2 days	200.00
Maps & Reports	$5.00/hour	20 hours	100.00
Assays ***	$3.50/sample	10	35.00
Supervision	$100.00/day	20 days	2,000.00
Total estimated cost----------			$10,780.00

(*** Indicates independent contracts. Other items by Radio Geophysical CO.)

(b) Included in above estimate

(c) None

(d) None

(e) None

(f) None

(g) None

(h) None

[illegible]

[illegible]

[illegible]

(a) [illegible]

[illegible]

[illegible]

(a) [illegible]:

[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
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[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]

[illegible]

(b) [illegible]

(c) [illegible]

(d) [illegible]

(e) [illegible]

(f) [illegible]

(g) [illegible]

(h) [illegible]

RADIO GEOPHYSICAL COMPANY
GEOPHYSICS - MINING - RESEARCH
TRANSIT TOWER
SAN ANTONIO, TEXAS

LABORATORIES
5209 N. LAMAR BLVD.
AUSTIN, TEXAS

MINING
R G C BUILDING
BLANDING, UTAH

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RECEIVED JAN 4 1957

DATE	INITIALS	CODE

December 15, 1956

RADIO GEOPHYSICAL COMPANY
APPLICATION FOR DMEA LOAN
SUPPLEMENT TO FORM MF -103:

Paragraph #7:

(a) Yes

(b) Radio Geophysical Company to carry out the proposed program. Reimbursement to Radio Geophysical Company by the Government for 75% of the program costs completed and approved. Repayment to the Government for the loan of 75% of the approved program costs by a royalty on the production of and the sale of ore from the property if certified as a discovery and under and subject to the provisions of the Government's DMEA Order #1 Revised.

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
1/3/58	Ching	700
"	Ellis	700
6	Mutteady	100
		220
		225

JAN 6 1958

Mr. R. J. Noonan
Vice President and General Manager
Radio Geophysical Company
P. O. Box 406
Blanding, Utah

Re: Docket No. DMEA-4594 (Uranium)
Maybe Claims
San Juan County, Utah

Dear Mr. Noonan:

This is with reference to our letters of August 12, September 20, October 14, and December 3, 1957, requesting certain information related to your property rights.

We have not received the requested information; therefore, in accordance with our letter of December 3, 1957, we are considering your application as having been withdrawn as of January 3, 1958, and are placing it in our inactive files.

We regret the necessity of taking such action, however, it is taken without prejudice to your proposed project. If, at some future time, you desire to reopen this case, you may do so by filing a new application, referring to the subject application by the DMEA docket number, and furnishing the information previously requested, together with any other information that you think might be helpful.

Sincerely yours,

C. O. Mittendorf (for)

Administrator

MChing/gla
1-3-58
cc to: Admr.'s Reading File
THKiilsgaard, 5224
MChing
DMEA Field Team, Region III (2)

8623

DNEA Form 7
(12-60)

Mc:lmg/gls
1-3-62
cc to: Adm. & Reading File
THRIllegard, SSZT
MOHing
DNEA Field Team, Region III (2)

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
12-3	Ching	200
12-3	Ellis	700
"	Johnson	110
"	Mittendorf	100
12/3	gb	220
		700

DEC 3 1957

Mr. R. J. Noonan
Vice President and General Manager
Radio Geophysical Company
P. O. Box 406
Blanding, Utah

Re: Docket No. DMEA-4594 (Uranium)
Maybe Claims
San Juan County, Utah

Dear Mr. Noonan:

Reference is made to our letters of August 12, September 20, and October 14, 1957, regarding an area of conflict in the Maybe claims.

We wish to cooperate with you fully in allowing ample time to supply the requested information; however, we cannot indefinitely postpone action on an application. Therefore, if we do not receive the requested information within 30 days from the date of this letter, we will assume that you are no longer interested in proceeding with your application, and we will consider it as having been withdrawn.

Sincerely yours,

C. O. Mittendorf (for)

Administrator

MChing/izm 12-3-57
cc: Mr. Ching
Admr.'s Reading File
THKillsgaard, 5224
DMEA FT Regn. 3 (2)

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
	Long	
	Langer	
	Huttenlocher	100
		220
10/11	Ching	100
10/14	Ellis	700
10/15	B	220
		700

OCT 14 1957

Mr. R. J. Noonan
Vice President and General Manager
Radio Geophysical Company
P. O. Box 406
Blanding, Utah

Re: Docket No. DMEA-4594 (Uranium)
Maybe Claims
San Juan County, Utah

Dear Mr. Noonan:

We have been advised by our Solicitor's Office that the affidavit of Mr. Max K. Mangum, submitted with your letter of September 25, 1957, can not be accepted as sufficient evidence that the Maybe claims are paramount to the Blue-Jay claims and that there are no overriding royalties due the partners of Bears Ears Uranium Company.

In your letter of August 24, 1957 you stated "We shall also forward to you photostats of the deed from Bears Ears Uranium to Calvin Black and from Calvin Black to Oljato Uranium Company." We have not yet received these documents.

In order to continue processing your application it will be necessary for you to furnish either (1) the aforementioned photostats of the deeds or (2) Quitclaim deeds from Bears Ears Uranium Company or (3) Consents to Lien and Subordination Agreements executed by Bears Ears Uranium Company.

Sincerely yours,

9

Ernest Wm. Ellis, Director
Division of Rare and
Miscellaneous Metals

RWLong/eal - 10/10/57
Copy to: T. H. Kiilsgaard, Rm. 5224
Michael Ching, Rm. 4447
DMEA Field Team, Reg. 3 (2)
Robert P. Dwyer
Robert W. Long

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
10/2	Ching	700
"	Ellis	700
		140

October 2, 1957

Memorandum

To: Associate Solicitor,
Division of Mineral Resources

From: Ernest Wm. Ellis, Director
Division of Rare and Miscellaneous Metals

INTERIOR DEPT.
OCT 2 - 1957
SOLICITOR

Subject: Docket No. DMEA-4594 (Uranium)
Radio Geophysical Company
Maybe Claims
San Juan County, Utah

Please review the subject docket and determine whether or not the Applicant's property rights are sufficient for the purposes of a contract, particularly with respect to the area of conflict between the Blue Jay and Maybe claims.

It is requested that a reply to Mr. R. J. Noonan's letter of September 25 be prepared, if that is found appropriate.

/s/ Ernest Wm. Ellis

Ernest Wm. Ellis

MChing/gla
cc to: Mr. Ching

8623

RADIO GEOPHYSICAL COMPANY
P. O. BOX 232
BLANDING, UTAH

September 25, 1957

Re: Docket No. DMEA-4594 (Uranium)
Maybe Claims
San Juan County, Utah.

Mr. Ernest Wm. Ellis
Director
Division of Rare and Miscellaneous Metals
DMEA
Washington 25, D. C.

Dear Mr. Ellis:

enclosed is a photostatic copy of an affidavit of Mr. Max K. Mangum which is now on record in Monticello, Utah.

In the event that the affidavit is still insufficient proof that the Maybe claims hold paramount title over the Blue-Jay Claims a and that there is no overriding royalties existent on the Maybes, then I assume that you will require a quit-claim deed, or some such other instrument from Bears Ears Uranium. It may be possible to obtain such a deed from Bears Ears. However, I am not sure as to the stats of the company at present and there were some nine parties involved in the ownership of the company. A properly executed deed from Bears Ears will take time so if this procedure will be necessary to meet DMEA title requirements please let me know as soon as possible. There are no end of delays in contacting and obtaining such items from these people.

I am today forwarding consent to lien forms MF-205 to Oljato for their execution. Mr. Owen D. Bunker is now president of that company.

OFFICIAL FILE COPY
DMEA
RECEIVED SEP 30 1957

DATE	INITIALS	CODE
10/1	B	220
"	Chang	700

Very truly yours,

R. J. Noonan

R. J. Noonan

2.80

Aug 30 3 50 PM '57

R-9502

TO WHOM IT MAY CONCERN:

STATE OF UTAH)
: SS.
COUNTY OF SALT LAKE)

MAX K. MANGUM, being first duly sworn, deposes and says: The Maybe Claims of 01 Jato Uranium Company are located in Section 15, Township 36 South, Range 18 East, S. L. M., State of Utah. These claims are laid out along the north boundary of this Section and run south 1500 feet from said north boundary. That the section lying immeidately north of Section 15 was withdrawn by the Federal Government from all mining entries at the time the Maybe Claims were located. That this fact was well known to the locators of the Maybe Claims. That the Maybe Claims precede in point of time the location and recording of those Blue Jay Claims which overlap the Maybe Claims. That as President of 01 Jato Uranium Company affiant negotiated the purchase of the Blue Jay Claims from the original locators thereof, to-wit, Bears Ears Uranium Company and the partners of said partnership. That one of the conditions which was negotiated at the time of the purchase was an understanding that under no conditions would 01 Jato Uranium Company ever be required to pay any royalty to the locators and owners of the Blue Jay Claims on that part and portion of the Blue Jay Claims which overlap the Maybe Claims in that area running 1500 feet south from the north boundary of Section 15. Pursuant to these negotiations Mr. Calvin Black received from Bears Ears Uranium Company, a partnership, the letter dated August 3, 1955, wherein Bears Ears Uranium Company recited that "no royalty payments will be expected on the overlapping claims running 1500 feet south from the north boundary of Section 15, Township 36 South, Range 18 East, S. L. M." That Calvin Black at the time of the execution of this letter was a member of the Board of Directors of 01 Jato Uranium Company and was in consultation with affiant,

and requested this letter from the Sellers of the Blue Jay Claims pursuant to the instructions of affiant. Affiant further states of his own personal knowledge that the Blue Jay Claims which do overlap the Maybe Claims were located subsequent to the Maybe Claims, as is shown by the recording data which is of record in the County Recorder's Office of San Juan County.

Affiant further states that 01 Jato Uranium Company is under no legal obligation to pay any royalty to the former owners of the Blue Jay Claims for minerals or ores that might be removed from the Maybe Claims.

Further affiant sayeth naught.

Max K. Mangum

Subscribed and sworn to before me
this 20th day of August, A.D. 1957.

ALFRED BOHN NOTARY PUBLIC COMMISSION EXPIRES SEPT 24 1959 STATE OF UTAH

Leva D. Bohn
Notary Public
Residing at Salt Lake City, Utah

Entry No. P-9582 548 549
Recorded 8-30-57 At 3:50 P.M. Book 194 Page
FEE PAID
ARVILLA E. WARREN
San Juan County Recorder
$2.80 By ..... Deputy

RICH, ELTON & MANGUM
UTAH OIL BUILDING
SALT LAKE CITY, UTAH

549.

IN REPLY REFER TO:

FISCAL FILE COPY
DMEA
RECEIVED SEP 26 1957

DATE	INITIALS	CODE
9/26	B	220
1c	Chrg	700
Complete		

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

September 25, 1957
Re: DMEA 4594
Radio Geophysical Company
Maybe claims
San Juan County, Utah
Applicant's Estimate $10,780.00 - Uranium
Recommended Estimate $27,386.25

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 drilling, claims in which, as inferred from the results of 3 drill holes, there may be one or more Shinarump-Moenkopi uranium-bearing channels. Since filing the application more drilling has been done. The results are not conclusive but failed to enhance the prospects, in fact they tend to lower the probability of the most likely channel.

The property is midway between two mines about $3\frac{1}{2}$ miles apart. Each, as of April 1, 1957, had produced over 8,000 tons of 0.19 and 0.25% U_3O_8 ore.

The examiners consider further drilling worthwhile to further test the possibility of the existance of 2 inferred channels and recommend a 2-stage, 4-phase drilling program. It is to be regreted the applicant did not drill offset holes around the 3 ore holes instead of drilling the holes in the 6-hole fence in the northeast corner of the Maybe 2 claim. If a hole as good as M-1, M-4 or M-5 should be drilled in the Phase A, Stage I series, I assume a Phase B, Stage I hole would be drilled 50 feet from it. If so, why not use the information already gained and drill some offset holes instead of prospecting for duplicates of the ore holes.

As for hole 23, it appears to have as good a chance of being an ore hole as any hole in the B fence.

I concur with the recommendation of the examiners.

N. E. Nelson

N. E. Nelson

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
9/20	Ching	700
9/20	[illegible]	110
9/23	B	220
	Ching	700

Mr. R. J. Noonan
Vice President and General Manager
Radio Geophysical Company
P. O. Box 406
Blanding, Utah

SEP 20 1957

Re: Docket No. DMEA-4594 (Uranium)
Maybe Claims
San Juan County, Utah

Dear Mr. Noonan:

Reference is made to our letter of August 12, 1957, and your reply of August 24, regarding an area of conflict on the subject claims.

We have not as yet received the documents referred to in your letter. Since the further processing of your application is pending clarification of the property rights, it is important that you submit these documents as soon as possible.

In the event an exploration contract results from the application, a further requirement would be a Consent to Lien and Subordination Agreement executed by Ol Jato Uranium Company, Max K. Mangum, President. Blanks of our standard form MF-205 are enclosed for this purpose. The original and four copies are required by this office.

Sincerely yours,

SIGNED
Ernest Wm. Ellis, Director
Division of Rare and
Miscellaneous Metals

Enclosures

MChing/izm 9-20-57
cc: Mr. Ching
Admr.'s Reading File
THKiilsgaard, 5224
DMEA FT Reg. 3 (2)

8623

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DMEA
RECEIVED SEP 18 1957

DATE	INITIALS	CODE
9-19	C	220
"	Chuny	700

September 18, 1957

4594

Uranium
Radio Geophysical Co.
Maybe Group of Claims
San Juan County, Utah
$27,386.25

Ernest William Ellis, DMEA Member
Uranium Commodity Committee
James Paone, Bureau of Mines Member
Uranium Commodity Committee

Field Team report

9/12/57 9/17/57

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
224 New Customhouse
Denver 2, Colorado

September 12, 1957

OFFICIAL FILE COPY
DMEA
RECEIVED SEP 16 1957

DATE	INITIALS	CODE
9-16	C	220
		130
9-19	C	220
"	Chrony	700

Memorandum

To: Secretary to the Operating Committee, ~~DMEA~~

From: DMEA Field Team, Region III

Subject: Docket DMEA 4594 (Uranium) Radio Geophysical Company (Maybe Group of Claims) San Juan County, Utah - Joint Report of Examination

Enclosed are the original and two copies of the Joint Report of Examination on the subject property by H. F. Robertson, USBM, and F. M. Byers, Jr., USGS.

The field examiners conclude that the probability for making a significant discovery is sufficiently promising to justify Government participation. Accordingly, they recommend that the Applicant's work proposal be approved, as modified by them, in which the Field Team concurs.

The Field Team questions the propriety of drilling one hole (hole 23) which according to page 16 of the report was apparently added at the specific request of the Applicant. Such information, as may be gained from drilling this hole, would not benefit the interest of the Government.

Also enclosed are eight extra copies of Figure 3 for use in the preparation of the contract.

E. N. Harshman

E. N. Harshman
Acting Executive Officer

ON-SITE EXAM

Reviewed by
DMEA OPERATING COMMITTEE
9-18-57
(date)

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

P.O. Box 360
Grand Junction, Colorado

DMEA
DEPARTMENT OF THE INTERIOR
SEP 9 - 1957
REGION III
DENVER, COLORADO

MINERAL DEPOSITS
DMEA
RECEIVED
SEP 6 1957
U. S.
GEOLOGICAL SURVEY
DENVER, COLORADO

September 5, 1957

Memorandum

To: Executive Officer, DMEA Field Team, Region III

Through: E. N. Harshman

From: J. William Hasler

TRANSMITTED
SEP 12 1957

Subject: Transmittal of joint engineering and geologic report, DMEA docket 4594, Radio Geophysical Company, Maybe group of claims, San Juan County, Utah.

Enclosed are ten copies of a joint engineering and geologic report of DMEA docket 4594, Radio Geophysical Company, Maybe group of claims, San Juan County, Utah, by N. F. Robertson, U. S. Bureau of Mines, and F. M. Byers, Jr., U. S. Geological Survey.

Also enclosed are 10 copies of figure 1, Location map, Maybe claim group, Elk Ridge area, San Juan County, Utah; 10 copies of figure 2, map of southwestern Elk Ridge showing limits of continuous Shinarump conglomerate, and Maybe 1-11 claims; and 22 copies of figure 3, map of Maybe claims showing drill holes, possible Shinarump channels, and proposed stage I, Phase A drill holes, Elk Ridge, San Juan County, Utah, for inclusion in the report as well as for the preparation of a possible contract.

The applicant applied for government assistance to explore for uranium on the above-mentioned group of claims and the application was referred to the field and an examination was made on May 17, 1957. At the time of the examination the applicant's representative was requested to submit documents relating to settlement of the claims conflict. This material was not submitted until August 6 and the applicant also completed additional drilling before July 1, in order to fulfill the early assessment work requirements and asked that the examining team withhold its report until this drilling was completed. Consequently, this report has been delayed since the time of the examination in May 1957.

The Maybe claims are located in the center of the belt of continuous Shinarump conglomerate that trends northeasterly across Beer Flat and Elk Ridge. Significant uranium deposits within this belt are localized in Shinarump-filled channels secured into the top of the underlying Moenkopi formation. Production from properties within a mile and a half of the applicant's property totals over 10,000 tons of ore averaging 0.22 percent U_3O_8.

Reviewed by
DMEA OPERATING COMMITTEE
9-18-57
(date)

Reviewed by
DMEA OPERATING COMMITTEE

(date).

DMEA 4594 9/5/57

Evidence of uranium mineralization is present in three drill holes on the subject claims and tentative channel trends crossing the property can be inferred from the small amount of information available. Drilling data from an adjoining property, northeast of the Maybe claim group, indicates that a westerly trending channel enters the applicant's property at the northeast corner of the Maybe claim No. 1. The westerly extension of this channel is indicated by an ore-hole in the northern part of the claim.

Basing their decision on the favorableness of the claim group for uranium mineralization in Shinarump-filled channels, the examining team recommends approval of an exploratory drilling project consisting of 63 holes totaling 13,860 feet of non-core and 1,890 feet of core drilling, at an estimated overall cost of $27,386.25. Government participation at 75 percent would be $20,539.69.

The Atomic Energy Commission was consulted relative to the appraisal of the property as well as other Survey geologists familiar with the area. Memoranda of John E. Crawford, U. S. Bureau of Mines, and N. E. Nelson, U. S. Geological Survey, were noted and given due consideration. I concur with the conclusions and recommendations of the examining team that the program herein outlined be completed.

J. William Hasler

J. William Hasler,
Geologist

JWH/mlr

Enclosures
Reports (10)
Figs. 1 and 2 (10)
Fig. 3 (22)

FOR UNITED STATES GOVERNMENT USE ONLY

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

TRANSMITTED
SEP 12 1957

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY EXAMINING TEAM
REGION III

DMEA 4594

Radio Geophysical Company

Maybe group of claims

San Juan County, Utah

OFFICIAL FILE COPY
DMEA
RECEIVED SEP 16 1957
DATE
CODE
130
220

Uranium

Joint Engineering and Geologic Report

by

F. M. Byers, Jr.
Geological Survey

H. F. Robertson
Bureau of Mines

August 1957

Reviewed by
DMEA OPERATING COMMITTEE
9-18-57
(date)

[illegible]

DMEA 4594
RADIO GEOPHYSICAL COMPANY
MAYBE GROUP OF CLAIMS
SAN JUAN COUNTY, UTAH

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Joint Engineering and Geologic Report

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ILLUSTRATIONS

Figure	Follows page
1. Location map, Maybe claim group, Radio Geophysical Company, Elk Ridge Area, San Juan County, Utah	23
2. Map of southwestern Elk Ridge showing limits of continuous Shinarump Conglomerate, and Maybe 1-11 claims, Radio Geophysical Company, San Juan Co., Utah	23
3. Map showing drill holes, possible Shinarump channels, and proposed Stage I, phase A drill holes, Maybe claims, Radio Geophysical Company, San Juan Co., Utah	23

DMEA 4594
RADIO GEOPHYSICAL COMPANY
MAYBE GROUP OF CLAIMS
SAN JUAN COUNTY, UTAH

INTRODUCTION AND SUMMARY

Radio Geophysical Company, a Texas Corporation, Transit Tower, San Antonio, Texas and Box 406, Blanding, Utah, applied for DMEA assistance to explore for uranium on the Maybe group of claims in the Elk Ridge area, San Juan County, Utah. The applicant's plan of exploration consisted of 4,410 feet of non-core drilling and 360 feet of core drilling in 18 holes averaging 265 feet deep, with a total estimated cost of $10,780.00.

The property was inspected on May 17, 1957 by a DMEA examining team consisting of H. F. Robertson, Bureau of Mines, and F. M. Byers, Jr., Geological Survey. The applicant's representative failed to meet the examining team at the appointed time but was subsequently contacted at the Company offices in Blanding, Utah.

The Maybe claims are located near the center of the belt of continuous Shinarump conglomerate that trends northeasterly across Deer Flat and Elk Ridge. Significant uranium deposits within this belt are localized in Shinarump-filled channels scoured into the top of the underlying Moenkopi formation. Several productive uranium properties, including the Oakie and Sandy mines, are located within 1 1/2 miles of the applicant's claims. Combined production from the above two properties totals over 10,000 tons of ore averaging 0.22 percent U_3O_8

according to Atomic Energy Commission production records.

Evidence of uranium mineralization is present in three drill holes on the subject claims and tentative channel trends crossing the property can be inferred from the small amount of information available. Drill-hole data from adjoining property, northeast of the Maybe claim group, indicates that a westerly trending channel enters the applicant's property at the northeast corner of the Maybe claim no. 1. The westerly extension of this channel is indicated by an ore-hole in the northern part of the claim.

The Maybe group of claims conflict with the northern part of the Blue Jay group which were examined in May 1955 in connection with an application for Government assistance under Docket No. DMEA 3772, Bears Ears Uranium Company (later DMEA 4120, Ol Jato Uranium Company). The applicant's representative, R. J. Noonan, was notified of the need for documents relating to any settlement pertaining to the conflict. On August 6, 1957, two letters were submitted to the DMEA Field Team, Region III, which appear to resolve the conflict in favor of the applicant.

Basing their decision on the favorableness of the claim group for uranium mineralization in Shinarump-filled channels, the examining team recommends approval of an exploratory drilling project consisting of a maximum of 63 holes totaling 13,860 feet of non-core and 1,890 feet of core drilling, at an estimated overall cost of $27,386.25. Government participation at 75 percent would be $20,539.69.

ACKNOWLEDGMENTS

The Atomic Energy Commission was consulted concerning reserve and production data of nearby mines.

R. Q. Lewis and W. B. Gazdik, who have supervised mapping projects and Geological Survey drilling in the Elk Ridge area, were consulted for pertinent information concerning the proposed project area.

Memoranda of John E. Crawford, USBM, and N. E. Nelson, USGS, were noted and given due consideration.

LOCATION, TOPOGRAPHY, AND PHYSICAL FEATURES

The property consists of eleven located lode mining claims in one contiguous group in the western part of the Elk Ridge area (figs. 1 and 2). The Maybe group lies wholly within section 15, T. 36 S., R. 18 E., Salt Lake Meridian, San Juan County, Utah. The claims are 24 miles north of the Atomic Energy Commission camp at Natural Bridges, Utah and 35 miles west of Blanding, Utah. Access is over Utah Highway 95, a graveled road, and 5 miles of fair to poor dirt road between the highway and the property. Blanding, Utah is 22 miles south of Monticello, Utah, the site of a uranium buying station, and 198 miles from Grand Junction, Colorado, the nearest major source of supplies. Highways from Blanding to Monticello and Grand Junction are paved. A new uranium mill at Mexican Hat, Utah, has been recently completed, and will probably purchase uranium ore from mines in the Elk Ridge area.

The claims are located on the rolling surface of a Moss Back capped mesa. Road construction and drillsite preparation are relatively easy and should require only a moderate amount of bulldozer work. South of the Maybe claims, the terrain drops sharply to the floor of Burch Canyon which is as much as 1,500 feet lower.

The cool climate on Elk Ridge at an altitude of 7,800 to 8,100 feet is ideal for surface operations at least 7 months of the year. In late winter and early spring of a normal year, heavy snowfall and spring thaws make surface operation inadvisable for a period of 3 to 5 months. With proper preparation and maintenance, underground operations can be carried on during most of the year.

There are no unusual problems of accessibility, supply, labor, housing, power, or water to be met, provided that exploration is not attempted during the severe winter season. Drilling exploration would be contracted to independent contractors who would furnish necessary equipment, housing, and other facilities for their own personnel.

HISTORY AND PRODUCTION

The search for uranium in the Elk Ridge area dates from 1951 when it was first considered for exploration by the Atomic Energy Commission, but there was no uranium production until 1953. There has been no mining operations on the Maybe group of claims.

The nearest production has been from the Oakie mine about 1 1/2 miles southeast of the Maybe claim group and from the Sandy mine about 1 1/2 miles west of the group. The following production statistics were secured from the Atomic Energy Commission and are correct through March 1957.

Mines	Total Tons produced	Percent U_3O_8
Oakie group	8,676	0.25
Sandy group	8,335	0.19

OWNERSHIP AND EXTENT

The property consists of eleven lode mining claims located in the Elk Ridge area about 35 miles west of Blanding, Utah. The Maybe group of claims cover the northern part of section 15, T. 36 S., R. 18 E., SLBM, San Juan County, Utah. In extent, the eleven claims cover an area of about 220 acres.

The Maybe claims were located on November 10, 1954, by Max K. Mangum presumably acting for Ol Jato Uranium Company although the company is not named on the location notices. The assumption is made that Ol Jato Uranium Company has a valid title to the Maybe group of claims and, as the owner, has leased the property to the applicant, Radio Geophysical Company. A copy of the lease agreement between Ol Jato Uranium Company and Radio Geophysical Company was submitted with the application.

Briefly, the lessee agrees to expend $2,750.00 per year on exploration, development, and mining work on the property during the five-year term of the lease. The lessor would receive fifteen percent of the gross value of ores (less haulage and development allowances) mined from the property. The lease provides for subordinating the lessor's royalty to the lien of the United States for the repayment of any exploration loans.

Location data as verified by records at the San Juan County Courthouse at Monticello, Utah are as follows:

Claim Name	Location Date	Recorded Book	Recorded Page
Maybe 1 thru 11, incl.	Nov. 10, 1954	227	255 thru 260 incl.

All location notices were signed by Max K. Mangum.

A conflict was noted between the Maybe group of claims and the Blue Jay group of claims which were examined in May 1955 in connection with a DMEA application under Docket No. DMEA 3772, Bears Ears Uranium Company (later DMEA 4120, Ol Jato Uranium Company). The applicant's representative, Mr. R. J. Noonan, was requested to submit documents relating to settlement of the conflict. On August 6, 1957, the applicant submitted a letter from the lessor which states, in effect, that the Maybe claims are considered the valid and controlling title to the northern 1,500 feet of section 15, T. 36 S., R. 18 E., SLBM. This area sufficiently covers the ground concerned by the proposed exploration project and appears to be adequately controlled by the applicant.

PRESENT STATUS

Exploration and Development

The applicant drilled one hole on each of the eleven Maybe claims for claim validation purposes, a procedure now permitted in Utah, and for a broad reconnaissance of the ore potential of the property. Three of the holes reportedly penetrated ore-bearing material according to the applicant's radiometric logs. The elevation of the Shinarump-Moenkopi contact in each of the holes was noted and the presence of an east-west trending channel inferred across the northern end of the claims. However, the single row of holes drilled by the applicant furnishes insufficient data to definitely establish the presence or trend of a channel. The applicant intends to do more drilling on the claims before July 1 in order to fulfill the yearly assessment work requirements. Results from the future drilling may supplement the data available at the present time.

Mining Equipment and Other Facilities

There was no mining equipment on the property at the time of the examination. The proposed exploration drilling would be done by independent contractors who would furnish housing and equipment for their own personnel. The applicant has a small metal building which would serve as office-living quarters for project personnel not supplied by the contractor.

Several access roads traverse the property at the present time and additional roads and drillsites could be constructed without difficulty.

Ample domestic and drilling water can be obtained within a few miles of the claims.

GEOLOGY

The applicant's Maybe group, consisting of Maybe 1-11 claims, is located about three miles west of the axis of the Monument upwarp, where the dip of the beds ranges from 2 to 4° WSW. The claims overlie approximately the middle part of a more or less continuous Shinarump sandstone belt consisting dominantly of channel sandstone facies. (See figure 2.)

The Maybe group is mostly underlain by the Moss Back sandstone member of the Triassic Chinle formation, except on the Maybe 11 claim (see fig. 2 and 3) in the southernmost part of the property, where the lower Triassic Moenkopi formation and the lower part of the Chinle formation are exposed. The Moenkopi formation consists of reddish and chocolate brown sandstone, siltstone, and mudstone, whose color contrast with the overlying purplish gray Chinle formation provides a convenient and readily identifiable lithology for bottoming drill holes through the Shinarump. The overlying Shinarump member of the upper Triassic Chinle formation is either lacking or not exposed on the Maybe 11 claim, but has been penetrated by all eleven drill holes, one in each of the eleven Maybe claims. The lower Chinle mudstone between the Shinarump sandstone member and the overlying Moss Back sandstone member is about 160 feet thick. It consists of greenish-gray and red mudstone and locally contains purplish white mottled sandy mudstone and light gray sandstone lenses in

the lower part. The Moss Back sandstone member of the Chinle formation is about 75 feet thick and consists of massive, hard, light gray medium to coarse sandstone. This resistant sandstone member forms most of the surface on the Maybe group and all of the drill holes proposed by Radio Geophysical Company would be collared in the Moss Back sandstone.

The Shinarump member of the upper Triassic Chinle formation has been made the object of a special study by geologists of the U. S. Geological Survey and the Atomic Energy Commission. The Shinarump member has been found to consist of predominantly channel-type conglomeratic sandstone facies in a more or less continuous belt that trends southwesterly across Elk Ridge from the vicinity of the Notch (fig. 2). The channel-type sandstone and conglomerate facies is commonly associated with channel scours into the underlying Moenkopi. These channel scours trend westerly to southwesterly across Elk Ridge parallel to the main belt of continuous Shinarump conglomerate, which is three to four miles in width (fig. 2).

The boundaries of the continuous channel-type Shinarump facies shown on figure 2 are gradational and inferred, and no contact may be observed in the field where these inferred boundaries are shown on the map. Rather, these boundaries are the result of much information, including both outcrop and drill holes, and represents the best guess as to the approximate limits of favorable Shinarump sandstone. For example, flood plain type facies consisting of interbedded mudstone and siltstone, or fine- to medium-even-grained sandstone also occur within

the southwesterly trending belt of favorable Shinarump. The Willy G., Mecca, and Star groups of the Houston Oil Pool No. 1 (DMEA 4218) are situated along the northern edge of the favorable belt of Shinarump, but examination of the outcrop, of the drill cores, and adjacent properties showed that this area consisted predominantly of flood plain type Shinarump facies and was therefore unfavorable. On the other hand, favorable channel-type facies, though restricted in extent, do occur outside the belt of continuous favorable Shinarump facies. For example, the Payday mine and the West Payday mine in the northeast corner of the area shown in figure 2, have mined ore in a small channel containing conglomeratic sandstone facies of the Shinarump. Also, two small channels filled with conglomeratic sandstone were observed in outcrop and in mine workings on the April, Butte, and Canyon groups of the Dalmid Uranium Corporation (DMEA 4409, Contract Idm-E 1066).

ORE DEPOSITS

Uranium ore deposits in the Elk Ridge area are mostly in the 10,000 ton class. The best known of these deposits are at the Sandy mine, Sandy No. 3 mine, Oakie mine, and the Payday mine. Most of these mines, with the exception of the Payday mine, lie within the belt of favorable channel-type conglomeratic sandstone facies of the Shinarump. See figure 2. The ore bodies are localized along the bottoms or the sides of channel scours in the Moenkopi formation filled with Shinarump conglomeratic sandstone. These channels have been traced by mine workings and drill

holes to as much as 2,000 feet in length in the Elk Ridge area. Uranium ore bodies along the channels have been traced as much as 700 feet along the length of the channel. Channel widths range from about 100 to 200 feet and are apparently somewhat smaller than channels exposed in the Red Canyon area to the southwest. Widths of ore bodies are likely to be narrow, and commonly may not exceed 50 feet in width. The ore body at the Payday mine (fig. 2) averaged about 30 feet in width along its richest portion and about 5 feet in thickness. The grade ranges from about 0.20 percent U_3O_8 in the Oakie and Sandy mines to about 0.40 percent U_3O_8 in the Payday mine.

No large ore bodies are known in the immediate vicinity of the applicant's Maybe group. The outcrop of Shinarump conglomerate about half a mile south of the main block of the applicant's claims (fig. 2) is strongly mineralized and shows a channel scour about 20 feet in depth (W. P. Williams, report of examination, DMEA 3772, re-numbered 4120). The occurrence of this mineralized channel was the basis for an approval report of examination on the Blue Jay claims of Bears Ears Uranium (Williams, DMEA 4120, fig. 2). The trend of the Shinarump channel, however, could not be determined from the outcrop and subsequent drilling on the Blue Jay claims has shed little light on the problem.

Evidence of uranium ore mineralization is present in three drill holes on the applicant's Maybe claims (see fig. 3). The applicant has kept rather careful collar elevations and drill logs in the holes drilled so that the elevation of the Shinarump-Moenkopi contact is known with

certainty. On the basis of the elevation data furnished by the applicant, tentative channel trends in the vicinity of the applicant's drill holes are shown on figure 3. Admittedly, there is probably not sufficient data on which to base a reliable structure contour map, but the inferred channel trends will serve as a guide to proposing an exploration program. The inferring of channel trends has also been aided by information on the Shumway property just to the northeast. According to R. J. Noonan, representing the applicant, the Shumway brothers have delineated a westerly trending channel that crosses into the Maybe group of claims approximately at the section corner between 10, 11, 15, and 14 sections in the northeast corner of the applicant's Maybe group (fig. 3). The westerly trend of this channel is confirmed by ore hole M-1 in the northern part of Maybe 1 claim.

A fence of 6 holes drilled recently in the northeastern part of Maybe 2 claim failed to penetrate any ore. The channel may pass to the north of the fence or possibly may pass through the fence in the vicinity of barren drill hole M-17. Proceeding westward, drill holes M-2 and M-3 are barren and very weakly mineralized, respectively, and also the contact appears to be relatively high in both holes and therefore on the bank of the inferred channel. Whether the channel passes to the north of these drill holes or to the south, or possibly between them, cannot be determined by the data available. Drill holes M-4 and M-5 on Maybe claims 4 and 5, respectively, penetrated ore-bearing sandstone and possibly may be presumed to be at or near the bottom of the channel.

The elevation of the Moenkopi-Shinarump contact in weakly mineralized drill holes M-6 on Maybe 6 claim, is not as low as would be inferred by the regional dip and therefore may be presumed to be slightly up on the bank off the bottom of the channel. That this inference is probably correct is demonstrated by the altitude of the Shinarump-Moenkopi contact in drill holes M-7 and M-20 on Maybe 7 claim. The elevation on the contact is actually about 10 feet higher than in drill hole M-6 and therefore these holes penetrated the contact high on the bank and at some distance from the bottom of the channel. It is believed that the bottom of the channel and the locus of potential ore-bearing sandstone is a few hundred feet to the south of drill holes M-7 and M-20 rather than to the north, mainly on the basis of an average trend of WSW of known Shinarump channels in the area. On the slightly more favorable chance that the channel is on the applicant's property south of drill holes M-6, M-7, and M-8, an exploration program is proposed.

The applicant's drill hole data are given in the table below:

Drill hole	Depth (feet)	Thickness (feet)	Percent eU_3O_8
M-1	194-200	6.0	0.07
	196-197	1.0	0.62
M-3	247-249	2.0	0.03
M-4	241-245	4.0	0.10+
	244-245	0.98	
M-5	261-265	4.0	0.15
M-6	270-276	6.0	0.06

Drill holes M-2, M-7, M-8, M-9, M-10, and M-11 are barren.

PROPOSED EXPLORATION

The applicant's first proposal called for one stage of core and non-core drilling at an estimated cost of $10,780.00. The proposed drill-holes were laid out in two fences to explore the claim area for mineralized Shinarump-filled channels. This program was considered inadequate to properly explore the claim group and an alternate program was discussed with the applicant.

The following revised exploration program was agreed upon at a conference between the applicant's representative, R. J. Noonan, and the examining team. It was felt that the width of the Shinarump channels in the Elk Ridge area would justify drill hole spacing of 100 feet in stage I, phase A, with two 50-foot offsets per drill profile as stage I, phase B. An additional amount of drilling is also proposed as a stage II program with phases A and B analogous to similar phases in stage I.

The examining team believes that in exploring for the position of Shinarump channels and their contained ore deposits, the final stage should consist of two 50-foot offsets from drill holes within the fence. The maximum depth at which such 50-foot offsets would be permitted in drill fences exploring for Shinarump channel-type deposits should be limited by the amount that the drill hole might wander at the depth of the target, rather than by any arbitrary rules related to costs of exploration. These 50-foot offsets would not "block out" ore. If 50-foot offset holes in drill fences are spaced on an average of 500 feet apart between fences as shown in figure 3, the average square grid drilling

density would be the square root of (50 x 500)ft^2 or 158 feet--not so close for a final stage where drilling depths average 250 feet. (In a few channels where the bottom of the channel is wide (200 feet), as in Red Canyon, and the ore occurs close to one side of the channel, as many as three 50-foot offset holes might be required in one drill fence.) Staggered drill hole fences with 100-foot spacing will not necessarily be successful in penetrating a Shinarump ore target unless the trend of the elongate ore body is exactly known, which is seldom the case. Fifty foot offsets as the final stage of a drill fence permits very tight geologic control across the channel and will insure penetration of the bottom of the channel and any significant ore bodies within the channel.

As stage I, phase A, 21 drill holes numbered 21 through 41 as shown in figure 3, are proposed. These holes would consist on the average, of 220 feet of plug-bit or non-core and 30 feet of core in the bottom of the hole to core approximately 25 feet of Shinarump conglomerate and 5 feet of the underlying Moenkopi. In the proposed contract as much as 10 feet of cored Moenkopi should be permissible, inasmuch as the applicant will use a 15-foot core barrel and it is difficult to predict any closer than 5 to 10 feet just where the Shinarump-Moenkopi contact is likely to be penetrated. Drill holes 21 through 27, a total of 7 holes, are proposed in two drill profiles on Maybe 1 and Maybe 2 claims, respectively. The southeasterly trending drill fences, A and B, will check on the possibility of a southwesterly trending channel passing through the applicant's drill hole M-17. Drill hole 23, 150 feet north of the applicant's

drill hole M-2, should give added geologic information on the possibility of the channel passing north of the applicant's property. This drill hole was added at the specific request of the applicant's representative, R. J. Noonan.

Drill fence C on Maybe 4 claim, will offset ore-bearing hole M-4 and also serve as a check on the location of the bottom of the channel. Drill fence D consisting of 3 holes, will offset ore-bearing hole M-5 and further check on the location of the bottom of the channel. Hole 32 may be abandoned at the request of the operator. Drill fence E will explore for the location of the channel and should not be drilled until the trend of the channel has been located by fences C and D. Drill fence F consisting of 5 holes, is the last fence to the southwest of Stage I, phase A, and should be drilled last. The examining team suggests that in the event a contract is prepared the operator should be permitted to move holes in the two most westerly drill fences, E and F, southeasterly along the line of the fence, in order that the drill holes in these fences may be placed to best advantage based on the results of drilling the fences farther to the east. This method of basing drill hole location on information gained as the work progresses has been proposed in DMEA 4589, Report of Examination, and will be proposed for other contracts pending in the White Canyon district. The examining team believes that in cases where the operator is competent, he can be trusted to follow channels under cover by drilling in much the same manner that an operator is allowed to follow a channel by drifting.

Stage I, phase B, would consist of not to exceed two 50-foot offset holes in each of the drill fences of Stage I, phase A. Phase B would require prior approval by the DMEA Field Team, Region III. A total of 12 holes would be required and these holes would average 220 feet of non-core and 30 feet of core in the bottom of the hole, as in stage I, phase A.

As Stage II, phase A, 20 drill holes comprising 4 fences of 5 holes, or 5 fences of 4 holes, are allocated to further delineate and explore ore-bearing Shinarump channels discovered as a result of Stage I, phases A and B. All Stage II holes would require approval by the Government before being drilled. For each hole, 220 feet of non-core and 30 feet of core would be allocated as in the other phases. As Stage II, phase B, 10 drill holes would be used to offset Stage II, phase A holes 50 feet along the line of the fence. No more than two 50-foot offset holes would be permitted per drill fence.

The following geologic considerations should be mentioned as aids in setting up any possible contract. Coring should begin at or just below the top of the Shinarump sandstone. Coring should be stopped and the hole bottomed in at least 2 but in no more than 10 feet of Moenkopi formation. The examining team believes that it is only fair to the operator to allow him to be paid for as much as 10 feet cored in the Moenkopi. Moreover, the thickness of bleached greenish gray Moenkopi is commonly as much as 4 feet in thickness and is of aid in evaluating the geologic favorability of the Shinarump conglomerate. Samples of the

cuttings should be taken every 2 feet through the Shinarump conglomerate and the Moenkopi formation, in the event that core should be lost. A total of 63 chemical assays should be permitted, or an average of 1 assay per drill hole. Inasmuch as the terrain is held up by the Moss Back formation which is relatively flat, an average of about two hours of bulldozing would be required per hole.

ESTIMATED COSTS OF PROPOSED PROGRAM

The proposed drilling program with the various stages and total footages are summarized below:

			FOOTAGES		
Stage	Phase	No. of holes	Non-core	Core	Total
I	A	21	4,620	630	5,250
I	B	12	2,640	360	3,000
II	A	20	4,400	600	5,000
II	B	10	2,200	300	2,500
Totals for Project		63	13,860	1,890	15,750

The following cost estimate is based on the bid by K and N Drilling which gives the lowest overall cost. The average depth of hole should be 250 feet so an average bid price of $1.20 per foot is used as the non-core unit price. The prices used in the computation of estimated costs are as follows:

Non-core drilling - $1.20 per foot
Core drilling - $3.00 per foot
(No price is quoted on standby time so it is assumed that none would be charged.)

Stage I, phase A (21 holes averaging 250 feet in depth)

Estimated time for completion - 1.0 month
Basis - 1 drill rig - 1 shift per day
25 days per month - 200 feet per day

(1) Independent Contracts

Drilling		
non-core - 4,620 feet at $1.20/ft.	$5,544.00	
core - 630 feet at $3.00/ft.	1,890.00	
Bulldozing - 50 hrs at $12.00/hr.	600.00	
Total independent contracts		$8,034.00

(2) Supervision and Technical Services

Geological and engineering services 1 month at $750.00/mo.	$ 750.00

(3) Operating Materials and Supplies

Office and field supplies 1 month at $100/mo.	$ 100.00

(4) Operating Equipment

Depreciation
1 four-wheel drive vehicle valued at $2,200
1 hole probing unit valued at 800
$3,000
Depreciation on 60 month basis
$\frac{3,000}{60}$ = $50 per month
Depreciation for 1 month $ 50.00

(7) Miscellaneous

Direct accounting costs at $50/mo.	$ 50.00	
Payroll taxes and ins. 8% of $750	60.00	
Chemical analysis for U_3O_8 21 samples at $3.50 each	73.50	
Core boxes-65 boxes at $1.25/ea.	81.25	
Total miscellaneous		$ 264.75

Total estimated cost of Stage I, phase A $9,198.75

Incidental Allowance (Total costs less independent contracts, core boxes, and chemical analyses)

$\frac{\$1,010.00}{5,250 \text{ ft.}} = \$0.19$ per foot

Stage I, phase B (12 holes averaging 250 feet in depth)

Estimated time for completion - 0.75 month

(1) Independent Contracts

Drilling		
non-core - 2,640 feet at $1.20/ft.	$3,168.00	
core - 360 feet at $3.00/ft.	1,080.00	
Bulldozing - 25 hrs. at $12.00/hr.	300.00	
Total independent contracts		$4,548.00

(7) Miscellaneous

Chemical analyses for U_3O_8 12 samples at $3.50 each	$ 42.00	
Core boxes-36 at $1.25 each	45.00	
Total miscellaneous		$ 87.00

Fixed Unit Costs (All costs less independent contracts, chemical analyses, and core boxes.)

Incidental allowance 3,000 feet at $0.19 per foot	$ 570.00	
Total Fixed Unit Costs		$ 570.00

Total estimated cost of Stage I, phase B $5,205.00

Stage II, phase A (20 holes averaging 250 feet in depth)

Estimated time of completion - 1.0 month

(1) Independent Contracts

Drilling		
non-core - 4,400 feet at $1.20/ft.	$5,280.00	
core - 600 feet at $3.00/ft.	1,800.00	
Bulldozing - 40 hrs. at $12/hr.	480.00	
Total Independent Contracts		$7,560.00

(7) Miscellaneous

Chemical analyses for U_3O_8		
20 samples at $3.50 each	$ 70.00	
Core boxes-60 at $1.25 each	75.00	
Total Miscellaneous		$ 145.00

Fixed Unit Costs

Incidental allowance	
5,000 feet at $0.19 per foot	950.00

Total estimated cost of Stage II, phase A $8,655.00

Stage II, phase B (10 holes averaging 250 feet in depth)

Estimated time of completion - 0.50 month

(1) Independent Contracts

Drilling		
non-core - 2,200 feet at $1.20/ft.	$2,640.00	
core - 300 feet at $3.00/ft.	900.00	
Bulldozing - 20 hrs. at $12.00/hr.	240.00	
Total Independent Contracts		$3,780.00

(7) Miscellaneous

Chemical analyses for U_3O_8		
10 samples at $3.50 each	$ 35.00	
Core boxes-30 at $1.25 each	37.50	
Total Miscellaneous		$ 72.50

Fixed Unit Costs

Incidental allowance-2,500 ft. at $0.19/ft.	$ 475.00

Total estimated cost of Stage II, phase B $4,327.50

A summary of the estimated costs of the proposed program is as follows:

Stage	Phase	No. of Holes	Aver. Depth	Core feet	Plug feet	Total feet	Overall Cost
I	A	21	250	630	4,620	5,250	$9,198.75
I	B	12	250	360	2,640	3,000	5,205.00
II	A	20	250	600	4,400	5,000	8,655.00
II	B	10	250	300	2,200	2,500	4,327.50
Totals		63	250	1,890	13,860	15,750	$27,386.25

Average overall cost per foot	$ 1.739
Government participation at 75 percent	$20,539.69
Estimated time for completion of project	3 1/4 months

CONCLUSIONS AND RECOMMENDATIONS

The Maybe group of claims is located near the center of the belt of continuous Shinarump conglomerate that trends northeasterly across Deer Flat and Elk Ridge. An outcrop of Shinarump about one-half mile south of the subject claims is strongly mineralized and shows a channel scour about 20 feet in depth. The occurrence of this mineralized channel was the basis for approval of a proposed exploration project on the Blue Jay claims of Bears Ears Uranium (DMEA 3772) immediately south of the Maybe claims.

Evidence of uranium mineralization is present in three drill holes on the subject claims and tentative channel trends can be inferred from the small amount of information available. The inferring of channel

trends has been aided by information concerning adjoining property, northeast of the Maybe claims. It is reported that a westerly trending channel enters the Maybe group of claims approximately at the northeast corner of the Maybe no. 1. The westerly trend of this channel is confirmed by ore hole M-1 in the northern part of the claim.

The chance of finding a uranium deposit of significant size in the northern part of the claim group is fair to good and exploration drilling is justified. A drilling project as outlined is recommended for approval and includes a maximum of 63 holes, totaling 13,860 feet of plug-bit drilling and 1,890 feet of core drilling, at an estimated overall cost of $27,386.25. Government participation at 75 percent would be $20,539.69.

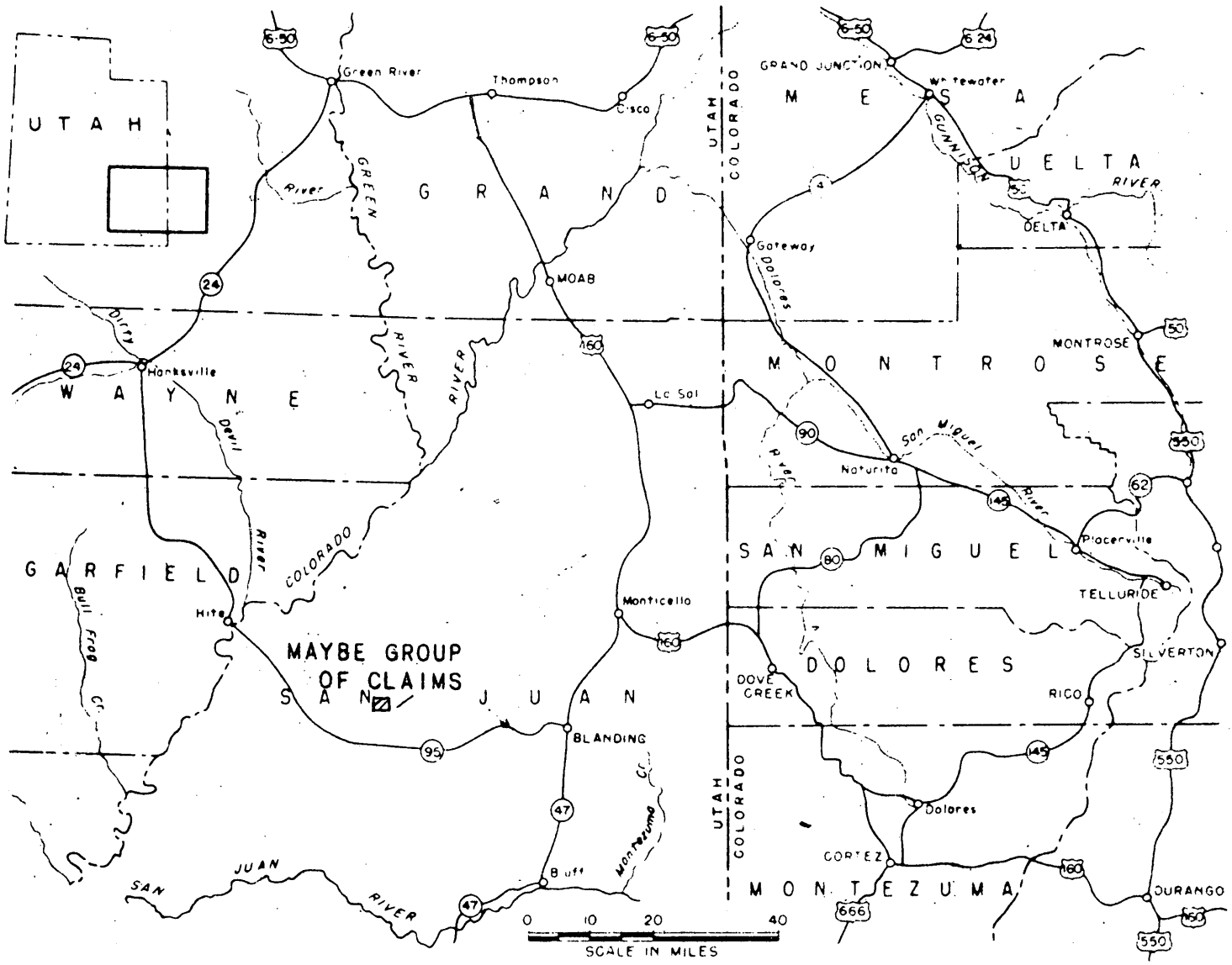


FIGURE 1.--LOCATION MAP; MAYBE CLAIM GROUP; RADIO GEOPHYSICAL COMPANY; ELK RIDGE AREA, SAN JUAN COUNTY, UTAH.

RADIO GEOPHYSICAL COMPANY
P. O. BOX 232
BLANDING, UTAH

August 24, 1957.

Re: Docket No. DMEA-4594(Uranium)
Maybe Claims
San Juan County, Utah.

Mr. F. L. Knouse
Division of Rare & Miscellaneous Metals
D. M. E. A.
Washington 25, D. C.

Dear Mr. Knouse:

additional pertinent instruments concerning the overlap of this Company's Maybe claims and the Blue Jay claims are now on hand. These instruments are being recorded in the records in Monticello, Utah.

Photostats of these recorded instruments will be forwarded to your office upon receipt here. We shall also forward to you photostats of the deed from Bears Ears Uranium to Calvin Black and from Calvin Black to Oljato Uranium Company.

Very truly yours,

R. J. Noonan

R. J. Noonan

cc/ Oljato
cc/ W. T. Rhame

OFFICIAL FILE COPY
DMEA
RECEIVED SEP 6 1957

DATE	INITIALS	CODE
9/6	G	220
"	[illegible]	700

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

224 New Customhouse
Denver 2, Colorado

August 12, 1957

Memorandum

To: Secretary to the Operating Committee, DMEA

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

Subject: Docket DMEA 4594 (Uranium) Radio Geophysical Company (Maybe Claims) San Juan County, Utah

Enclosed as supplemental data to the application, included under the subject docket, is one copy of drilling bid from K & N Drilling, which was submitted in response to our request of August 6, 1957.

E. N. Harshman

E. N. Harshman
Acting Executive Officer

OFFICIAL FILE COPY
DMEA
RECEIVED AUG 15 1957

DATE	INITIALS	CODE
8/15	Q	220
"	~~Clay~~	700

June 12, 57

Radio Geophysical Inc.
% Ralph Noonan
Blanding Utah

K & N Drilling
Manoes, Colo.
Phone 2361

Dear Sir:

We here with submit a bid for 4500 ft. of plug drilling on the Maybe Claims south of Air Ship by the Wooden Shoe East of Deer Flat.

This also includes 500 feet of core totaling 5000 ft. of hole thoroughtout.

We will plug drill on the progressive scale. as follows,

$1.00 per foot from 0 to 100 feet
$1.25 per foot from 100 to 200 feet
$1.50 per foot from 200 to 300 feet

Average for 250 ft. hole $1.30 per foot.
We will core for $ 3000 per foot.

Sincerely yours,

DMEA
DEPARTMENT OF THE INTERIOR
AUG 12 1957
REGION III
DENVER, COLORADO

OFFICIAL FILE COPY
DMEA
RECEIVED AUG 15 1957

DATE	INITIALS	CODE

WO.

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
8-12	Ching	700
8-12	Knouse	100
8-13	G.	220
		700
		~~[illegible]~~
		700

AUG 12 1957

Mr. R. J. Noonan
Vice-President and General Manager
Radio Geophysical Company
P. O. Box 406
Blanding, Utah

Re: Docket No. DMEA-4594 (Uranium)
Maybe Claims
San Juan County, Utah

Dear Mr. Noonan:

We have recently received, through our Denver field office, photostatic copies of two letters which were intended to clarify a conflict between the Maybe and Blue Jay claims.

The letter, dated August 3, 1955, from officers of the Bears Ears Uranium Company to Mr. Calvin Black stated: "We will accept $4000.00 and all other conditions as set forth in the claims running 1500' South from the North boundary of Section 15 Township 36 South Range 18 East, Salt Lake Meridian." This letter appears to be an offer to abandon all royalty claims against the area in conflict, provided that certain conditions are met. Since we have no evidence that an agreement was consummated it is requested that you provide us with such evidence.

omission in quote. mc.

In the letter, dated October 24, 1955, from Max K. Mangum to your company, the former stated that there is no reservation of royalty in either of the two quit claim deeds covering the Blue Jay claims. However, it is our understanding that, shortly thereafter, the Bears Ears Uranium Company held a royalty claim of 12.5 percent on production from the Blue Jay claims.

Under the circumstances it is necessary that you either provide this office with evidence that there are no claims or liens against the area in conflict or secure a Consent to Lien and Subordination Agreement (our standard form MF-205) from all holders of such claims or liens.

Sincerely yours,

SIGNED

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

MChing/izm 8-12-57 (8-9-57)
cc to: Mr. Ching
Admr.'s Reading File
THKiilsgaard, 5224
DMEA FT Reg. 3 (2)

8623

224 New Customhouse
Denver 2, Colorado

August 6, 1957

OFFICIAL FILE COPY
DMEA
RECEIVED

DATE		CODE
8/8	P.K.	220
"	~~Chang~~	700

Mr. R. J. Noonan
Radio Geophysical Company
P. O. Box 406
Blanding, Utah

Re: Docket DMEA 4594 (Uranium)
Radio Geophysical Company
(Maybe Claims)
San Juan County, Utah

Dear Mr. Noonan:

Our letter of July 12, 1957, requested that you submit bids from three drilling companies. The material enclosed with your letter, which was received August 5, 1957, contained drilling bids but from two drilling companies. Before your application can be processed further, it will be necessary that we be furnished with a drilling bid from one other drilling company.

Very truly yours,

E. N. HARSHMAN

E. N. Harshman
Acting Executive Officer

MHM:eh
cc: Sec. Op. Comm. (2)
Harshman
DMEA/DFC
Hasler
DMEA/G. Jct.
Docket
Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

224 New Customhouse
Denver 2, Colorado

August 6, 1957

OFFICIAL FILE COPY
DMEA
RECEIVED AUG 8 1957

DATE	INITIALS	CODE
8/8	P.K.	220
"	Chrisy	700

Memorandum

To: Secretary to the Operating Committee, DMEA

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

Subject: Docket DMEA 4594 (Uranium) Radio Geophysical Company (Maybe Claims) San Juan County, Utah

Enclosed as supplemental data to the application included under the subject docket is one copy of each of the following:

1. Letter dated August 3, 1955, from the President, Vice President, and Secretary of Bears Ears Uranium Company to Mr. Calvin Black.
2. Letter dated October 24, 1955, from the President, Ol Jato Uranium Co. to Radio Geophysical Company.
3. Drilling Bid dated July 15, 1957, from Terrell Drilling Company.
4. Drilling Bid dated June 18, 1957, from Blanding Drilling Company.
5. Bid for bulldozer work dated June 18, 1957, from Ken Black.

Items 1 and 2 purportedly clarify the conflict between the Maybe and Blue Jay Claims.

You will note that the Applicant has submitted drilling bids but from two independent drilling contractors. We are today requesting the Applicant to submit a drilling bid from one other drilling company.

E. N. Harshman

E. N. Harshman

DMEA
DEPARTMENT OF THE INTERIOR
AUG 5 - 1957
REGION III
DENVER, COLORADO

BEARS EARS URANIUM COMPANY
MONTICELLO, UTAH
August 3, 1955

TO MR. CALVIN BLACK
BLANDING, UTAH

Dear Mr. Black:

At a meeting of the Bears Ears Uranium Company held in the home of Clynn Young at Monticello, Utah August 3, 1955, the membership arrived at the following decision:

Considering the existing conditions with regards to overlapping claims and other factors. We will accept $24,000.00 and all other conditions as set forth in the contract. No royalty payments will be expected on the overlapping claims running 1500' South from the North boundry of Section 15 Township 36 South Range 18 East, Salt Lake Meridian.

W.R. Young. President.

Clynn P. Young, Vice Pres.

Demar Perkins. Secretary

OFFICIAL FILE COPY
DMEA
RECEIVED AUG 8 1957

DATE	INITIALS	CODE

RIGH, ELTON & MANGUM
ATTORNEYS AT LAW
UTAH OIL BUILDING
SALT LAKE CITY 1, UTAH
TELEPHONE 9-8600

H. ARNOLD RIGH
LEONARD W. ELTON
MAX K. MANGUM

October 24, 1955

Radio Geophysical Company
Blanding, Utah

Attention Mr. Robert M. Oliver

Gentlemen:-

01 Jato Uranium Company now holds quit-claim deeds covering the Blue Jay claims 1 to 30 inclusive. There is no reservation of royalty in either of the two quit-claim deeds covering aforesaid claims. In addition, 01 Jato has possession of a letter addressed to Calvin Black, 01 Jato's predecessor in title, reciting that no royalty payments would be expected on the overlapping claims running 1500 feet south from the north boundary of Section 15, T. 36 South, Range 18 East, S. L. M. A photostat of this letter is attached.

Whatever rights 01 Jato Uranium Company has in and to the area running 1500 feet south from the north boundary of Section 15, T. 36 South, Range 18 East, S. L. M., are intended to, and we believe have been, leased by 01 Jato Uranium Company to Radio Geophysical Company clear of any royalty reservation by the former owners of the Blue Jay Claims. We cannot and do not warrant this proposition.

Sincerely,

Max K. Mangum

President, 01 Jato Uranium Co.

MKM:LB

Terrell
~~Del-Wan~~ Drilling Company
~~2205~~ — PHONES — 2203
BOX 222
Blanding, Utah

July 15, 1957

Mr. R. J. Noonan
Radio Geophysical Company
Blanding, Utah

Dear Sir:

I would like to submit my bid on your proposed Drilling Project to be conducted this summer in the Elk Ridge Area of San Juan County, Utah. The drilling consists of approximately 8800 feet of plug drilling and 1200 feet of core drilling to be done on the Maybe Group of Claims.

My bid for the above Drilling is:

Plugging (air or water) ---------- $1.50 per ft.

Coreing (air or water) ---------- $4.00 per ft.

These prices include a guarantee that all holes will be bottomed to your specifications, and that we will furnish a Radiometric Log of all holes.

OFFICIAL FILE COPY
DMEA
RECEIVED AUG 8 1957

DATE	INITIALS	CODE

Sincerely Yours,

James D. Terrell

James D. Terrell

DMEA
DEPARTMENT OF THE INTERIOR
AUG 5 - 1957
REGION III
DENVER, COLORADO

BLANDING DRILLING COMPANY
Blanding, Utah
June 18, 1957

OFFICIAL FILE COPY
DMEA
RECEIVED AUG 6 1957
DATE | INITIALS | CODE

RADIO GEOPHYSICAL COMPANY
Box 406
Blanding, Utah

Dear Sir:

The Blanding Drilling Company herewith submits a bid for a D.M.E.A. loan drilling program to be done by RADIO GEOPHYSICAL COMPANY in Section 15, Township 36 South, Range 18 East on a group of claims known as the Maybes at the following prices:

1.	Air Plugging	$1.50 per foot
2.	Water plugging	$1.75 per foot
3.	Core drilling	$3.00 per foot

BLANDING DRILLING COMPANY
Blanding, Utah

DMEA
DEPARTMENT OF THE INTERIOR
AUG 5 - 1957
REGION III
DENVER, COLORADO

KEN BLACK BULLDOZER WORK

Blanding, Utah
June 18, 1957

RADIO GEOPHYSICAL COMPANY
Box 406
Blanding, Utah

Dear Sir:

The following bid is submitted on bulldozer work to be done on the Maybe claims of Radio Geophysical Company in Section 15, township 36 South, Range 18 East as follows:

1. Bulldozer work $12.00 per hour

Ken Black
Ken Black
Blanding, Utah

OFFICIAL FILE COPY
DMEA
RECEIVED AUG 6 1957

DATE		CODE

224 New Customhouse
Denver 2, Colorado

July 12, 1957

OFFICIAL FILE COPY
D.M.E.A.
RECEIVED JUL 15 1957

DATE	INITIALS	CODE
7-15	C	220
"	~~Ching~~	700

Mr. R. J. Hooman
Radio Geophysical Company
P. O. Box 406
Blanding, Utah

Re: Docket DMEA-4594 (Uranium)
Radio Geophysical Company
(Maybe claims)
San Juan County, Utah

Dear Mr. Hooman:

Approximately three weeks ago, our Grand Junction office explained to you our need for a copy of the legal instrument that resolved the conflict between the Maybe claims, under lease by your organization, and the Blue Jay claims.

It is requested that you please submit bids from three drilling companies, based on the revised program discussed in Grand Junction on June 24, 1957.

Very truly yours,

Original signed by
W. H. KING

W. H. King
Executive Officer, DMEA
Field Team, Region III

WHK:jy
cc: Sec. Op. Comm. (2)
Harshman
DMEA/DFC
Hasler
DMEA/G. Jct.
Docket 4594
Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

REGION III

Building 20
Denver Federal Center
Denver 2, Colorado

February 5, 1957

Memorandum

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

From: Superintendent, Denver Experiment Station, Reg. III

Subject: Docket No. DMEA 4594 (Uranium) Radio Geophysical Company (Maybe claims) San Juan County, Utah

The application for Radio Geophysical Company, Docket No. DMEA 4594 in the amount of $10,780.00 was received in this office on February 4, 1957.

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

W. H. KING

W. H. King

cc: W. M. Traver (2)
E. N. Harshman
J. W. Hasler
M. H. Salsbury
J. F. Shaw

DMEA
DEPARTMENT OF THE INTERIOR
FEB 6 1957
REGION III
DENVER, COLORADO

2-12 C 220
" ~~claim~~ 700

Sec 2

OFFICIAL FILE COPY
DMEA
RECEIVED FEB 4 1957

DATE	INITIALS	CODE
2/4	C	220
2-4	Chang	700

224 New Customhouse
Denver 2, Colorado

January 31, 1957

Memorandum

To: W. H. King (2) (w/c Appl. Chmn. Letter & Memoranda)
J. W. Hasler (w/c Chmn. Letter & Memoranda)

From: DMEA Field Team, Region III

Subject: Docket No. DMEA-4594 (Uranium) Radio Geophysical Company (Maybe Claims) San Juan County, Utah

Enclosed are a copy of the subject application in the amount of $10,780.00, its transmittal by the Chairman of the Operating Committee to the Executive Officer for field referral and copies of memoranda of review by J. E. Crawford, USBM, and N. E. Nelson, USGS. A field examination and suitable covering Report of Examination are required.

Your attention is directed to the Chairman's instructions regarding the resolution of a possible conflict between the Blue Jay 17, 18 and 19 claims with the Maybe claims. If it becomes apparent a contract will result from the examination, after all three points of the Chairman's letter are clarified, if you will advise this office as much in advance as possible, we will undertake to obtain the Consent to Lien and Subordination Agreement forms.

Please return the Bureau of Mines application with your report of examination.

DMEA Field Team, Region III

Original signed by
W. M. TRAVER

By W. M. Traver
Executive Officer

Enclosures

WMT:eh
cc: Sec. Op. Comm. (2)
Harshman)
Docket 4594) w/c Chmn. Letter & Memoranda
Chron.

AGENCY
RECORDS
DATE | INITIAL | STAG

DMEA Form 7
(12-56)

700

JAN 28 1957

OFFICIAL FILE COPY

Date	Surname	Code
1-25	Ching	700
1-25	Ellis	700
1/28	Selfridge	130
"	Johnson	110
"	Mattaccioy	100
		225

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

28 JAN 1957

Re: Docket No. DMEA-4594 (Uranium)
Radio Geophysical Company
Maybe Claims
San Juan County, Utah

Dear Mr. Traver:

The subject application is being referred to you for a field examination and recommendations.

Copies of memoranda, dated January 18 and 23, 1957, by John P. Crawford, USBM, and N. E. Nelson, USGS, respectively, relating to the application, are enclosed for your information. Also enclosed is a copy of the application for the use of the Field Team.

The memorandum, dated January 8, 1957, from the Grand Junction office, points out a possible conflict between the Blue Jay claims Nos. 17, 18, and 19 and the Maybe claims. Under Docket No. DMEA-4120, a proposed contract, (subsequently withdrawn), included all the Blue Jay claims, in whole or in part, which lie south of a line running east and west, which line is 1,500 feet south of the north boundary line of section 15. This line corresponds to the southern boundary of the Maybe claims. When the application under Docket No. DMEA-4120 was made all the Blue Jay claims, including the parts in conflict with the Maybe claims, were owned by Ol Jato Uranium Company. However, the partners of the Bears Ears Uranium Company and their wives (14 persons) hold a royalty claim of 12.5 percent on production from the Blue Jay claims, and Ol Jato Uranium Company was unable to secure a Subordination Agreement from them.

If a contract is recommended by the examiners the following points should be determined:

1. Whether or not the area of conflict north of the above-described east-west line is now an established part of the Maybe claims.

C.

8623

2. Whether or not the partners of the Bears Ears Uranium Company and their wives still retain a royalty claim against the area in conflict; and

3. If the answer to point 2 is in the affirmative, will the partners and their wives sign a Consent to Lien and Subordination Agreement form.

It is noted that under the Lease Agreement the Ol Jato Uranium Company agrees to sign a Consent to Lien and Subordination Agreement form covering all the Maybe claims if a project is approved.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (GCS)

Enclosures

APPROVED:

Frank D. Lamb (GCS)

Member, Bureau of Mines

N. E. Nelson (GCS)

Member, Geological Survey

MChing/izm 1p25-57
cc to: Code 700
Mr. Ching
Admr.'s Reading File
Operating Committee
Messrs. JECrawford, 3643
THKiilsgaard, 5224
JKratchman, AEC

DMEA Form 7
(12-56)

700

OFFICIAL FILE COPY

Date	Surname	Code
1-25	Ching	700
1-25	Ellis	700
1/28	Selfridge	130
"	Johnson	110
"	Mittendorf	100
1-29	cw	220

700

Mr. R. J. Noonan, Vice-President and
General Manager
Radio Geophysical Company
P. O. Box 406
Blanding, Utah

Re: Docket No. DMEA-4594 (Uranium)
Maybe Claims
San Juan County, Utah

Nelson
Lamb

Dear Mr. Noonan:

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 for a field examination 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 at the earliest opportunity in regard to your project.

Sincerely yours,

C. O. Mittendorf (for)

Administrator

MChing/izm 1-25-57
cc to: ~~xxxxxxx~~
Code 700
Mr. Ching
Admr.'s Reading File
DMEA FT Reg. 3 (2)

C.

86 23

IN REPLY REFER TO:

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

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 24 1957

DATE	INITIALS	CODE
1-24	C	220
1-24	~~Eblis~~	700
	Ching	700

complete

January 23, 1957

Re: DMEA 4594
Radio Geophysical Co.
Maybe Claims
San Juan County, Utah
$10,780.00 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 drilling claims in which a Shinarump-Moenkopi channel is inferred judging by results of 3 widely separated drill holes. Each of the holes, as interpreted from gamma ray logs, showed ore grade material as:

Hole #	Depth	Grade % U_3O_8
M-1	196-197	0.62
M-4	241-245	0.10 plus
	244-245	0.98
M-5	261-265	0.15

The map of the application does not agree with the text insofar as the offset drilling of Hole #M-4 is concerned. I recommend that the offset holes, if approved, be drilled before the fence holes.

The reviewers conclude that an examination is warranted. I concur and recommend that the application be referred to the Field Team.

N. E. Nelson

N. E. Nelson

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 18 1957

DATE	INITIALS	CODE
1-18	C	220
1-18	Ellis	700

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

Date January 18, 1957

DMEA Docket No. 4594
DMEA Contract No.
Commodity Uranium
Name of applicant Radio Geophysical Company
Name of property Maybe Claims
Location of property San Juan County, Utah
Estimated cost of project $10,780.00

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: 1/11/57. 2. Date received by reviewer: 1/14/57.

3. Prior reports on this property known to reviewer: Yes [ ] No [x]

4. Prior reports on nearby properties known to reviewer: Yes [x] No [ ]

5. Information available on past production: Yes [ ] No [x]

6. Other pertinent factors known to reviewer: Yes [ ] No [x]

7. Explain items marked yes above:

Docket No. DMEA 3772, Bears Ears Uranium Co.

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 ~~examiner~~ examination [x]
- h. Approval [ ]
- i. Consult with Mr. _____ at _____ AEC office.

10. Remarks: (Use back of page if necessary) Mr. Jack Kratchman, 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.

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 14 1957

DATE	INITIALS	CODE
1-14	Ellis	700

224 New Customhouse
Denver 2, Colorado

January 11, 1957

Memorandum

To: Secretary to the Operating Committee

From: DMEA Field Team, Region III

Subject: Docket DMEA 4594 (Uranium) Radio Geophysical Company (Maybe Claims) San Juan County, Utah

Enclosed are the original and three copies of a joint review of the subject application by members of the Grand Junction Office, DMEA.

The reviewers recommend that, because the Applicant's property is located in an area considered favorable for uranium deposits, a field examination be made. We concur in this recommendation.

DMEA Field Team, Region III

E. N. Harshman

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

[illegible]

DENVER, CO

MINERAL DEPOSITS
IN REPLY REFER TO:
DMEA
RECEIVED
JAN 9 1957
U. S.
GEOLOGICAL SURVEY,
DENVER, COLORADO

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
P. O. Box 360
Grand Junction, Colorado

DMEA
DEPARTMENT OF THE INTERIOR
JAN 10 1957
REGION III
DENVER, COLORADO

January 8, 1957

OFFICIAL FILE COPY
DMEA
RECEIVED JAN 14 1957

DATE	INITIALS	CODE

Memorandum

To: Executive Officer, DMEA Field Team, Region III

Through: J. William Hasley
E. N. Harshman
J. F. Shaw

From: William B. Gazdik
M. H. Salsbury

Subject: Recommendation for Field Examination
DMEA docket 4594 (Uranium),
Radio Geophysical Company (Maybe claims), San Juan County, Utah

The Radio Geophysical Company has applied for DMEA assistance on the Maybe claims, located in the Elk Ridge area in Section 15, T. 36 S., R. 18 E., San Juan County, Utah. The applicant's proposed project consists of 4,410 feet of non-core drilling and 360 feet of core drilling in 18 holes averaging 265 feet deep, with a total estimated cost of $10,780.00.

The Maybe claims are located near the center of a favorable belt that trends northeasterly across Deer Flat and Elk Ridge. Significant uranium deposits within this belt are found in the basal Shinarump member of the Triassic Chinle formation. The ore deposits are localized in Shinarump-filled channels scoured into the top of the underlying Moenkopi formation. Several productive uranium properties including the Oakie and Sandy mines are located within $1\frac{1}{2}$ miles of the applicant's claims. Combined production from these two properties totals over 10,000 tons of ore averaging 0.22 percent U_3O_8 according to Atomic Energy Commission production records.

The applicant drilled one hole on each of the eleven claims for claim validation purposes. Three of the holes reportedly penetrated ore bearing material according to radiometric logs. On the basis of two of the drill holes, the applicant implied that a channel may be present on the north end of the property. Such an inference, based on only two holes, can hardly be considered valid. In this area small subsidiary folds on the west flank of the monument upwarp may be mistaken for channels when interpretations are based on insufficient drill hole data.

The Maybe group of claims adjoins on the north the Blue Jay group of claims which were examined in May 1955 in connection with an application for Government assistance under Docket No. DMEA 3772 (Uranium), Bears Ears Uranium Company. Drilling behind mineralization exposed in a rim outcrop was proposed by the applicant and recommended by the examining team. Before a DMEA contract could be processed, the property was acquired by Ol Jato Uranium Company, and a new docket number, DMEA 4120, assigned. The application was allowed to lapse when the Ol Jato Uranium Company failed to furnish certain consents to lien.

The Maybe Nos. 1, 2, 3 and 4 claims conflict in part with the Ol Jato Blue Jay Nos. 13, 14, 15, and 16, according to the applicant's map, but it is stated that title has been quieted in favor of the Maybe claims. Three other Blue Jay claims, Nos. 17, 18, and 19 are shown on figure 4 of the report of examination on Docket No. DMEA 3772 which would also conflict with the Maybe claims. This conflict would have to be resolved.

was owner of both Groups me.

The Grand Junction DMEA office is not informed on the status of exploration which may have been done on the Blue Jay claims subsequent to the DMEA examination in 1955. The results of any such work would, of course, have a bearing on the present application.

The applicant's cost estimate appears to be reasonable, but is not supported by drilling bids.

It is recommended that a field examination be made because the applicant's property is located in an area considered favorable for uranium deposits and a limited amount of drilling has disclosed the presence of ore-grade material on the claims.

W. B. Gazdik

W. B. Gazdik,
Geological Survey

M. H. Salsbury

M. H. Salsbury,
Bureau of Mines

WBG;MHS/mlr

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

January 4, 1957

Radio Geophysical Co.
Transit Tower
San Antonio, Texas

Subject: DMEA-4594

Gentlemen

Your application for exploration assistance, dated December 15, 1956 submitted to our office at Denver, has been assigned Docket Number DMEA-4594 and referred to the Rare and Miscellaneous Metals Division in the Washington office. Kindly identify all future correspondence relating to your application by this Docket Number.

Sincerely yours,

(Sgd) Allen S. Dakan

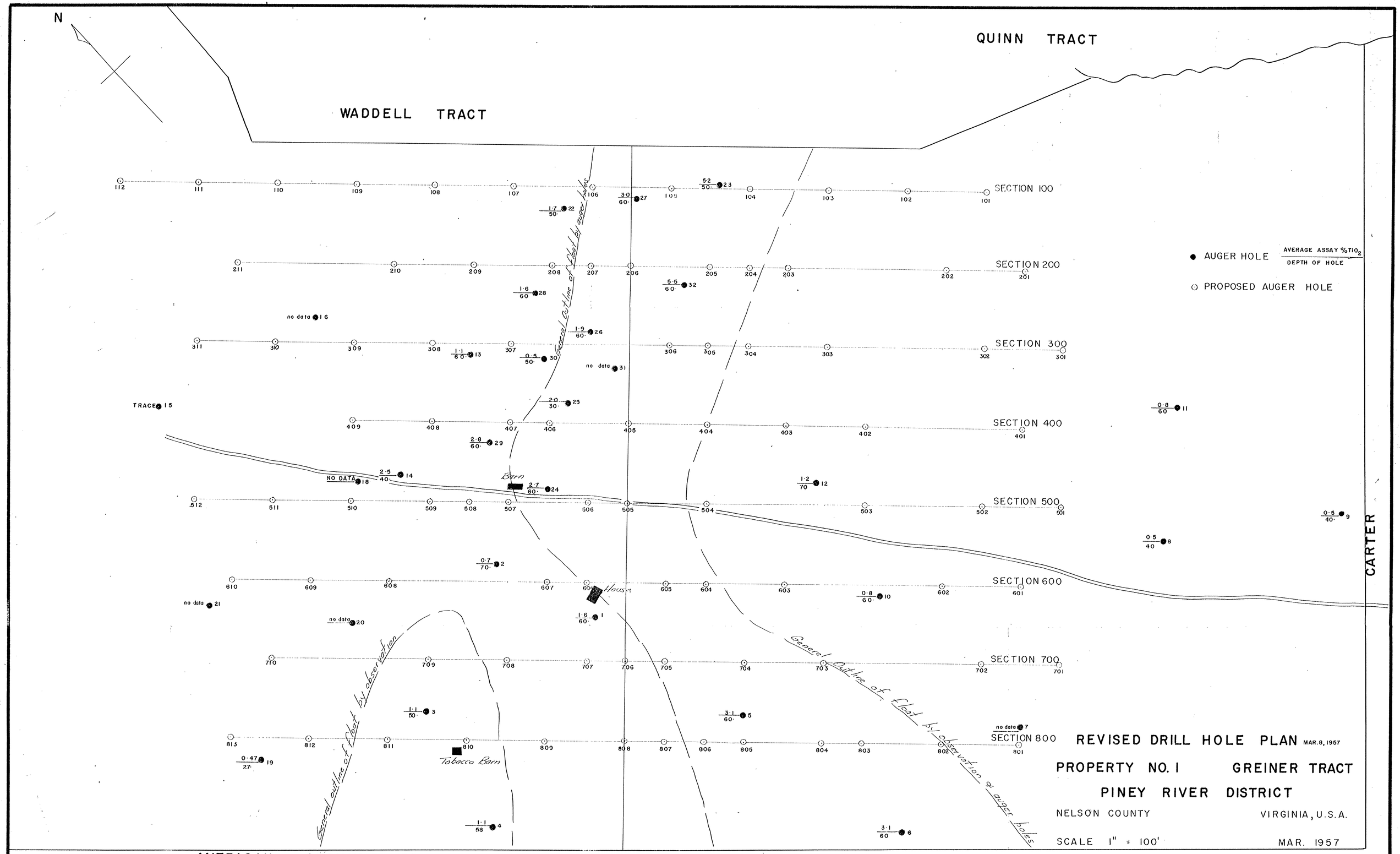
Allen S. Dakan, Director
Operations Control and
Statistics Division

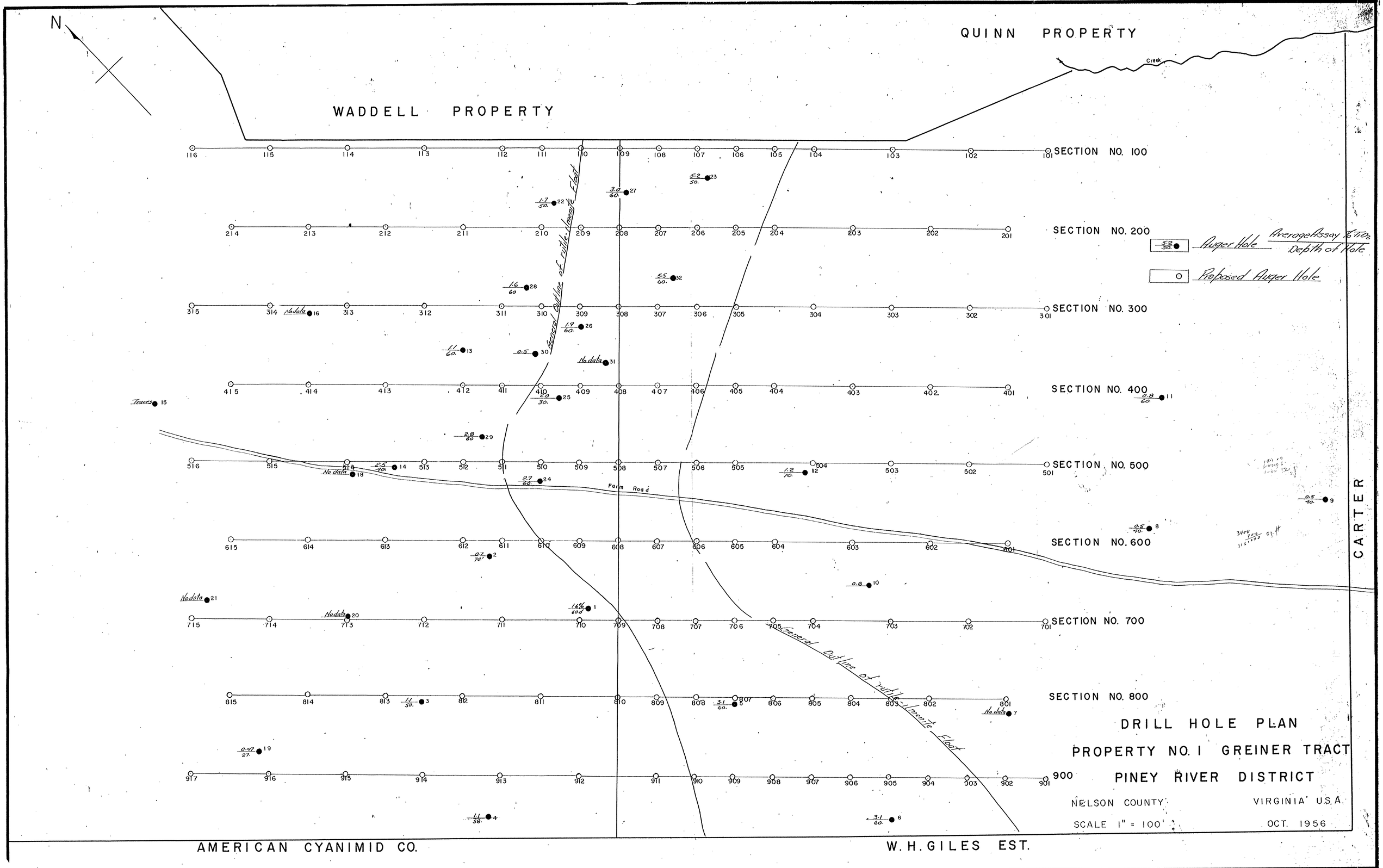
Copy to:

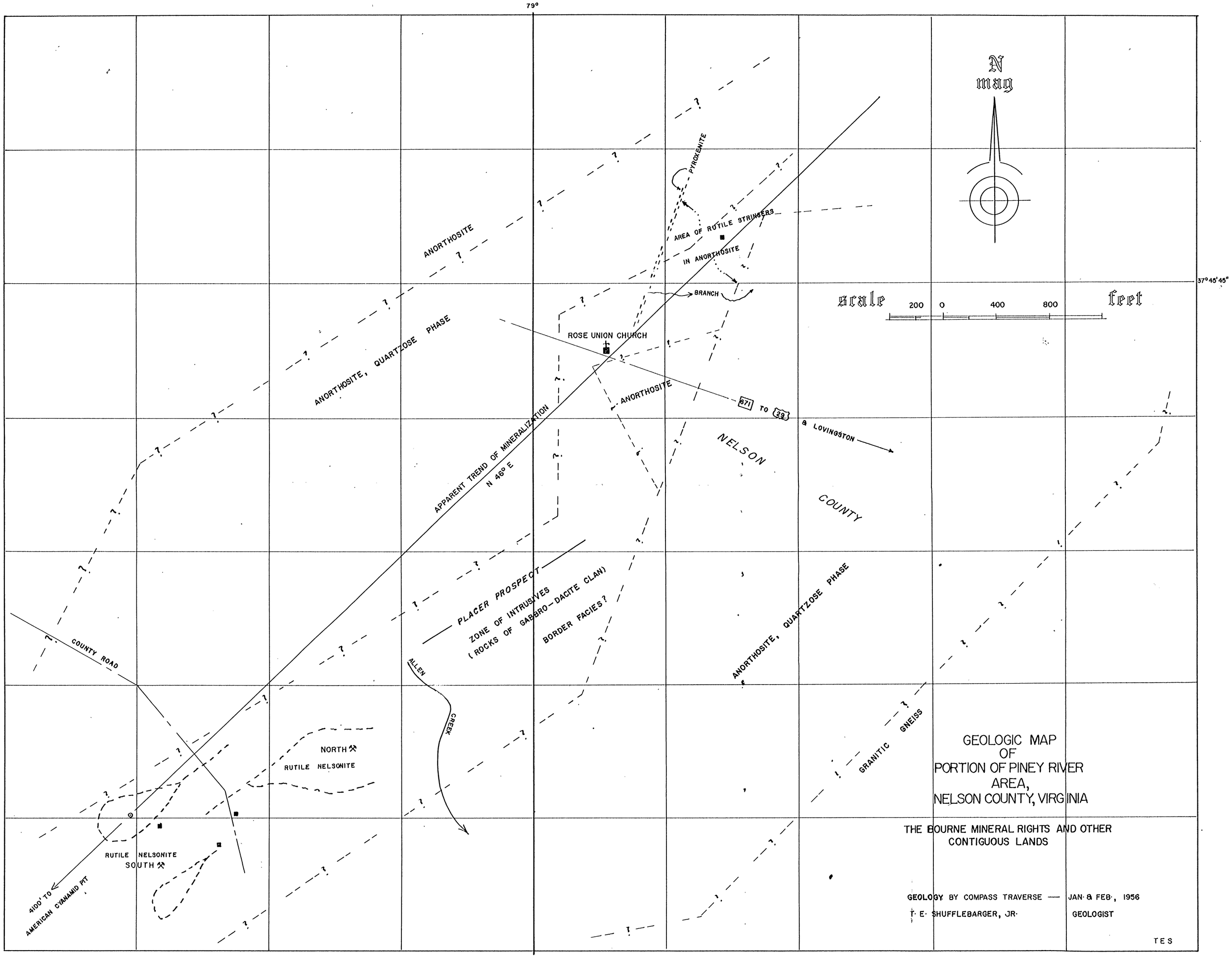
Region III. Denver, Colorado

Code 700

6416


N
QUINN TRACT
WADDELL TRACT
CARTER
SECTION 100
SECTION 200
SECTION 300
SECTION 400
SECTION 500
SECTION 600
SECTION 700
SECTION 800
AUGER HOLE
AVERAGE ASSAY %TiO2
DEPTH OF HOLE
PROPOSED AUGER HOLE
General outline of float by auger holes
General outline of float by observation
General outline of float by observation & auger holes
Barn
House
Tobacco Barn
NO DATA
no data
TRACE
REVISED DRILL HOLE PLAN MAR. 8, 1957
PROPERTY NO. 1 GREINER TRACT
PINEY RIVER DISTRICT
NELSON COUNTY VIRGINIA, U.S.A.
SCALE 1" = 100' MAR. 1957
AMERICAN CYANIMID CO.
W. H. GILES EST.


N
QUINN PROPERTY
Creek
WADDELL PROPERTY
SECTION NO. 100
SECTION NO. 200
SECTION NO. 300
SECTION NO. 400
SECTION NO. 500
SECTION NO. 600
SECTION NO. 700
SECTION NO. 800
900
Farm Road
General Outline of rutile-ilmenite Float
Auger Hole
Average Assay % TiO2
Depth of Hole
Proposed Auger Hole
CARTER
DRILL HOLE PLAN
PROPERTY NO. 1 GREINER TRACT
PINEY RIVER DISTRICT
NELSON COUNTY
VIRGINIA U.S.A.
SCALE 1" = 100'
OCT. 1956
AMERICAN CYANIMID CO.
W. H. GILES EST.


79°
37°45'45"
N
mag
scale
200
0
400
800
feet
PYROXENITE
AREA OF RUTILE STRINGERS
IN ANORTHOSITE
BRANCH
ANORTHOSITE
ANORTHOSITE, QUARTZOSE PHASE
ROSE UNION CHURCH
ANORTHOSITE
871 TO 29
@ LOVINGSTON
NELSON
COUNTY
APPARENT TREND OF MINERALIZATION
N 45° E
PLACER PROSPECT
ZONE OF INTRUSIVES
(ROCKS OF GABBRO-DACITE CLAN)
BORDER FACIES?
ANORTHOSITE, QUARTZOSE PHASE
COUNTY ROAD
ALLEN
CREEK
GRANITIC GNEISS
NORTH
RUTILE NELSONITE
RUTILE NELSONITE
SOUTH
4100' TO
AMERICAN CYANAMID PIT
GEOLOGIC MAP
OF
PORTION OF PINEY RIVER
AREA,
NELSON COUNTY, VIRGINIA
THE BOURNE MINERAL RIGHTS AND OTHER
CONTIGUOUS LANDS
GEOLOGY BY COMPASS TRAVERSE — JAN. & FEB., 1956
T. E. SHUFFLEBARGER, JR. GEOLOGIST
TES