DMPA 3678

DOCKET INDEX

ACTION DOCUMENTS

1. APPLICATION — DATE RECEIVED 2-9-55

2. CONTRACT — DATE 8-11-55

3. TERMINATION AGREEMENT: — DATE 2-1-57

   a. Mutual (with/without repayment provision).
   b. Unilateral.
   c. Amendment with automatic termination clause and with/without repayment provision.

4. CERTIFICATION — DATE

5. AUDIT REPORT — DATE

6. AMENDMENTS - NUMBERS 1 — DATE 12-16-55

Government's copy

OFFICIAL FILE COPY
D M E A
RECEIVED FEB 15 1957
DATE | INITIALS | CODE
2-15 C 225

TERMINATION AGREEMENT

It is agreed this 1st day of February, 1957, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and Kenneth J. ~~Revis and H. L.~~ Revis, partners, hereinafter called the "Operator," parties to Exploration Project Contract Idm-E854, Docket No. DMEA-3678, dated August 11, 1955, as amended, hereinafter called the "Contract," that:

1. Effective as of the close of business on July 23, 1956, the Contract and all obligations of the parties thereunder, except as otherwise herein expressly provided, shall be and are hereby terminated.

2. The Government shall contribute only to the costs of work performed prior to said effective date.

3. The Operator shall promptly perform all winding-up and settlement actions provided for in the Contract.

4. All rights of the Government provided for in the Contract with respect to certification of discovery or development, percentage royalty and liens for its payment, records, audit, and recovery of any overpayment, are preserved.

5. The Operator hereby releases and agrees to save the Government harmless from all claims or demands under or arising out of said Contract, except as otherwise provided in this termination agreement.

IN WITNESS WHEREOF, these parties have executed this agreement as of the day and year first above written.

THE UNITED STATES OF AMERICA

By O O Mittendorf
Administrator, Defense Minerals
Exploration Administration

Kenneth J. Revis
Kenneth J. Revis, partner

H L Revis
H. L. Revis, partner

Indentg 1/30/57
Arnyon
Chung
Ellis
Talbot
Selbridge
Johnson

Butin
Lampe
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EXPLORATION PROJECT CONTRACT
KENNETH J. REVIS AND H. L. REVIS, PARTNERS
DOCKET NO. DMRA 3678
CONTRACT NO. IDM-E 894

AMENDMENT NO. 1

It is agreed this 16th day of December, 1955, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government", and Kenneth J. Revis and H. L. Revis, Partners, hereinafter called the "Operator," parties to that certain Exploration Project Contract No. IDM-894, Docket No. DMRA 3678, dated August 11, 1955, hereinafter called the "Contract," that:

1. (a) Work under the Contract shall be suspended during the period beginning November 19, 1955, and ending not later than May 1, 1956.

(b) No costs incurred by the Operator during the period of suspension shall be allowable for contribution by the Government, and the Government shall not contribute to any costs of rehabilitation or repair which, in its opinion, would not have occurred if there had been no suspension of the work.

(c) The Operator may at his own cost and expense, without contribution by the Government, during the period of suspension shall preserve and protect the project work and any property in which the Government has an interest.

2. The time fixed for completion of the work is extended to October 31, 1956.

3. The period for the payment of royalties fixed by Article 7(b)(2) of the Contract as ten (10) years is extended to eleven (11) years.

This amendment shall not be construed to increase the estimated total cost of the project, the aggregate total amount which the Government may be required to contribute, nor the fixed or agreed unit cost of any item of work.

Executed in sextuplet the day and year first above written.

UNITED STATES OF AMERICA

By W. M. Traver

W. M. Traver
Executive Officer, DMRA
Field Team, Region III

OPERATOR

By Kenneth J. Revis
Kenneth J. Revis, Partner

By H. L. Revis
H. L. Revis, Partner

COPY

REGION III

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Building 20
Denver Federal Center
Denver 2, Colorado
December 15, 1955

Memorandum

To: Executive Officer, DMEA Field Team, Region III

From: John F. Shaw

Subject: Request for recess to Contract Idm-E854,
Revis and Revis, Spring claim group,
Larimer County, Colorado

Enclosed are the original and 5 copies of a letter dated December 9, 1955, from Revis and Revis requesting permission to recess operations under Contract Idm-E854.

It is impossible to operate efficiently under this contract during the severe winter weather. Therefore, it is recommended that the request be granted.

/s/ John F. Shaw

John F. Shaw
Supervising Mining Engineer

Enclosures

JFS:ph

Rocky Mountain
Uranium (Colorado)
Contract [illegible]

Department Energy,
Denver, Colorado
December 9, 1976.

Mr. [illegible]
U. S. Bureau of Mines,
Room 197, Building 53,
Denver Federal Center,
Denver 2, Colorado.

Dear Sir:

We regret that permission to cease our work in Area One in Montrose and Ouray counties expired in the Grantsville Report. Our permit ended on [illegible] 9, 1976. We will be [illegible] May 1, 1976, before we will start to work on.

We regret May 1, 1976, is the earliest date we can resume 12, 1976, for exploration. We will be [illegible] operation [illegible]. We will also be [illegible] the [illegible] of [illegible].

Yours truly,

Kenneth L. Davis H. L. Davis

Kenneth L. Davis

Rock and Roll
[illegible]-2670 (Operation)
Contract [illegible]
December 9, 1963

Dear Sir (Madam):

December 10, was the last day we were able to work in the shaft. We have dug four more feet since the cavity opened. The rubble and broken ore closes the area on the last report. The cave of the mine is 30 inches deep. But the mine being on the north side of the mountain, it never gets above freezing. Due to this our water pump freezes in just a minute or two. We delayed this report for three weeks hoping for a possible break in the weather. The weather conditions are worse.

Kenneth L. Revis H L Revis
Kenneth L. Revis H. L. Revis

COPY

REGION III

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DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

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/s/ John F. Shaw

John F. Shaw
Supervising Mining Engineer

Enclosures

JFS:ph

[illegible]

[illegible]

[illegible]
[illegible], Colorado.

Dear Sir:

We request your permission to suspend one of the [illegible] due to [illegible] and other conditions reported on the Inspection Report, [illegible] 24, 1956. [illegible] will be [illegible] 1, 1956, before we will [illegible].

We request [illegible] 1, 1956, as the starting date and [illegible] 31, 1956, for completion. The [illegible] operations [illegible]. It will take [illegible] to complete the project.

Yours truly,

Kenneth J. Bevis H L Bevis

[illegible]

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

December 10, was the last day we were able to work in the shaft. We have dug four feet since the October report. The values and leakages are almost the same as the last report. The snow at the mine is 30 inches deep. Due to the mine being on the north side of the mountain, it never gets above freezing. Due to this our water pump freezes in just a minute or two. We delayed this report for three weeks hoping for a possible break in the weather. The weather conditions are worse.

[illegible]

Docket Copy

RECEIVED

SEP - 9 1955

MF-200A
(Revised June 1954)

Docket No. DMEA-2070

Commodity Uranium

Contract No. Idm-E 854

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
EXPLORATION PROJECT CONTRACT[1]
(Short Form)

It is agreed this AUG 11 1955 day of ....., 195...., between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and [2] Kenneth J. Revis and B. L. Revis, partners,

whose mailing address is Jamestown Star Route
Boulder, Colorado,

hereinafter called the "Operator," as follows:

ARTICLE 1. *This contract* is entered into under the authority of the Defense Production Act of 1950, as amended. It consists of this form (MF-200A), the attached Exhibit "A," Annex I, and two maps, Figures 2 and 3.

The Operator shall not transfer or assign this contract or any right thereunder without the written consent of the Government.

ARTICLE 2. *Operator's property rights.*—(a) The land which is the subject of this contract (hereinafter called "the land") is in the State of Colorado, County of Gardner, and is described in Annex I.[3]

(b) The Operator represents and undertakes that:

(1) The Operator is the [4] lessee of [5] the mineral rights in the land, in possession and entitled to possession for all of the purposes of this contract, under and by virtue of a [6] lease, [7] ....recorded in Book ....., page ....., official records of said County; and

(2) The Operator's right, title, or interest (whether as owner, lessee, or otherwise) is subject only to the following claims, liens, or encumbrances: none

(c) The Subordination Agreement of the holder of any claim, lien, or encumbrance listed above, and (if the Operator does not hold the legal title) the Consent to Lien of any holder of the legal title of the land (lessor, seller, optionor, etc.), are attached, as follows: Consent to Lien of lessors.

[1] If sufficient space is not provided in any blank, use an extra sheet of paper and refer to it in the blank.
[2] Insert name, and if an organization, its nature (corporation and place of incorporation, partnership with names of partners, etc.).
[3] State on a separate sheet marked "Annex I" the legal description or enough to identify the property, particularly excluding any areas from which the production is not to be subject to the Government's percentage royalty.
[4] Insert "owner," "lessee," "contract purchaser," "locator," etc.
[5] Insert "the entire interest," "the mineral rights," "an undivided one-third," etc.
[6] Insert "deed," "lease," "contract," "location notice," "patent," etc.
[7] If not recorded, so indicate by inserting "un."

(d) The Operator shall preserve and maintain his right, title, and interest in the land and his right to the possession thereof for the purposes of this contract, and shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of this contract. Until the lapse of the time within which the Government may make a certification of discovery or development without any such certification having been made, and after any such certification has been made, the Operator shall neither transfer, convey, nor surrender the land nor any right, title, or interest therein, nor permit nor suffer any claim, lien, or encumbrance thereon, without expressly referring to and providing in the instrument of conveyance, lien, or encumbrance for the preservation of the Government's right to a percentage royalty on production and lien for the payment thereof. If the Government makes no certification of discovery or development within the time limited in Article 7, it shall thereafter have no claim against the land or any production therefrom except for any production referred to in Article 7(b)(1).

ARTICLE 3. *The exploration project.*—The project is a search for indicated or undeveloped deposits of uranium. The work to be performed is described in Exhibit "A." The Operator on or before September 15, 1955 shall commence the work, and on or before March 31, 1956 (unless the Operator's obligation to complete the work is terminated—see Article 8) shall complete the work.

ARTICLE 4. *Performance of the work.*—(a) *Operator's responsibility.*—The work shall be performed with reasonable diligence, efficiently, expertly, in a workmanlike manner, in accordance with good mining standards and State regulations for health and safety and for liability insurance covering employment; and with suitable and adequate equipment, facilities, materials, supplies, and labor, to bring it to completion within the time fixed.

(b) *Government may inspect.*—The Operator shall consult with and inform the Government on all phases of the work as it progresses. The Government may enter at all reasonable times to inspect the work under the contract, and also after a certification of discovery or development to inspect production operations and underground workings. The operator shall provide the Government with all reasonable means of access for such inspections.

ARTICLE 5. *Contribution by the Government.*—A fixed cost for each unit of work to be performed (per foot of drifting, per foot of drilling, per hour of operations, etc.) is hereby agreed upon, and is set forth in Exhibit "A" in connection with the estimated total cost of the project in the sum of $11,800.00 The Government will contribute 75 percent of the fixed unit costs as work is performed, in a total sum not in excess of $9,850.00: *Provided,* That until the Operator has rendered to the Government his final report, and any final auditing required by the Government has been made, and a final settlement of the contract has been made, the Government may withhold from the last voucher or vouchers such sums as it sees fit not in excess of 10 percent of the estimated total cost of the work. The Government will make its contribution on the basis of the monthly vouchers referred to in Article 6(b), but all payments by the Government are provisional only, subject to audit, until the account between the Operator and the Government is finally audited and settled. To the extent that excesses over fixed unit costs or any excess over the estimated total cost may be necessary for the performance of the work, the Operator shall incur and pay such excesses for his own account without contribution by the Government. The Government may make payments directly to independent contractors and suppliers for the account of the Operator rather than to the Operator.

ARTICLE 6. *Reports, accounts, audits.*—(a) *Operator's records.*—The Operator shall keep suitable records and accounts of the units of work performed and of any production in which the Government may have an interest; and shall preserve those with respect to work performed for at least three years after final payment by the Government, and those with respect to production for at least three years after any obligation to pay royalties to the Government has terminated. The Government may inspect and audit said records and accounts at any time, either by itself or by a certified public accountant. The Comptroller General of the United States or his representative, until the expiration of said three-year periods, shall have access to and the right to examine any pertinent books, documents, papers, and records of the Operator. All of the Operator's vouchers and records and accounts relating thereto and the Government's payments thereof remain subject to adjustment until final audit by the Government.

(b) *Progress reports and vouchers.*—The Operator shall provide the Government with five copies of monthly progress reports in three sections as follows: (1) Operator's Monthly Report and Voucher showing a detailed statement of units of work performed during the reporting period; (2) Operator's Unit Cost and Progress Report showing the various types of work performed during the reporting period and the fixed unit costs incurred for each type of work; and (3) a Narrative Report of the work

performed during the reporting period including adequate engineering-geological maps or sketches, drill hole logs and locations, and assay reports on samples taken concurrently with advance in mineralized ground. (Forms for reporting under (1) and (2) above will be provided by the Government.)

(c) *Final report.*—Upon completion of the work or termination of the Government's obligation to contribute to costs, the Operator shall furnish the Government with five copies of a final report (in addition to the final progress report and voucher). This final report shall include a geological and engineering evaluation of the results of the work performed under the contract with an estimate of the ore reserves resulting from such work, complete assay data, adequate geological and engineering maps or sketches, and a summary of the work performed and the unit costs thereof.

(d) *Report of sales.*—The Operator shall provide the Government with suitable accounting and documentary evidence covering all production to which the Government's percentage royalty relates, such as copies of smelter or concentrator settlement sheets, and certified accounts of production and sale or other disposition of production.

(e) *Compliance with requirements.*—If in the opinion of the Government any of the Operator's reports, records, or accounts are insufficient or incomplete, or if the Operator fails to make them, the Government may procure the making or completion of such with suitable attachments as an expense of the work to which the Operator shall contribute. The Government may withhold approval and payment of any vouchers relating to insufficient or incomplete reports, records or accounts.

ARTICLE 7. *Repayment by Operator.*—(a) *Certification.*—If the Government considers that a discovery or development from which production may be made has resulted from the work, the Government, at any time not later than six months after a sufficient final report and final account (see Article 6) has been rendered, may so certify in writing to the Operator. Such certification shall describe broadly or indicate the nature of the discovery or development.

(b) *Royalty on production.*—The Operator, as principal if the Operator is the producer, or as surety if the Operator is not the producer, shall pay to the Government a royalty on all minerals mined or produced from the land, as follows: (1) regardless of any certification of discovery or development, from the date of the contract until the lapse of the time within which the Government may make such certification, or until the total net amount contributed by the Government without interest is fully repaid, whichever occurs first; or (2) if the Government makes a certification of discovery or development, within a period of ten years from the date of the contract, or until the total net amount contributed by the Government without interest is fully repaid, whichever occurs first.

(c) *Basis for computation.*—The Government's royalty shall be a percentage of the gross proceeds (including any bonuses, premiums, allowances, or other benefits) from the production sold, in the form sold (ore, concentrates, metal, or equivalent), at the point of delivery (the f. o. b. point); *except,* that charges of *the buyer* arising in the regular course of business, and shown as deductions on the buyer's settlement sheets, on account of the cost of treatment processes performed by *the buyer,* sampling and assaying to determine the value of the production sold, and freight paid by *the buyer* to a carrier (not the Operator), shall be allowed as deductions in arriving at the "gross proceeds" as that term is used herein. Any costs of treatment processes, sampling or assaying, or transportation, performed or paid by the Operator or by anyone other than the buyer, are not deductible in arriving at the "gross proceeds" as that term is here used. The term "treatment processes," as here used, means those processes (such as milling, concentrating, smelting, refining, or equivalent) applied to the crude ore or other production after it is extracted from the ground, to put it into a commercially marketable form; excluding fabricating or manufacturing.

(d) *Unsold production.*—If any production (ore, concentrates, metal, or equivalent), after the lapse of six months from the date the ore was extracted from the ground, remains neither sold nor used by the Operator in integrated manufacturing or fabricating operations (for instance, if it is stockpiled), the Government, at its option, as long as it so remains, may require the computation and payment of its royalty on the value of such production in the form (ore, concentrates, metal, or equivalent) it is in when the Government elects to require computation and payment. If any production is used by the Operator in integrated manufacturing or fabricating operations before the Government makes its election, the Government's royalty on such production shall be computed on the value thereof in the form in which and at the time when it is so used. "Value" as here used means what is or would be gross income from mining operations for percentage depletion purposes in Federal income tax determination, or the market value, whichever is greater.

(e) *Percentages of royalty.*—The percentages of the Government's royalty shall be as follows:

One and one-half (1½) percent of amounts ("gross proceeds" or "value") not in excess of eight dollars ($8.00) per ton of production in the form in which sold, held, or used, plus one-half (½) percent for each additional full fifty cents ($0.50) by which such amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) percent of such amounts.

(For instance: the royalty on an amount of five dollars ($5.00) per ton would be one and one-half (1½) percent; on an amount of ten dollars ($10.00) per ton, three and one-half (3½) percent.)

(f) *Time for computation and payment.*—The Government's royalty shall be computed and paid currently upon each lot sold, held, or used in integrated operations, as the case may be, as above provided in this article.

(g) *Lien for payment.*—To secure the payment of its percentage royalty, there is hereby granted to the Government a lien upon the land or the Operator's interest in the land and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

(h) *Notice to purchasers.*—The Operator shall give notice of the Government's claim for royalty to any purchaser of the production, and shall authorize and direct such purchaser to pay the royalty directly to the Government and to furnish the Government with copies of the settlement sheets. If the records of any production and sales or other disposition of production, whether the production is by the Operator or by others, are not made available to the Government, the amount of the royalty may be estimated by the Administrator, Defense Minerals Exploration Administration, or his successor, and his estimate thereof shall be final and binding upon the Operator.

(i) *No obligation to produce.*—Nothing in this contract is to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any production operations.

(j) *Government not obligated to buy.*—Nothing in this contract shall be construed as imposing any obligation on the Government to purchase any minerals mined or produced from the land.

ARTICLE 8. *Termination of the Government's obligations.*—(a) If in the opinion of the Government operations at any time have failed to achieve anticipated results that indicate the probability of making a worthwhile discovery, and in the opinion of the Government further operations are not justified, the Government may give the Operator written notice thereof, and thereupon the Government shall be free of all obligation to pay on account of units of work not then performed, and the Operator shall be free of all further obligation to prosecute the work other than such as may be necessary and incidental to winding up, reporting, and accounting.

(b) If in the opinion of the Government the Operator is in any manner in default under the terms of the contract, the Government may give the Operator written notice of such default with a specification of reasonable time within which the default must be cured; and if the Operator fails to cure such default as required, thereupon the Government shall be relieved of all obligation to pay on account of units of work not performed when the notice was given, and the Operator shall be free of all obligation to prosecute the work other than such as may be necessary and incidental to winding up, reporting, and accounting. The remedy provided for the Government in this paragraph "(b)" is in addition to any other remedy provided in this contract, and in addition to any other remedy the law may provide for breach of contract.

(c) The giving of any notice by the Government under the provisions of this Article 8 shall not affect the Government's rights as provided for in the contract with respect to a percentage royalty, and such rights shall be fully preserved.

ARTICLE 9. *Notices to be given by the Government* may be delivered to the Operator, or may be sent by registered mail addressed to the Operator at his mailing address stated in this contract. If mailed, notices are deemed to have been delivered five days after the date of mailing.

ARTICLE 10. *Officials not to benefit.*—No member of or delegate to Congress or resident commissioner shall be admitted to any share or part of this contract or to any benefit that may arise therefrom; but this provision shall not be construed to extend to this contract if made with a corporation for its general benefit.

ARTICLE 11. *Changes and added provisions.*—

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

KENNETH J. REVIS & H. L. REVIS
(Operator)

By O. Mitchendorf

Administrator, Defense Minerals Exploration Administration

Rubin
Hoffman
"Appd. Sol. Off."

By Kenneth J. Revis

H L Revis

Ching
Ellis
Fulbert
Martin
Crosby
Hopkins

I, ..., certify that I am the ..... secretary of the corporation named as Operator herein; that ..... who signed this contract on behalf of the Operator, was then ..... of said corporation; that said contract was duly signed for and in behalf of said corporation by authority of its governing body, and is within the scope of its corporate powers.

.....

[CORPORATE SEAL]

U. S. GOVERNMENT PRINTING OFFICE 16—70618-1

EXPLORATION PROJECT CONTRACT
REVIS and REVIS
DOCKET NO. DMEA-3678

ANNEX I

The land referred to in Article 2 of the contract consists of three unpatented lode mining claims: Lady Cora Helen, Spring No. 1, and Spring No. 2, situated in Sections 10, 11, 14 and 15, T. 8 N., R. 75 W., 6th P. M., Larimer County, Colorado. The location certificates are recorded in the office of the County Clerk in Book 978 at pages 24, 25 and 26.

These claims are shown on the attached map entitled "Figure 2 - Map of the Spring Claim Group, Larimer County, Colo., (Revis & Revis DMEA 3678)."

EXPLORATION PROJECT CONTRACT
REVIS and REVIS
DOCKET NO. DMEA-3678

EXHIBIT "A"

Description of the Work

The work consists of exploration by shaft sinking and drifting to test a steep-dipping, uranium-bearing, shear zone in granite.

The work is tentatively indicated on the attached map entitled "Figure 3 - Plan and Section of Spring No. 1 Shaft . . . ."

The work is divided into two successive stages. The Operator shall perform Stage I, and shall perform so much of the work set forth under the second stage as the Government, based upon the results of the work under Stage I, approves in writing in advance.

The location, inclination, direction, and extent of all project work are subject to the approval of the Government.

All work shall be timbered as necessary.

As work progresses, representative samples shall be taken and analyzed chemically for uranium and vanadium.

STAGE I

The work under this stage consists of two phases:

(1) Prepare surface site and plant at collar of existing prospect shaft on Spring No. 1 claim. This work includes constructing a 10 foot by 20 foot frame building; installing a hoist, a compressor, and other equipment; constructing a suitable headframe and facilities for waste rock disposal; and making such other preparations as are necessary for shaft sinking.

(2) Sink a 2-compartment shaft from the bottom of the existing prospect shaft for a distance of 50 feet along the dip of the mineralized shear zone. The shaft shall have a minimum cross section of 4 feet by 8 feet inside the timbers.

STAGE II

Sink the shaft an additional 50 feet along the shear zone or vein, minimum dimensions of 4 feet by 8 feet inside the timbers; and drift from the shaft along the vein a distance of 100 feet. The elevation at which the drifting is to begin, and the direction it is to take will depend upon the conditions exposed by the preceding work. The drift shall have a minimum cross section of 5 feet by 7 feet in the clear of timbers.

ESTIMATED COSTS OF THE PROJECT

FIXED UNIT COSTS

(The unit costs include all costs whatsoever necessary to complete the work.)

STAGE I

Preparation of surface site and plant (The completed work constitutes the unit.)	$ 950.00	
50 ft. shaft sinking @ $75.00/ft.	3,750.00	
7 chemical sample analyses @ $5/sample	35.00	$ 4,735.00

STAGE II

50 ft. shaft sinking @ $75.00/ft.	3,750.00	
100 ft. drifting @ $31.00/ft.	3,100.00	
35 ft. drift timbering @ $4.00/ft.	140.00	
15 chemical sample analyses @ $5/sample	75.00	$ 7,065.00
Estimated total cost of the project		$11,800.00
Government participation @ 75%		$ 8,850.00

MF-203
Revised March 24, 1955

DMEA
Date Rec'd.

JUL 25 1955

BUREAU OF MINES
Denver, Colorado

For Government's Use Only
EXPLORATION PROJECT CONTRACT
Operator Revis and Revis
Docket No. DMEA- 3678
Contract No. Idm-E
Contract Date

RECEIVED
JUL 27 1955

CONSENT TO LIEN

To the United States of America:

Referring to that certain land in the County of Larimer, State of Colorado, described as follows:1/

Lady Cora Helen, Spring No. 1 and Spring No. 2 unpatented lode mining claims located June 30, 1954 and recorded in Book 978, pages 24, 25, 26 official records of said County

which is the subject of a proposed exploration project contract, hereinafter called the "contract," with the United States of America, hereinafter called the "Government;" in consideration of the contract and as an inducement to the Government to enter into it, the undersigned hereby--

1. Undertakes and agrees that property in which the Government may acquire an interest or equity under the contract may be dismantled, severed from the land, and removed, as may be provided in the contract; and the Government's interest and equity in such property shall be prior and superior to any adverse right or claim of the undersigned;

2. Grants to the Government a lien upon all of the undersigned's right, title, and interest in the land and upon any production of minerals therefrom to secure the payment to the Government of a percentage royalty on production as may be provided for by the contract;2/ and represents and undertakes that there are no claims, liens, or encumbrances upon the undersigned's right, title, or interest in the land prior to that hereby granted to the Government other than the following:3/

None

3. Undertakes and agrees neither to commit any act nor assert any claim in conflict with the provisions of this Consent to Lien; and to give advance notice of the Government's rights under this Consent to Lien to any subsequent transferee, mortgagee, encumbrancer, or lessee of any of the undersigned's right, title, or interest in the land; and

1/ Either (a) insert the legal description of the land, or (b) strike out the words "as follows" and insert "in a lease [or contract, deed, or other document] dated _____, and recorded in book _____ page _____ official records of said county." If (b) is used, the book and page of recordation cannot be dispensed with. If the space provided is insufficient, use an Annex, and refer to the Annex in the space.

2/ Mining or production from the land is not required, and in the absence of production there is no obligation to repay the Government.

3/ Write "none" if that is the case. Do not leave lines blank.

4. Consents to all amendments and assignments of the contract without notice thereof, and agrees that this Consent to Lien shall extend and apply thereto.

5. Added provision: NONE

Dated this 31 day of July, 1958.

_____ [Seal]

B. Lee Lindsey [Seal]

S. L. Lindsey [Seal]

I, _____ certify that I am the _____ (Secretary, etc.) of the corporation named herein; that _____ who signed this agreement was then _____ (President or Vice-President, etc.) of said corporation; that said agreement was duly signed for and in behalf of said corporation by authority of its governing body, and was within the scope of its corporate powers.

_____

[Corporate Seal]

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
5/22	Ching	700
"	Ellis	700
"	Chambers	800
5/22	Selfridge	120
"	Butterfield	100
		220

MAY 27 1957

Messrs. Kenneth J. Revis
and H. L. Revis, partners
Sportsman's Lodge
Bellvue, Colorado

Re: Docket No. DMEA-3678 (Uranium)
Contract No. Idm-E854
Spring Claim Group
Larimer County, Colorado

Gentlemen:

Reference is made to your terminated exploration contract with the Government.

We sincerely regret that the work performed did not result in a certification of discovery or development under the provisions of the contract. In the absence of such certification, the Government retains no claim or lien against the property subject to the contract or any future production therefrom. We, therefore, are closing our books and records on this project. Your attention, however, is called to the provisions of the contract which require the operator to keep and preserve certain records for the period indicated.

Your interest in the DMEA exploration program and participation therein are fully appreciated.

Sincerely yours,

C. O. Mitchelmore (for)

Administrator

MChing/gla
5/22/57
cc to: Admr.'s Reading File
Contract Adm. & Audit Division
Code 700, Mr. Ching
DMEA Field Team, Region III (2)

8623

DMEA Form 7
(12-56)

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Date	Surname	Code
5/22	Ching	700
"	Ellis	700
"	Chapman	800
5/27	Selfridge	120
"	Mittendorf	100
		220

MAY 27 1957

Mr. B. Lee Lindsey
Wheatland, Wyoming

and

Mr. S. L. Lindsey
Bellvue, Colorado

Re: Docket No. DMEA-3678 (Uranium)
Contract No. Xdn-D854
Kenneth J. Revis and H. L. Revis, partners
Spring Claim Group
Larimer County, Colorado

Gentlemen:

Enclosed is a copy of a self-explanatory letter of today to the Operator under the above-cited contract.

This correspondence relates to the Consent to Lien signed by you on July 21, 1955.

Sincerely yours,

C. O. Mittendorf (fw)

Administrator

Enclosure

Copy to: S. L. Lindsey

MChing/gla
5-22-57
cc to: Admr.'s Reading File
Contract Adm.& Audit Division
Code 700, Mr. Ching
DMEA Field Team, Region III (2)

8623

Docket

Ellis

Project Summary Report

By: Michael Ching Date: May 20, 1957

1. Docket No.: DMEA-3678 (Uranium)
   Contract No.: Idm-E 854

   Operator - Kenneth J. Revis and H. L. Revis, Partners
   Sportsman's Lodge
   Bellvue, Colorado

   Property: Three unpatented lode mining claims, Lady Cora Helen, Spring No. 1, and Spring No. 2, situated in secs. 10, 11, 14 and 15, T. 8 N., R. 75 W., 6th P.M.&B., Larimer County, Colorado

   Operator's Property Rights: Lessee. Consent to Lien, dated July 21, 1955, signed by lessors B. Lee Lindsey and S. L. Lindsey.

2. Contract (Short Form) - dated August 11, 1955

   Final starting date, Sept. 15, 1955.
   Actual starting date, September 15, 1955.
   Contract completion date, October 31, 1956.
   Termination Agreement, dated February 1, 1957, effective July 23, 1956.

   Work Authorized: To test a steep-dipping shear zone in granite.

   Stage I - Sink shaft from bottom of existing prospect shaft.

Preparation of surface site & plant	950.00	
50 ft. shaft sinking @ $75/ft.	3,750.00	
7 chemical sample analyses @ $5/sample	35.00	$4,735.00

   Stage II

50 ft. shaft sinking @ $75/ft.	3,750.00	
100 ft. drifting along vein from shaft @ $31/ft.	3,100.00	
35 ft. drift timbering @ $4/ft.	140.00	$7,065.00
15 chemical sample analyses @ $5/sample	75.00	

   Estimated Total Cost of the Project $11,800.00
   Government Participation @ 75% .....$ 8,850.00

   Amendments

   No. 1 - dated Dec. 16, 1955. Provides for suspension of work from Nov. 19, 1955 to May 1, 1956, extends completion date from March 31 to Oct. 31, 1956, and increases the royalty repayment period from 10 to 11 years.

Work Completed

Stage I

Preparation of surface site & plant	$950.00	
50 ft. shaft sinking @ $75/ft.	3,750.00	
3 chemical sample analyses @ $5/sample	15.00	$4,715.00

Stage II

10 ft. shaft sinking @ $75/ft.	$750.00	
30 ft. crosscutting @ $31/ft.	930.00	
30 ft. crosscut timbering @ $4/ft.	120.00	$1,800.00

Total Cost of Project $6,515.00
Government Participation @ 75% $4,886.25

The Operator, for his own account, sunk an 8-foot sump for the shaft, bulldozed a large surface cut, drove a 4-foot drift on the 54-foot level, and drilled some long holes.

Final Reports Received:

Operator's - undated - received Feb. 15, 1957
Field Team - dated Spril 26, 1957, received May 8, 1957

3. Auditor's Report of Review, dated Feb. 18, 1957:

Total Cost as billed by Operator $6,515.00
Exceptions ..... None
Total Accepted Cost $6,515.00
Government Participation @ 75% $4,886.25

4. Certification of Discovery - None

5. Results and Comments:

Precambrian gneiss and schist of the Idaho Springs formation were intruded by granite and pegmatites on the subject property. A shear zone in the granite, containing radioactive minerals, was exposed to a depth of about 20 feet in a shaft sunk by the Operator prior to the subject contract. A 10-12 inch vein within the shear zone split and one branch flattened and coursed out of the southwest wall of the shaft at a depth of 26 feet while the other branch disappeared. The shaft was extended 60 feet under the contract, but practically no mineralization was present below a depth of 23 feet. Consequently, from the 75-foot level a 30-foot crosscut was driven southwest to intersect the vein which veered out of the shaft at the 26-foot level. No intersection was made however, either in the crosscut or in a 12-foot long hole drilled by the Operator.

The vein apparently is present only in the upper part of the shaft. Approximately 15 tons of low-grade ore containing .10 to .20% U_3O_8 was stockpiled from this area. No other ore was found and no

reserves are known.

Because of the unfavorable results the contract was terminated by agreement, dated Feb. 1, 1957, effective July 23, 1956.

With the exception of a few months in the winter, when the work was recessed because of severe weather, performance by the Operator was good.

Michael Ching

Michael Ching

IN REPLY REFER TO:

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RECEIVED MAY 14 1957

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Memorandum		

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

May 13, 1957

Re: DMEA 3678 Idm-E854
K. J. and H. L. Nevis
Spring Claim Group
Larimer Co., Colo.

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

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

Subject: Review of Field Team Final Report.

The contract was awarded Aug. 11, 1955 and was terminated by agreement effective July 23, 1956. The program was not completed, $6,515.00 of the approved $11,800.00 having been spent.

The work resulted in the discovery of only minor amounts of ore-grade material in a radioactive shear zone in PreCambrian schist. No material of ore grade was found below a depth of 25 feet.

Certification is not recommended and, in the opinion of the examiners, further work with Government assistance is not warranted.

I concur with the recommendation that no certification be made.

N. E. Nelson

N. E. Nelson

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

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RECEIVED MAY 8 1957

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5/9	FEB	110
	esf	130
5/14	CB	220
17	Com	100

May 6, 1957

Memorandum

To: Chairman, Operating Committee, DMEA

From: DMEA Field Team, Region III

Subject: Docket No. DMEA 3678 (Uranium), Contract No. Idm-E854, Kenneth J. Revis and H. L. Revis, Partners (Spring claim group), Larimer County, Colorado - FINAL REPORT

Enclosed are the original and three copies of a joint final engineering and geologic report, dated April 26, 1957, by Donald H. Richter, Geologist, Geological Survey, and Carl Belser, Mining Engineer, Bureau of Mines; and transmittal thereof, dated May 3, 1957, from Albert S. Konselman and E. N. Harshman. The original and one copy of the Operator's final report were forwarded by memorandum of February 13, 1957.

The Contract was terminated before completion of all work provided for by a Termination Agreement, dated February 1, 1957, which was made effective at the close of business on July 23, 1956.

The exploration work completed consisted of 60 feet of shaft sinking, 30 feet of drifting, 30 feet of drift timbering, and chemical analysis of three samples; at a total accepted cost of $6,515.00 toward which the Government contributed 75%, or an amount of $4,886.25.

Final payment to the Operator was processed by this office February 19, 1957, in conformance with the Report of Review of reported project costs by the Contract Administration and Audit Division, DMEA, dated February 18, 1957.

The exploration work did not result in the discovery or development of a significant quantity of uranium ore. Therefore, certification of the project under the provisions of the Contract is not recommended.

E. N. Harshman

E. N. Harshman
Acting Executive Officer

Reviewed by
DMEA OPERATING COMMITTEE
5/13/57
(date)

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RECEIVED MAY 8 1957

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IN REPLY REFER TO:
DMEA
DEPARTMENT OF THE INTERIOR
MAY 3 - 1957
REGION III
DENVER, COLORADO

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

May 3, 1957

~~Memorandum~~

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

From: Albert S. Konselman
E. N. Harshman

Subject: DMEA Docket 3678 (Uranium), Contract Idm-E 854, Kenneth J. Revis and H. L. Revis, Partners (Spring claim group), Larimer County, Colorado
FINAL REPORT

Enclosed are the original and nine copies of a joint final geologic and engineering report by Carl Belser, U. S. Bureau of Mines, and Donald H. Richter, U. S. Geological Survey, in which exploration under the subject contract is described.

Contract Idm-E 854 authorized the expenditure of an estimated $11,800.00 in a two-stage program comprising 100 feet of shaft sinking and 100 feet of drifting. The work completed consisted of 60 feet of shaft sinking and 30 feet of crosscutting at a total cost of $6,515.00, Government participation 75 percent or $4,886.25.

Exploration of a radioactive shear zone in gneiss and schist resulted in the discovery of only minor amounts of ore-grade material near the surface and no material of ore grade at depths of over 25 feet below the surface.

Certification of a Discovery is not recommended and additional work, with Government assistance is not warranted.

Albert S. Konselman
Mining Engineer

E. N. Harshman
Member, Field Team

Reviewed by
DMEA OPERATING COMMITTEE
5/13/57
(date)

Enclosures (10)

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

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA 3678

Contract Idm-E 854

Revis and Revis

Spring claim group

Larimer County, Colorado

Uranium

Joint Final Engineering and Geological Report

by

Donald H. Richter, Geologist
Geological Survey

Carl Belser, Mining Engineer
Bureau of Mines

April 26, 1957

Reviewed by
DMEA OPERATING COMMITTEE
5/13/57
(date)

CONTENTS

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Summary of factual data..... 8

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Actual costs..... 8

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ILLUSTRATIONS

Figure — Follows page

1. Location map of Spring claim group, Larimer County, Colorado..... 2

2. Map of the Spring claim group, Larimer County, Colorado..... 10

3. Geologic plan and section of Spring No. 1 shaft and crosscut, Larimer County, Colorado..... 10

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DMEA 3678

CONTRACT Idm-E 854

REVIS AND REVIS
SPRING CLAIM GROUP
LARIMER COUNTY, COLORADO

INTRODUCTION AND SUMMARY

K. J. Revis and N. L. Revis, of Jamestown Star Route, Boulder, Colorado, on January 24, 1955, submitted an application to the Defense Minerals Exploration Administration for aid in exploring for uranium on a group of three unpatented mining claims in Larimer County, Colorado. The applicant proposed to sink 150 feet from the bottom of an existing 20-foot shaft at a total estimated cost of $14,529.42.

The property was examined on May 16, 1956, by D. R. MacLaren, geologist, U. S. Geological Survey, and R. L. Bolmer, mining engineer, U. S. Bureau of Mines. A modified program was recommended for approval and on August 11, 1955, a contract was signed which provided for 100 feet of sinking and 100 feet of drifting at a total estimated cost of $11,800.00.

The rocks in the area are Precambrian gneiss and schist of the Idaho Springs formation which have been intruded by Precambrian Silver Plume granite. Abnormal radioactivity was found around a

spring where two bulldozer trenches had been cut and a 20-foot shaft sunk. A radioactive vein and shear zone exposed in the shaft strike N. 25° W. and dip 72° SW. The main part of the vein dipped out of the shaft at a depth of 26 feet and radioactivity was low in the shaft below the 23-foot level. Between the 26-foot level and the bottom of the shaft at the 75-foot level only a few clay-filled fractures and shears, some containing minor radioactive material, are present.

Shaft sinking under the contract commenced on September 15, 1955. Sixty feet of sinking and 30 feet of crosscutting was completed by July 1956. The cost of this work was $6,515.00.

Although about 15 tons of low-grade ore containing 0.10 to 0.20 percent U_3O_8, was recovered during the exploratory work, significant deposits of uranium ore do not appear to occur in the mine area and additional exploration, with Government assistance, is not recommended.

The contract was terminated on February 1, 1957; certification of a discovery is not recommended.

LOCATION AND ACCESSIBILITY

The claims are in the NE 1/4 sec. 14 and the NW 1/4 sec. 15, T. 8 N., R. 75 W., sixth principal meridian, Larimer County, Colorado, in the Chambers Lake mining district, about 9 miles north of Rocky Mountain National Park (figs. 1 and 2).

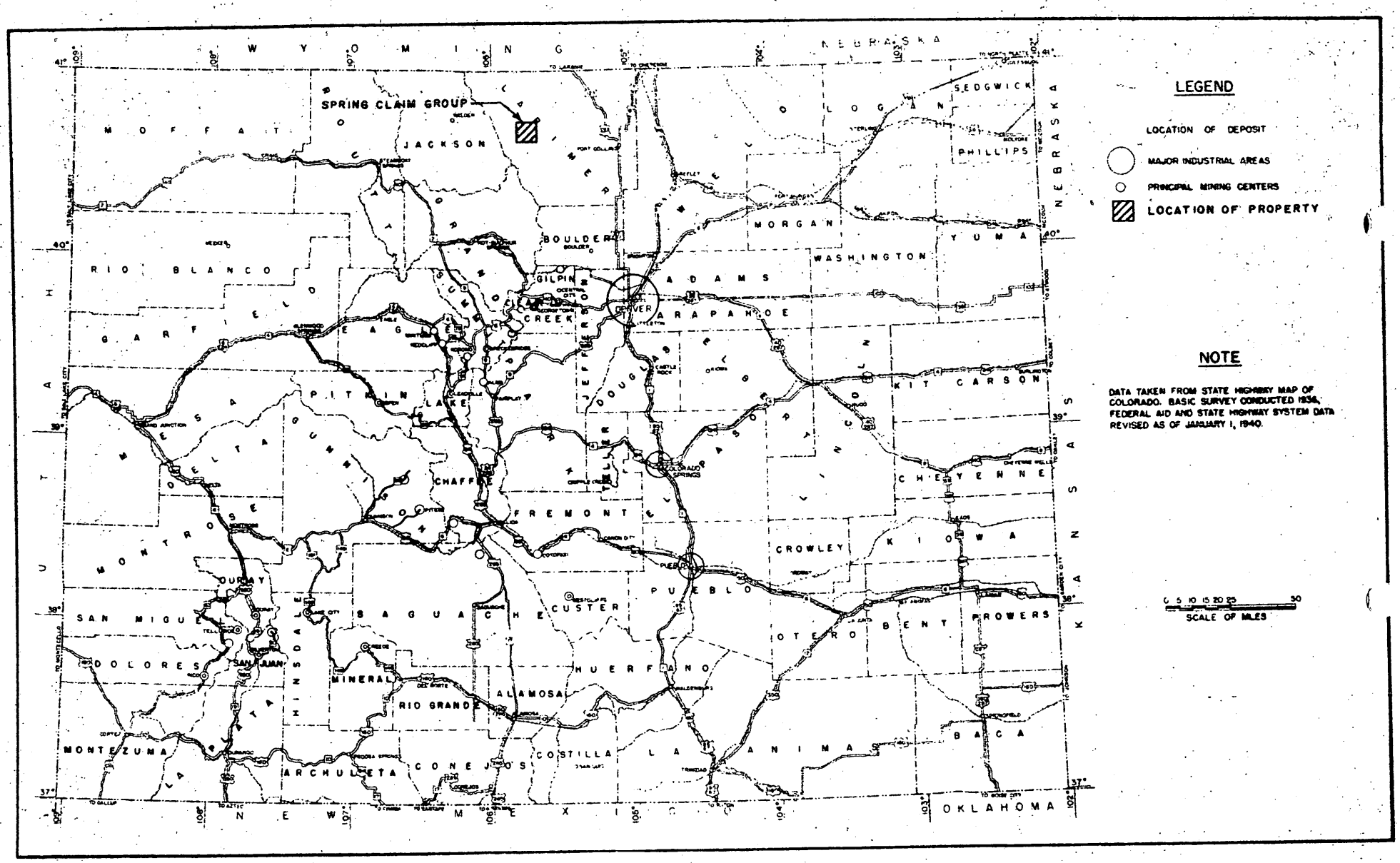

FIGURE 1 - LOCATION MAP OF SPRING CLAIM GROUP, LARIMER COUNTY, COLO. (REVIS & REVIS DMEA 3678)

The claims can be reached from Fort Collins, Colorado, by traveling westerly 9 miles over U. S. Highway 287 and 45 miles on State Highway 14 to Sportsman Lodge; thence 1 mile south over an unimproved dirt road.

The claims are on the steep south side of the Poudre River Canyon, at an approximate altitude of 9,000 feet. Winters are severe, but State Highway 14 is generally kept cleared of snow. Low voltage power is supplied to the property.

Fort Collins is the nearest source of labor and supplies. The nearest railroad is the Colorado and Southern at Bellvue, Colorado, 49 miles east of the claims.

OWNERSHIP AND EXTENT

The property consists of three unpatented claims (fig. 2); the notices of location are recorded in the County Clerk's office, Larimer County, as follows:

Claim	Book	Page	Date located	Locators
Lady Corn Helen	978	24	June 30, 1954	S.L. and B.L. Lindsey
Spring No. 1	978	25	June 30, 1954	S.L. and B.L. Lindsey
Spring No. 2	978	26	June 30, 1954	S.L. and B.L. Lindsey

On February 1, 1955, Kenneth and H. L. Revis leased the claims from the locators for a five-year period. The lease carried a renewal privilege. On July 25, 1955, the locators gave their consent to a government lien on the claims.

HISTORY AND PRODUCTION

The prospect was discovered by S. L. and B. L. Lindsey while on a hunting trip, and was located on June 30, 1954. A prospecting agreement was made between the discoverers and Kenneth and H. L. Revis on September 22, 1954, and work on the claims commenced in October 1954. This ripened into a lease which was granted to the Revises on February 1, 1955, and a DMEA contract was granted the lessors. No ore has been shipped from the property.

GEOLOGY

The consolidated rocks in the Spring claim group consist of Precambrian gneiss and schist of the Idaho Springs formation that have been intruded by Silver Plume (?) granite and irregular seams and masses of pegmatite.

Abnormal radioactivity was first discovered about a spring, at the base of a westerly trending ridge, in a limonite-rich precipitate. A trench bulldozed along the side of the hill above the spring exposed a shear zone containing radioactive minerals. A few small flakes of autunite and an associated greenish non-fluorescent radioactive mineral, possibly torbernite, have been observed in the schist and a dark gray- to black-coating of pitch-blende has been found along fractures and planes of shearing in the brecciated granite.

The DMEA program, designed to explore a 10- to 12-inch radioactive vein within this shear zone, exposed to a depth of about 20 feet in a shaft sunk by the operator, consisted of approximately 60 feet of shaft sinking and 30 feet of crosscutting. From the surface to a depth of approximately 18 feet the shears and vein strike N 25° to 30° W and dip about 72° SW (fig. 3). At this depth, in a zone of strong radioactivity, the vein apparently splits, one branch with a slight flattening in dip courses out of the southwest wall of the shaft at a depth of 26 feet and the other, which the shaft follows, disappears in the shear zone at approximately the same depth. Beyond a depth of 23 feet no appreciable radioactivity was observed in the veins. At depths between 37 and 50 feet strong fractures in the brecciated granite carried some minor radioactive material. From the 75-foot level of the shaft a 30-foot crosscut was driven southwest to intersect the vein which veered out of the shaft at the 26-foot level. No intersection was found however, either in the crosscut or in a 12-foot long hole drilled from the face.

The veins, present only in the upper part of the shaft, contain quartz, pyrite, fine breccia fragments, and where radioactive, minor amounts of sooty pitchblende. In the shear planes and fractures considerable clay gouge has developed and in some of these structures very minor amounts of radioactive material has

been deposited. Approximately 15 tons of low-grade ore, containing 0.10 to 0.20 percent U_3O_8 has been stockpiled from the upper part of the exploration shaft.

ORE RESERVES

With the exception of the estimated 10 to 20 tons of low-grade material recovered from the upper part of the shaft no ore was found by the exploration work, and there is no known reserves of shipping-grade ore on the property. At the present time this radioactive material has no commercial value, unless it can be shipped with other high-grade ore.

THE PROJECT

Original program and modifications

The original recommended program was to be conducted in two stages: the first stage consisted of installing a surface plant, sinking the shaft an additional 50 feet, and seven chemical analyses. The second stage consisted of a maximum of 50 feet of additional sinking, 100 feet of drifting, 35 feet of drift timbering, and 15 chemical analyses. The cost of Stages I and II was estimated at $11,800.00. Carrying out Stage II of the program was dependent on results obtained from Stage I work.

Description of work completed

Contract Idm-E 854 was signed on August 11, 1955; work started on the surface plant on September 15, and on the shaft on September 22, 1955. In early June 1956, the shaft had been deepened 50 feet, and on June 20, 1956, a modified second stage program, consisting of 10 feet of additional sinking and 30 feet of crosscutting was approved.

Sixty feet of sinking, 30 feet of crosscutting, 30 feet of crosscut timbering, and three chemical analyses were completed under the contract. Extra work, not included in the contract, consisted of sinking an 8-foot sump, bulldozing a large surface cut, and driving a 4-foot drift on the 54-foot level.

As the material in the lower part of the shaft was not strongly radioactive, only a portion of the Stage II work was allowed. The crosscut on the 75-foot level, after cutting through about 20 feet of schist, is in altered pegmatite and a 12-foot hole drilled into the breast, cut altered pegmatite for its entire length. However, no strongly radioactive areas were found.

With the exception of a few months in the winter, when the work was recessed because of severe weather, there were no marked delays in the performance of the contract work. It progressed smoothly and without mishap.

SUMMARY OF FACTUAL DATA

Contract costs

The contract called for a maximum of 100 feet of shaft sinking, 100 feet of drifting, 35 feet of timbering, preparation of a plant site and plant, and 22 chemical analyses. This was to be done in two stages at the following stipulated costs.

Stage I

Preparation of surface site and plant	$ 950.00
50 feet of shaft sinking at $75.00/ft.	3,750.00
7 chemical analyses at $5.00 each	35.00
Estimated cost of Stage I	$ 4,735.00

Stage II

50 feet of shaft sinking at $75.00/ft.	$ 3,750.00
100 feet of drifting at $31.00/ft.	3,100.00
35 feet of drift timbering at $4.00/ft.	140.00
15 chemical analyses at $5.00 each	75.00
Estimated cost of Stage II	$ 7,065.00
Total estimated cost of project	$11,800.00

Actual costs

Because of the unfavorable results of Stage I work, the contract was terminated after partial completion of a modified Stage II program. Actual contract costs follow:

Stage I

Preparation of surface site and plant	$ 950.00
50 feet of shaft sinking at $75.00/ft.	3,750.00
3 chemical analyses at $5.00 each	15.00
Actual cost of Stage I	$ 4,715.00

Stage II

10 feet of shaft sinking at $75.00/ft.	$ 750.00
30 feet of crosscutting at $31.00/ft.	930.00
30 feet of crosscut timbering at $4.00/ft.	120.00
Actual cost of Stage II	$ 1,800.00
Actual cost of project	$ 6,515.00
Government participation at 75 percent	$ 4,886.25

Equipment consisted of an 11.5 by 20-foot frame and corrugated iron compressor building, a 12- by 15.5-foot frame and corrugated iron hoist house, a gasoline-powered single-drum geared hoist, a gasoline-powered air compressor, a 4-post, wooden headframe, a shaft bucket, a wheel barrow, an electric pump, drills and hand tools.

CONCLUSIONS AND RECOMMENDATIONS

The shear zone on the Spring claim group has been explored both laterally and vertically, and the uranium mineralization found is too low in grade to be considered significant.

The over-all mineralization in this general area is apparently poor and no well defined ore-bearing veins appear to have been developed. Only minor amounts of uranium, confined chiefly to thin coatings of sooty pitchblende along discontinuous veins, shears, and fractures, are present.

No further DMEA assistance is warranted and it is recommended that no certificate of discovery be issued.

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

224 New Customhouse
Denver 2, Colorado

February 13, 1957

OFFICIAL FILE COPY DMEA RECEIVED FEB 15 1957		
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2/18	[illegible]	800
		225

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket No. DMEA 3678 (Uranium), Contract No. Idm-E854, Kenneth J. Revis and H. L. Revis, Partners (Spring claim Group), Larimer County, Colorado

Enclosed are the Government's, Division, and Audit copies of the "TERMINATION AGREEMENT", which was forwarded by your letter of February 1, 1957 for signature by the operating partners.

Also enclosed are the original and one copy of a final report submitted by the Operator, pertaining to work completed under the Contract.

Copies of the Termination Agreement have been distributed to the Operator, the Finance Office, Region III, and to others concerned.

W. M. Traver

W. M. Traver

Enclosures

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

DMEA
DEPARTMENT OF THE IN
OCT 29 1956
REGION III
DENVER, COLORADO

REGION III

Building 20
Denver Federal Center
Denver 2, Colorado
October 29, 1956

Memorandum

To: Executive Officer, DMEA Field Team, Region III

From: John F. Shaw

Subject: Contract Idm-E854, Docket DMEA 3678, Revis and Revis, (Uranium) Larimer County, Colorado

Enclosed are the original and 3 copies of a final report covering the work performed under Contract Idm-E854. One copy is being retained for our use in preparation of the final report.

John F. Shaw
Supervising Mining Engineer

JFS/mw
Enc.
Idm-E854
Chron

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RECEIVED FEB 15 1957

DATE	INITIALS	CODE

REVIS and REVIS
DMEA 3678 Idm-E-854

RECEIVED
OCT 29 1956
Div. of Mineral Technology
BUREAU OF MINES
Denver Experiment Station
Denver, Colorado

Narrative Report

This is the final report on work done under our contract.

Work was started Sept. 15, 1955, and was suspended on Dec. 1955 because of bad weather. Then started the first of May 1956.

The shaft was 18 feet deep when the program with DMEA started. There were several veins of sooty pitch and ore vein approximately 4x12 in. These veins dipped out of the shaft at 30 foot level. The assays on these veins started at about .25 and fell to around .10%.

Then for about 12 feet we had no veins. At 45 feet we again hit sooty pitch in the fractures of the formation. The assays run as high as .16%. These veins went down to about 60 feet.

We sank the shaft to 70 feet finding no more veins. Then it was decided to sink another ten feet to start drifting and dig a sump hole.

Then a 30 foot drift was dug trying to reach the south side of the fault and see if the veins that dipped off at 30 feet had continued down. No radioactivity was incountered in the drift.

This completed all the authorized work.

We have completed some long hole drilling on the north-east corner and side of the shaft. Very little showing was found except in one hole, we are now drifting on this one.

Signed H. L. Revis
H. L. Revis

Kenneth J. Revis
Kenneth J. Revis

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DMEA
RECEIVED FEB 15 1957

DATE	INITIALS	CODE

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

224 New Customhouse
Denver 2, Colorado

February 5, 1957

Messrs. Kenneth J. Revis
and H. L. Revis
Sportsman's Lodge
Bellvue,,Colorado.

Re: Docket No. DMEA-3678 (Uranium)
Contract No. Idm-E854
Kenneth J. Revis and H. L. Revis,
Partners (Spring Claim Group)
Larimer County, Colorado

Gentlemen:

Reference is made to our letter of December 3, 1956, concerning additional work you were to request under Contract Idm-E854.

Inasmuch as you did not comply with requirements outlined in the last paragraph of our letter of December 3, steps have been taken to terminate the contract in its present status. For that purpose, enclosed are the Government's, Division, Audit, Finance Office, and Field Team copies of the proposed termination agreement which, when executed, will terminate the contract as of the close of business on July 23, 1956.

If the Termination Agreement is acceptable, all copies are to be signed by both partners as indicated and all copies promptly returned to this office. Upon return of the properly signed copies of the Termination Agreement, the "Operator's" copy will be forwarded to you.

Very truly yours,

Original signed by
W. M. TRAVER

W. M. Traver
Executive Officer, DMEA
Field Team, Region III

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DMEA
RECEIVED FEB 7 1957

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(2)		

Encls.
JWT:bh
cc-Chair., Op. Comm.
Harshman
Shaw
Townsend
Corres. File E-854
Chron.

DMEA Form 7
(12-56)

700

OFFICIAL FILE COPY

Date	Surname	Code
2-1	Ching	700
2-1	Ellis	700
2/1	Taffut	800
2/1	Selfridge	130
"	Johnson	110
"	Blattenberger	100
2/4	C	220
		225

FEB 1 1957

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

Re: Docket No. DMEA-3678 (Uranium)
Contract No. Idm-E854
Kenneth J. Revis and H. L. Revis
Spring Claim Group
Larimer County, Colorado

Dear Mr. Traver:

In accordance with our teletype of January 28, 1957, we are enclosing the original and five copies of a Termination Agreement between the Government and the subject Operator, signed by the Administrator. Also enclosed are two extra copies of the agreement for the use of the Field Team.

If you and the Operator find the agreement in order, please have it executed as indicated and make the usual distribution thereafter.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Enclosures

APPROVED:

Frank D. Lamb

Member, Bureau of Mines

N. E. Nelson

Member, Geological Survey

MChing/izm 2-1-57
cc to: Code 700
Admr.'s Reading File
Operating Committee
Mr. Ching
Messrs. THKiilsgaard, 5224
JKratchman, AEC

8623

DMEA Form 7
(12-56)

700

OFFICIAL FILE COPY

Date	Surname	Code
1-29	Ching	700
		~~110~~
		225

January 29, 1957

Memorandum

To: Associate Solicitor, Division of Mineral Resources

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

Subject: Termination Agreement
Docket No. DMEA-3678
Contract No. Idm-E854
Kenneth J. Revis and H. L. Revis
Spring Claim Group
Larimer County, Colorado

Will you kindly prepare a Termination Agreement between the Government and the subject Operator in accordance with the attached draft. The agreement should be prepared for the signature of the Administrator.

The effective date of July 2[illegible], 1956, was the date on which the Government engineer examined the property and verified the amount of work completed under the contract. The Operator has already rendered a final report and final account.

/s/ Ernest Wm. Ellis

Ernest Wm. Ellis

Attachment

MChing/izm 1-29-57
cc to: Code 700
Mr. Ching

8623

Draft
MChing/izm
1-29-57

Docket No. DMEA-3678

TERMINATION AGREEMENT

It is agreed this _____ day of _____, 1957, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and Kenneth J. Revis and H. L. Revis, partners, hereinafter called the "Operator," parties to that certain Exploration Project Contract Idm-E854, Docket No. DMEA-3678, dated August 11, 1955, as amended, hereinafter called the "Contract," that:

1. Effective as of the close of business on July 23, 1956, the Contract and all obligations of the parties thereunder, except as otherwise herein expressly provided, shall be and are hereby terminated.
2. The Government shall contribute only to the costs of work performed prior to said effective date.
3. The Operator shall promptly perform all winding-up and settlement actions provided for in the Contract.
4. All rights of the Government provided for in the Contract with respect to certification of discovery or development, percentage royalty and lien for its payment, records, audit, and recovery of any overpayment, are preserved.
5. The Operator hereby releases and agrees to save the Government harmless from all claims or demands under or arising out of said Contract, except as otherwise provided in this termination agreement.

In Witness Whereof, these parties have executed this agreement as of the day and year first above written.

THE UNITED STATES OF AMERICA

By _____
Administrator, Defense Minerals
Exploration Administration

Kenneth J. Revis and H. L. Revis

By _____

Title _____

Docket
700
Ching
Ellis

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

January 28, 1957

Memorandum

To: The Files

From: Michael Ching, Mining Engineer
Rare & Miscellaneous Metals Division

Subject: Justification for Termination Agreement
Docket No. DMEA-3678
Contract No. Idm-E854
Kenneth J. Revis and H. L. Revis
Spring Claim Group
Larimer County, Colorado

Under Stage I of the subject contract the Operator prepared the site and surface plant and extended an existing prospect shaft 50 feet to a total depth of 68 feet. The work revealed intermittent ore-grade uranium mineralization within a north-south trending shear zone. The most promising occurrence consisted of a 10 to 15 inch vein within the shear zone which dipped outside the western limits of the shaft at a depth of 26 feet from the collar.

Under Stage II the shaft was extended an additional 10 feet for a total depth of 78 feet. The Operator sank the shaft an additional 3 feet for its own account, making a total depth of 81 feet.

From the 75 -foot level a crosscut was driven westerly for a distance of 30 feet to locate the hanging wall of the shear zone and perhaps to intersect the vein encountered in Stage I.

No radioactivity was encountered during the sinking and cross-cutting under Stage II. The crosscut passed from quartz-pegmatite into a highly fractured schist which was believed to be a poorer host rock for ore deposition. At this point the examiner stated that additional work did not appear warranted on the basis of results to date. The Operator planned some long-hole drilling from higher levels in the shaft but failed to report the results or give further information justifying additional work under Stage II. The contract completion date of October 31, 1956 has long since passed.

In view of the foregoing results no further work under Stage II is warranted. It is recommended that a Termination Agreement be prepared and sent to the Operator for signature.

Send draft agreement to Operator

Michael Ching
Michael Ching

DMEA Form 7
(12-56)

Department of the Interior

DMEA

14X4401(OEP) Operating Comm.
Defense Production Act,
Interior (Allocated Working Fund to the
Office of the Secy.)

		Code
1-28	Ching	700
1-28	Ellis	700
1/28	Selfridge	130
"	Johnson	110
"	Whittenberg	100
1-29		225

T E L E T Y P E

JAN 28 1957

W. H. TRAVER, EXECUTIVE OFFICER
DMEA FIELD TEAM, REGION 3
224 NEW CUSTOMHOUSE BUILDING
DENVER 2, COLORADO

REURTT JANUARY 25 REVIS AND REVIS DOCKET 3678. WE WILL PREPARE TERMINATION AGREEMENT PROMPTLY.

Nelson
Lamb

George C. Selfridge
CHAIRMAN, OPERATING COMMITTEE (HB)

MChing/izm 1-28-57
cc to: Code 700
Mr. Ching
Admr.'s Reading File
Operating Committee
Confirmation copy
Messrs. JECrawford, 3643
THKiilsgaard, 5224
JKratchman, AEC

8623

Mr. George Selfridge

DATE	INITIALS	CODE
1-25		
	cw	220
		225

OFFICIAL FILE COPY
D M E A
RECEIVED JAN 25 1957

DN 235 BUR MINES 1-25-57 9-58

CHAIRMAN, OPERATING COMMITTEE, DMEA

RE DOCKET DMEA 3678, CONTRACT IDM-E854, REVIS AND REVIS. PLEASE REVIEW CORRESPONDENCE RELATIVE TO OPERATOR S SUBMITTING REQUEST FOR ADDITIONAL WORK OR TERMINATION OF CONTRACT, ESPECIALLY OUR LETTERS OF NOVEBXX NOVEMBER 13 AND DECEMBER 3. REQUEST FOR ADDITIONAL WORK NOT RECEIVED AS STIPULATED IN OUR LETTER OF 12-3. PLEASE TELETYPE ADVICE AS TO WHETHER OR NOT TERMINATION AGREEMENT SHOULD BE EXECUTED. CERTIFICATION WILL NOT BE RECOMMENDED.

W M TRAVER

Denver, Colorado

JAN 25 1 35 PM '57
BUREAU OF MINES
MAIL ROOM
WASHINGTON, D.C.

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

224 New Customhouse
Denver 2, Colorado

December 3, 1956

Messrs. Kenneth J. Revis
and H. L. Revis
Sportsman's Lodge
Bellview, Colorado

Re: Docket No. DMEA 3678 (Uranium)
Contract No. Idm-E854
Kenneth J. Revis and H. L. Revis,
Partners (Spring claim group),
Larimer County, Colorado

Gentlemen:

Reference is made to your letter of November 29, 1956, in reply to our letter of November 13, 1956, concerning either termination of the contract in its present status or submittal by you of a request for the Government's approval of additional work to be performed under Contract No. Idm-E854.

DMEA contracts cannot be maintained in an indefinite status for any considerable period of time. Therefore, as the date fixed for completion of the work expired October 31, 1956, you should immediately submit your proposal relative to the additional work you would like to perform under the contract. At the same time, you should request an extension of the date fixed for completion of the work to a date that will permit you to complete the additional work proposed.

We believe that two weeks should be adequate to enable you to formulate plans relative to the additional work. Therefore, if your request is not received in this office by December 17, 1956, we will take steps to close the account in its present status.

Very truly yours,

Original signed by
W. M. TRAVER

W. M. Traver
Executive Officer, DMEA
Field Team, Region III

JWT:prl

cc: Chairman, Op.Comm. (2)
Harshman
Shaw
Corres. file
Townsend
Chron.

w/copy of Operator's letter of Nov. 29.

Revis & Revis
D.M.E.A. - 3678
Contract No. Idm-E854
Bellvue, Colo.
Nov 29, 1956

Mr. W. M. Traver
Executive Office D.M.E.A.
224 New Customhouse
Denver 2 Colo.

DMEA
DEPARTMENT OF THE INTERIOR
DEC 3 1956
REGION III
DENVER, COLORADO

Dear Sir,

I am sorry for not answering your letter of Nov 13, 1956 sooner.

We are very interested in doing some work under our Contract. We wouldn't have sent in the Final Report. Had we known their was a possibility for additional work.

As soon as we can get our engineer up to the mine & give us an idea as to the best possible way to work it.

We will report to your office when this is done. If this is suitable to your office let us know.

Your Truly
H. L. Revis

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

224 New Customhouse
Denver 2, Colorado

November 13, 1956

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

Messrs. Kenneth J. Revis
and N. L. Revis
Sportsman's Lodge
Bellview, Colorado

Re: Docket No. DMEA 3678 (Uranium)
Contract No. Idm-E854
Kenneth J. Revis and N. L. Revis,
Partners (Spring claim group),
Larimer County, Colorado

Gentlemen:

Reference is made to your letter of November 8, 1956, in reply to the letter from this office dated October 30, 1956, pertaining to termination of Contract No. Idm-E854.

Inasmuch as on October 29, 1956 we received your Final Report pertaining to work completed under the Contract, which had been forwarded through Mr. Shaw's office, we assumed that you were not interested in performing additional work under the Contract.

When all the work provided for in a contract is not to be completed, it is generally the practice to have executed a termination agreement signed by the Operator and a representative of the Government to terminate the contract in some stipulated status.

As a prerequisite to preparing the mutual termination agreement instrument, it is necessary that we obtain a request in writing from the Operator indicating a desire to terminate the Contract for stated reasons in its status at that time; therefore, our letter to you of October 30.

In your letter of November 8, 1956, you imply that additional exploration of the property is desirable. In that respect, if the additional exploration work you desire to perform will qualify under the Defense Minerals Exploration Administration program and can be fitted into the existing contract, you should submit the original and five complete copies of your request for such additional work as you desire to perform.

It is a practice in this office that all matters pertaining to administration of DMEA contracts be resolved on the basis of written communication for record purposes. Therefore, we will appreciate receiving your written request for the Government's approval of additional work, or advice by return mail that you wish to terminate the Contract in its present status.

Very truly yours,

Original signed by
W. M. TRAVER

W. M. Traver
Executive Officer, DMEA
Field Team, Region III

JWT:prl

cc: Chairman, Op. Comm. (2)) w/copy of Operator's letter of November 8.
Marshman)
Shaw)
Corres. file)
Townsend
Chron.

COPY

REVIS & REVIS
DMEA 3678 - Idm-E854
Bellvew, Colo.
Nov. 8, 1956

Mr. W. M. Traver,

In answer to your letter of Oct. 30, 1956. You asked for our "reasoning that further exploration work under the provisions of the Contract is not warranted."

We were given the impression by the field team that no more of our Contract would be approved.

THe D.M.E.A. geologists said that since the veins didn't get better they thought it unnecessary to continue.

However, we plan to explore two veins that dipped off the shaft. This work we plan to do on our own.

/s/ Kenneth J. Revis

/s/ H. L. Revis

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

224 New Customhouse
Denver 2, Colorado

October 30, 1956

Messrs. Kenneth J. Revis
and H. L. Revis, Partners
Sportsman's Lodge
Bellview, Colorado

Re: Docket No. DMEA 3678 (Uranium)
Contract No. Idm-E854
Kenneth J. Revis and H. L. Revis,
Partners (Spring claim group)
Larimer County, Colorado

Gentlemen:

Reference is made to the matter discussed in the last paragraph of our letter to you of October 24, 1956.

Even though we have today received your final report pertaining to the work completed under the Contract, as a matter of form we will appreciate receiving your request for termination of the Contract in its present status.

Your request for termination of the Contract should state your reasoning that further exploration work under the provisions of the Contract is not warranted.

Very truly yours,

Original signed by
W. M. TRAVER

W. M. Traver
Executive Officer, DMEA
Field Team, Region III

JWT:prl

cc: Chairman, Op. Comm. (2)
Shaw
Harshman
Townsend
Corres. file
Chron.

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

RECEIVED
OCT 26 1956

224 New Customhouse
Denver 2, Colorado

October 24, 1956

Messrs. Kenneth J. Revis
and H. L. Revis
Sportsmans Lodge
Bellview, Colorado

Re: Docket DMEA 3678 (Uranium)
Contract Idm-E854
Kenneth J. and H. L. Revis, Partners
Spring claim group
Larimer County, Colorado

Gentlemen:

The completion date for Contract Idm-E854 is October 31, 1956. Therefore, if you are desirous of maintaining the contract in force subsequent to that date, you should immediately submit for consideration by the Government a request for extension of the date fixed for completion of the contract work for such specific additional time as you deem will be necessary. As soon as possible you should submit a separate request outlining the additional work that you wish to perform under the contract.

In the event that you do not desire to maintain the contract in force and to perform additional work, you should immediately submit a request that the contract be terminated in its present status.

Very truly yours,

Original signed by
W. M. TRAVER

W. M. Traver
Executive Officer, DMEA
Field Team, Region III

JDC:jy
cc: Corresp. E854
Chm. Op. Comm. (2)
Shaw (2)
Townsend
Chron.

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

RECEIVED
AUG 13 1956

224 New Customhouse
Denver 2, Colorado

August 9, 1956

Messrs. Kenneth J. Revis and
H. L. Revis, Partners
Sportsmans Lodge
Bellview, Colorado

Re: Docket DMEA-3678 (Uranium)
Contract Idm-E854
Kenneth J. Revis and H. L. Revis,
Partners
Spring claim group
Larimer County, Colorado

Gentlemen:

Form MF-104, Operator's Monthly Report and Voucher, for July, 1956 has been received in this office and is being processed for payment.

All currently authorized work has been completed. Therefore, an amount of $400.00 is withheld from the July, 1956 voucher pending additional work under the contract, or if no further work is approved by the Government and performed by the partnership, this amount shall continue to be held pending resolution of all matters relative to closing the account, which includes the following

1) Termination of the contract.

2) Rendering by the partnership to the Government an adequate final engineering and geologic report as stipulated under Article 6 (c) of the contract form.

3) Release to this office of a Report of Review of contract expenditures by the Contract Administration and Audit Division, DMEA.

As soon as you have reached a definite decision regarding possible additional work, please submit for consideration by the Government your request for additional work or for termination of the contract.

Very truly yours,

W. M. TRAVER

W. M. Traver
Executive Officer, DMEA
Field Team, Region III

JDC:jy
cc: Corresp. E854
Sec. Op. Comm. (2)
Shaw (2)
Townsend
Chron.

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

RECEIVED
JUN 26 1956

224 New Customhouse
Denver 2, Colorado

June 25, 1956

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 3678 (Uranium), Contract Idm-E854, Revis and Revis (Spring Claim Group), Larimer County, Colorado

Enclosed are four copies of project work approval issued by the DMEA Field Team, Region III.

Also enclosed are four sets of data relative to the work approval.

W. M. Traver

W. M. Traver

Enclosures

DMEA
Date Rec'd.

JUN 20 1956

BUREAU OF MINES
Denver, Colorado

REGION III

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

Memorandum

To: Executive Officer, DMEA Field Team, Region III

Through: John F. Shea

From: R. L. Palmer
E. N. Hawkins

Subject: DMEA 3078 (Uranium) Contract 14m-2894, Revis and Revis, (Spring Chain group) Larimer County, Colorado -- Recommendations regarding the continuance of project work under Stage II of the contract

The operator under the subject contract has completed Stage I of the authorized project and has requested Government approval to start Stage II.

The 50 feet of shaft sinking completed under Stage I of the project revealed intermittent ore-grade uranium mineralization within a north-south trending shear zone. The results of the Stage I work are sufficiently encouraging to warrant some additional exploration of the deposit.

Deeper exploration of the zone, as presently provided under Stage II of the project, probably is not warranted until the mineral content across the full width of the zone and along more of its length has been determined. The shaft was collared in a surface cut on a steep hillside. The overburden on the slope is heavy and the zone does not outcrop. The shaft presently is sunk 65 feet below the collar and about 90 feet below the original surface. Any lateral exploration of the deposit south or west from the shaft would rapidly increase this cover.

The most continuous and promising occurrence of uranium encountered to date was confined to a 10- to 15-inch vein within the shear zone. At a depth of 18 feet below the collar, this vein crossed diagonally through the center portions of the shaft. It dipped outside the western limits of the excavation at a depth of some 25 feet. At the present depth, the downward projection of this vein should lie some 30 to 35 feet west of the shaft. At the present depth, the rock encountered in the eastern corner of the shaft is harder and less broken up. It is probable that the shaft is approaching the true footwall of the shear zone.

It is recommended that the operator be granted permission to continue project exploration of the deposit in the manner outlined below.

Inasmuch as the shear zone contains appreciable amounts of water, the shaft should be sunk an additional 10 feet or to a total depth of 78 feet below its collar so as to provide an adequate sump for the lateral exploration headings. This additional depth also may determine the location of the true footwall of the zone. From the presently completed 68-foot depth of the shaft, a crosscut should be driven westerly an estimated 25 to 30 feet to the true hanging wall of the zone. The most favorable section of the zone as exposed in the crosscut then should be explored by drifting in a southerly direction. The extent of the drifting would be determined by the conditions encountered.

R. L. Bolmer

R. L. Bolmer

E. M. Hirschman

E. M. Hirschman

RLB/mr
cc: 9
Idaho-2854
Shrum

Revis and Revis
Docket DMEA 3678 (Uranium)
Contract IDM-E 854

Mr. John F. Shaw
U. S. Bureau of Mines,
Room 137, Building 20,
Denver Federal Center,
Denver 2, Colorado.

DMEA
Dor ...

JUN 20 1956

BUREAU OF MINES
Denver, Colorado

RECEIVED
JUN 14 1956
Div. of Mineral Technology
BUREAU OF MINES
Denver Experiment Station
Denver, Colorado

Dear Sir,

We have completed the first stage of our Contract 3678 IDM-E 854.

We are now sinking approximately another ten feet to put a station in for a tunnel and a sump hole for the water. On the northeast corner of the shaft we are now hitting what appears to be a granite rock formation. In sinking ten more feet, we can determine if we are at the edge of the fault. Then we want to drive a tunnel approximately thirty feet to the south to try and hit the vein that dipped off at about twenty-five feet, also to try and determine how wide the fault is.

We request the field team engineers to imspect this proposed work.

Very Truly Yours,

Kenneth J. Revis

Kenneth J. Revis

H. L. Revis

H. L. Revis

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

224 New Customhouse
Denver 2, Colorado

June 28, 1956

Messrs. Kenneth J. Revis and H. L. Revis
Sportsman's Lodge
Bellview, Colorado

Re: Docket DMEA 3478 (Uranium)
Contract Idm-E854

Gentlemen:

Reference is made to your undated letter to Mr. John F. Shaw, Bureau of Mines, Denver Federal Center, wherein you request the Government's approval for the performance of certain work under Stage II of Contract Idm-E854.

This letter constitutes confirmation of verbal approval by the Government for you to sink the shaft an additional 10 feet from that authorized under Stage I in order to provide a sump. In addition, the following crosscutting and drifting are approved:

1. Crosscut westerly from 68 foot depth in the shaft to expose the hanging wall of the shear zone or not to exceed a distance of 30 feet.

2. At the most favorable point in the crosscut, driven under item 1 above, drift southerly in the shear zone. The extent of drifting southerly will depend upon conditions encountered as the work progresses and must be acceptable to the Government.

In no case will the aggregate crosscutting and drifting performed under items 1 and 2 exceed 100 feet.

Nothing in this work approval shall be construed to increase the estimated total cost of the project, the aggregate amount which the Government may be required to contribute, nor the fixed unit cost of any item of work.

Very truly yours,

DMEA Field Team, Region III

W. M. Traver

W. M. Traver

E. N. Harshman

E. N. Harshman

JWT:jy

cc: Chair. Op. Comm. (4)
Finance Office, Reg. III
Amend. File, Reg. III
Corresp. File E854
Harshman
Shaw
Townsend
Chron.

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

RECEIVED
JUN 28 1956

224 New Customhouse
Denver 2, Colorado

June 28, 1956

Messrs. Kenneth J. Revis and M. L. Revis
Sportsman's Lodge
Bellview, Colorado

Re: Docket DMEA 3678 (Uranium)
Contract Idm-E154

Gentlemen:

Reference is made to your undated letter to Mr. John F. Shaw, Bureau of Mines, Denver Federal Center, wherein you request the Government's approval for the performance of certain work under Stage II of Contract Idm-E154.

This letter constitutes confirmation of verbal approval by the Government for you to sink the shaft an additional 10 feet from that authorized under Stage I in order to provide a sump. In addition, the following crosscutting and drifting are approved:

1. Crosscut westerly from 68 feet depth in the shaft to expose the hanging wall of the sheer zone or not to exceed a distance of 30 feet.

2. At the most favorable point in the crosscut, driven under item 1 above, drift southerly in the sheer zone. The extent of drifting southerly will depend upon conditions encountered as the work progresses and must be acceptable to the Government.

In no case will the aggregate crosscutting and drifting performed under items 1 and 2 exceed 100 feet.

Nothing in this work approval shall be construed to increase the estimated total cost of the project, the aggregate amount which the Government may be required to contribute, nor the fixed unit cost of any item of work.

Very truly yours,

DMEA Field Team, Region III

W. M. Traver

E. N. Harshman

JWTsjy
cc: Chair. Op. Comm. (4)
Finance Office, Reg. III
Amend. File, Reg. III
Corresp. File E854
Harshman
Shaw
Townsend
Chron.

DMEA
Date Rec'd

JUN 20 1956

BUREAU OF MINES
Denver, Colorado

REGION III

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

Memorandum

To: Executive Officer, DMEA Field Team, Region III

Through: John F. Shaw

From: R. L. Palmer
R. E. Marshman

Subject: DMEA 3675 (Uranium) Contract 14s-8894, Davis and Davis, (Spring claim group) Larimer County, Colorado -- Recommendations regarding the continuance of project work under Stage II of the contract

The operator under the subject contract has completed Stage I of the authorized project and has requested Government approval to start Stage II.

The 90 feet of shaft sinking completed under Stage I of the project revealed intermittent ore-grade uranium mineralization within a north-south trending shear zone. The results of the Stage I work are sufficiently encouraging to warrant some additional exploration of the deposit.

Deeper exploration of the zone, as presently provided under Stage II of the project, probably is not warranted until the mineral content across the full width of the zone and along more of its length has been determined. The shaft was collared in a surface cut on a steep hillside. The overburden on the slope is heavy and the zone does not outcrop. The shaft presently is sunk 68 feet below its collar and about 90 feet below the original surface. Any lateral exploration of the deposit south or west from the shaft would rapidly increase this cover.

The most continuous and promising occurrence of uranium encountered to date was confined to a 10- to 15-inch vein within the shear zone. At a depth of 18 feet below the collar, this vein crossed diagonally through the center sections of the shaft. It dipped outside the western limits of the excavation at a depth of some 36 feet. At the present depth, the downward projection of this vein should lie some 20 to 25 feet west of the shaft. At the present depth, the rock encountered in the eastern corner of the shaft is harder and less broken up. It is probable that the shaft is approaching the true footwall of the shear zone.

It is recommended that the operator be granted permission to continue project exploration of the deposit in the manner outlined below.

Inasmuch as the shear zone contains appreciable amounts of water, the shaft should be sunk an additional 10 feet or to a total depth of 78 feet below its collar so as to provide an adequate sump for the lateral exploration headings. This additional depth also may determine the location of the true footwall of the zone. From the presently completed 68-foot depth of the shaft, a crosscut should be driven westerly an estimated 25 to 30 feet to the true hanging wall of the zone. The most favorable section of the zone as exposed in the crosscut then should be explored by drifting in a southerly direction. The extent of the drifting would be determined by the conditions encountered.

R. L. Bolmer

R. L. Bolmer

E. M. Hawkins

E. M. Hawkins

RLB/mr
cc: 9
Idm-2834
Green

Rev[illegible] and Revis
Docket DMEA 3678 (Uranium)
Contract IDM-E 854

Mr. John F. Shaw
U. S. Bureau of Mines,
Room 137, Building 20,
Denver Federal Center,
Denver 2, Colorado.

RECEIVED
JUN 23 1956

Dear Sir,

We have completed the first stage of our Contract 3678 IDM-E 854.

We are now sinking approximately another ten feet to put a station in for a tunnel and a sump hole for the water. On the northeast corner of the shaft we are now hitting what appears to be a granite rock formation. In sinking ten more feet, we can determine if we are at the edge of the fault. Then we want to drive a tunnel approximately thirty feet to the south to try and hit the vein that dipped off at about twenty-five feet, also to try and determine how wide the fault is.

We request the field team engineers to inspect this proposed work.

Very Truly Yours,

Kenneth J. Revis

Kenneth J. Revis

H. L. Revis

H. L. Revis

3678

Longmont, Colo
Mar. 1, 1956

Mr C.O. Mittendorf, Adm.
Defense Minerals Exp. Adm.
Washington 25, D.C.

DMEA-3678

RECEIVED
MAR - 5 1956

Dear Sir:

I was told today at the D.M.E.A. Office here in Denver, to write you for permission to get the information on the Revis & Revis property located in Larimer Co. Colo. In Sec. 14, T8N, R75W. The claims are called the Spring Claim Group. (3).

I filed a letter today at the A.E.C. out at Federal Center, Denver Bldg 40. with Mr. Grossman. Signed by Mr. Revis. to give me the information as his agent.

I hope to hear from you soon

Thanks
Earl E Lewis
28 Knox, ave
Longmont, Colo.

Surname copy

700

Ching
Ellis
Mittendorf

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

MAR 7 1956

Mr. Earl E. Lewis
28 Knox Avenue
Longmont, Colorado

Re: Docket No. DMEA-3678 (Uranium)
Revis and Revis
Spring Claim Group
Larimer County, Colorado

Dear Mr. Lewis:

Reference is made to your letter of March 1, 1956, regarding permission to obtain information on the subject property.

Since you did not state the nature of the information desired and did not enclose a copy of Mr. Revis' letter, we are unable to make a decision on the matter.

We assume that you are seeking certain information that is available to the Government. If such information is also available to Revis and Revis, we would expect you to get it from them. If it is not available to them, we would not be in a position to make it available to you. On the other hand, if you are seeking corroboration of information furnished you by Revis and Revis, we shall be pleased to consider your request upon receipt of the proper authorization from Revis and Revis and a description of the information desired.

Sincerely yours,

C. O. Mittendorf

Administrator

MChing/gla
3-7-56
cc to: Admr.'s Reading File
Docket
Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA
Code 700
Mr. Ching
DMEA Field Team, Region III (2) w/2 cc incoming letter

R.C.G.

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

RECEIVED JAN 3 1956

224 New Customhouse
Denver 2, Colorado

December 29, 1955

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-3678 (Uranium), Contract Idm-E854
Revis and Revis, Larimer County, Colorado

Enclosed are the original and two copies of Amendment No. 1 to Contract Idm-E854, which has been executed, authorizing suspension of operations, extending the time fixed for the completion of the project work, and extending the period for the payment of royalties. Also enclosed are four sets of data relative to the amendment.

Copies of the amendment have been given to the Operator, the Finance Office, Region III, and distributed to other offices concerned.

W. M. Traver

Encls.

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

224 New Customhouse
Denver 2, Colorado

November 8, 1955

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-3678 (Uranium), Contract Idm-E854, Revis and Revis, Spring Claim Group, Larimer County, Colorado - Change of Address

Enclosed are the original and two copies of an undated letter received November 7, 1955 from H. L. Revis requesting that the address for the partnership of Kenneth J. and H. L. Revis be changed. We have changed our records to comply with the request.

W. M. Traver

By J. W. Townsend

Enclosures

Kennt[illegible]J. Revis & H. L. Revis
Sportsman's Lodge,
Bellvue,
Colorado.

DMEA
Date Rec'd.

NOV 7 1955

BUREAU OF MINES
Denver, Colorado

RECEIVED
NOV 10 1955

W. M. Traver
Executive Officer, DMTA
Field Team, Region III

J. W. Townsend
Dear Sir:

In reciept of your letter we wish to request a change of address from Jamestown Star Route, Boulder, Colo., to Sportsman's Lodge, Bellvue, Colo.

Thank You,
Sincerely yours,

By H. L. Revis
H. L. Revis Partner

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

224 New Customhouse
Denver 2, Colorado

October 31, 1955

RECEIVED
NOV - 2 1955

Kenneth J. and H. L. Revis
Sportsmans Lodge
Bellview, Colorado

Re: Docket DMEA-3678 (Uranium) Contract Idm-E854, Larimer County, Colorado

Gentlemen:

A check in payment for work performed during September under Contract Idm-E854 will be mailed to you at the above address. If you want all subsequent checks mailed to the Bellview address, please send a short letter to this office requesting the change. Otherwise, the checks will be sent to Boulder, at the address shown on the contract form.

Also, in preparing monthly reports, please in the future sign all copies of your Narrative Report which accompanies the Forms MF-104 and MF-104A.

Yours very truly,

W. M. Traver
Executive Officer, DMEA
Field Team, Region III

By J. W. Townsend
J. W. Townsend

JDC:jy
cc: Corresp. File E854
Sec. Op. Comm. (2)
Shaw (2)
Chron.

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

224 New Customhouse
Denver 2, Colorado

CERTIFIED MAIL

September 6, 1955

Memorandum

To: Chairman to the Operating Committee

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 3678 (Uranium), Contract Idm-E854, Revis and Revis (Lady Cora Helen and Spring Nos. 1 & 2 claims) Larimer County, Colorado.

Enclosed herewith are the Government, Division, and Docket copies of the subject contract properly executed by the contractor. The contract copies were transmitted to us for signature by your letter of August 11, 1955, forwarded to the Operator for signature by us August 16, and received signed in this office September 1.

The Operator's copy has been sent to him, a copy furnished the Finance Officer, Region III, distribution made to the field offices involved and a copy is being retained in our files.

W. M. Traver

UNITED STATES DEPARTMENT OF THE INTERIOR

224 New Customhouse
Denver 2, Colorado

September 6, 1955

Kenneth J. Revis
H. L. Revis
Jamestown Star Route
Boulder, Colorado

Re: Docket DMEA-3678 (Uranium)
Contract Idm-8854

Gentlemen:

Enclosed herewith is the Operator's Short-Form copy of Exploration Project Contract No. Idm-8854, Docket DMEA-3678.

Also enclosed are six copies of Form MF-104, "Operator's Monthly Report and Voucher" and six copies of Form MF-104A, "Operator's Unit Cost and Progress Report." At the completion of the first calendar month of operation and monthly thereafter you are required to submit five copies of the form to Mr. John F. Shaw, U. S. Bureau of Mines, Room 137, Building 20, Denver Federal Center, Denver 2, Colorado. The sixth form is for your records.

Please note that the monthly report requires a narrative report which should be accompanied by maps or sketches. The narrative report must be signed by the operator. The monthly report will not be processed for payment unless accompanied by a narrative report. Additional copies of Forms MF-104 and MF-104A will be forwarded to you as required.

For your information and in reply to many questions that have been asked, after forms MF-104 and MF-104A are received an engineer will check progress and approve your accounts, after which it will be sent to the Regional Office, Region III, U. S. Bureau of Mines, 224 New Customhouse, Denver 2, Colorado, for auditing and vouchering. If the report is in order, a check will be issued by the Treasury Department for the Government's portion of the costs. If you have any difficulty in completing these forms and the reports, please call on Mr. Shaw or this office for assistance.

Your attention is directed to the provision that Stage II work is contingent on the results obtained from Stage I and performance of the work under Stage II is subject to the prior approval of the Government.

When Stage I has been completed you should request approval from this office of the work you propose to perform under the next stage. Your request for the work approval must be in sextuplet, complete with a map showing the work performed under Stage I, the work proposed under Stage II and the results of the work performed under Stage I, including assay returns and any other pertinent data which will be of value to the Government in evaluating the work performed under Stage I. You should anticipate a suspension of operations between stages of work to enable the Government geologist and engineer to evaluate the results of the work performed and make their recommendations to this office relative to the additional work you propose.

To eliminate as much delay as possible, if that is of serious consideration, you should expedite forwarding of the results of the work completed and your request for the Government's approval of the additional work you propose.

Field representatives of the Government are not authorized to approve any changes in the work program or contract provisions. Such approval can only be given by the Washington office, DMEA or the DMEA Field Team, Region III which is comprised of [illegible] Harshman, [illegible] Geological Survey member and W. W. Traver, U. S. Bureau of Mines member.

No oral statement of any person shall modify or otherwise affect the terms or conditions of this contract.

It is a regulation that reimbursement for the cost of work accomplished prior to the date of the contract will not be allowed. It is understood you are starting work immediately and have so notified Mr. Shaw verbally. Therefore, we are entering the date September 15, 1955 as the date on or before which work shall commence in Article 3 of all copies of the contract.

Very truly yours,

W. W. Traver

W. W. Traver
Executive Officer, DMEA
Field Team, Region III

Enclosures

WWT:jy

cc: Correspondence File 8854
Chron.
Amendemtnt File 8854
Chairman Op. Comm. (2)
Shaw (2)
Harshman
Townsend

700

Surname copy

Ching
Ellis
Martin
Hedrick

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

AUG 11 1955

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

Re: Docket No. DMEA-3678 (Uranium)
Revis and Revis
Spring Claim Group
Larimer County, Colorado

Dear Mr. Traver:

Enclosed are the original and five copies of a proposed short-form contract between the Government and the subject Operator, signed by the Administrator.

If you find the contract in order, it is ready for forwarding to the Operator for signature, subject to the insertion of a suitable final starting date under Article 3.

Sincerely yours,

cal

W. S. Martin
ACTING Chairman, Operating Committee (JB)

Enclosures

APPROVED:

O. M. Bishop (JB)
Member, Bureau of Mines

(s) W. P. Williams
Member, Geological Survey (JB)

MChing/gla
8-9-55

cc to: Admr.'s Reading File
Operating Committee
Docket
Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA
Code 700
Mr. Ching

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

224 New Customhouse
Denver 2, Colorado

July 7, 1955

RECEIVED
JUL 11 1955

Mr. Kenneth J. Revis
Mr. H. L. Revis
Jamestown Star Route
Boulder, Colorado

Re: Docket DMEA-3678

Gentlemen:

Enclosed are six copies of form MF-203, Owner's Consent to Lien.

Will you please have the owners of the Lady Cora Helen, Spring No. 1 and Spring No. 2 sign all copies and return them to this office so that we may continue to process your application.

Very truly yours,

W. M. Traver

W. M. Traver
Executive Officer, DMEA
Field Team, Region III

Enclosures

HMC:sr

cc Chairman Op. Comm. (2)
Subject
Chron

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

224 New Customhouse
Denver 2, Colorado

July 7, 1955

RECEIVED
JUL 11 1955

Mr. Kenneth J. Revis
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Jamestown Star Route
Boulder, Colorado

Re: Docket DMEA-3678

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Very truly yours,

W. M. Traver

W. M. Traver
Executive Officer, DMEA
Field Team, Region III

Enclosures

HMC:sr

cc Chairman Op. Comm. (2)
Subject
Chron

7/26/55 gla

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

RECEIVED
JUL 26 1955

July 26, 1955

Memorandum

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

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

Subject: Report of Examination, DMEA Docket 3678, Revis and Revis, Spring claim group, Larimer County, Colorado

I have reviewed the Field Team report of examination, Revis and Revis, DMEA Docket 3678; and I have discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

We concur with the Field Team that a contract be prepared on an agreed unit cost basis or actual costs with maximum allowable unit costs.

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

John E Crawford
John E. Crawford

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

RECEIVED
JUL 26 1955

July 26, 1955

Memorandum

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

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

Subject: Report of Examination, DMEA Docket 3678, Revis and Revis, Spring claim group, Larimer County, Colorado

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John E. Crawford

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

RECEIVED
JUL 26 1955

July 26, 1955

Memorandum

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

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

Subject: Report of Examination, DMEA Docket 3678, Revis and Revis, Spring claim group, Larimer County, Colorado

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We concur with the Field Team that a contract be prepared on an agreed unit cost basis or actual costs with maximum allowable unit costs.

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

John E. Crawford

7/27/55 gla

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

RECEIVED
JUL 27 1955

224 New Customhouse
Denver 2, Colorado

July 25, 1955

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Owner's Consent to Lien, Form MF-203, Docket DMEA-3678 (Uranium), Revis and Revis (Spring claim group), Larimer County, Colorado

Enclosed are the original and six signed copies of Owner's Consent to Lien which we requested from the applicant and mentioned in our memorandum to you of July 8, 1955.

W. M. Traver

W. M. Traver

Enclosures

RECEIVED
JUL 27 1955
GENERAL COUNSEL
DEFENSE MINERALS
ADMINISTRATION

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

RECEIVED
JUL 27 1955

224 New Customhouse
Denver 2, Colorado

July 25, 1955

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Owner's Consent to Lien, Form MF-203, Docket DMEA-3678 (Uranium), Revis and Revis (Spring claim group), Larimer County, Colorado

Enclosed are the original and six signed copies of Owner's Consent to Lien which we requested from the applicant and mentioned in our memorandum to you of July 8, 1955.

W. M. Traver

W. M. Traver

Enclosures

Ching
Ellis

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

July 21, 1955

Memorandum

To: The Files

From: Michael Ching, Mining Engineer
Rare and Miscellaneous Metals Division

Subject: Project Costs
Docket No. DMEA-3678 (Uranium)
Spring Claim Group
Larimer County, Colorado

Estimated costs under the proposed contract are based upon the figures in Table I of the Field Team Report of Examination. Those figures have been followed rather closely except for the following points:

(1) Labor and timber costs for drift timbering have been deleted from the overall cost of drifting and shown as a separate item of $4.00 per foot of drift actually timbered.

(2) Depreciation of owned equipment has been reduced somewhat for both sinking and drifting because of the limited requirements for a bulldozer and heavy truck in connection with those operations.

(3) The cost of explosives for shaft sinking was reduced from $637.00 to $525.00.

(4) The cost of fuel and lubricants for shaft sinking was reduced from $800.00 to $600.00.

(5) The resulting unit costs were rounded out to $75.00 per foot for shaft sinking, including timbering, and $31.00 for drifting exclusive of timbering.

The costs as modified are reasonable when consideration is given to the high elevation (9,000 feet) and accompanying severe winters, lack of skilled mining labor in the area, and the fact that the sinking and drifting will be done in granite. Accordingly, a short form unit cost contract appears to be most suitable in this case, especially since most of the work will be done by the two partners.

Michael Ching
Michael Ching

Surname 700

Ching
Ellis

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

July 21, 1955

Memorandum

To: Acting Assistant Solicitor, DMEA

From: Michael Ching, Mining Engineer
Rare and Miscellaneous Metals Division

Subject: Docket No. DMEA-3678 (Uranium)
Kenneth J. Revis and H. L. Revis
Spring Claim Group
Larimer County, Colorado

Will you kindly prepare a short form contract between the Government and the subject Applicant in accordance with the attached draft.

The Field Team has advised that an Owner's Consent to Lien has been requested of the Applicant and will be forwarded to this office as soon as available.

Michael Ching

Attachment

MChing:am
7-21-55
cc to: Docket
Code 700
Mr. Ching

DRAFT
MChing:am
7-21-55

ANNEX I

The land referred to in Article 2 of the contract consists of three unpatented lode mining claims, Lady Cora Helen, Spring No. 1 and Spring No. 2, situated in Sections 10, 11, 14 and 15, T. 8N., R. 75W., 6th P.M., Larimer County, Colorado. The location certificates are recorded in the office of the County Clerk in Book 978 at pages 24, 25 and 26.

The claims are shown on the attached map entitled "Figure 2 - Map of the Spring Claim Group, Larimer County, Colorado".

DRAFT
MChing:am
7-21-55

EXHIBIT "A"

Description of the Work

The work consists of exploration by shaft sinking and drifting to test a steeply dipping, uranium-bearing shear zone in granite. It is tentatively indicated on the attached map entitled "Figure 3 - Plan and Section of Spring No. 1 Shaft ... ."

The work shall be done in two stages. If, in the opinion of the Government, the results of the first stage warrant further work the Operator shall perform as much of the second stage as the Government approves in writing in advance.

The location, inclination, direction, and extent of all project work are subject to the approval of the Government.

Stage I

The work under this stage consists of two phases:

(1) Prepare site and surface plant at collar of existing ~~project~~ prospect shaft on Spring No. 1 claim. This work includes constructing a 10 foot by 20 foot frame building, installing hoist, compressor, and other equipment, constructing a suitable headframe and facilities for waste rock disposal, and making such other preparations as are necessary to ~~draft~~ shaft sinking.

(2) Sink a 2-compartment shaft from the bottom of the existing prospect shaft for a distance of 50 feet along the dip of the mineralized shear zone. The shaft shall have a minimum cross section inside the timbers of 4 feet by 8 feet. Take representative samples as the work progresses and have them analyzed chemically for uranium and vanadium.

Stage II

Sink the shaft an additional 50 feet along the shear zone or vein and drift along the vein from the shaft a distance of 100 feet. The elevation at which the drifting is to begin from the shaft, and the direction, will be dependent upon conditions exposed by the preceding work. The drift shall be timbered where necessary and have a minimum cross section of 5 feet by 7 feet in the clear of timbers. Take representative samples as the work progresses and have them analyzed chemically for uranium and vanadium.

Estimated Cost of the Project

Fixed Unit Costs

Stage I

Preparation of surface site and plant (All work covered by the preceding description under phase (1) shall be considered as a single unit of work)	$950.00	
50 ft. shaft sinking @ $75.00/ft. (Includes timbering)	3,750.00	
7 Chemical sample analyses @ $5.00/sample	35.00	
		$4,735.00

Stage II

50 ft. shaft sincking @ $75.00/ft. (Includes timbering)	$3,750.00	
100 ft. drifting @ $31.00/ft.	3,100.00	
35 ft. drift timbering @ $4.00/ft.	140.00	
15 Chemical sample analyses @ $5.00/sample	75.00	
		$7,065.00
Estimated total cost of the project		$11,800.00
Government participation @ 75 percent		$8,850.00

MF-200A
(Revised June 1954)

Docket No. DMEA 3678

Commodity Uranium

Contract No. Idm-E

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
EXPLORATION PROJECT CONTRACT[1]
(Short Form)

It is agreed this ..... day of ....., 195...., between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and [2] .....

Kenneth J. Revis and H. L. Revis

, whose mailing address is Jamestown Star Route
Boulder, Colorado
, hereinafter called the "Operator," as follows:

ARTICLE 1. *This contract* is entered into under the authority of the Defense Production Act of 1950, as amended. It consists of this form (MF-200A), the attached Exhibit "A," Annex I, and two maps, Figures 2 and 3.

The Operator shall not transfer or assign this contract or any right thereunder without the written consent of the Government.

ARTICLE 2. *Operator's property rights.*—(a) The land which is the subject of this contract (hereinafter called "the land") is in the State of Colorado, County of Larimer, and is described in Annex I.[3]

(b) The Operator represents and undertakes that:

(1) The Operator is the [4] Lessee of [5] the mineral rights in the land, in possession and entitled to possession for all of the purposes of this contract, under and by virtue of a [6] Lease, [7] ..... recorded in Book ....., page ....., official records of said County; and

(2) The Operator's right, title, or interest (whether as owner, lessee, or otherwise) is subject only to the following claims, liens, or encumbrances: .....

(c) The Subordination Agreement of the holder of any claim, lien, or encumbrance listed above, and (if the Operator does not hold the legal title) the Consent to Lien of any holder of the legal title of the land (lessor, seller, optionor, etc.), are attached, as follows: .....

[1] If sufficient space is not provided in any blank, use an extra sheet of paper and refer to it in the blank.
[2] Insert name, and if an organization, its nature (corporation and place of incorporation, partnership with names of partners, etc.).
[3] State on a separate sheet marked "Annex I" the legal description or enough to identify the property, particularly excluding any areas from which the production is not to be subject to the Government's percentage royalty.
[4] Insert "owner," "lessee," "contract purchaser," "locator," etc.
[5] Insert "the entire interest," "the mineral rights," "an undivided one-third," etc.
[6] Insert "deed," "lease," "contract," "location notice," "patent," etc.
[7] If not recorded, so indicate by inserting "un."

(d) The Operator shall preserve and maintain his right, title, and interest in the land and his right to the possession thereof for the purposes of this contract, and shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of this contract. Until the lapse of the time within which the Government may make a certification of discovery or development without any such certification having been made, and after any such certification has been made, the Operator shall neither transfer, convey, nor surrender the land nor any right, title, or interest therein, nor permit nor suffer any claim, lien, or encumbrance thereon, without expressly referring to and providing in the instrument of conveyance, lien, or encumbrance for the preservation of the Government's right to a percentage royalty on production and lien for the payment thereof. If the Government makes no certification of discovery or development within the time limited in Article 7, it shall thereafter have no claim against the land or any production therefrom except for any production referred to in Article 7(b)(1).

ARTICLE 3. *The exploration project.*—The project is a search for indicated or undeveloped deposits of Uranium The work to be performed is described in Exhibit "A." The Operator on or before ..... shall commence the work, and on or before March 31, 1956 (unless the Operator's obligation to complete the work is terminated—see Article 8) shall complete the work.

ARTICLE 4. *Performance of the work.*—(a) *Operator's responsibility.*—The work shall be performed with reasonable diligence, efficiently, expertly, in a workmanlike manner, in accordance with good mining standards and State regulations for health and safety and for liability insurance covering employment; and with suitable and adequate equipment, facilities, materials, supplies, and labor, to bring it to completion within the time fixed.

(b) *Government may inspect.*—The Operator shall consult with and inform the Government on all phases of the work as it progresses. The Government may enter at all reasonable times to inspect the work under the contract, and also after a certification of discovery or development to inspect production operations and underground workings. The operator shall provide the Government with all reasonable means of access for such inspections.

ARTICLE 5. *Contribution by the Government.*—A fixed cost for each unit of work to be performed (per foot of drifting, per foot of drilling, per hour of operations, etc.) is hereby agreed upon, and is set forth in Exhibit "A" in connection with the estimated total cost of the project in the sum of $11,800.00 The Government will contribute 75 percent of the fixed unit costs as work is performed, in a total sum not in excess of $8,850.00: *Provided,* That until the Operator has rendered to the Government his final report, and any final auditing required by the Government has been made, and a final settlement of the contract has been made, the Government may withhold from the last voucher or vouchers such sums as it sees fit not in excess of 10 percent of the estimated total cost of the work. The Government will make its contribution on the basis of the monthly vouchers referred to in Article 6(b), but all payments by the Government are provisional only, subject to audit, until the account between the Operator and the Government is finally audited and settled. To the extent that excesses over fixed unit costs or any excess over the estimated total cost may be necessary for the performance of the work, the Operator shall incur and pay such excesses for his own account without contribution by the Government. The Government may make payments directly to independent contractors and suppliers for the account of the Operator rather than to the Operator.

ARTICLE 6. *Reports, accounts, audits.*—(a) *Operator's records.*—The Operator shall keep suitable records and accounts of the units of work performed and of any production in which the Government may have an interest; and shall preserve those with respect to work performed for at least three years after final payment by the Government, and those with respect to production for at least three years after any obligation to pay royalties to the Government has terminated. The Government may inspect and audit said records and accounts at any time, either by itself or by a certified public accountant. The Comptroller General of the United States or his representative, until the expiration of said three-year periods, shall have access to and the right to examine any pertinent books, documents, papers, and records of the Operator. All of the Operator's vouchers and records and accounts relating thereto and the Government's payments thereof remain subject to adjustment until final audit by the Government.

(b) *Progress reports and vouchers.*—The Operator shall provide the Government with five copies of monthly progress reports in three sections as follows: (1) Operator's Monthly Report and Voucher showing a detailed statement of units of work performed during the reporting period; (2) Operator's Unit Cost and Progress Report showing the various types of work performed during the reporting period and the fixed unit costs incurred for each type of work; and (3) a Narrative Report of the work

performed during the reporting period including adequate engineering-geological maps or sketches, drill hole logs and locations, and assay reports on samples taken concurrently with advance in mineralized ground. (Forms for reporting under (1) and (2) above will be provided by the Government.)

(c) *Final report.*—Upon completion of the work or termination of the Government's obligation to contribute to costs, the Operator shall furnish the Government with five copies of a final report (in addition to the final progress report and voucher). This final report shall include a geological and engineering evaluation of the results of the work performed under the contract with an estimate of the ore reserves resulting from such work, complete assay data, adequate geological and engineering maps or sketches, and a summary of the work performed and the unit costs thereof.

(d) *Report of sales.*—The Operator shall provide the Government with suitable accounting and documentary evidence covering all production to which the Government's percentage royalty relates, such as copies of smelter or concentrator settlement sheets, and certified accounts of production and sale or other disposition of production.

(e) *Compliance with requirements.*—If in the opinion of the Government any of the Operator's reports, records, or accounts are insufficient or incomplete, or if the Operator fails to make them, the Government may procure the making or completion of such with suitable attachments as an expense of the work to which the Operator shall contribute. The Government may withhold approval and payment of any vouchers relating to insufficient or incomplete reports, records or accounts.

ARTICLE 7. *Repayment by Operator.*—(a) *Certification.*—If the Government considers that a discovery or development from which production may be made has resulted from the work, the Government, at any time not later than six months after a sufficient final report and final account (see Article 6) has been rendered, may so certify in writing to the Operator. Such certification shall describe broadly or indicate the nature of the discovery or development.

(b) *Royalty on production.*—The Operator, as principal if the Operator is the producer, or as surety if the Operator is not the producer, shall pay to the Government a royalty on all minerals mined or produced from the land, as follows: (1) regardless of any certification of discovery or development, from the date of the contract until the lapse of the time within which the Government may make such certification, or until the total net amount contributed by the Government without interest is fully repaid, whichever occurs first; or (2) if the Government makes a certification of discovery or development, within a period of ten years from the date of the contract, or until the total net amount contributed by the Government without interest is fully repaid, whichever occurs first.

(c) *Basis for computation.*—The Government's royalty shall be a percentage of the gross proceeds (including any bonuses, premiums, allowances, or other benefits) from the production sold, in the form sold (ore, concentrates, metal, or equivalent), at the point of delivery (the f. o. b. point); *except,* that charges of *the buyer* arising in the regular course of business, and shown as deductions on the buyer's settlement sheets, on account of the cost of treatment processes performed by *the buyer,* sampling and assaying to determine the value of the production sold, and freight paid by *the buyer* to a carrier (not the Operator), shall be allowed as deductions in arriving at the "gross proceeds" as that term is used herein. Any costs of treatment processes, sampling or assaying, or transportation, performed or paid by the Operator or by anyone other than the buyer, are not deductible in arriving at the "gross proceeds" as that term is here used. The term "treatment processes," as here used, means those processes (such as milling, concentrating, smelting, refining, or equivalent) applied to the crude ore or other production after it is extracted from the ground, to put it into a commercially marketable form; excluding fabricating or manufacturing.

(d) *Unsold production.*—If any production (ore, concentrates, metal, or equivalent), after the lapse of six months from the date the ore was extracted from the ground, remains neither sold nor used by the Operator in integrated manufacturing or fabricating operations (for instance, if it is stockpiled), the Government, at its option, as long as it so remains, may require the computation and payment of its royalty on the value of such production in the form (ore, concentrates, metal, or equivalent) it is in when the Government elects to require computation and payment. If any production is used by the Operator in integrated manufacturing or fabricating operations before the Government makes its election, the Government's royalty on such production shall be computed on the value thereof in the form in which and at the time when it is so used. "Value" as here used means what is or would be gross income from mining operations for percentage depletion purposes in Federal income tax determination, or the market value, whichever is greater.

(e) *Percentages of royalty.*—The percentages of the Government's royalty shall be as follows:

One and one-half (1½) percent of amounts ("gross proceeds" or "value") not in excess of eight dollars ($8.00) per ton of production in the form in which sold, held, or used, plus one-half (½) percent for each additional full fifty cents ($0.50) by which such amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) percent of such amounts.

(For instance: the royalty on an amount of five dollars ($5.00) per ton would be one and one-half (1½) percent; on an amount of ten dollars ($10.00) per ton, three and one-half (3½) percent.)

(f) *Time for computation and payment.*—The Government's royalty shall be computed and paid currently upon each lot sold, held, or used in integrated operations, as the case may be, as above provided in this article.

(g) *Lien for payment.*—To secure the payment of its percentage royalty, there is hereby granted to the Government a lien upon the land or the Operator's interest in the land and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

(h) *Notice to purchasers.*—The Operator shall give notice of the Government's claim for royalty to any purchaser of the production, and shall authorize and direct such purchaser to pay the royalty directly to the Government and to furnish the Government with copies of the settlement sheets. If the records of any production and sales or other disposition of production, whether the production is by the Operator or by others, are not made available to the Government, the amount of the royalty may be estimated by the Administrator, Defense Minerals Exploration Administration, or his successor, and his estimate thereof shall be final and binding upon the Operator.

(i) *No obligation to produce.*—Nothing in this contract is to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any production operations.

(j) *Government not obligated to buy.*—Nothing in this contract shall be construed as imposing any obligation on the Government to purchase any minerals mined or produced from the land.

ARTICLE 8. *Termination of the Government's obligations.*—(a) If in the opinion of the Government operations at any time have failed to achieve anticipated results that indicate the probability of making a worthwhile discovery, and in the opinion of the Government further operations are not justified, the Government may give the Operator written notice thereof, and thereupon the Government shall be free of all obligation to pay on account of units of work not then performed, and the Operator shall be free of all further obligation to prosecute the work other than such as may be necessary and incidental to winding up, reporting, and accounting.

(b) If in the opinion of the Government the Operator is in any manner in default under the terms of the contract, the Government may give the Operator written notice of such default with a specification of reasonable time within which the default must be cured; and if the Operator fails to cure such default as required, thereupon the Government shall be relieved of all obligation to pay on account of units of work not performed when the notice was given, and the Operator shall be free of all obligation to prosecute the work other than such as may be necessary and incidental to winding up, reporting, and accounting. The remedy provided for the Government in this paragraph "(b)" is in addition to any other remedy provided in this contract, and in addition to any other remedy the law may provide for breach of contract.

(c) The giving of any notice by the Government under the provisions of this Article 8 shall not affect the Government's rights as provided for in the contract with respect to a percentage royalty, and such rights shall be fully preserved.

ARTICLE 9. *Notices to be given by the Government* may be delivered to the Operator, or may be sent by registered mail addressed to the Operator at his mailing address stated in this contract. If mailed, notices are deemed to have been delivered five days after the date of mailing.

ARTICLE 10. *Officials not to benefit.*—No member of or delegate to Congress or resident commissioner shall be admitted to any share or part of this contract or to any benefit that may arise therefrom; but this provision shall not be construed to extend to this contract if made with a corporation for its general benefit.

ARTICLE 11. *Changes and added provisions.*—

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

.....
(Operator)

By .....

By .....

.....

I, ..., certify that I am the ..... secretary of the corporation named as Operator herein; that ..... who signed this contract on behalf of the Operator, was then ..... of said corporation; that said contract was duly signed for and in behalf of said corporation by authority of its governing body, and is within the scope of its corporate powers.

.....

[CORPORATE SEAL]

U. S. GOVERNMENT PRINTING OFFICE 16—70618-1

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

July 21, 1955

Memorandum

To: The Files

From: Michael Ching, Mining Engineer
Rare and Miscellaneous Metals Division

Subject: Project Costs
Docket No. DMEA-3678 (Uranium)
Spring Claim Group
Larimer County, Colorado

Estimated costs under the proposed contract are based upon the figures in Table I of the Field Team Report of Examination. Those figures have been followed rather closely except for the following points:

(1) Labor and timber costs for drift timbering have been deleted from the overall cost of drifting and shown as a separate item of $4.00 per foot of drift actually timbered.

(2) Depreciation of owned equipment has been reduced somewhat for both sinking and drifting because of the limited requirements for a bulldozer and heavy truck in connection with those operations.

(3) The cost of explosives for shaft sinking was reduced from $637.00 to $525.00.

(4) The cost of fuel and lubricants for shaft sinking was reduced from $800.00 to $600.00.

(5) The resulting unit costs were rounded out to $75.00 per foot for shaft sinking, including timbering, and $31.00 for drifting exclusive of timbering.

The costs as modified are reasonable when consideration is given to the high elevation (9,000 feet) and accompanying severe winters, lack of skilled mining labor in the area, and the fact that the sinking and drifting will be done in granite. Accordingly, a short form unit cost contract appears to be most suitable in this case, especially since most of the work will be done by the two partners.

MChing:am
7-21-55
cc to: Admr. Reading File
Docket (original)
Code 700
Mr. Ching

Michael Ching

Docket

MF-200A
(Revised June 1954)

Docket No. DMEA 3678

Commodity Uranium

Contract No. Idm-E

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
EXPLORATION PROJECT CONTRACT[1]
(Short Form)

It is agreed this ..... day of ....., 195...., between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and [2] .....

Kenneth J. Revis and H. L. Revis

whose mailing address is Jamestown Star Route
Boulder, Colorado,
hereinafter called the "Operator," as follows:

ARTICLE 1. *This contract* is entered into under the authority of the Defense Production Act of 1950, as amended. It consists of this form (MF-200A), the attached Exhibit "A," Annex I, and two maps, Figures 2 and 3.

The Operator shall not transfer or assign this contract or any right thereunder without the written consent of the Government.

ARTICLE 2. *Operator's property rights.*—(a) The land which is the subject of this contract (hereinafter called "the land") is in the State of Colorado, County of Larimer, and is described in Annex I.[3]

(b) The Operator represents and undertakes that:

(1) The Operator is the [4] lessee of [5] the mineral rights in the land, in possession and entitled to possession for all of the purposes of this contract, under and by virtue of a [6] lease, [7] recorded in Book ....., page ....., official records of said County; and

(2) The Operator's right, title, or interest (whether as owner, lessee, or otherwise) is subject only to the following claims, liens, or encumbrances: .....

(c) The Subordination Agreement of the holder of any claim, lien, or encumbrance listed above, and (if the Operator does not hold the legal title) the Consent to Lien of any holder of the legal title of the land (lessor, seller, optionor, etc.), are attached, as follows: .....

[1] If sufficient space is not provided in any blank, use an extra sheet of paper and refer to it in the blank.
[2] Insert name, and if an organization, its nature (corporation and place of incorporation, partnership with names of partners, etc.).
[3] State on a separate sheet marked "Annex I" the legal description or enough to identify the property, particularly excluding any areas from which the production is not to be subject to the Government's percentage royalty.
[4] Insert "owner," "lessee," "contract purchaser," "locator," etc.
[5] Insert "the entire interest," "the mineral rights," "an undivided one-third," etc.
[6] Insert "deed," "lease," "contract," "location notice," "patent," etc.
[7] If not recorded, so indicate by inserting "un."

(d) The Operator shall preserve and maintain his right, title, and interest in the land and his right to the possession thereof for the purposes of this contract, and shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of this contract. Until the lapse of the time within which the Government may make a certification of discovery or development without any such certification having been made, and after any such certification has been made, the Operator shall neither transfer, convey, nor surrender the land nor any right, title, or interest therein, nor permit nor suffer any claim, lien, or encumbrance thereon, without expressly referring to and providing in the instrument of conveyance, lien, or encumbrance for the preservation of the Government's right to a percentage royalty on production and lien for the payment thereof. If the Government makes no certification of discovery or development within the time limited in Article 7, it shall thereafter have no claim against the land or any production therefrom except for any production referred to in Article 7(b)(1).

ARTICLE 3. *The exploration project.*—The project is a search for indicated or undeveloped deposits of Uranium The work to be performed is described in Exhibit "A." The Operator on or before ..... shall commence the work, and on or before March 31, 1956 (unless the Operator's obligation to complete the work is terminated—see Article 8) shall complete the work.

ARTICLE 4. *Performance of the work.*—(a) *Operator's responsibility.*—The work shall be performed with reasonable diligence, efficiently, expertly, in a workmanlike manner, in accordance with good mining standards and State regulations for health and safety and for liability insurance covering employment; and with suitable and adequate equipment, facilities, materials, supplies, and labor, to bring it to completion within the time fixed.

(b) *Government may inspect.*—The Operator shall consult with and inform the Government on all phases of the work as it progresses. The Government may enter at all reasonable times to inspect the work under the contract, and also after a certification of discovery or development to inspect production operations and underground workings. The operator shall provide the Government with all reasonable means of access for such inspections.

ARTICLE 5. *Contribution by the Government.*—A fixed cost for each unit of work to be performed (per foot of drifting, per foot of drilling, per hour of operations, etc.) is hereby agreed upon, and is set forth in Exhibit "A" in connection with the estimated total cost of the project in the sum of $11,800.00 The Government will contribute 75 percent of the fixed unit costs as work is performed, in a total sum not in excess of $8,850.00: *Provided,* That until the Operator has rendered to the Government his final report, and any final auditing required by the Government has been made, and a final settlement of the contract has been made, the Government may withhold from the last voucher or vouchers such sums as it sees fit not in excess of 10 percent of the estimated total cost of the work. The Government will make its contribution on the basis of the monthly vouchers referred to in Article 6(b), but all payments by the Government are provisional only, subject to audit, until the account between the Operator and the Government is finally audited and settled. To the extent that excesses over fixed unit costs or any excess over the estimated total cost may be necessary for the performance of the work, the Operator shall incur and pay such excesses for his own account without contribution by the Government. The Government may make payments directly to independent contractors and suppliers for the account of the Operator rather than to the Operator.

ARTICLE 6. *Reports, accounts, audits.*—(a) *Operator's records.*—The Operator shall keep suitable records and accounts of the units of work performed and of any production in which the Government may have an interest; and shall preserve those with respect to work performed for at least three years after final payment by the Government, and those with respect to production for at least three years after any obligation to pay royalties to the Government has terminated. The Government may inspect and audit said records and accounts at any time, either by itself or by a certified public accountant. The Comptroller General of the United States or his representative, until the expiration of said three-year periods, shall have access to and the right to examine any pertinent books, documents, papers, and records of the Operator. All of the Operator's vouchers and records and accounts relating thereto and the Government's payments thereof remain subject to adjustment until final audit by the Government.

(b) *Progress reports and vouchers.*—The Operator shall provide the Government with five copies of monthly progress reports in three sections as follows: (1) Operator's Monthly Report and Voucher showing a detailed statement of units of work performed during the reporting period; (2) Operator's Unit Cost and Progress Report showing the various types of work performed during the reporting period and the fixed unit costs incurred for each type of work; and (3) a Narrative Report of the work

performed during the reporting period including adequate engineering-geological maps or sketches, drill hole logs and locations, and assay reports on samples taken concurrently with advance in mineralized ground. (Forms for reporting under (1) and (2) above will be provided by the Government.)

(c) *Final report.*—Upon completion of the work or termination of the Government's obligation to contribute to costs, the Operator shall furnish the Government with five copies of a final report (in addition to the final progress report and voucher). This final report shall include a geological and engineering evaluation of the results of the work performed under the contract with an estimate of the ore reserves resulting from such work, complete assay data, adequate geological and engineering maps or sketches, and a summary of the work performed and the unit costs thereof.

(d) *Report of sales.*—The Operator shall provide the Government with suitable accounting and documentary evidence covering all production to which the Government's percentage royalty relates, such as copies of smelter or concentrator settlement sheets, and certified accounts of production and sale or other disposition of production.

(e) *Compliance with requirements.*—If in the opinion of the Government any of the Operator's reports, records, or accounts are insufficient or incomplete, or if the Operator fails to make them, the Government may procure the making or completion of such with suitable attachments as an expense of the work to which the Operator shall contribute. The Government may withhold approval and payment of any vouchers relating to insufficient or incomplete reports, records or accounts.

ARTICLE 7. *Repayment by Operator.*—(a) *Certification.*—If the Government considers that a discovery or development from which production may be made has resulted from the work, the Government, at any time not later than six months after a sufficient final report and final account (see Article 6) has been rendered, may so certify in writing to the Operator. Such certification shall describe broadly or indicate the nature of the discovery or development.

(b) *Royalty on production.*—The Operator, as principal if the Operator is the producer, or as surety if the Operator is not the producer, shall pay to the Government a royalty on all minerals mined or produced from the land, as follows: (1) regardless of any certification of discovery or development, from the date of the contract until the lapse of the time within which the Government may make such certification, or until the total net amount contributed by the Government without interest is fully repaid, whichever occurs first; or (2) if the Government makes a certification of discovery or development, within a period of ten years from the date of the contract, or until the total net amount contributed by the Government without interest is fully repaid, whichever occurs first.

(c) *Basis for computation.*—The Government's royalty shall be a percentage of the gross proceeds (including any bonuses, premiums, allowances, or other benefits) from the production sold, in the form sold (ore, concentrates, metal, or equivalent), at the point of delivery (the f. o. b. point); *except,* that charges of *the buyer* arising in the regular course of business, and shown as deductions on the buyer's settlement sheets, on account of the cost of treatment processes performed by *the buyer,* sampling and assaying to determine the value of the production sold, and freight paid by *the buyer* to a carrier (not the Operator), shall be allowed as deductions in arriving at the "gross proceeds" as that term is used herein. Any costs of treatment processes, sampling or assaying, or transportation, performed or paid by the Operator or by anyone other than the buyer, are not deductible in arriving at the "gross proceeds" as that term is here used. The term "treatment processes," as here used, means those processes (such as milling, concentrating, smelting, refining, or equivalent) applied to the crude ore or other production after it is extracted from the ground, to put it into a commercially marketable form; excluding fabricating or manufacturing.

(d) *Unsold production.*—If any production (ore, concentrates, metal, or equivalent), after the lapse of six months from the date the ore was extracted from the ground, remains neither sold nor used by the Operator in integrated manufacturing or fabricating operations (for instance, if it is stockpiled), the Government, at its option, as long as it so remains, may require the computation and payment of its royalty on the value of such production in the form (ore, concentrates, metal, or equivalent) it is in when the Government elects to require computation and payment. If any production is used by the Operator in integrated manufacturing or fabricating operations before the Government makes its election, the Government's royalty on such production shall be computed on the value thereof in the form in which and at the time when it is so used. "Value" as here used means what is or would be gross income from mining operations for percentage depletion purposes in Federal income tax determination, or the market value, whichever is greater.

(e) *Percentages of royalty.*—The percentages of the Government's royalty shall be as follows:

One and one-half (1½) percent of amounts ("gross proceeds" or "value") not in excess of eight dollars ($8.00) per ton of production in the form in which sold, held, or used, plus one-half (½) percent for each additional full fifty cents ($0.50) by which such amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) percent of such amounts.

(For instance: the royalty on an amount of five dollars ($5.00) per ton would be one and one-half (1½) percent; on an amount of ten dollars ($10.00) per ton, three and one-half (3½) percent.)

(f) *Time for computation and payment.*—The Government's royalty shall be computed and paid currently upon each lot sold, held, or used in integrated operations, as the case may be, as above provided in this article.

(g) *Lien for payment.*—To secure the payment of its percentage royalty, there is hereby granted to the Government a lien upon the land or the Operator's interest in the land and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

(h) *Notice to purchasers.*—The Operator shall give notice of the Government's claim for royalty to any purchaser of the production, and shall authorize and direct such purchaser to pay the royalty directly to the Government and to furnish the Government with copies of the settlement sheets. If the records of any production and sales or other disposition of production, whether the production is by the Operator or by others, are not made available to the Government, the amount of the royalty may be estimated by the Administrator, Defense Minerals Exploration Administration, or his successor, and his estimate thereof shall be final and binding upon the Operator.

(i) *No obligation to produce.*—Nothing in this contract is to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any production operations.

(j) *Government not obligated to buy.*—Nothing in this contract shall be construed as imposing any obligation on the Government to purchase any minerals mined or produced from the land.

ARTICLE 8. *Termination of the Government's obligations.*—(a) If in the opinion of the Government operations at any time have failed to achieve anticipated results that indicate the probability of making a worthwhile discovery, and in the opinion of the Government further operations are not justified, the Government may give the Operator written notice thereof, and thereupon the Government shall be free of all obligation to pay on account of units of work not then performed, and the Operator shall be free of all further obligation to prosecute the work other than such as may be necessary and incidental to winding up, reporting, and accounting.

(b) If in the opinion of the Government the Operator is in any manner in default under the terms of the contract, the Government may give the Operator written notice of such default with a specification of reasonable time within which the default must be cured; and if the Operator fails to cure such default as required, thereupon the Government shall be relieved of all obligation to pay on account of units of work not performed when the notice was given, and the Operator shall be free of all obligation to prosecute the work other than such as may be necessary and incidental to winding up, reporting, and accounting. The remedy provided for the Government in this paragraph "(b)" is in addition to any other remedy provided in this contract, and in addition to any other remedy the law may provide for breach of contract.

(c) The giving of any notice by the Government under the provisions of this Article 8 shall not affect the Government's rights as provided for in the contract with respect to a percentage royalty, and such rights shall be fully preserved.

ARTICLE 9. *Notices to be given by the Government* may be delivered to the Operator, or may be sent by registered mail addressed to the Operator at his mailing address stated in this contract. If mailed, notices are deemed to have been delivered five days after the date of mailing.

ARTICLE 10. *Officials not to benefit.*—No member of or delegate to Congress or resident commissioner shall be admitted to any share or part of this contract or to any benefit that may arise therefrom; but this provision shall not be construed to extend to this contract if made with a corporation for its general benefit.

ARTICLE 11. *Changes and added provisions.*—

Executed in sextuplicate the day and year first above written.

THE UNITED STATES OF AMERICA

.....
(Operator)

By .....

By .....

.....

I, ..., certify that I am the ..... secretary of the corporation named as Operator herein; that ..... who signed this contract on behalf of the Operator, was then ..... of said corporation; that said contract was duly signed for and in behalf of said corporation by authority of its governing body, and is within the scope of its corporate powers.

.....

[CORPORATE SEAL]

U. S. GOVERNMENT PRINTING OFFICE 16—70618-1

DRAFT
MChing:am
7-21-55

ANNEX I

The land referred to in Article 2 of the contract consists of three unpatented lode mining claims, Lady Cora Helen, Spring No. 1 and Spring No. 2, situated in Sections 10, 11, 14 and 15, T. 8N., R. 75W., 6th P.M., Larimer County, Colorado. The location certificates are recorded in the office of the County Clerk in Book 978 at pages 24, 25 and 26.

The claims are shown on the attached map entitled "Figure 2 - Map of the Spring Claim Group, Larimer County, Colorado".

DRAFT
MChing:am
7-21-55

EXHIBIT "A"

Description of the Work

The work consists of exploration by shaft sinking and drifting to test a steeply dipping, uranium-bearing shear zone in granite. It is tentatively indicated on the attached map entitled "Figure 3 - Plan and Section of Spring No. 1 Shaft ... ."

The work shall be done in two stages. If, in the opinion of the Government, the results of the first stage warrant further work the Operator shall perform as much of the second stage as the Government approves in writing in advance.

The location, inclination, direction, and extent of all project work are subject to the approval of the Government.

Stage I

The work under this stage consists of two phases:

(1) Prepare site and surface plant at collar of existing project shaft on Spring No. 1 claim. This work includes constructing a 10 foot by 20 foot frame building, installing hoist, compressor, and other equipment, constructing a suitable headframe and facilities for waste rock disposal, and making such other preparations as are necessary to draft sinking.

(2) Sink a 2-compartment shaft from the bottom of the existing prospect shaft for a distance of 50 feet along the dip of the mineralized shear zone. The shaft shall have a minimum cross section inside the timbers of 4 feet by 8 feet. Take representative samples as the work progresses and have them analyzed chemically for uranium and vanadium.

Stage II

Sink the shaft an additional 50 feet along the shear zone or vein and drift along the vein from the shaft a distance of 100 feet. the elevation at which the drifting is to begin from the shaft, and the direction, will be dependent upon conditions exposed by the preceding work. The drift shall be timbered where necessary and have a minimum cross section of 5 feet by 7 feet in the clear of timbers. Take representative samples as the work progresses and have them analyzed chemically for uranium and vanadium.

Estimated Cost of the Project

Fixed Unit Costs

Stage I

Preparation of surface site and plant (All work covered by the preceding description under phase (1) shall be considered as a single unit of work)	$950.00	
50 ft. shaft sinking @ $75.00/ft. (Includes timbering)	3,750.00	
7 Chemical sample analyses @ $5.00/sample	35.00	$4,735.00

Stage II

50 ft. shaft sincking @ $75.00/ft. (Includes timbering)	$3,750.00	
100 ft. drifting @ $31.00/ft.	3,100.00	
35 ft. drift timbering @ $4.00/ft.	140.00	
15 Chemical sample analyses @ $5.00/sample	75.00	$7,065.00
Estimated total cost of the project		$11,800.00
Government participation @ 75 percent		$8,850.00

7/20/55 gla

IN REPLY REFER TO:

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

RECEIVED
JUL 1 1955

July 18, 1955

Memorandum

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

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

Subject: Review of Field Team report, Spring Claim property, Larimer County, Colorado, DMEA Docket 3678 (Uranium).

A joint report by the Field Team on the cited application recommends approval of a rather limited project, the work to be in two stages and to aggregate 100 feet of drift. Total cost of the project is estimated at $12,250.00.

The proposed project appears to be warranted. Prospecting has discovered a radioactive vein with a noticeable uranium content. The structure appears to be strong and the possibility exists that it could contain appreciable amounts of uranium ore at depth.

The project recommended by the Field Team proposes logical exploration of the deposit and I recommend it be approved.

Thor H. Kiilsgaard

Thor H. Kiilsgaard

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Thor H. Kiilsgaard

THKiilsgaard:iml
G-7/18/55

cc: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
J. E. Crawford, 3641
J. O. Hosted, 3210

IN REPLY REFER TO:

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

RECEIVED
JUL 19 1955

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DMEA (3)
Docket file
J. E. Crawford, 3641
J. O. Hosted, 3210

IN REPLY REFER TO:

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

July 18, 1955

Memorandum

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

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

Subject: Review of Field Team report, Spring Claim property, Larimer County, Colorado, DMEA Docket 3678 (Uranium).

A joint report by the Field Team on the cited application recommends approval of a rather limited project, the work to be in two stages and to aggregate 100 feet of drift. Total cost of the project is estimated at $12,290.00.

The proposed project appears to be warranted. Prospecting has discovered a radioactive vein with a noticeable uranium content. The structure appears to be strong and the possibility exists that it could contain appreciable amounts of uranium ore at depth.

The project recommended by the Field Team proposes logical exploration of the deposit and I recommend it be approved.

Thor H. Kiilsgaard

THKiilsgaard:iml
G-7/18/55

cc: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
J. E. Crawford, 3641
J. O. Hosted, 3210

7/28/55 gla

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

224 New Customhouse
Denver 2, Colorado

July 8, 1955

RECEIVED
JUL 15 1955

Memorandum

To: Secretary to the Operating Committee, DMEA

From: DMEA Field Team, Region III

Subject: Joint Report of Examination, DMEA Docket 3678 (Uranium), Revis and Revis, Spring claim group, Larimer County, Colorado

Enclosed are the original and three copies of the report pertaining to the above application.

We conclude that a small amount of exploration is warranted and we recommend a two-stage project. The first stage should consist of sinking the shaft 50 feet in the shear zone. If the results of Stage I warrant additional exploration, Stage II would consist of sinking the shaft an additional 50 feet or drifting along the vein from the shaft for a total distance not to exceed 100 feet. The total estimated cost is $12,250.00.

We recommend that a contract be prepared on an agreed unit cost basis or actual costs with maximum allowable unit costs established. This would eliminate the necessity of having to liquidate any jointly owned property upon the completion of the contract.

Owner's Consent to Lien have been requested from the applicant and will be forwarded to you.

Nine extra copies of Figures 2 and 3 are attached for possible use in the contract.

DMEA Field Team, Region III

W. M. Traver

W. M. Traver

E. N. Harshman

E. N. Harshman

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
7-18-55
(date)

DMEA
Date Rec'd
JUL 7 1955
RECEIVED
JUL 8 1955
BUREAU OF MINES
Denver, Colorado

TRANSMITTED
JUL - 8 1955

Region III

Building 20, Room 137
Denver Federal Center
Denver 2, Colorado
July 6, 1955

Memorandum

To: Executive Officer, DMEA Field Team, Region III

From: John F. Shaw
E. N. Harshman

Subject: DMEA 3678, (Uranium) Spring claim group, Revis and Revis
Larimer County, Colorado

Enclosed are the original and eleven copies of a joint engineering and geologic report by R. L. Bolmer, mining engineer, Bureau of Mines and D. R. MacLaren, geologist, Geological Survey, covering docket DMEA 3678.

Revis and Revis requested exploration assistance in the amount of $14,529.42 to explore their property by sinking the 20-foot prospect shaft an additional 150 feet. The property was examined on May 16, 1955, by D. R. MacLaren of the Geological Survey and R. L. Bolmer of the Bureau of Mines.

A shallow prospect shaft had exposed uranium mineralization within a steeply dipping shear zone in granite. The examining team concluded that a small amount of work is warranted on the basis of this exposure. It is recommended that a two stage exploration project be approved. The first stage would consist of sinking the shaft 50 feet in the shear zone. If the results of Stage I warrant additional exploration, Stage II would be authorized and would consist of sinking the shaft an additional 50 feet or drifting along the vein from the shaft for a total distance not to exceed 100 feet. The estimated cost of the project is $12,250.00 and the amount of Government participation at 75 percent is $9,187.50.

John F. Shaw
John F. Shaw
Supervising Mining Engineer

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

Reviewed by
DMEA OPERATING COMMITTEE
7-18-55
(date)

Enclosures
cc 11
DMEA 3678

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA 3678

Spring Claim Group

Revis and Revis

Larimer County, Colorado

Uranium

Joint Engineering and Geologic Report

by

R. L. Bolmer, Mining Engineer
Bureau of Mines

D. R. MacLaren, Geologist
Geological Survey

June 28, 1955

Reviewed by
DMEA OPERATING COMMITTEE
7-18-55
(date)

DMEA 3678

SPRING CLAIM GROUP
REVIS AND REVIS
LARIMER COUNTY, COLORADO

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DMEA 3678
SPRING CLAIM GROUP
LARIMER COUNTY, COLORADO

INTRODUCTION

Kenneth J. Revis and H. L. Revis of Jamestown Star Route, Boulder, Colo., submitted an application for aid in an exploration project, pursuant to DMEA Order 1, under the Defense Production Act of 1950, as amended. The application, dated January 24, 1955, was assigned Docket No. DMEA 3678 and was forwarded to the DMEA Field Team, Region III for field examination and recommendations.

The applicants are lessees of certain mining property located in Larimer County, Colo. Prospecting and preliminary exploratory work by the applicants had uncovered a showing of uranium on the property. A shallow prospect shaft on the showing had exposed uranium mineralization (pitchblende and uraninite) within a steeply dipping shear zone in granite. Samples from the shaft had indicated that at least some portion of the mineralization within the zone approached or exceeded commercial concentrations. The applicants proposed to explore the occurrence farther by means of sinking the prospect shaft an additional 150 feet in depth along the shear zone. The work involved in the proposed project was estimated by the applicants to cost a total of $14,529.42.

The property and the deposit were examined by D. R. MacLaren of the Geological Survey and R. L. Bolmer of the Bureau of Mines on May 16, 1955. H. L. Revis, one of the applicants, was present during the examination. Earlier examination of the property had not been feasible due to weather conditions in the area.

This report is based on the results of the field examination and is prepared for the purpose of aiding the Field Team, and others concerned, in evaluating the applicants' request for exploration assistance.

ACKNOWLEDGEMENT

Personnel of the Denver Exploration Branch of the Atomic Energy Commission, who previously had inspected the property and sampled the deposit, were consulted regarding the proposed project. Their cooperation in furnishing sample records and other data on the property and in offering their opinion regarding the deposit is acknowledged.

LOCATION, TOPOGRAPHIC AND PHYSICAL FEATURES

The property is located in the NE 1/4 sec. 14 and NW 1/4 sec. 15, T. 8 N., R. 75 W., 6th P. M., Larimer County, Colo. (fig. 1). It is in the Chambers Lake Mining District in the Roosevelt National Forest some 9 miles north of Rocky Mountain National Park.

The property is accessible westerly from Fort Collins, Colo. via 9 miles of U. S. Highway 287 and 45 miles of State Highway 14 to Sportsman Lodge, a summer resort on the north bank of the Cache la Poudre River. The prospect shaft on the Spring No. 1 claim is one mile southwesterly from the lodge via an unimproved dirt road that crosses the river and passes through the Clarence Bliss ranch.

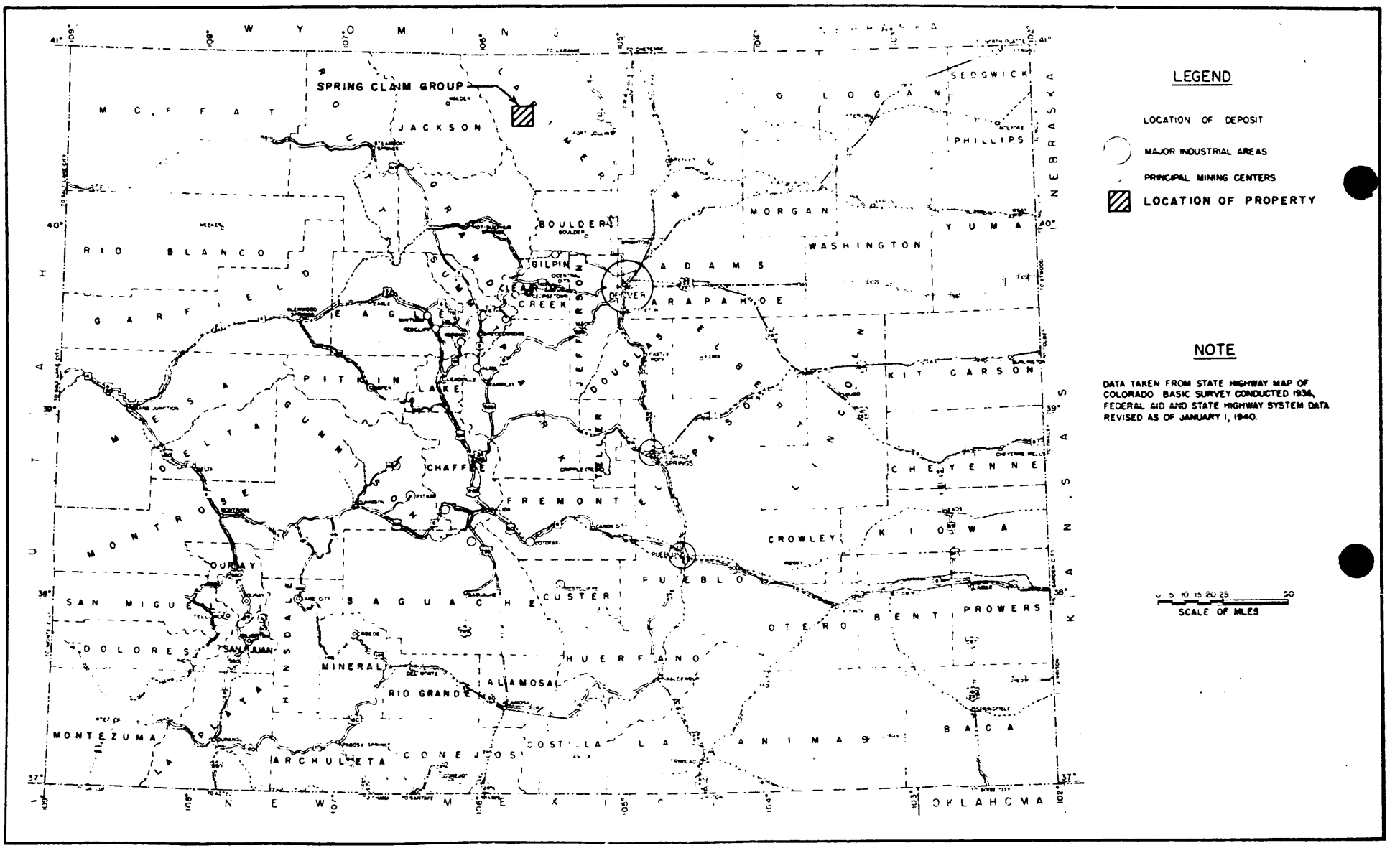

FIGURE 1 - LOCATION MAP OF SPRING CLAIM GROUP, LARIMER COUNTY, COLO. (REVIS & REVIS DMEA 3678)

The claims are located on the steep southern slope of the Poudre River Canyon. The prospect shaft is 3/4 mile south of, and some 1,000 feet higher than, the river at an elevation of approximately 9,000 feet above sea level. The elevation of the mountainous terrain in the vicinity of the property ranges between 8,000 feet in the Poudre Canyon to between 10,500 and 11,600 feet on the higher ridges. The area is characterized by a relatively flat rolling terrain at higher elevations which has been dissected by steep-walled canyons. The drainage of the immediate area is northerly into the Poudre river.

Winters in the area are severe at the higher elevations. The graveled State Highway 14 through the Poudre Canyon is at lower elevations. During the winter, it generally is cleared of snow to the portal of the Laramie-Poudre diversion tunnel, a few miles west of the access road at Sportsman Lodge. Although the property is covered with a heavy growth of timber, it is expected that most of the timber needed for project work will be purchased from local sawmills in the canyon. Water for mining purposes is available from several small streams that cross the property and from a permanent spring near the prospect shaft. Sufficient water for exploration purposes probably will be encountered in the underground workings. Although low-voltage electric power is transmitted through the canyon past the property, higher voltage lines terminate at the State Fish Hatchery in the Poudre Canyon some 6 miles east of the property. Their extension to the property for the purposes of the exploration project is not considered feasible.

Fort Collins, a city of 15,000 population and a shipping point on the Colorado & Southern and the Union Pacific Railroads, is the nearest commercial center. Heavy or specialized mining equipment can be secured in Denver, some 65 miles farther south. A spur of the Colorado & Southern Railroad passes through Bellvue, Colo., a community 6 miles northwest of Fort Collins and a trucking distance of about 49 miles from the property.

The property is not near the established mining centers and skilled labor for the project work probably would be in short supply, especially during the summer season.

HISTORY AND PRODUCTION

The deposit was discovered by S. L. Lindsey of Bellvue, Colo., and B. Lee Lindsey of Wheatland, Wyo., during a prospecting trip in the area. Radioactivity was detected in the water from a spring on the property and three claims covering the surrounding ground were located June 30, 1954.

The locators entered into a working agreement with the applicants on September 22, 1954. Under the agreement, the applicants were to prospect the property and to perform certain preliminary exploration on any indicated discovery to determine its general extent and value. In return and if the results of their work had disclosed valuable mineral deposits, the applicants would be granted a mining lease on the property.

The applicants commenced work at the property in October 1954. Two cuts were bulldozed in the overburden on the Spring No. 1 claim. In one cut, radioactivity was detected at a depth of about 6 feet and the weathered schist and overburden were stripped to a depth of some 25 feet. The work revealed a shear zone containing uranium mineralization which the applicants began to explore at greater depths by hand methods. A test pit on the zone was excavated to a depth of about 20 feet below the bulldozer cut. The overburden and weathered schist were soft and unconsolidated. The pit was cribbed to an 8- by 4-1/2-ft. cross section and the remainder of the excavation was backfilled to form a shaft. Since that time, the applicants have improved the access road to the shaft site and moved their heavier mining equipment to the property in preparation for the deepening of the shaft. Subsequent prospecting of the property disclosed an occurrence of autenite in granite outcropping at higher elevations on the Lady Cora Helen claim. To date, no exploration has been undertaken on this find.

The property has had no previous production of uranium ore or other minerals and metals. Between 15 and 20 tons of radioactive material, which was recovered at lower depths in the prospect shaft on the Spring No. 1 claim, presently is stockpiled on the surface near the shaft collar.

The applicants were granted a lease on the property beginning February 1, 1955. Their application for exploration assistance (Docket No. DMEA 3678) was dated January 24, 1955.

OWNERSHIP AND EXTENT

The property consists of three unpatented lode mining claims (fig. 2) identified as the Lady Cora Helen, Spring No. 1, and Spring No. 2. All are standard rectangular claims, 1,500 feet in length by 600 feet in width. The claims are contiguous and aggregate approximately 62 acres in total area.

The claims were located June 30, 1954. Their locations are recorded in the names of the locators, S. L. and B. Lee Lindsey, in Book 978 at pages 24, 25, and 26 in the Office of the County Clerk and Recorder, Fort Collins, Colo. The posting and staking of the property, as observed during the field examination, complied with the State requirements. The locations appear to have been made in good faith and apparently are valid.

The existing prospect shaft is on the Spring No. 1 claim some 500 feet in from its northwesterly end line and about 100 feet northeast of its centerline. All of the recommended exploration will occur within the boundaries of this claim.

The recorded locators of the claims have leased the property to Kenneth Revis and H. L. Revis, the applicants for exploration assistance. The lease, dated February 1, 1955, is for a period of 5 years or as long thereafter as ore may be commercially marketed from the property by the lessees. The lease provides for a sliding scale royalty payment to the lessors ranging from a minimum of 10 percent to a maximum of 20 percent on the net value of all ores marketed from the property. In the case

of uranium ore, the gross value of the marketed ore before deductions for freight and milling charges, is the basis for computing the lessors' royalty.

It is understood that the owners will consent to a lien on the property and are willing to subordinate their interests in the property to those of the Government as may be stipulated in any exploration project contract entered into with the applicants.

GEOLOGY AND DESCRIPTION OF DEPOSIT

Rocks in the area are Precambrian gneiss and schist of the Idaho Springs formation that have been intruded by Silver Plume granite, also of Precambrian age. Much of the Idaho Springs formation has been eroded and occurs as "islands" of gneiss and schist on the upper third of the hills and ridges, while the granite forms the lower land surface.

Abnormal radioactivity was first discovered about a spring at the base of a westerly trending ridge. Scintillometer readings in the vicinity of the spring reached a maximum of 2.0 MR/hr, the radiations apparently coming from a limonitic precipitation through which the spring flows. Two trenches were bulldozed along the side of the hill above the spring, the higher one exposing the contact between the gneiss and the intruding granite, and a highly radioactive shear zone. The shear zone is about 3 to 5 feet wide in the granite, but is very difficult to determine in the overlying gneiss. A few small flakes of autenite and an associated greenish, non-fluorescent, radioactive mineral, possibly

torbernite, were found in the gneiss, while in the granite a dark grey to black coating, identified by Jack Adams of the U. S. Geological Survey as sooty pitchblende was found along planes of shearing.

The applicants followed the shear zone to a depth of about 20 feet with a shaft which was cribbed to within about 5 feet of the bottom (see fig. 3). In the shaft the shear zone strikes S. 25° to 30° E. and dips about 75° SW. Within the shear zone there are several sets of cross fractures the strongest of which strikes N. 74° E. and dips 77° NW. Little clay has been developed along any of the shear planes and there probably has not been much displacement. Below the cribbing radioactivity up to 4 MR/hr was recorded. The source of radiation was found to be dark grey to black coatings of sooty pitchblende and hair-like vein fillings (uraninite?) along some of the planes of shearing and cross-fracturing. Samples taken in the shaft by representatives of the Atomic Energy Commission assayed as follows:

Sample No.	Width feet	% eU_3O_8	% U_3O_8	Description
F-32317	3.0	0.90		Granite, south side of shaft.
F -32318	grab	0.07		Joints in weathered granite.
F-32319	2.0	0.11		Alt. granite; 12 ft. below collar of shaft.
F-32320	2.0	0.078	0.13	Pegmatitic granite; 12 ft. below collar of shaft.

A check sample taken by the examiners from a highly radioactive portion of the shear zone at a depth of 18 feet below the collar of the shaft assayed:

Sample No.	Width feet	% eU_3O_8	% U_3O_8	Description
RLB-128	0.8-1.2		0.239	Granite; black radioactive material along fracture planes near FW of shear zone.

The applicants sent to the AEC at Denver an 80-pound bulk sample of material taken from the shaft. This sample assayed 0.21 percent U_3O_8.

PRESENT STATUS

The present exploration and development of the property consists of two bulldozer cuts and a 20-foot prospect shaft, all on the Spring No. 1 claim. The plan and section of the existing shaft are shown on figure 3. The shaft is cribbed tightly to a depth of 15 feet below the bottom of the bulldozer cut with 10-inch round logs laid skin-to-skin. The excavation outside the cribbing has been backfilled. The cross section of the shaft inside the cribbing is 8 by 4-1/2 feet. The shaft is inclined 84° towards the southwest.

The longer dimension of the shaft bears N. 25° E., or about 53° to the true strike of the shear zone as exposed in the bottom of the excavation (fig. 3). Continued sinking should be along the true dip of the structure. The removal of the cribbing and the relignment of the shaft with its long dimension parallel to the present exposure of the zone is considered impractical inasmuch as the strike of the structure may vary with increased depth. The shaft, however, will have to be eased into more correct alignment as sinking progresses.

A temporary wooden headframe is erected at the collar of the prospect shaft. It will require rebuilding or replacement before being

serviceable for the proposed project. An area about 100 feet wide and some 200 feet in length surrounding the shaft collar has been leveled with a bulldozer. This area is ample for the construction of the needed surface plant and facilities for the disposal of waste rock and the storage of ore. The access road to this site probably is ample for exploration purposes in its present condition. It, however, may require minor improvement and upkeep during the period of the project. It probably will require repairs after heavy rainfall and the removal of snow during the winter season. The wooden bridge across the Poudre River will not support heavy equipment or the continued use of ordinary vehicles for extended periods without additional support and repair.

The only equipment at the site was a gasoline powered centrifugal pump with which the applicants have been keeping the shaft unwatered. Most of the applicants' other mining equipment has been transported to the property but, as yet, has not been moved to, or installed at, the site of the shaft.

PROJECT PROPOSALS WITH COSTS

The applicants propose to explore the uranium-bearing shear zone, which presently is exposed in the bottom of the 20-foot prospect shaft on the Spring No. 1 claim, by sinking an additional 150 feet on the zone. No lateral exploration of the structure is proposed. The applicants estimate that the proposed project will cost a total of $14,529.42.

Sinking the full 150 feet on the zone, as proposed by the applicants, is not warranted on the basis of the present limited exposure of

the structure in the prospect shaft. Some 50 feet of sinking along the shear zone, however, is justified on the basis of its present exposure. Any additional exploration of the structure, either laterally or to a greater depth, would be dependent upon the conditions encountered during the initial 50 feet of sinking. The following modified, two-stage exploration project, which was discussed with and is acceptable to the applicant, is recommended for the deposit:

Description of work	Estimated cost
Stage I	
(a) Preparation of surface site and plant at collar of existing prospect shaft on Spring No. 1 claim: Construct 10- by 20-ft. frame building, install hoist, compressor, and other equipment. Erect suitable headframe. Construct facilities for disposal of waste rock. Other preparation work pertinent to the extension of existing shaft to greater depth. (Complete job at $950.00*)	$ 950.00
(b) Sink 50 feet along the uranium-bearing structure presently exposed in bottom of prospect shaft. Sinking will be along the true dip of the structure. The 2-compartment shaft will be sunk to an 8- by 4-ft. minimum cross section inside timbers. (50 feet of shaft sinking at $79.00 per ft.*)	3,950.00
(c) Analysis of samples for U_3O_8 and V_2O_5 (5 analyses at $5.00 each)	25.00
Total estimated cost of Stage I:	$4,925.00

Stage II	Estimated cost
(a) Sink an additional 50 feet along vein (50 feet of shaft sinking at $79.00 per ft.*)	$3,950.00
(b) Crosscut to and/or drift along the vein from the shaft for an aggregate total distance not in excess of 100 feet. (100 feet of crosscut and/or drift at $33.00 per ft.*)	3,300.00
(c) Analysis of samples (15 analyses at $5.00 each)	75.00
(The actual starting locations and extent of any of the work permitted under Stage II shall be dependent upon the conditions encountered during Stage I sinking and shall require the prior approval of the DMEA Field Team.)	
Total estimated cost of Stage II:	$7,325.00
Total estimated cost of project	$12,250.00
Government participation (75%):	$ 9,187.50

(* Maintenance and repairs to the access road during the project period are included in the unit price.)

The estimated costs of the recommended project and their distribution to the various project operations are detailed in Table I.

Labor and Supervision

The two applicants, both experienced miners, will work full time on the project. In addition, one other full-time man will be employed. Possibly a fourth man will be engaged if the need arises and sufficient labor is available in the area. The following labor schedule has been used in computing the estimated costs of the project (Table I):

Classification	Rate per hour	Average rate per 8-hr. shift, including O.T.
Working foreman-surfaceman	$2.25	$19.50
Miner-timberman	1.75	15.17
Miner-timberman	1.75	15.17

The foreman, one of the applicants, will prepare the required progress reports for the Government without added compensation. Inasmuch as a short-form, unit cost-type of contract is recommended, no estimate for accounting is included in the cost of the project.

Estimated Time for Completion of Project

Initial work can commence immediately upon the approval of the project and the preparation of the contract. The following estimate is made for the completion of the recommended project:

Operation	Average rate of progress	Duration
1. Preparation of surface site and plant	---	10 days or 1/2 month
2. Sink shaft 100 feet	1-1/4 feet/day	80 days or 4 months
3. Drift and/or crosscut 100 feet	3-1/3 feet/day	30 days or 1-1/2 months
Total estimated time for completion:		120 days or approx. 6 months

Considering the lateness of the season, portions of Stage II of the project, if approved, will be carried out during the winter months. Inclement weather in the area during the period may cause intermittent delays in the work and extend the estimated period for completion of the project.

Operating Equipment

The applicants own the following described items of equipment which will be utilized to a greater or lesser degree in the performance of the recommended project work.

Item	Estimated value
Linderwood 3' x 3' single-drum, geared hoist with Ford, Model A engine and 200 feet of 3/4-in. wire rope	$ 450.00
Fairbanks-Morse, 2-stage air compressor (rated 165 c.f.m. at 150 r.p.m.) with Hercules gasoline engine	2,700.00
2 - Ingersoll-Rand 45-lb. jackhammers	500.00
Gasoline powered chain saw	225.00
2-1/2-ton flat-bed truck with winch and boom	1,300.00
1/2-ton Chevrolet pickup truck (1951)	750.00
International TD9 bulldozer	4,500.00

The above equipment was observed on the property during the examination; and, although not installed or operating, it appeared serviceable and adequate for project work.

The pickup truck will be utilized for transporting small supplies to and from the mine. The larger truck will be utilized for hauling heavy materials and equipment.

Both trucks, the dozer, and the chain saw will be used during the initial preparation work and the standard depreciation rate for such equipment (1/60 of its value per month) has been included in the cost estimate for this phase of the project. During the remainder of the project, the larger truck and the dozer will be used only part time and a use allowance of only one-half the standard rate for these items has been included in the cost estimate for the underground phases of the project. Gasoline, Diesel fuel, oil, and grease for the listed equipment has been included in the cost estimate. Repairs to this

equipment also have been provided for but at a lower rate than estimated by the applicants.

In addition to the foregoing owned equipment, it will be necessary to purchase the following items of operating equipment in order to carry out the recommended work:

Description	Estimated Purchase price
Shaft sinking bucket (used)	$ 50.00
Shaft bailer (used)	50.00
Pneumatic sump pump	300.00
2 end-dump mine cars (used)	100.00
Pneumatic leg for jackhammer	200.00

The salvage valuefor the unexpended equipment at the completion of the project is estimated at approximately 50 percent of its original purchase price.

Surface Preparation

The project will require some type of surface building near the collar of the shaft which will shelter the hoist and compressor and serve as a warehouse for supplies and as a shop for minor repair work. A 10- by 20-ft. frame building covered with asphalt roofing should suffice. A new wooden headframe, or extensive alterations to the existing temporary structure, will be required. The headframe will require a sheave wheel and facilities for dumping the sinking bucket. Track will have to be laid from the shaft collar to the waste disposal dump. The surface surrounding the collar already has been leveled. Some

additional bulldozer work, however, will be required for the waste disposal dump and the extension of the access road to the immediate plant site.

The surface machinery must be moved to the site and installed. The heavy hoist and compressor may require concrete bases. Native lumber, which can be secured from local sawmills for $80 - 90.00 per M. b.f. will be utilized for most of the required surface construction. A 2-in. compressed air line will be extended from the compressor to the bottom of the existing shaft. A 2-in. pump column will be installed to the present depth of the shaft.

Road Maintenance and Repairs

The access road may require some maintenance and repairs periodically during the life of the project. Washouts after heavy rainfall will have to be filled and snow may have to be cleared during the winter months. A culvert may be needed when the road adjoins a local spring. The wooden bridge over the Poudre River may be damaged by high water or the continued use of heavy equipment may require repair. In addition to the use allowance for the needed equipment and the cost of the necessary operating materials and supplies, a sum of $50.00 per month, mostly for the required labor, has been included in the cost schedule for the anticipated road maintenance and repair.

Shaft Sinking

The inclined shaft will be sunk along the dip of the presently exposed shear zone. Sinking will start at the bottom (approximately

20 feet below the collar) of the existing prospect shaft. The shaft should be aligned so that it is sunk along the true dip of the structure and so that its long dimension is more or less parallel to its strike.

The shaft will be excavated to about a 9- by 5-foot cross section, or approximately 8- by 4-foot cross section inside the timbers. It will be two-compartment. One compartment will be provided with skids for the sinking bucket; the second, or manway, compartment will be provided with ladders and platforms. Round native timber will be utilized. Eight-inch logs can be purchased locally for about 15 ¢ per running foot.

The shaft probably will continue in granite which should become less fractured with increased depth below the surface. Water will be encountered during sinking but its quantity probably will not be as excessive as the applicants indicate and can be handled in a normal manner.

Drifting and Crosscutting

The lateral headings to be driven from the shaft with the approval of the Field Team will be 7- by 5-foot in cross section and timbered where needed. For the purposes of the cost estimate, one-third of the laterals were considered as requiring timber support. Mine track will be extended along the drifts and crosscuts.

TRANSMITTED
JUL - 8 1955

CONCLUSIONS AND RECOMMENDATIONS

The uranium deposit indicated on the property is relatively unexplored. The property itself is in a new area, an area in which the occurrence of uranium has been unreported heretofore and in which little prospecting and exploration for uranium previously has been undertaken.

The occurrence of commercial grade pitchblende and uraninite within the shear zone on the Spring No. 1 claim does warrant additional exploration and exposure of that structure. Only a small amount of exploration and a low expenditure, however, is warranted on the basis of its present limited exposure. Should the results of the initial work prove favorable, continued and additional exploration of the deposit would then be warranted. There are indications that the deposit may contain significant quantities of uranium ore. The deposit otherwise appears to meet the requirements for exploration assistance by the Government.

The modified two-stage exploration project, the details of which are outlined in this report, is recommended for approval. The total estimated cost of the recommended project is $12,250.00. Government participation would be 75 percent of this amount, or $9,187.50. A short-form, unit cost-type of exploration project contract would appear more feasible in this instance.

The applicants are experienced and reliable individuals who should be able to carry out the recommended project to completion in an efficient and workman-like manner.

Table I.--Summary and distribution of the estimated costs of the recommended exploration project

Items of Cost	Estimated cost	Distribution of estimated costs to project operations: Shaft sinking	Drifting/ crosscutting	New buildings, facilities, surface preparation
Labor and Supervision:				
Foreman-surfaceman	$ 2,340.00	$ 1,560.00	$ 585.00	$ 195.00
2 Miner-timbermen	3,640.00	2,427.00	910.00	303.00
Operating Materials and Supplies:				
Timber	875.00*	475.00	100.00	300.00*
Explosives	987.00	637.00	350.00	--
Pipe, fittings	240.00*	125.00*	75.00*	40.00*
Track	100.00*	--	100.00*	--
Drill steel; bits, sharpening	465.00	275.00	190.00	--
Gasoline, Diesel fuel, oil, grease	1,170.00	800.00	300.00	70.00
Air, water hose	100.00	75.00	25.00	--
Small tools, other misc. supplies	363.00	200.00	100.00	63.00
Operating Equipment:				
Depreciation of owned equipment	743.00	500.00	187.00	56.00
Purchase	700.00	300.00*	400.00*	--
Miscellaneous:				
Repairs to equipment	300.00	200.00	75.00	25.00
Liability insurance, payroll taxes	479.00	319.00	120.00	40.00
Analysis of samples (20 at $5 each)	100.00	----Not Distributed----		
Contingencies:				
Maintenance and repair of access road	300.00	200.00	75.00	25.00
Gross Total Estimated Cost:	$12,902.00	$8,093.00	$3,592.00	$1,117.00
Less estimated salvage value of unexpended materials & equipment*:	652.00	193.00	292.00	167.00
Net Total Estimated Cost:	$12,250.00	$7,900.00	$3,300.00	$ 950.00
Government participation (75%):	9,187.50			
Units of work to be completed:		100 feet	100 feet	Complete job
Net unit cost:		$79.00/ft.	$33.00/ft.	$950.00/job

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

224 New Customhouse
Denver 2, Colorado

February 4, 1955

Memorandum

To: Administrator, DMEA, Attention Code 200

From: Executive Officer, DMEA Field Team, Region III

Subject: Docketing for Exploration Assistance

Enclosed herewith in duplicate is DMEA Form 3a and MF-103 and supporting data pertaining to the following applications for Government assistance in exploration work.

Kenneth J. Revis and H. L. Revis
Larimer County, Colorado (Uranium)

W. M. Traver

RDB:pw

Enclosures

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Enclosures

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

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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. 3678
Metal or Mineral Uranium
Date Received 2-9-55
Estimated Cost $14,529.42
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: Kenneth J. Revis Jamestown Star Rt. Boulder, Colo.
H. L. Revis " " " " "
Boulder Phone HI 2-1793

(*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 Spring No. 1, corner No. 1, from which Northwest coner of Section No. 14, Township 8, North Range 75.
Lady Cora Helen and Spring No. 2.

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

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

(*d*) If you are not the owner, submit with this application a copy of the lease, contract, or other document under which you control the property.

(*e*) If you own the land, describe any liens or encumbrances on it

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. Spring No. 1, Larimer County, Book 978, Page 25.

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. Mine road across from Sportmans Lodge in Poudre Canyon is 1½ miles to the Southeast. Residence on road. 50 miles to railroad; 100miles for supplies

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power. Plenty of manpower, timber material, water are in the mine area.

16—66551-1

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 90 days and be completed within 24 months from the date of an exploration project contract. of April 1, 1955

(*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.). none

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

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

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

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

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

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

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

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

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

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

[x] Money [x] Use of equipment owned by you [ ] 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 January 24, 1955

Kenneth L. Revis
(Applicant)

By N. L. Revis

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

Physical Description

4a We have bulldozed two cuts on Spring No. 1 about in the middle of it. In hole farthest south, radiation was discovered at a depth of about six feet. We continued bulldozing and followed radiation down to about twenty-five feet. Digging was started by hand on the vein and leaders. Ore at this point was believed to be secondary ore but in six feet next to the contact point of the granite sooty pitchblende in seams was discovered. We have followed these leaders about ten feet.

.50% U 308

4b Assay reports ran from .11 to .29%. One small sample went 2.329% (Parked). About twenty to twenty-five ton of low grade ore is stockpiled at the mine.

4c Maps and sketches on another page.

4d Mine about 1½ miles south by east from the bridge across from the Sportmans Lodge. Residence is ½ mile from mine on main access road.

If shipped by rail, nearest siding is 50 miles.

Supplies will be purchased in Denver and Boulder, Colo. Distance about one hundred miles from mine.

Atomic Energy Commission
Lucas Administration
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5 The exploration project

5b Maps and sketches on another page.

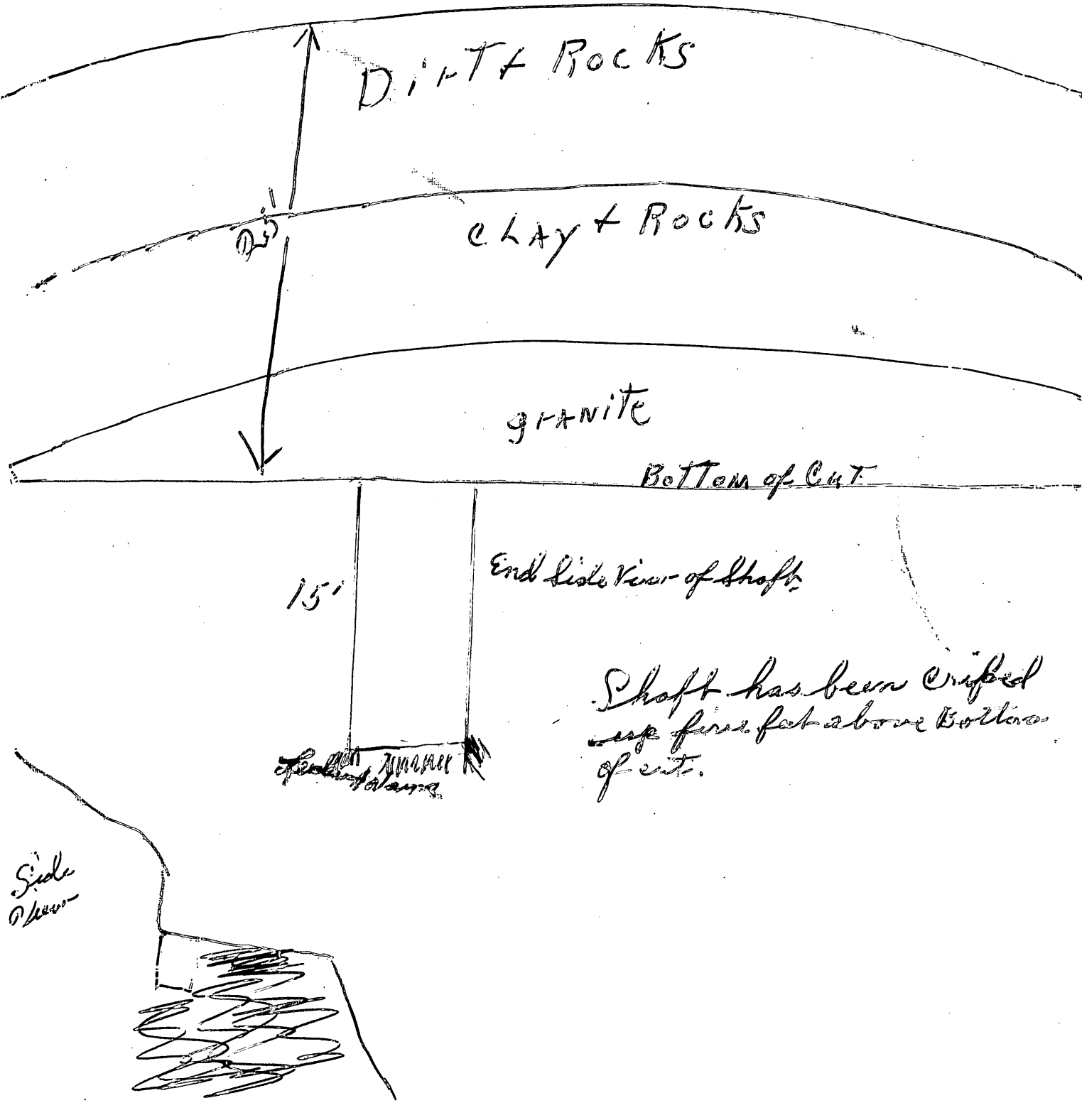
5d One man, if not more, will be hired other than ourselves. This man has worked for the Cherokee Mine at Praire Divide, and for four years in all general mining operations.

Estimate of costs

6b	Labor on digging the shaft per foot		$16.00
	Labor per foot for crifing		15.00
	Salaries on hourly base $2.00	Total	$31.00
6c	Bits for drill steel	400 @ $.65	$260.00
	Drill steel	2' 4' 6' length 5 sets @ $1.25	75.00
	Air hose	300'-50' @ $27.50	165.00
	Timber for shaft	$4.75 per foot	712.50
	Powder	1200 lbs. 100lbs. @ $24.00	288.00
	Caps	600 @ $.15	90.00
	Gasoline, disel fuel, oil, and grease		3300.00
		Total	$4890.50
6d	Equipment owned by operators (Air compressor, motor, and jack hammer)		$2700.00
	1 TD9 International bulldozer		4500.00
	1 2½ ton truck		1300.00
	1 1951 Chev. ½ ton pickup		750.00
	1 Mine hoist less motor		400.00
	1 chain saw		225.00
		Total	$9875.00
	Equipment to be bought or rented (1 air sump pump)		300.00
6e	Repaires on equipment of operators		$1500.00
	Depreciation on equipment of operators		3500.00
	Repaires and upkeep on roads and bridge		2000.00
		Total	$7000.00
6f	New building, improvements, installations		
	One hoist house and air compressor house		$750.00
	Additional work to be done on head frame		220.00
	Office for records and supplies		250.00
	Powder house		50.00
		Total	$1270.00
6g	Workmans compensation $4.21 per $100.00		$218.92
	Public Insurance		100.00
		Total	$318.92
6H	Do to the amount of water at the present time and that at all indications it will increase. Bigger pumps will have to be rented. Estimated $5.00 per foot.		$750.00
	Total cost of the above items. 150' of shaft $127.86 per foot		$4890.50
			300.00
			7000.00
			318.92
			750.00
			1270.00
			$14529.42

4 C

Work already completed



MINING LEASE

This indenture made this 1st day of February, 1956, between S. L. LINDSEY and B. LEE LINDSEY, hereinafter called the lessors, and KENNETH REVIS and H. L. REVIS, hereinafter called the lessees, WITNESSETH:

That the lessors, for and in consideration of the royalties hereinafter reserved and the covenants and agreements hereinafter expressed, and by the lessees to be kept and performed, have granted, demised and let and by these presents do grant, demise and let unto the lessees all the following described mining property, situate in Larimer County, Colorado:

> Lady Cora Helen, Spring No. 1 and Spring No. 2, location certificates recorded in the office of the County Clerk of the County of Larimer, State of Colorado, in Book 978 at Pages 24, 25 and 26,

DEPARTMENT OF THE INTERIOR
Bureau of Mines Administration
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to have and to hold unto the lessees for the term of five (5) years from the date hereof and as long thereafter as ore deposits may be commercially marketed by the lessees from said premises, for the purpose of mining uranium or other valuable minerals, unless sooner forfeited or determined through the violation of any covenant hereinafter against the lessees reserved.

And in consideration of such demise, the lessees do covenant and agree with the lessors as follows:

1. To enter upon said premises, and explore or work the same mine fashion, in manner necessary to good and economical mining, so as to take out the greatest amount of ore possible, with due regard to the development and preservation of the same as a workable mine, and to the special covenants hereinafter reserved. That said exploration and work shall be done in full compliance with the mining laws and safety regulations for the State of Colorado.

2. To explore or work and mine said premises as aforesaid steadily and continuously, so long as weather conditions shall permit and so long as the exploring or working and mining of said premises can profitably be done by the lessees from the date of this lease with at least two persons, which may include the lessees, working for at least fifteen (15) shifts to the man each calendar month. Upon finding mineral deposits which can be profitably mined and shipped to employ as many men as can be profitably used according to good and economical mining. In the event that the lessees shall fail to explore or work and mine said premises as herein provided, this lease shall be determined as provided in paragraph eleven (11) hereof.

3. To well and sufficiently timber said mine at all points where proper, in accordance with good mining; and to repair all old timbering wherever it may become necessary.

4. To allow said lessors and their agents from time to time, to enter upon and into all parts of said mine for purposes of inspection.

5. To not assign this lease or any interest thereunder, and to not sublet the said premises or any part thereof, without the written assent of said lessors, and to not allow any person not in privity with the parties hereto, to take or hold possession of said premises, or any part thereof, under any pretense whatever.

6. To occupy and hold all cross or parallel lodes, spurs or mineral deposits of any kind which may be discovered by the said lessees, or any person under them, in any manner, by working within, or from the demised ground, as the property of said lessors with privilege to said lessees of working the same as parcel of said demised premises.

7. To keep at all times the drifts, shafts, tunnels and other workings which are being worked thoroughly drained and clear of loose rock and rubbish, unless prevented by extraordinary mining casualty.

8. To pay the lessors as royalty: Twelve per cent (12) of the net mill returns of all ore bringing Seventy Dollars ($70.00) or less, net mill returns; Fifteen per cent (15) of the net mill returns of all ore bringing more than Seventy Dollars ($70.00) and less than Ninety Nine Dollars ($99.00), net mill returns; Twenty per cent (20) of the net returns of all ore bringing more than Ninety Nine Dollars ($99.00), net mill returns, on all ore to be extracted from said premises by delivery of such ore with all convenient speed in lots as mined to some mill or regular ore buyer, and leaving with such mill or ore buyer the percentage of mill returns aforesaid for delivery to the lessors; provided, however, that no such deliveries shall be required unless the same can be made with a net profit to the lessees.

9. To at all times fully comply with the provisions of the Workman's Compensation Laws of the State of Colorado.

10. To deliver to said lessors the said premises with the appurtenances, and all improvements in good order and condition, with all drifts, shafts, tunnels and other passages thoroughly clear of loose rock and rubbish and the mine ready for immediate continued working (accident not arising from negligence alone excusing) without demand or further notice, upon this lease being determined by its terms, or at any time upon lawful demand for forfeiture as hereafter provided.

11. That in the event of any violation of any covenant or covenants herein agreed by the lessees to be performed, the lessors shall give to the lessees written notice of such violation, whereupon the lessees shall have thirty (30) days within which to comply with the terms of this agreement respecting such violation. Upon failure within said period of time to so comply the term of this lease shall, at the option of the lessors, expire, and thereupon and the aforesaid premises shall be forfeited to the lessors; and the same and the aforesaid premises shall be

.er demand of possession in writing, enter upon said premises and dispossess all persons occupying same, with or without force and with or without process of law; or at the option of said lessors the said lessees and all persons found in occupation may be proceeded against as guilty of unlawful detainer.

12. It is mutually agreed that this lease is made in accordance with that certain Memorandum of Agreement between the respective parties hereto under date of September 22, 1954, and that such agreement shall continue in force and effect; except as said agreement is modified on page four hereof.

13. Each and every clause and covenant of this indenture shall extend to the heirs, executors, administrators and lawful assigns of all parties hereto.

IN WITNESS WHEREOF, the said parties have hereunto set their hands and seals.

S. L. LINDSEY

B. LEE LINDSEY

Lessors

KENNETH REVIS

H. L. REVIS

Lessees

It is mutually agreed between the respective parties hereto as of a part of the foregoing lease that in respect to uranium ore only the royalty payments provided in paragraph eight (8) of this lease shall be made on the gross mill returns, it being the intention of the parties that freight payments and mill charges on uranium ore shall be borne by the lessees.

S. L. LINDSEY

B. LEE LINDSEY

Lessors

KENNETH REVIS

H. L. REVIS

Lessees

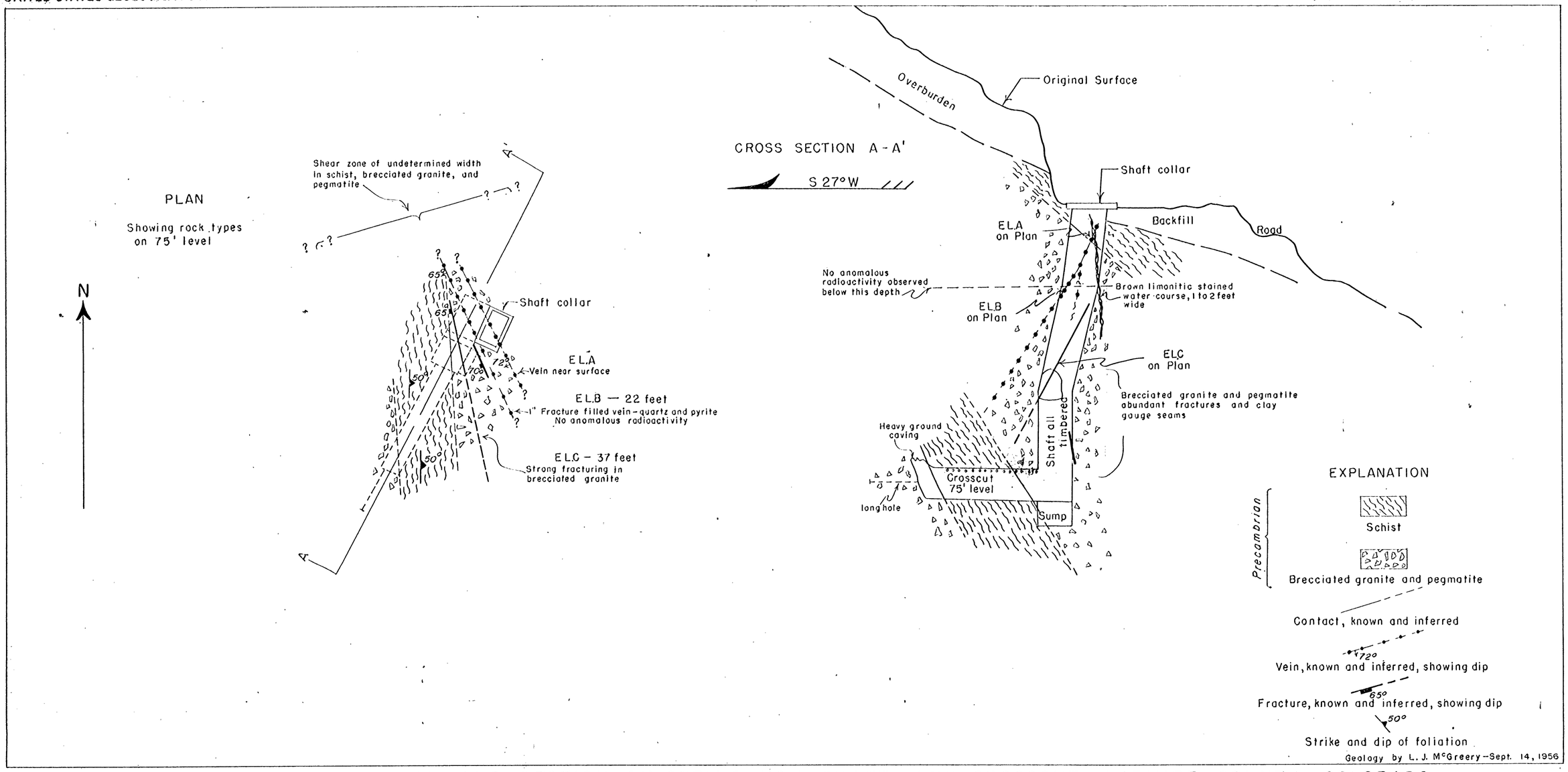


FIGURE 3 GEOLOGIC PLAN AND SECTION OF SPRING NO. 1 SHAFT AND CROSSCUT, LARIMER COUNTY, COLORADO

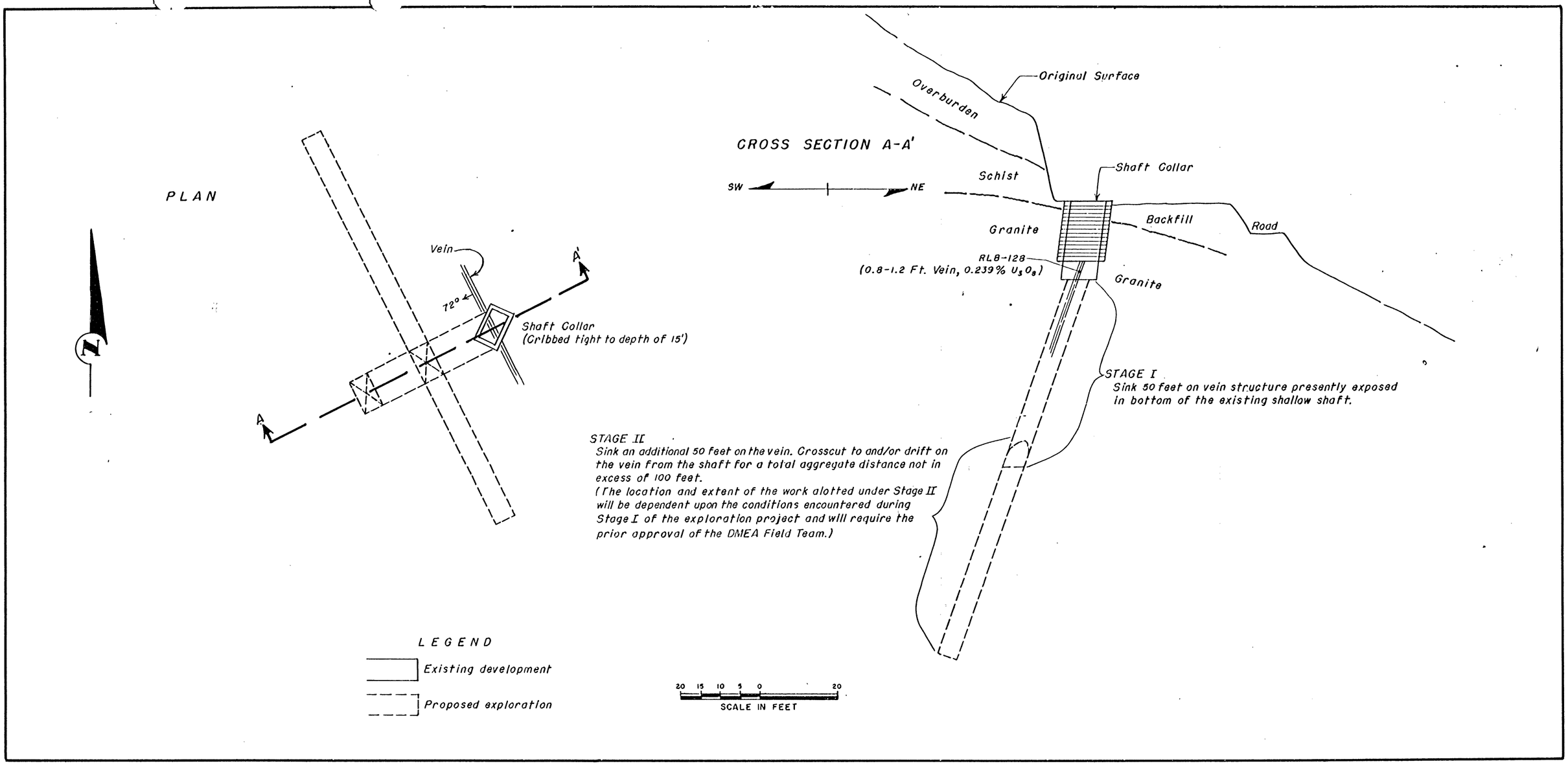


FIGURE 3 - PLAN AND SECTION OF SPRING No.1 SHAFT, LARIMER COUNTY, COLO., SHOWING PROPOSED EXPLORATION, (REVIS & REVIS DMEA 3678)

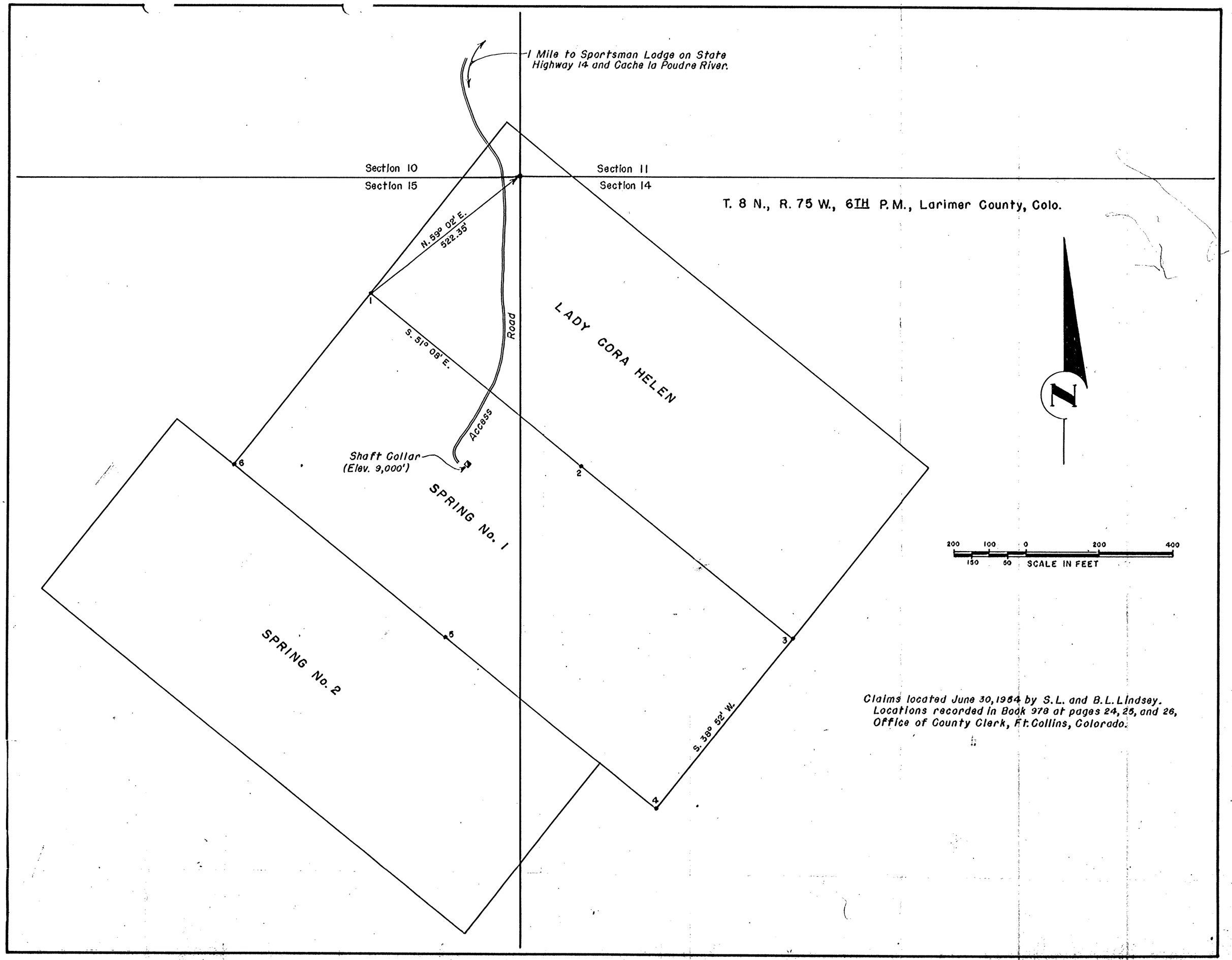
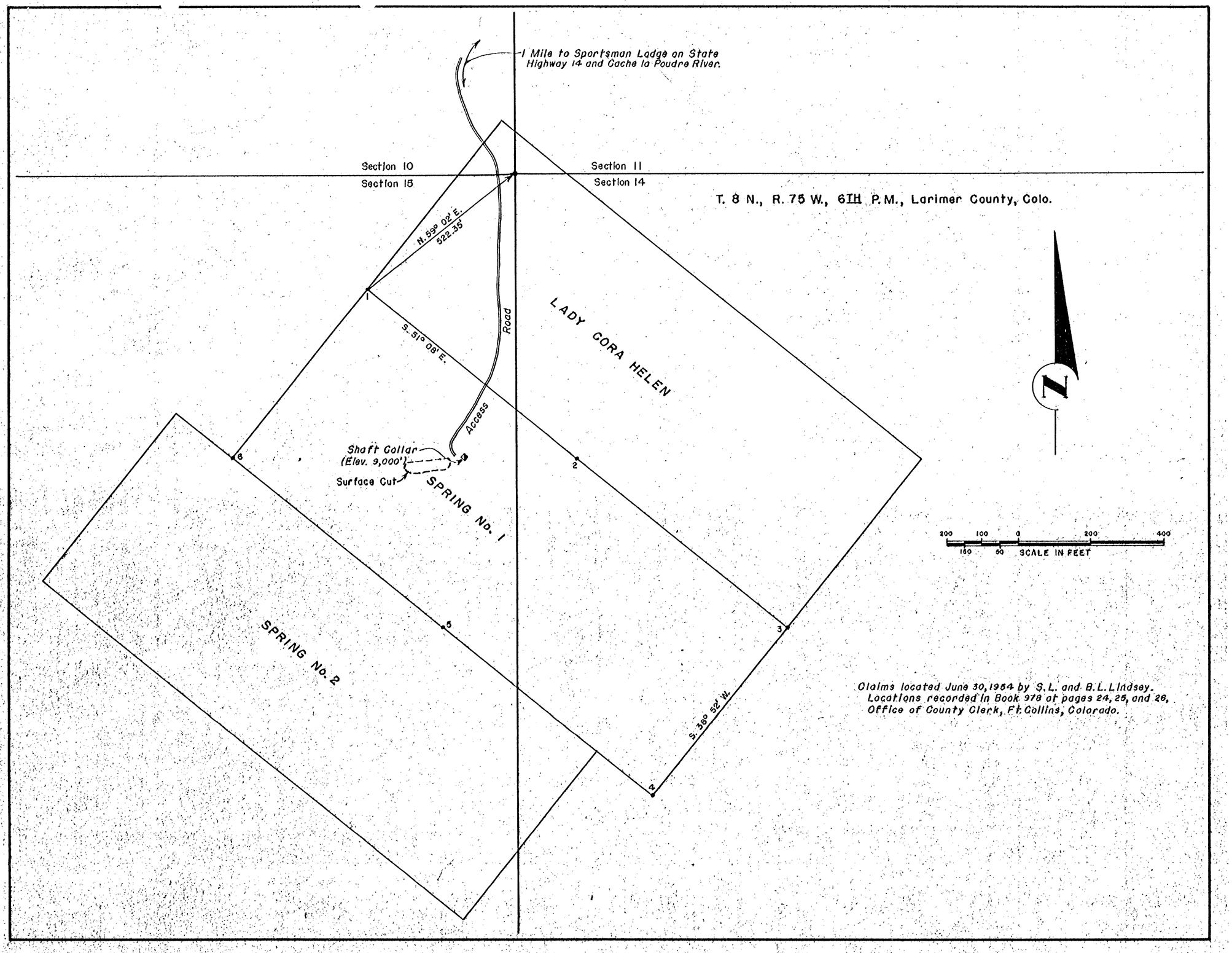


FIGURE 2 - MAP OF THE SPRING CLAIM GROUP, LARIMER COUNTY, COLO (REVIS & REVIS DMEA 3678)



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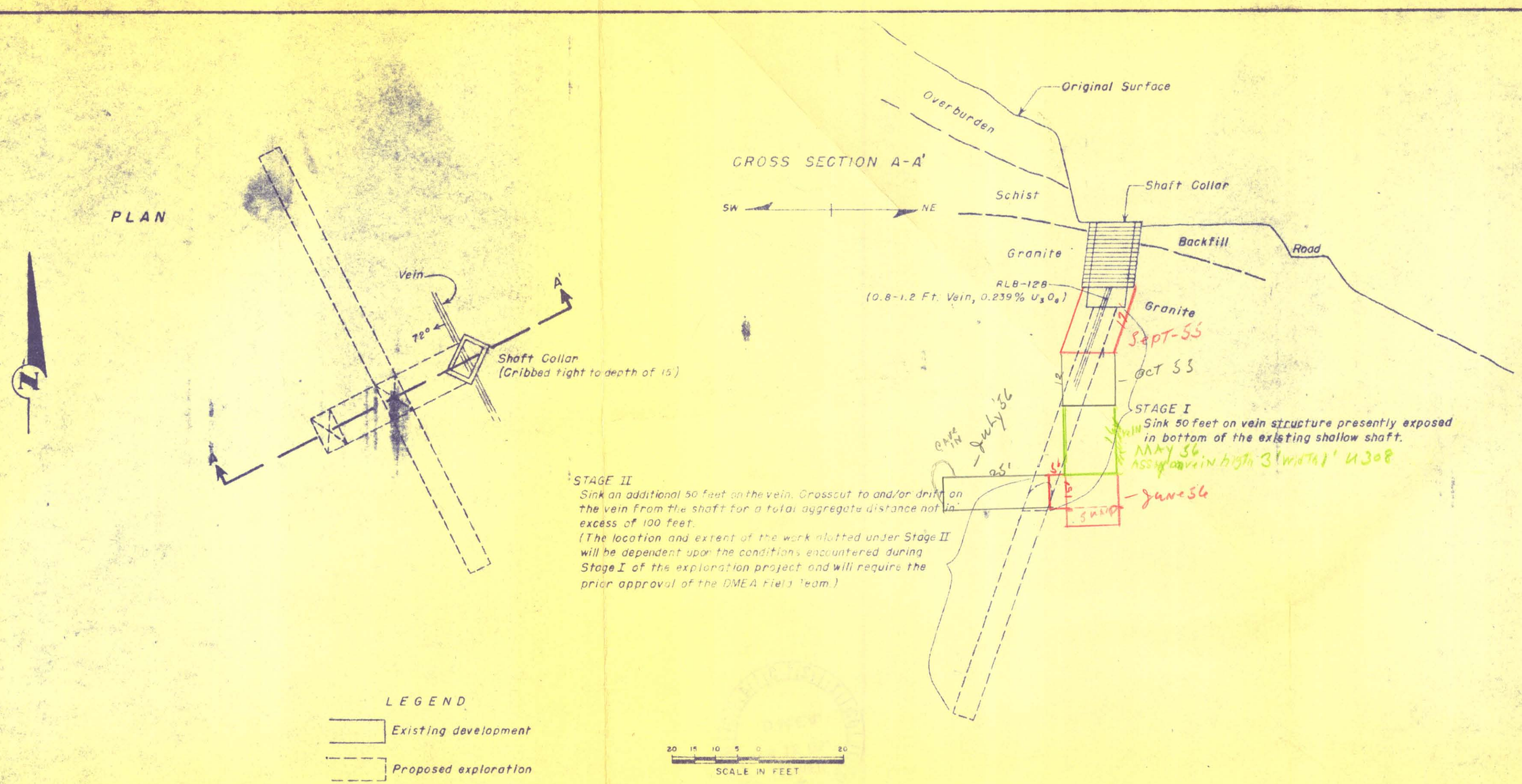

FIGURE 3 - PLAN AND SECTION OF SPRING No. I SHAFT, LARIMER COUNTY, COLO., SHOWING PROPOSED EXPLORATION, (REVIS & REVIS DMEA 3678)