IMEA Form 9

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE

IMEA NO. 4639

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(~~Withdrawn~~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

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

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

Left Side

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

Right Side

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

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

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

Left Side

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

Right Side

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

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

Folder No. 4: Settlement Sheets

Folder No. 5: Drill Logs

9774

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

224 New Customhouse
Denver 2, Colorado

February 12, 1957

OFFICIAL FILE COPY
DMEA
RECEIVED FEB 15 1957

DATE	INITIALS	CODE

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Application for DMEA Aid (Uranium) Algonquin Mines (Bench group, Queen Mary mine) San Juan County, Utah

Enclosed are the original and one copy of the subject application in the amount of $20,750.00. One copy of the application is being forwarded to the Grand Junction office, DMEA, and one copy retained in the Denver office files.

The Applicant proposes 22,035 feet of Wagon drilling but furnishes no drilling bids.

You will find in your files copies of previous correspondence from this office with the Applicant under dates of November 21 and December 4, 1956.

W. M. Traver

W. M. Traver

Enclosures

224 New Customhouse
Denver 2, Colorado

February 12, 1957

DATE	INITIALS	CODE

Mr. Charles D. Long
Algonquin Mines
Room 600, 418 Olive Street
St. Louis 2, Missouri

Re: Application for DMEA Aid (Uranium)
Algonquin Mines
(Beach group, Queen Mary mine)
San Juan County, Utah

Dear Mr. Long:

Receipt is acknowledged of four copies of the captioned application. It is being referred to the Washington office, DMEA, today, for review.

After review, if the application is in order and requires no further information from you, it will be referred to this office by Washington for a field examination, and you will be notified of the action. This office will forward the application to the Grand Junction, Colorado, DMEA office, instructing them to make a field examination, and they will in turn advise you of the date set for such a field examination in ample time for you to assign a representative to accompany them on the examination. After examination, reports are submitted through this office to Washington with the examiners' recommendations. This complete process will, doubtless, take not less than 90 days from the date of this letter, possibly longer.

Very truly yours,

Original signed by
W. M. TRAVER

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

WMT:jy
cc: Sec. Op. Comm. (2)
Harshman
Shaw (2)
Hasler
Docket
Chron.

ALGONQUIN MINES
A CO-PARTNERSHIP
ROOM 630, 410 OLIVE STREET
ST. LOUIS 2, MISSOURI
CH ESTNUT 1-0040

DMEA
PARTMENT OF THE INTERIOR
FEB 11 1957
REGION III
DENVER, COLORADO

February 7, 1957

OFFICIAL FILE COPY
DMEA
RECEIVED FEB 15 1957

DATE	INITIALS	CODE

Defense Minerals Exploration Administration
United States Department of Interior
224 New Customhouse Building
Denver 2, Colorado

Attention: Executive Officer

Dear Sir:

Enclosed herewith you will please find certified in quadruplicate an application for aid in an exploration project, pursuant to D.M.E.A. Order 1 under the Defense Production Act of 1950 as amended.

We have tried to make this application as complete as possible. If you desire any additional information, kindly advise the undersigned.

We would appreciate it if you would acknowledge receipt of these applications and would appreciate it also if you could advise us approximately when we will receive word of what action is taken on the application, so that if we have received favorable action, we can immediately proceed with the drilling. I think I should tell you that our share of the estimated cost is already available in cash and especially appropriated for that purpose.

Awaiting your further advice, I am

Very truly yours,

Chas. D. Long

CDL:FS
Enc.
cc: Mr. Aubrey E. David
Mr. A. J. Shea

MF-103
(Revised April 1952)

RECEIVED FEB 15 1957 D.M.E.A.

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

DMEA

DEPARTMENT OF THE INTERIOR FEB 11 1957 REGION III DENVER, COLORADO

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

Not to be filled in by applicant

Docket No. 4639
Metal or Mineral Uranium
Date Received 2-15-57
Estimated Cost $20,750.00
Participation (Government %) .....

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: See Exhibit A hereto attached for answers to questions 1, 3, 4, 5, 6, 7 and each of their sub-headings.

(*b*) If other than an individual, add to your name above whether a corporation, partnership, etc., and the name of the State in which incorporated or otherwise organized.

(*c*) If a corporation, add to above statement, titles, names and addresses of officers.

(*d*) If a partnership, add to the above statement the names and addresses of all partners.

2. *General.*—Read DMEA Order 1, "Government Aid in Defense Exploration Projects," before completing this application. Submit this application and all accompanying papers in quadruplicate (four copies), with your name and address on each sheet of the application and on all accompanying papers. Where sufficient space is not provided on the form for all required information, state it on an accompanying paper, with a reference in each case to the instruction to which it refers by number. Comply with all applicable instructions; or, if not applicable, so state. File the application with Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest field executive officer thereof.

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract .....

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

[X] Money ..... [ ] Use of equipment owned by you [ ] Other

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated February 6th, 1957

Algonquin Mines
(Applicant)

By Chas. D. Long, Partner

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

RECEIVED
FEB 15 1957
D.M.E.A.

EXHIBIT A

1. Name of applicant.-(a) ALGONQUIN MINES, Room 601, 418 Olive Street, St. Louis 2, Mo.

1. (b) ALGONQUIN MINES is a co-partnership organized under the laws of the State of Missouri.

1. (d) The partners are:

Harry J. Burkart
F. Burkart Manufacturing Company
Division of Textron Inc.
4900 North Second Street
St. Louis 7, Missouri

Dr. Ralph W. Colpitts
8212a North Broadway
St. Louis 15, Missouri

Chas. D. Long
418 Olive Street
St. Louis 2, Missouri

Milton Yawitz
418 Olive Street
St. Louis 2, Missouri

Henry T. Brinckwirth
Missouri Athletic Club
405 Washington Avenue
St. Louis 2, Missouri

J. Reynolds Medart
45 Overhills Drive
St. Louis County 17, Missouri

Josephine B. Medart
45 Overhills Drive
St. Louis County 17, Missouri

Hilbert Wm. Hagnauer
816 South Hanley Road
Clayton, St. Louis County 5, Missouri

Amy J. Hagnauer
816 South Hanley Road
Clayton, St. Louis County 5, Missouri

Claude L. Harrell (limited partner)
1215 Hampton Park
Richmond Heights, St. Louis County 17, Missouri

RECEIVED
FEB 15 1957
D.M.E.A.

2. General.- The following report, which is the completed Defense Minerals Exploration Administration application in accordance with the instructions of D.M.E.A. Order No. 1, as amended, includes completed Form MF-103 and all necessary substantiating papers.

The letters and numbers used in the headings herein refer to those used on Form MF-103. This report includes all required information which could not be placed on Form MF-103 due to space limitations.

3. Applicant's property rights.-(a) Legal Description.-Exploration work is to be performed on the unexplored portions of sixteen unpatented mining claims referred to in this report as the Bench Group. The claims are located in the North one-half of Section 18, Township 31 South, Range 26 East, of the Salt Lake Base and Meridian, Monticello Mining District, Lisbon Valley, San Juan County, Utah. A certified survey map of the property is shown on Figure 2 of the Appendix accompanying this application.

3. (b) Name of Property.-Queen Mary

3. (c) Interest.-Algonquin Mines acquired and owns these mining claims under an Indenture of Sale from R. E. Cowger and his wife, Mary L. Cowger, dated December 19, 1955, and recorded in Book 86, Page 242, in the Office of the Recorder of San Juan County, Utah.

3. (d) Not applicable to land owned by applicant.

3. (e) There are no liens or obligations on the property.

3. (f) Recording of Title.

All transactions affecting title to the claims are recorded in the office of the Recorder of San Juan County, Utah.

Claim Name	Original Recording Date	Book	Page
Bench 1	Aug. 29, 1949	R-2	99
Bench 2	Aug. 29, 1949	R-2	99
Bench 3	Aug. 31, 1949	R-2	98

Claim Name	Original Recording Date	Book	Page
Bench 4	Aug. 31, 1949	R-2	97
Bench 5	Jan. 23, 1950	R-2	123
Bench 6	Jan. 23, 1950	R-2	127
Bench 7	Jan. 23, 1950	R-2	127
Bench 8	Jan. 23, 1950	R-2	128
Bench 9	Jan. 23, 1950	R-2	128
Bench 10	Jan. 23, 1950	R-2	126
Bench 11	Jan. 23, 1950	R-2	126
Bench 12	Jan. 23, 1950	R-2	125
Bench 13	Jan. 23, 1950	R-2	125
Bench 14	Jan. 23, 1950	R-2	124
Bench 15	Jan. 23, 1950	R-2	123
Bench 16	Jan. 23, 1950	R-2	124

4. Physical description - (a) (b) Prior to acquisition of this property by present owners, the area in the near vicinity of the common corner of Bench(s) 1, 2, 3, and 4, was drilled in an effort to find extensions of mineralized outcrops shown as Queen Mary Mine 1 and Open Pit on Figure 4 in appendix accompanying this application. This exploration resulted in finding the deposits noted as Queen Mary Mines 2 and 3. This drilling so far as can be traced from the existing evidence shows no particular geometric pattern nor are there any logs available of depths drilled or other details. However, since discovery of the ore deposits in Queen Mary Mines 2 and 3, which are at a lower horizon than the mineralized outcrops, resulted from this drilling, it is felt that the area westerly of Queen Mary Mine 3 has been adequately drilled. A few other wide spaced holes were air drilled on the high bench southeasterly of Queen Mary 3. This drilling did not attain the probable ore horizon depth because of inadequate compressor capacity.

After acquisition of the property by the present owners and during August of 1956, thirty-three holes close spaced were wagon drilled to the Queen Mary 3 horizon. Figure 3 shows the location of these holes symbolized to show ore holes, mineralized holes, favorable and unfavorable holes. Copies of the logs and assay sheet are presented in the appendix.

Prior to acquisition of the Bench claims by Algonquin Mines, ore had been shipped from Queen Mary Mines 1, 2 and 3, and the spot designated on Figure 3 as Open Pit. Mine 1 is a tunnel type mine approximately 25 feet in open cut and 60 feet underground. There is no record of the amount of ore shipped from this mine. Mine 2 consists of little more than an incline shaft about 100 feet long. It is understood that only two loads of ore (unknown tonnage) were shipped from this mine. The Open Pit also produced only two loads (unknown tonnage). Mine 3 consists of an incline 130 feet long on a 22° slope and stopes at approximately elevation 6,715 feet as shown on Figures 3 and 4. Shipments from this mine amounted to 180 tons shipped by the former owners of an average content of .30 U_3O_8 and 1.45 U_2O_5. Shipments by the present owners between January 23, 1956 and December 21, 1956, amounts to 415 tons with average content of 0.22% U_3O_8 and 1.22% U_2O_5, as shown on copies of settlement sheets in appendix of this application. In addition about 25 tons were shipped recently for which settlement sheets have not yet been received. The total amount of ore thus far shipped from Queen Mary Mine 3 amounts to 620 tons with average content of 0.24% of U_3O_8 and 1.29% U_2O_5. Ore reserves are now depleted except for a few tons of clean-up.

The mining facility entirely owned by Algonquin Mines consists of a jackleg machine, 250 c.f.m. compressor, 5 h.p. slusher and loading facility, 2-3/4 ton mine cars, 800 feet of 16# rail, 25 h.p. hoist, 25 ton bin, scootcrete, vent fan and conduit, pump tank and miscellaneous small tools. Auxiliary surface plant consists of one sleeper trailer with 10 bunks and one dining and living room trailer, also one building used for storage and change house.

All mines are freely and safely accessible.

4. (c) The Salt Wash member of the Jurrassic Morrison formation is outcropped over the entire property except for the southwest corner which is covered by the Brushy Basin member (see Figure 4). The dip is very nearly 40 feet per 1,000 feet to the N. 35° E. and is quite uniform across the property. In this general area the Salt Wash displays six fairly prominent rims which are numbered in ascending order 1 to 6. Mineralization occurs in the 5th rim or stratum which corresponds roughly to the lower part of the upper or 3rd rim in the Uravan-Gateway areas in Colorado. The upper stratum represented as rim 6, although varying slightly, averages approximately 25 feet in thickness and the next lower stratum also slightly variable represented by rim 5, is approximately 35 to 40 feet in thickness.

Mineralization occurs as carnotite in bedded deposits which so far has been found on this property on two horizons about 30 feet apart stratigraphically. The upper occurrences, which were the original discoveries and are shown on Figure 4 as Queen Mary Mine 1 and Open Pit, are approximately 30 feet below the Brushy Basin-Salt Wash contact. The other occurrences, Queen Mary Mine 2 and Queen Mary Mine 3, are approximately 60 feet below the Brushy Basin-Salt Wash Contact. In this respect, mineralization on this property conforms to the general stratigraphic position in which most deposits occur in southwestern Colorado and southeastern Utah.

The stratigraphic structure of the materials enclosing the ore bodies suggests that those thus far discovered occur in flood plane type rather than principal channel type deposition. However, the wide variation in thickness of the mud lenses (from a few tenths to six feet) in the relatively small areas tested by drilling and for which there are logs available, coupled with observations in Queen Mary Mine 3, suggests close proximity to a principal channelway. The Queen Mary Mine 1 displays a perfect concave section suggestive of a small channel about

75 feet in width and 10 feet in depth with a levee section along its southeasterly "bank". The fill, however, beginning with a base of blue mud a few tenths in thickness, a narrow base section of sorted coarse material and the remainder of the fill being poorly sorted extremely cross bedded coarse to fine materials, suggests this structure to be a "pot hole" close to a major channelway rather than a scour section within a channel.

The sandstone materials containing and overlying the Queen Mary 3 ore body also appears to be flood plane type and consists of evenly bedded, fine grained light yellow and grayish sorted materials. These sandstones, as disclosed by drill holes and inspection of the mine, are 30 to 40 feet in thickness exclusive of the mud splits. The underlying mudstone varies in composition from silty mudstone to fat claystone. It varies in thickness from one foot to 5 feet and in color from light bluish gray to green to buff. The grade and thickness of the ore seemingly varies as the thickness of the underlying mudstone and proportionally as the color ranges from light red to bluish gray - the blues and grays being the more favorable colors.

The composition and thickness of the sandstone and mudstone in the vicinities of Queen Mary Mine 2 and the Open Pit are similar to those in the vicinity of Queen Mary Mine 3 except for color. Because of the frequency of mineralized areas or areas favorably disposed to mineralization within the relatively small area thus far explored in the near vicinity of the common corner of Bench claims 1, 2, 3 and 4, it is believed that there is a reasonably good chance that other ore bodies similar to the Queen Mary 3 ore body exist on this property.

4. (d) This property is situate in the N½ of Section 18, T. 31 S., R. 26 E. of the Salt Lake Base and Meridian. It is accessible via the Lisbon Valley road which joins with Utah state highway 46 at a point 8 miles east of the june-

tion of Utah state highways 160 and 46. The Libson Valley road is a recently improved mines access road. From its junction with Utah 46, it is black topped or graveled for 18 miles. The remaining 4 miles to the subject property is unimproved dirt road but because this portion of the road is along flat valley floor and through low hills, no travel difficulties exist except during wet weather when chains may be required. Moab is 53 miles from the mine and Monticello is 62 miles. Figure 1, an index map of the Colorado Plateau, shows the relative positions of the towns and roads named herein.

4. (e) Experienced uranium miners are generally available at any of the Plateau towns. Mining materials, supplies and equipment houses are represented in numbers at Monticello and Moab, Utah, or Grand Junction, Colorado. There is more than sufficient seepage water for mine drilling purposes and enough for exploration drilling should it be required. Domestic water is obtained from a spring about 8 miles from the mine and is hauled in 55 gallon tanks, usually when other supply errands require a trip to town.

5. (a) Uranium and vanadium are the minerals for which exploration is contemplated.

5. (b) It is proposed to explore the property in three stages of drilling by means of wagon drilling. The cuttings from wagon drilling will yield sufficient information to deliniate favorable areas since past drilling experience and mining on this property has indicated that control can be based on thicknesses of strata and colors. First stage drilling is designed on 250 foot spacings based on the spacing of known ore bodies and the area of favorability surrounding the mineralized areas. It is estimated that it will require 5,745 feet of drilling to complete first stage drilling. The geologic elements on which this estimate is based are published topography of this area with contour interval

of 40 feet; measured dip that averages approximately 40 feet per thousand and drill holes to bottom in mudstone at base of stratum 5, assumed to be a plane surface one point of which is elevation 6,719 at the bottom of "Blue Mud Stone" as shown on log of drill hole 11 of the August, 1956, drilling program. Second and third stages of drilling are each estimated to require an amount of drilling approximately equal to first stage drilling based on the overall experience of locating and approximately defining uranium ore bodies in the Morrison Salt Wash. Figure 4 - Geologic and Proposed First Stage Drilling Map - shows the positions and relative sizes of known ore bodies and spacing of first stage drilling together with supporting background map features.

5. (c) It is estimated that this drilling program can be initiated within two weeks from the date of notice of an exploration project contract and be completed within 50 days based on the drilling rate of the drilling program on this property during August, 1956. This estimate is based on knowledge that dozers are normally available on a weeks notice and wagon drills on one or two weeks notice.

5. (d) The applicant, as a group of partners forming Algonquin Mines (see 1 (c)), is now in the third year of uranium mining experience on the Colorado Plateau. Mining supervision is under a career miner, Mr. Aubrey David, who has approximately 16 years experience in all types of mining - 6 years of which have been spent working in the bedded uranium deposits of Colorado and Utah. Design and supervision of exploration is under a professional mining engineer, A. J. Shea, with twelve years of exploration experience and is now in his sixth year on uranium exploration in all its phases on the Colorado Plateau.

6. <u>Estimate of Costs</u> - (a) (b) It is proposed that road work and drilling

will be performed under contract and that supervision will be paid for on salary and fee basis as shown in following breakdown. It is planned that drill roads will be constructed in three stages and that it will require ten days including mobilization time to construct first stage drilling roads - using a D-7 cat and ten days, including mobilization time to complete roads for the second and third stages of drilling. The average contract price for D-7 dozer work is $100.00 per day.

It will require approximately 22,035 feet of drilling to complete the three stages. For the purpose of estimating price, the footage has been divided into hole depths of more than 100 feet and depths less than 100 feet. It will require 1,935 feet of the former and 20,100 feet of the latter. It is estimated that there will be 30 assays for uranium and vanadium.

Geology, engineering and operational supervision will amount to about $1,500.00. It is intended to use the mining crew wherever possible as aids to engineering and supervision of operations on their regular salary. A tabulation of the Estimate follows:

<u>Roads</u>

20 days dozer time - - - - - - - - @ $100.00 per day = $2,000.00

<u>Drilling</u>

22,035 feet of wagon drilling

(a) 1,935 feet of plus 100 feet depth per hole - - - - - @ $ 1.00 per ft. = $1,935.00

(b) 20,100 feet of minus 100 feet depth per hole - - - - - @ $ .75 per ft. =$15,075.00

<u>Assays</u>

30 assays for uranium and vanadium @ $ 5.00 each = $ 150.00

Technical and Supervision

(a)	4 days surveying proposed 1st stage drill holes - -Surveyor	@ $ 55.00 per day	= $	220.00
	Rodman - using miner help - -	@ $ 12.00 per day	= $	48.00
	Surveyor's expenses - - - - -	$ 67.00	= $	67.00
(b)	Supervision of operations by mine Foreman in absence of Engineer estimated 10 days - - - - - -	@ $ 27.50 per day	= $	275.00
	Engineer retainer fee - - - -	$ 700.00	= $	700.00
	Engineer travel expenses- - -	$ 100.00	= $	100.00
	Printing, stenographic and allied office expenses - - - - - - -	$ 100.00	= $	100.00

Total Estimate -$20,670.00

6. (c) None.

6. (d) None.

6. (e) None.

6. (f) None.

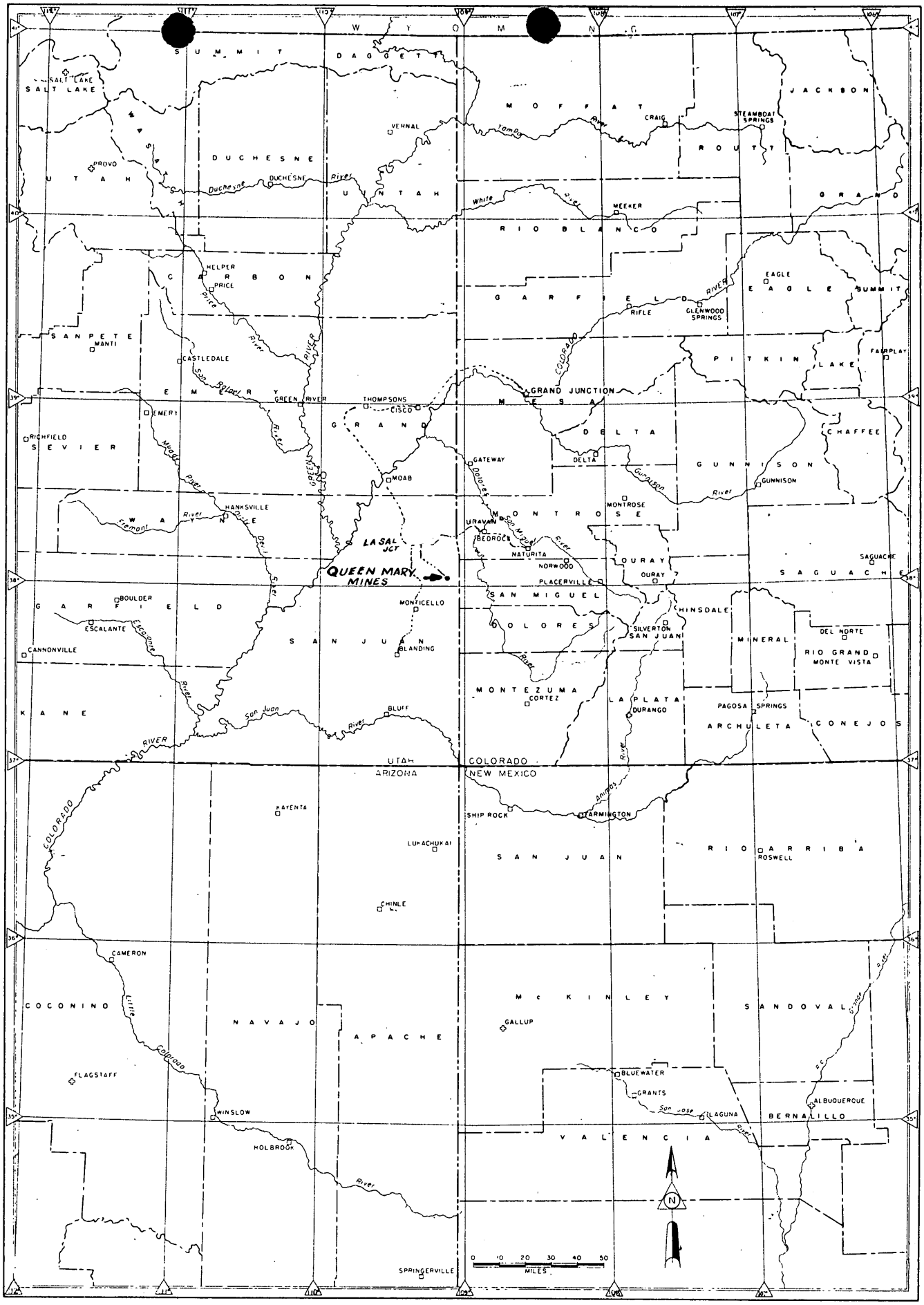
6. (g) Compensation, liability insurance, payroll taxes for mining crew for an estimated 10 days $80.00.

6. (h) None foreseen.

7. (a.) Yes.

7. (b) Money.

APPENDIX



INDEX LOCATION MAP FIGURE 1

HE BROWN LABORATO Y
2263 Broadway
GRAND JUNCTION, COLORADO

ANALYTICAL DEPARTMENT

PHONE 1543-W

CERTIFICATE OF ANALYSIS

TO

Algonquin Mines
Room 600 - 418 Olive Street
St. Louis, Missouri

Date 8-13-56
Order No. 7446-8

Material: Ore Samples
Received: 8-11-56
For: Analysis

Lab. No.	Your No.	Description	%eU3O8	%U3O8	%V2O5	%CaCO3
7446-1	Hole # 2	62-63		0.13	1.64	
7446-2	"	63-64		0.12	0.94	
7446-3	"	64-65		0.05	0.11	
7446-4	"	65-66		0.02	0.05	
7446-5	Hole # 3	61.6-62		0.22	0.83	
7446-6	"	62-63		0.13	0.29	
7446-7	Hole # 5	57-58		0.04	0.54	
7446-8	Hole # 8	63-65		0.01	0.34	
7446-9	Hole # 11	59-60		0.26	1.65	
7446-10	"	60-61		0.12	0.25	
7446-11	Hole # 32	71-72		0.06	0.56	

Analyst.

LIPPOTH and WEIN DRILLING CO.

DAILY WAGON DRILL REPORT

Date August 7, 19 56

Location Lisbon Valley

Hole No. 1 Hours Worked

From Feet	From In.	To Feet	To In.	Material	U_3O_8	V_2O_5
0		6		LBRSS & RSS		
6		11		RSS		
11		25		LRUSTYSS Damp		
25		32		RMS		
32		42		LRSS & RUSTYSS		
42		46		RMS Streaks of LBRSS		
46		49		LBRSS		
49		54		RMS		
54		56		LBRSS		
56		62		RMS		

Total Depth 62 Total Ore Thickness

N

LIPPOTH and WEIN DRILLING CO.

DAILY WAGON DRILL REPORT

Date August 7, 19 56

Location Lisbon Valley

Hole No. 2 Hours Worked

From Feet	From In.	To Feet	To In.	Material	U_3O_8	V_2O_5
0		2		RSS		
2		15		LRUSTYSS		
15		16		LBRSS		
16		17		RMS		
17		20		BLMS		
20		45		LBRSS & RUSTYSS		
45		45	6	BLMS		
45	6	56		LBRSS		
56		62		LRUSTYSS Thin streak Blms		
62		66		BRSS & BLACKSS Samples		
66		71		BLMS		
71		74		RMS & RSS		

Total Depth 74 Total Ore Thickness

V.F.

LIPPOTH and WEIN DRILLING CO.

DAILY WAGON DRILL REPORT

Date August 7, 19 56

Location Lisbon Valley

Hole No. 3 Hours Worked

From Feet	From In.	To Feet	To In.	Material	U_3O_8	V_2O_5
0		2		RSS		
2		14		LBRSS & LRUSTYSS		
14		17		RMS		
17		21		BLMS		
21		22		RMS		
22		32		LBRSS & LRUSTY SS		
32		34		BLMS		
32		61	6	LBRSS LRUSTYSS		
61	6	63		BRSS & BLACK SS Sample		
63		71				

Total Depth 71 Total Ore Thickness

LIPPOTH and WEIN DRILLING CO.

DAILY WAGON DRILL REPORT

Date August 7, 19 56

Location Lisbon Valley

Hole No. 4 Hours Worked

From Feet	From In.	To Feet	To In.	Material	U_3O_8	V_2O_5
0		2		RSS		
2		12		LBRSS & LRUSTYSS		
12		13		RMS		
13		15		LBRSS		
15		18		RMS		
18		29		LRUSTYSS & LBRSS		
29		33		R..S & RSS		
33		41		LRUSTYSS & LBRS & LRSS		
41		44		LBRSS & LRUSTYSS		
44		44	6	BLMS		
44	6	59		LBRSS & LRUSTYSS		
59		60		BLMS		
60		65		RMS		

Total Depth 65 Total Ore Thickness

LIPPOTH and WEIN DRILLING CO.

DAILY WAGON DRILL REPORT

Date August 7, 19 56

Location Lisbon Valley

Hole No. 6 Hours Worked

From Feet	From In.	To Feet	To In.	Material	U_3O_8	V_2O_5
0		15		LRUSTYSS		
15		18		BLMS		
18		20		RMS		
20		45		LRUSTYSS & LBRSS streaks of BLMS		
45		53		LBRSS		
53		61		LRUSTYSS		
61		63		BLMS & LRUSTYSS		
63		68		RMS		

Total Depth 68 Total Ore Thickness

LIPPOTH and WEIN DRILLING CO.

DAILY WAGON DRILL REPORT

Date August 7, 19 56

Location Lisbon Valley

Hole No. 5 Hours Worked

From Feet	From In.	To Feet	To In.	Material	U_3O_8	V_2O_5
0		1		RSS		
1		16		LBRSS & LRUSTYSS		
16		22		RMS & BLMS		
22		30		LBRSS & LRUSTYSS		
30		34		RMS		
34		57		~~LBRSS & LRUSTYSS~~		
57		58		GRAYSS & BRSS Sample		
58		61		~~LRUSTYSS~~		
61		65		RMS		

Total Depth 65 Total Ore Thickness

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LIPPOTH and WEIN DRILLING CO.

DAILY WAGON DRILL REPORT

Date August 7, 19 56

Location Lisbon Valley

Hole No. 8 Hours Worked

From Feet	From In.	To Feet	To In.	Material	U_3O_8	V_2O_5
0		1		LRSS		
1		21		LRUSTYSS & LBRSS		
21		23		RMS 2'		
23		50		LRUSTYSS		
50		63		LBRSS	02	5.1
63		65		GRAYSS & BLMS Sample 2'		
65		68		BLMS 3'		
68		71		RMS 3'		
		8		5'		
		63'	55			

Total Depth 71 Total Ore Thickness

F

LIPPOTH and WEIN DRILLING CO.

DAILY WAGON DRILL REPORT

Date August 7, 19 56

Location Lisbon Valley

Hole No. 7 Hours Worked

From Feet	From In.	To Feet	To In.	Material	U_3O_8	V_2O_5
0		15		RUSTYSS		
15		23		RMS & RSS 1/2 8 8 4		
23		29		LRUSTYSS		
29		33		RMS 4'		
33		62		LRUSTYSS & LBRSS		
62		63		BLMS 1'		
63		68		RMS 5'		
		11		14'		
		54 55				

Total Depth 68 Total Ore Thickness

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LIPPOTH and WEIN DRILLING CO.

DAILY WAGON DRILL REPORT

Date August 7, 19 56

Location Lisbon Valley

Hole No. 9 Hours Worked

From Feet	From In.	To Feet	To In.	Material	U_3O_8	V_2O_5
0		9		LBRSS & LRUSTYSS		
9		18		RUSTYSS		
18		26		LBRSS		
26		29		RMS & RSS		
29		50		RUSTYSS		
50		66		LBRSS & LRUSTYSS		
66		72		BLMS & BRSS		
72		74		RMS		

Total Depth 74 Total Ore Thickness

LIPPOTH and WEIN DRILLING CO.

DAILY WAGON DRILL REPORT

Date August 7, 19 56

Location Lisbon Valley

Hole No. 10 Hours Worked

From Feet	From In.	To Feet	To In.	Material	U_3O_8	V_2O_5
0		4		LBRSS & LRUSTY		
4		6		RUSTYSS		
6		23		LRUSTY & LBRSS		
23		25		RMS		
25		32		LRUSTYSS & LBRSS		
32		44		RUSTYSS		
44		60		LBRSS & LRUSTYSS		
60		68		RUSTYSS Wet		
68		71		BLMS		
71		74		RMS		

Total Depth 74 Total Ore Thickness

LIPPOTH and WEIN DRILLING CO.

DAILY WAGON DRILL REPORT

Date August 7, 19 56

Location Lisbon Valley

Hole No. 11 Hours Worked

From Feet	From In.	To Feet	To In.	Material	U_3O_8	V_2O_5
0		14		LBRSS & LRUSTYSS		
14		18		RMS		
18		21		BLMS		
21		23		RMS & RSS		
23		29		LBRSS & LRUSTYSS		
29		34		RUSTYSS		
34		36		BLMS		
36		59		LRSS & LRUSTYSS		
59		61		GRAYSS & BRSS Samples		
61		65		RUSTYSS		
65		69		BLMS		
69		69	6	RMS		
69	6	71		BLMS		
71		74		RMS		

Total Depth 74 Total Ore Thickness

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LIPPOTH and WEIN DRILLING CO.

DAILY WAGON DRILL REPORT

Date August 8, 19 56

Location Lisbon Valley

Hole No. 12 Hours Worked

From Feet	From In.	To Feet	To In.	Material	U_3O_8	V_2O_5
0		16		LRUSTYSS		
16		18		RMS		
18		19		BLMS		
19		26		RMS & LBRSS		
26		29		LRUSTYSS & LBRSS		
29		35		RUSTYSS Wet		
35		45		LBRSS & RUSTYSS		
45		61		LBRSS		
61		66		RUSTYSS Wet		
66		72		BLMS Little Count		
72		74		RMS		

Total Depth 74 Total Ore Thickness

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LIPPOTH and WEIN DRILLING CO.

DAILY WAGON DRILL REPORT

Date August 8, 19 56

Location Lisbon Valley

Hole No. 13 Hours Worked

From Feet	From In.	To Feet	To In.	Material	U_3O_8	V_2O_5
0		16		RUSTYSS		
16		20		RMS		
20		28		LRUSTYSS & LBRSS		
28		33		RUSTYSS Wet		
33		34		RMS		
34		41		LBRSS & LRUS YSS		
41		58		LBRSS		
58		63		LRUSTYSS & LBRSS		
63		65		BLMS & RMS		
65		68		BLMS & LBRSS Little Count		
68		71		RMS		

Total Depth 71 Total Ore Thickness

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LIPPOTH and WEIN DRILLING CO.

DAILY WAGON DRILL REPORT

Date August 8, 19 56

Location Lisbon Valley

Hole No. 14 Hours Worked

From Feet	From In.	To Feet	To In.	Material	U_3O_8	V_2O_5
0		14		LRUSTYSS		
14		15	6	RMS		
15	6	17		BLMS		
17		21		RMS & LBRSS		
21		25		RUSTYSS & LBRSS		
25		31		RU TYSS		
31		32		RMS		
32		59		RUSTYSS & LBRSS		
59		60		RMS		
60		64		BLMS		
64		74		RMS & LRSS		

Total Depth 74 Total Ore Thickness

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LIPPOTH and WEIN DRILLING CO.

DAILY WAGON DRILL REPORT

Date August 8, 19 56

Location Lisbon Valley

Hole No. 15 Hours Worked

From Feet	From In.	To Feet	To In.	Material	U_3O_8	V_2O_5
0		13		LRUSTY & LRSS		
13		14		RMS		
14		19		BLMS		
19		21		RMS & LBRSS		
21		31	6	LBRSS & LRUSTYSS		
31	6	32		RMS		
32		38		RUSTYSS		
38		61		LRUSTYSS & LBRSS		
61		67		BLMS		
67		71		RMS		

Total Depth 71 Total Ore Thickness

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LIPPOTH and WEIN DRILLING CO.

DAILY WAGON DRILL REPORT

Date August 8, 19 56

Location Lisbon Valley

Hole No. 16 Hours Worked

From Feet	From In.	To Feet	To In.	Material	U_3O_8	V_2O_5
0		12		RMS Streaks of LBRSS & RSS		
12		20		RMS		
20		32		L RSS & RMS		
32		50		LRUSTYSS & LBRSS		
50		52		RMS		
52		60		LRUSTY & LBRSS		
60		62		RMS & SS		
62		64		LBRSS		
64		68		RMS		

Total Depth 68 Total Ore Thickness

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LIPPOTH and WEIN DRILLING CO.

DAILY WAGON DRILL REPORT

Date August 8, 1956

Location Lisbon Valley

Hole No. 17 Hours Worked

From Feet	From In.	To Feet	To In.	Material	U_3O_8	V_2O_5
0		5		RMS		
5		18		RMS & LBRSS		
18		29		RMS LRUSTYSS		
29		33		LBRSS & LRUSTYSS		
33		45		RUSTYSS		
45		50		LRUSTYSS & LBRSS		
50		56		RMS & RSS		
56		65		LBRSS Streaks of RMS		
65		68		RMS		

Total Depth 68 Total Ore Thickness

LIPPOTH and WEIN DRILLING CO.

DAILY WAGON DRILL REPORT

Date August 8, 1956

Location Lisbon Valley

Hole No. 18 Hours Worked

From Feet	From In.	To Feet	To In.	Material	U_3O_8	V_2O_5
0		6		RMS		
6		6	6	BLMS		
6	6	18		RMS & LRUSTYSS		
18		32		RMS & LBRSS		
32		41		LBRSS		
41		45		GRAYSS & RUSTYSS Lit le Count		
45		50		LBRSS Little BLMS		
50		53		RUSTYSS & RMS		
53		59		LBRSS		
59		61		RMS & BLMS		
61		65		RMS & LRSS		
65		67		LBRSS		
67		71		RMS & LBRSS		

Total Depth 71 Total Ore Thickness

LIPPOTH and WEIN DRILLING CO.

DAILY WAGON DRILL REPORT

Date August 8, 1956

Location Lisbon Valley

Hole No. 20 Hours Worked

From Feet	From In.	To Feet	To In.	Material	U_3O_8	V_2O_5
0		1		LBRSS		
1		12		RMS		
12		19		BLMS & RMS		
19		24		LRUSTYSS & LBRSS		
24		30		LBRSS & RMS		
30		38		RMS Streak of LBRSS		
38		39		LBRSS		
39		49		BLMS & LBRSS		
49		50		RUSTYSS		
50		53		LRUSTYSS		
53		56		RUSTYSS & RMS		
56		60		LBRSS		
60		61		RMS		
61		70		LBRSS & LRSS		
70		74		RMS		

Total Depth 74 Total Ore Thickness

LIPPOTH and WEIN DRILLING CO.

DAILY WAGON DRILL REPORT

Date August 8, 1956

Location Lisbon Valley

Hole No. 19 Hours Worked

From Feet	From In.	To Feet	To In.	Material	U_3O_8	V_2O_5
0		18	6	RMS & RSS		
18	6	20		LRUSTYSS		
20		35		LBRSS & RMS		
35		42		LBRSS		
42		46		DGRAYMS & RUSTYSS Little Count		
46		47		GRAYSS Little Count		
47		54		LBRSS & LRUSTYSS		
54		56		RMS		
56		59		LBRSS & RUSTYSS		
59		62		LBRSS & RMS Some BLMS		
62		69		LBRSS		
69		74		RMS & BLMS		

Total Depth 74 Total Ore Thickness

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LIPPOTH and WEIN DRILLING CO.

DAILY WAGON DRILL REPORT

Date August 8, 19 56

Location Lisbon Valley

Hole No. 21 Hours Worked

From Feet	From In.	To Feet	To In.	Material	U_3O_8	V_2O_5
0		24		RMS & RSS		
24		29		LRUSTYSS		
29		30		RMS Wet		

Total Depth 30 Total Ore Thickness

LIPPOTH and WEIN DRILLING CO.

DAILY WAGON DRILL REPORT

Date August 8, 19 56

Location LISBON VALLEY

Hole No. 22 Hours Worked

From Feet	From In.	To Feet	To In.	Material	U_3O_8	V_2O_5
0		28		RMS & RSS		
28		38		LBRSS & RMS		

Total Depth 38 Total Ore Thickness

LIPPOTH and WEIN DRILLING CO.

DAILY WAGON DRILL REPORT

Date August 8, 19 56

Location Lisbon Valley

Hole No. 23 Hours Worked

From Feet	From In.	To Feet	To In.	Material	U_3O_8	V_2O_5
0		30		RMS & RSS		
30		35		Cuttings wont return very good - Crack		

Total Depth 35 Total Ore Thickness

LIPPOTH and WEIN DRILLING CO.

DAILY WAGON DRILL REPORT

Date August 8, 19 56

Location Lisbon Valley

Hole No. 24 Hours Worked

From Feet	From In.	To Feet	To In.	Material	U_3O_8	V_2O_5
0		13		RMS & RSS		
13		20		LRUSTYSS & LBRSS		

Total Depth 20 Total Ore Thickness

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LIPPOTH and WEIN DRILLING CO.

DAILY WAGON DRILL REPORT

Date August 8, 19 56

Location Lisbon Valley

Hole No. 25 Hours Worked

From Feet	From In.	To Feet	To In.	Material	U_3O_8	V_2O_5
0		12		R S & RSS		
12		20		LRU TYSS & LBRSS		

Total Depth 20 Total Ore Thickness

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LIPPOTH and WEIN DRILLING CO.

DAILY WAGON DRILL REPORT

Date August 8, 9, 19 56

Location Lisbon Valley

Hole No. 26 Hours Worked

From Feet	From In.	To Feet	To In.	Material	U_3O_8	V_2O_5
0		1		LBRSS		
1		5		RMS		
5		15		RUSTYSS		
15		22		LRUSTYSS & LBRSS		
22		31		RUSTYSS wet		
31		38		RMS		

Total Depth 38 Total Ore Thickness

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LIPPOTH and WEIN DRILLING CO.

DAILY WAGON DRILL REPORT

Date August 9, 1956

Location Lisbon Valley

Hole No. 27 Hours Worked

From Feet	From In.	To Feet	To In.	Material	U_3O_8	V_2O_5
0		9		RMS		
9		32		RUSTYSS "et		
32		33		LBRSS & BLMS		
33		38		RMS Streaks of BLMS		

Total Depth 38 Total Ore Thickness

LIPPOTH and WEIN DRILLING CO.

DAILY WAGON DRILL REPORT

Date August 9, 1956

Location Lisbon Valley

Hole No. 28 Hours Worked

From Feet	From In.	To Feet	To In.	Material	U_3O_8	V_2O_5
0		4		RMS		
4		21		RUSTYSS "et		
21		23		RUSTYSS Streaks of RMS		
23		29		RUSTYSS "et		
29		30		LBRSS		
30		30	6	BLMS		
30	6	35		RMS Streak of LBRSS		
35		38		RMS & BLMS		

Total Depth 38 Total Ore Thickness

LIPPOTH and WEIN DRILLING CO.

DAILY WAGON DRILL REPORT

Date August 9, 1956

Location Lisbon Valley

Hole No. 30 Hours Worked

From Feet	From In.	To Feet	To In.	Material	U_3O_8	V_2O_5
0		1		RSS		
1		8		LBRSS		
8		9		LRUSTYSS		
9		31	6	RUSTYSS Damp		
31	6	33		RMS		
33		42		RUSTYSS & LBRSS		
42		46		RSS RMS		
46		52		LRUSTYSS & RSS		
52		63		LBRSS		
63		69		LRUSTYSS		
69		77		BLMS LITTLE COUNT		
77		81		RMS		

Total Depth 81 Total Ore Thickness

LIPPOTH and WEIN DRILLING CO.

DAILY WAGON DRILL REPORT

Date August 9, 1956

Location Lisbon Valley

Hole No. 31 Hours Worked

From Feet	From In.	To Feet	To In.	Material	U_3O_8	V_2O_5
0		1		RSS		
1		35		LBRSS & LRUSTYSS		
35		36	6	RSS		
36	6	41	6	LRUSTYSS		
41	6	46		RMS		
46		54		LRUSTYSS & LBRSS		
54		69		LBRSS		
69		78	6	GRAYSS & BLMS		
78	6	81		RMS		

Total Depth 81 Total Ore Thickness

LIPPOTH and WEIN DRILLING CO.

DAILY WAGON DRILL REPORT

Date August 9, 1950

Location Lisbon Valley

Hole No. 32 Hours Worked

From Feet	From In.	To Feet	To In.	Material	U_3O_8	V_2O_5
0		4		RSS		
4		12		LBRSS		
12		44		LRUSTYSS & LBRSS		
44		49		RMS & RSS		
49		54		LRUSTYSS		
54		63		LBRSS		
63		71		LRUSTYSS		
71		72		GRAYSS Sample		
72		76		LRUSTYSS Some count		
76		80		BLMS Some count		
80		84		RMS		

Total Depth 84 Total Ore Thickness

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UNION CARBIDE NUCLEAR COMP

A Division of Union Carbide and Carbon Corporation
RIFLE, COLORADO

LOAD DETAIL

PERIOD 12 30 55 thru 1 12 56

NAME Algonquin Mines ADDRESS [illegible]

CLAIM Peach #1

SHIPPED DATE	TICKET NUMBER	POUNDS ORE	LAB'Y ASSAY NO.	PER CENT MOISTURE	POUNDS DRY ORE	GRADE U.O.	POUNDS U.O.	GRADE V.O.	POUNDS V.O.
12-31	14207	14300	9.56	9.4	12958.90	0.20	26.20	1.57	203.65
1-12	14354	19140	12.56	8.5	17512.10	0.19	33.49	1.34	234.68
1-14	14388	20000	13.56	6.8	18626.00	0.17	31.60	1.09	203.01
		53640		7.8	49097.30	0.19	91.49	1.31	641.34

TOTAL

UNION CARBIDE NUCLEAR COMPANY

A Div. of Union Carbide and Carbon Corporation

ORE SETTLEMENT

Date: [illegible] 19 56

Lot No. [illegible] Lot No. [illegible] Shipper's Lot No. [illegible]

Name of Shipper [illegible] Shipper's License No. [illegible]

Place of Ore [illegible] Date Received [illegible]

Mining District [illegible] File No. [illegible]

Lot No.	Net Weight Pounds	% H_2O	Dry Weight Pounds	SETTLEMENT ASSAYS % U_3O_8	SETTLEMENT ASSAYS % V_2O_5	SETTLEMENT ASSAYS % $CaCO_3$	CONTENTS POUNDS U_3O_8	CONTENTS POUNDS V_2O_5	CONTENTS POUNDS $CaCO_3$
[illegible]	53640	[illegible]	49428.30	[illegible]	[illegible]		91.47	645.54	

PRICED PER A.E.C. CIRCULAR NO. [illegible]

	Pounds	Price	Unit	Per Ton	Value	Total Value
U_3O_8 Payment	91.47	30.00	24.72		30.75	
Development Allowance	91.47	30.00	24.72		45.71	
Excess 4 lbs. per ton Premium						
Excess 10 lbs. per ton Premium						
Total U_3O_8 Payment						34.759
V_2O_5 Payment	645.54	31	24.72		200.12	
Total V_2O_5 Payment						200.12
Less High Lime Penalty over 5% $CaCO_3$						
Base Penalty						
[illegible] % Penalty @ $ 0[illegible] per 1/10th						
TOTAL						
Haulage Allowance [illegible] Miles [illegible] Wet Tons @ .06 per wet ton mile						[illegible]
Total U_3O_8, V_2O_5 and Haulage Payment						695.76

I Certify that I am the lawful owner or authorized Representative of the Lawful Owner, of the Ore described in this Settlement and have the legal right to deliver the same to the Union Carbide Nuclear Company, a Division of Union Carbide and Carbon Corporation.

I certify that I hold the A.E.C. Source Material License numbered above.

I hereby transfer to the Union Carbide Nuclear Company, a division of Union Carbide and Carbon Corporation, effective as of the date of delivery of the ore, all my right, title and interest in and to said ore.

The amount set opposite "Total U_3O_8, V_2O_5 and Haulage Payment" shown above constitutes the entire amount payable to me in respect of the deliveries described herein and is accepted by me in full payment thereof.

It is agreed that payment be made on the basis of the average of moisture contents, of U_3O_8 contents and of V_2O_5 contents of the several loads delivered and covered by this settlement.

Voucher Number	Date
Check Number [illegible]	Date [illegible]
By [illegible]	Seller or Agent
Authorized Officer of Payment	
[illegible]	

UNION CARBIDE NUCLEAR COMPANY

A DIVISION OF UNION CARBIDE AND CARBON CORPORATION

MINTZ, COLORADO

Purchased Ore LOAD DETAIL

PERIOD 1-29-56 thru 3-29-56

NAME Algonquin Mines ADDRESS St Louis Mo

CLAIM Bench #1

DATE SHIPPED	TICKET NUMBER	POUNDS ORE	% H_2O	POUNDS DRY ORE	U_3O_8 GRADE	POUNDS U_3O_8	V_2O_5 GRADE	POUNDS V_2O_5	$CaCO_3$ GRADE	POUNDS $CaCO_3$
2-2	14528	23480	8.4	21507.68	0.11	23.66	0.65	139.80	4.5	967.85
2-3	14539	20780	8.5	19013.70	0.11	20.92	0.71	135.00	7.9	1502.08
2-3	14548	20920	6.4	19581.12	0.11	21.54	0.71	139.03	7.9	1546.91
2-7	14577	19420	9.2	17633.36	0.12	21.16	0.86	151.65	5.8	1022.73
3-15	14919	23000	4.9	21873.00	0.29	63.43	1.13	247.16	9.1	1990.44
3-23	14993	24220	8.5	22161.30	0.30	66.48	1.77	392.26	7.5	1662.10
		131820	7.6	121770.16	0.18	217.19	0.99	1204.90	7.1	8692.11

TOTAL

UNION CARBIDE NUCLEAR COMPANY
Division of Union Carbide and Carbon Corporation

ORE SETTLEMENT

Receiving Station [illegible] Mill: Colorado [illegible] Date 30 56

Liquidation No. R-1348 Lot No. [illegible] Shippers Lot No.

Recent Prod. [illegible] A.E.C. License No. [illegible]

Address [illegible]

Type of Ore [illegible]

Mining Claim [illegible] Mining District [illegible] Date Received 1-30-56 [illegible] 3-27-56

File No.

Lot No.	Net Weight Pounds	% H_2O	Dry Weight Pounds	SETTLEMENT ASSAYS U_3O_8	V_2O_5	$CaCO_3$	CONTENTS POUNDS U_3O_8	V_2O_5	$CaCO_3$
	131820	7.6	121770.16	0.18	0.99	7.1	217.19	1204.90	8692.11

PRICED PER A.E.C. CIRCULAR NO. 3 (Revised)

	POUNDS	PER LB	DRY SHORT TONS	PER TON	VALUE	TOTAL VALUE
U3O8 Payment	217.19	3.10	60.89		673.39	
Development Allowance	217.19	.50	60.89		101.60	
Excess 4 lbs. per ton Premium						
Excess 10 lbs. per ton Premium						
Total U3O8 Payment						771.99
V2O5 Payment	1204.90	.31	60.89		373.52	
Total V2O5 Payment						373.52
Less High Lime Penalty over 6% CaCO3						
Base Penalty				1.00		
7.1% - 6.0% = 1.1% Penalty @ $ .09 per 1/10th			60.89	33		
TOTAL						80.98
Haulage Allowance 97 Miles 65.91 Wet Tons @ .06 per wet ton mile						363.82
Total U3O8, V2O5 and Haulage Payment						1588.25

I certify that I am the lawful owner or authorized Representative of the Lawful Owner, of the Ore described in this Settlement Sheet and have legal right to deliver the same to the Union Carbide Nuclear Company, a Division of Union Carbide and Carbon Corporation.

I certify that I hold the A.E.C. Source Material License numbered above.

I hereby transfer to the Union Carbide Nuclear Company, a division of Union Carbide and Carbon Corporation, effective as of the date of delivery of the ore, all my right, title and interest in and to said ore.

The amount set opposite "Total U3O8, V2O5 and Haulage Payment" shown above constitutes the entire amount payable to me in respect of ore deliveries described herein and is accepted by me in full payment thereof.

I request that payment be made on the basis of the average of moisture contents, U_3O_8 contents and of V_2O_5 contents of the several loads delivered and covered by this settlement.

Voucher Number	Date
Check Number 14094	Date 4-5-56
Approved for Payment [signature]	

[signature]
Seller or Agent

Confirmation Telegram

UNION CARBIDE NUCLEAR COMPANY
A Division of Union Carbide and Carbon Corporation

ORE SETTLEMENT

Receiving Station: Thompson Utah — Rifle, Colorado: April 19, 1956

Liquidation No.: R-1369 — Lot No.: See food detail — Shippers Lot No.: P-2457

Bought of: Algonquin Mines — A.E.C. License No.:

Address: C/o Dudley E. David, Room 600, 418 Olive St., St. Louis 2, Mo

Type of Ore: Carnotite — Date Received: 3-30-56 then 4-15-56

Mining Claim: Buck #1 — Mining District: Montezuma - Gordon Valley, San Juan Co. Utah — Pile No.:

Lot No.	Net Weight Pounds	% H_2O	Dry Weight Pounds	SETTLEMENT ASSAYS U_3O_8	SETTLEMENT ASSAYS V_2O_5	SETTLEMENT ASSAYS $CaCO_3$	CONTENTS POUNDS U_3O_8	CONTENTS POUNDS V_2O_5	CONTENTS POUNDS $CaCO_3$
	44720	9.0	40714.06	0.20	1.44	6.4	81.43	586.28	2605.70

PRICED PER A.E.C. CIRCULAR NO. 5 (Revised)

	POUNDS	PER LB.	DRY SHORT TONS	PER TON	VALUE	TOTAL VALUE
U308 Payment	81.43	3.50	20.36		285.01	
Development Allowance	81.43	.50	20.36		40.72	
Excess 4 lbs. per ton Premium						
Excess 10 lbs. per ton Premium						
Total U308 Payment						325.73
V205 Payment	586.28	.31	20.36		181.75	
Total V205 Payment						181.75
Less High Lime Penalty over 6% CaCo3						
Base Penalty			20.36	1.00 .12		
6.4 % - 6.0 % = 0.4 % Penalty @ $ .03 per 1/10th						
TOTAL						22.80
Haulage Allowance 72 Miles 22.36 Wet Tons @ .06 per wet ton mile						123.43
Total U308, V205 and Haulage Payment						608.11

I certify that I am the lawful owner or authorized Representative of the Lawful Owner, of the Ore described in this Settlement Sheet and have legal right to deliver the same to the Union Carbide Nuclear Company, a Division of Union Carbide and Carbon Corporation.

I certify that I hold the A.E.C. Source Material License numbered above.

I hereby transfer to the Union Carbide Nuclear Company, a division of Union Carbide and Carbon Corporation, effective as of the date of delivery of the ore, all my right, title and interest in and to said ore.

The amount set opposite "Total U308, V205 and Haulage Payment" shown above constitutes the entire amount payable to me in respect of ore deliveries described herein and is accepted by me in full payment thereof.

ALGONQUIN MINES
By Chas. D. Long Gastrow
Seller or Agent

Voucher Number	Date
Check Number 1509	Date 4-19-56
Approved for Payment	

1M-9-55 Rifle Telegram

UNITED STATES VANADIUM COMPANY
A Division of Union Carbide and Carbon Corporation
RIFLE, COLORADO

Timberline Coal — LOAD DETAIL

PERIOD 3-30-56 thru 4-15-56

NAME Algonquin mines ADDRESS 418 Cross Street Salt Lake City, Utah

NAME Bank #1

DATE	TICKET NUMBER	POUNDS GROSS	H_2O	POUNDS DRY GROSS	U_3O_8 GRADE	POUNDS U_3O_8	V_2O_5 GRADE	POUNDS V_2O_5	$CaCO_3$ GRADE	POUNDS $CaCO_3$
4-13	15125	23060	9.2	20938.48	0.20	41.88	1.44	301.54	6.4	1340.06
4-14	15138	21660	8.1	19915.58	0.20	39.83	1.44	286.77	6.4	1265.64
		44720	9.0	40854.06	0.20	81.43	1.44	586.28	6.4	2605.70

TOTAL

CLIMAX URANIUM COMPANY
GRAND JUNCTION, COLORADO

Receiving Station CLIMAX URANIUM COMPANY — Grand Junction, Colorado, May 9, 19 56
Liquidation No. 2412 — Lot No. — Shippers Lot. No.
Bought of Algonquin Mines — A.E.C. License No. P-2457
Address c/o Charles D. Long - 418 Olive Street, St. Louis, Mo.
Type of Ore Carnotite — Date Received 4/16/56 thru 4/30/56
Mining Claim Ranch #1 — Mining District Montezuma (Lisbon Valley) — File No.

Lot No.	Wet Weight Pounds	H_2O	Dry Weight Pounds	SETTLEMENT ASSAYS U_3O_8	V_2O_5	$CaCO_3$	CONTENTS POUNDS U_3O_8	V_2O_5	$CaCO_3$
5-693	23,340	7.1	21,688	0.15	1.35	6.53	32.52	292.72	1,849.56
5-661	24,420	6.7	22,765	0.14	1.45	6.98	31.87	330.09	1,589.08
	47,760	6.9	44,453	0.144866	1.401210	7.74	64.39	622.81	3,438.56

	Per Lb.	Per Ton	Short Tons	Total Value
U3O8				
0.144866% = 64.39 lbs. at	$2.30	$6.67	22.22	$148.10
Development allowance 64.39 lbs. at	.50	1.45	22.22	32.20
Total U3O8 Payment				$180.30
Haulage allowance 10.69 per wet ton				255.17
V2O5				
1.401210% = 622.81 lbs. at	.31	8.69	22.22	193.07
				$628.54
Less: Ranch Mill Charge 22.22 tons @ $1.52 per ton				33.77
Net Proceeds				$594.77

I certify that I am the lawful owner or authorized Representative of the Lawful Owner, of the Ore described in this Settlement Sheet and have legal right to deliver the same to Climax Uranium Company.

I hereby transfer to Climax Uranium Company, effective as of the date of delivery of the ore, all my right, title and interest in and to said ore.

I will accept the amount as shown above as "Total Gross Price" in full settlement, for sums due to me on account of the ore deliveries described herein.

Buyers assays govern if Seller fails to submit his assays prior to acceptance of payment.
All rates paid are based on U. S. Atomic Energy Commission Published Schedules.

Seller or Agent

CU-178 10M-2-56 W&Y

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CLIMAX URANIUM COMPANY
GRAND JUNCTION, COLORADO

Receiving Station CLIMAX URANIUM COMPANY — Grand Junction, Colorado May 22, 19 56
Liquidation No. 2445 — Lot No. — Shippers Lot. No.
Bought of Algonquin Mines — A.E.C. License No. R-2456
Address c/o Charles D. Long - 410 Olive Street - St. Louis, Missouri
Type of Ore Carnotite — Date Received 5/1/56 thru 5/15/56
Mining Claim Bunch #1 — Mining District Monticello (Lisbon Valley) — Pile No.

Lot No.	Wet Weight Pounds	H_2O	Dry Weight Pounds	SETTLEMENT ASSAYS U_3O_8	SETTLEMENT ASSAYS V_2O_5	SETTLEMENT ASSAYS $CaCO_3$	CONTENTS POUNDS U_3O_8	CONTENTS POUNDS V_2O_5	CONTENTS POUNDS $CaCO_3$
5-933	50,700	5.2	46,140	0.11	1.28	11.22	52.95	616.19	5,401.31

	Per Lb.	Per Ton	Short Tons	Total Value
U_3O_8				
0.11% = 52.95 lbs. at	$1.70	$3.74	24.07	$ 90.02
Development allowance 52.95 lbs. at	.50	1.10	24.07	26.48
Total U_3O_8 Payment				$116.50
Smelter allowance $10.6914 per wet ton				271.45
V_2O_5				
1.28% = 616.19 lbs. at	.31	7.94	24.07	191.02
				$578.97
Less: Excess Lime Charge				
24.07 tons @ $2.57 per ton				61.86
Net Proceeds				$517.11

I certify that I am the lawful owner or authorized Representative of the Lawful Owner, of the Ore described in this Settlement Sheet and have legal right to deliver the same to Climax Uranium Company.

I hereby transfer to Climax Uranium Company, effective as of the date of delivery of the ore, all my right, title and interest in and to said ore.

I will accept the amount as shown above as "Total Gross Price" in full settlement, for sums due to me on account of the ore deliveries described herein.

Buyers assays govern if Seller fails to submit his assays prior to acceptance of payment.
All rates paid are based on U. S. Atomic Energy Commission Published Schedules.

CU-178 10M-2-56 W&Y

ALGONQUIN MINES
Seller or Agent

By _____

UNION CARBIDE NUCLEAR COMPANY

A Division of Union Carbide and Carbon Corporation

GRAND JUNCTION, COLORADO

Finished Ore — LOAD DETAIL

PERIOD 6-16-56 thru 6-28-56

NAME Algoma Mines — ADDRESS St. Louis, Mo.

CHARGE Grant No. 1

DATE FINISHED	TICKET NUMBER	POUNDS ORE	% H_2O	POUNDS DRY ORE	% U_3O_8 GRADE	POUNDS U_3O_8	% V_2O_5 GRADE	POUNDS V_2O_5	% $CaCO_3$ GRADE	POUNDS $CaCO_3$
6-27	15942	20620	7.0	19176.60	0.75	143.82	1.09	209.02	9.1	1745.07
6-28	15965	24200	3.8	23280.40	0.76	174.60	1.09	253.76	9.1	2118.52
		44820	5.3	42457.00	0.75	318.42	1.09	462.78	9.1	3863.59

TOTAL

UNION CARBIDE NUCLEAR COMPANY
A Division of Union Carbide and Carbon Corporation

ORE SETTLEMENT

Receiving Station [illegible] Rifle, Colorado June 20, 1956
Liquidation No. R-1[illegible] Lot No. T-1596 Shippers Lot No.
Bought of [illegible] A.E.C. License No. [illegible]
Address [illegible]
Type of Ore [illegible] Date Received [illegible]
Mining Claim [illegible] Mining District [illegible] Pile No.

Lot No.	Net Weight Pounds	% H_2O	Dry Weight Pounds	SETTLEMENT ASSAYS U_3O_8	SETTLEMENT ASSAYS V_2O_5	SETTLEMENT ASSAYS $CaCO_3$	CONTENTS POUNDS U_3O_8	CONTENTS POUNDS V_2O_5	CONTENTS POUNDS $CaCO_3$
	25040	49	23813.08	0.17	1.08	8.7	40.48	257.18	2071.73

PRICED PER A.E.C. CIRCULAR NO. [illegible]

	Pounds	Price	Dry Short Ton	Per Ton	Value	Total Value
U_3O_8 Payment	40.48	2.90	11.91		117.39	
Development Allowance	40.48	.50	11.91		20.24	
Excess 4 lbs. per ton Premium						
Excess 10 lbs. per ton Premium						
Total U_3O_8 Payment						137.63
V_2O_5 Payment	257.18	.31	11.91		79.73	
Total V_2O_5 Payment						79.73
Less High Lime Penalty over 6% $CaCO_3$						
Base Penalty				1.00		
8.7 - 6.0 % = 2.7 % Penalty @ $ [illegible] per 1/10th			11.91	.81		
TOTAL						217.36
Haulage Allowance 9 Miles 1.5 Wet Tons @ .06 per wet ton mile						8.11
Total U_3O_8, V_2O_5 and Haulage Payment						209.25

I certify that I am the lawful owner or authorized Representative of the Lawful Owner, of the Ore described in this Settlement Sheet and have legal rights to deliver the same to the Union Carbide Nuclear Company, a Division of Union Carbide and Carbon Corporation.

I certify that I hold the A.E.C. Source Material License, numbered above.

I hereby transfer to the Union Carbide Nuclear Company, a division of Union Carbide and Carbon Corporation, effective as of the date of delivery of the ore, all my right, title and interest in and to said ore.

The amount set opposite "Total U_3O_8, V_2O_5 and Haulage Payment" shown above constitutes the entire amount payable to me in respect of ore deliveries described herein and is accepted by me in full payment thereof.

Voucher Number		Date	
Check Number	2007	Date	6-24-56
Approved for Payment			

Seller or Agent

UNION CARBIDE NUCLEAR COMPANY
A Division of Union Carbide and Carbon Corporation

ORE SETTLEMENT

Receiving Station: Thompson Utah — Rifle, Colorado — July 9, 1956

Liquidation No.: R-1488 — Lot No.: See Lot List — Shippers Lot No.:

Bought of: Algonquin Mines — A.E.C. License No.: P-2457

Address: % G. E. Dent 448 Olive St. St. Louis Mo.

Type of Ore: Carnotite — Date Received: 6-16-56 to 6-21-56

Mining Claim: Branch #1 — Mining District: Montrose - Ouray Counties — File No.:

Lot No.	Net Weight Pounds	% H_2O	Dry Weight Pounds	Settlement Assays U_3O_8	Settlement Assays V_2O_5	Settlement Assays $CaCO_3$	Contents Pounds U_3O_8	Contents Pounds V_2O_5	Contents Pounds $CaCO_3$
	44820	5.3	42457.00	0.75	1.09	9.1	318.42	462.78	3863.59

PRICED PER A.E.C. CIRCULAR NO.

	Pounds	Per Lb.	Dry Short Tons	Per Ton	Value	Total Value
U3O8 Payment	318.42	3.50	21.23		1114.47	
Development Allowance	318.42	.50	21.23		159.21	
Excess 4 lbs. per ton Premium	233.50	.75	21.23		175.13	
Excess 10 lbs. per ton Premium	106.12	.25	21.23		26.53	
Total U3O8 Payment						1475.34
V2O5 Payment	462.78	.31	21.23		143.46	
Total V2O5 Payment						143.46
Less High Lime Penalty over 6% CaCO3						
Base Penalty				1.00		
9.1% - 6.0% = 3.1% Penalty @ $ .03 per 1/10th			21.23	.93		
TOTAL						40.97
Haulage Allowance 97 Miles 22.41 Wet Tons @ .087 per wet ton mile						179.37
Total U3O8, V2O5 and Haulage Payment						1757.20

I certify that I am the lawful owner or authorized Representative of the Lawful Owner, of the Ore described in this Settlement Sheet and have legal right to deliver the same to the Union Carbide Nuclear Company, a Division of Union Carbide and Carbon Corporation.

I certify that I hold the A.E.C. Source Material License numbered above.

I hereby transfer to the Union Carbide Nuclear Company, a division of Union Carbide and Carbon Corporation, effective as of the date of delivery of the ore, all my right, title and interest in and to said ore.

The amount set opposite "Total U3O8, V2O5 and Haulage Payment" shown above constitutes the entire amount payable to me in respect of ore deliveries described herein and is accepted by me in full payment thereof.

ALGONQUIN MINES

By Chas. D. Tong Partner
Seller or Agent

Voucher Number	Date
Check Number	Date
Approved for Payment	

Mail Check to:

UNION CARBIDE MINING COMPANY

[redacted] VANADIUM COMP[redacted]

A Division of Union Carbide and Carbon Corporation

RIFLE, COLORADO

Purchased Ore LOAD DETAIL

PERIOD 7-16-56 thru 8-15-56

NAME Algonquin Mines ADDRESS St Louis Mo

CLAIM Bench #1

DATE SHIPPED	TICKET NUMBER	POUNDS ORE	% H_2O	POUNDS DRY ORE	U_3O_8 GRADE	POUNDS U_3O_8	V_2O_5 GRADE	POUNDS V_2O_5	$CaCO_3$ GRADE	POUNDS $CaCO_3$
7-20	16059	26620	7.2	24703.36	0.16	39.53	0.89	219.86	5.9	1457.50
7-25	16132	23480	7.0	21836.40	0.11	24.02	0.69	150.67	9.8	2139.97
7-27	16184	25460	6.8	23728.72	0.15	35.59	0.78	185.08	7.9	1874.57
		75560	7.0	70268.48	0.14	99.14	0.79	555.61	7.8	5472.04
8-30	16666	25000	6.2	23450.00	0.24	56.28	1.59	372.86	4.6	1078.70
9-6	16720	27560	6.8	25685.92	0.23	59.08	1.46	375.01	5.9	1515.47
9-11	16762	24160	6.8	22517.12	0.24	54.04	1.56	351.27	6.7	1508.65
9-13	16814	27060	5.8	25374.52	0.28	76.65	1.75	474.05	7.3	1998.34
9-14	16834	26200	5.9	24654.20	0.26	64.10	1.64	404.33	1.4	1824.41
		207540	6.5	193950.24	0.21	409.29	1.31	2538.13	6.9	13397.61

TOTAL

C 1 50

UNION CARBIDE NUCLEAR COMPANY
A Division of Union Carbide and Carbon Corporation

ORE SETTLEMENT

Receiving Station Thompson Utah Rifle, Colorado July 23 1956
Liquidation No. R-1506 Lot No. T-15945 Shippers Lot No.
Bought of Algonquin Mines A.E.C. License No. P-2457
Address c/o A. C. Dixid 418 Olive St St. Louis Mo
Type of Ore Carnotite Date Received 7-13-56
Mining Claim Bench #1 Mining District Monticello - Indian Valley San Juan Co. Utah Pile No.

Lot No.	Net Weight Pounds	% H_2O	Dry Weight Pounds	SETTLEMENT ASSAYS U_3O_8	V_2O_5	$CaCO_3$	CONTENTS POUNDS U_3O_8	V_2O_5	$CaCO_3$
	23320	9.0	21221.20	0.15	1.01	6.9	31.83	214.33	1464.26

PRICED PER A.E.C. CIRCULAR NO. 51 (Revised)

	POUNDS	PER LB.	DRY SHORT TONS	PER TON	VALUE	TOTAL VALUE
U308 Payment	31.83	2.50	10.61		79.58	
Development Allowance	31.83	.50	10.61		15.92	
Excess 4 lbs. per ton Premium						
Excess 10 lbs. per ton Premium						
Total U308 Payment						95.50
V205 Payment	214.33	.31	10.61		66.44	
Total V205 Payment						66.44
Less High Lime Penalty over 6% CaCo3						
Base Penalty				1.00		
6.9 % - 6.0 % = .09 % Penalty @ $.03 per 1/10th			10.61	.27		
TOTAL						13.47
Haulage Allowance 92 Miles 11.66 Wet Tons @ .06 per wet ton mile						64.36
Total U308, V205 and Haulage Payment						212.83

I certify that I am the lawful owner or authorized Representative of the Lawful Owner, of the Ore described in this Settlement Sheet and have legal right to deliver the same to the Union Carbide Nuclear Company, a Division of Union Carbide and Carbon Corporation.

I certify that I hold the A.E.C. Source Material License numbered above.

I hereby transfer to the Union Carbide Nuclear Company, a division of Union Carbide and Carbon Corporation, effective as of the date of delivery of the ore, all my right, title and interest in and to said ore.

The amount set opposite "Total U308, V205 and Haulage Payment" shown above constitutes the entire amount payable to me in respect of ore deliveries described herein and is accepted by me in full payment thereof.

ALGONQUIN MINES

By Chas. D. Young Partner
Seller or Agent

Voucher Number		Date	
Check Number	2243	Date	7-24-56
Approved for Payment			

(M-9-85 Rifle Telegram)

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UNION CARBIDE NUCLEAR COMPANY
A Division of Union Carbide and Carbon Corporation

ORE SETTLEMENT

Receiving Station Thompson Utah Rifle, Colorado, August 24 1956
Liquidation No. R-1559 Lot No. T-16464 Shippers Lot No.
Bought of Algonquin Mines A.E.C. License No. R-2457
Address 40 A.E. David 418 Olive St St. Louis Mo
Type of Ore Carnotite Date Received 9-15-56
Mining Claim Branch #1 Mining District Mon. Lisbon - Fisher Valley San Juan Co. Utah Pile No.

Lot No.	Net Weight Pounds	% H_2O	Dry Weight Pounds	SETTLEMENT ASSAYS U_3O_8	V_2O_5	$CaCO_3$	CONTENTS POUNDS U_3O_8	V_2O_5	$CaCO_3$
	18760	8.8	17109.12	0.14	1.48		32.51	253.21	

PRICED PER A.E.C. CIRCULAR NO. 5 (Revised)

	POUNDS	PER LB.	DRY SHORT TONS	PER TON	VALUE	TOTAL VALUE
U308 Payment	32.51	3.30	8.55		107.28	
Development Allowance	32.51	.50	8.55		16.26	
Excess 4 lbs. per ton Premium						
Excess 10 lbs. per ton Premium						
Total U308 Payment						123.54
V205 Payment	253.21	.31	8.55		78.50	
Total V205 Payment						78.50
Less High Lime Penalty over 6% CaCo3						
Base Penalty						
....% — ....% = ...% Penalty @ $ .04 per 1/10th						
TOTAL						
Haulage Allowance 92 Miles 9.38 Wet Tons @ .06 per wet ton mile						37.78
Total U308, V205 and Haulage Payment						253.82

I certify that I am the lawful owner or authorized Representative of the Lawful Owner, of the Ore described in this Settlement Sheet and have legal right to deliver the same to the Union Carbide Nuclear Company, a Division of Union Carbide and Carbon Corporation.

I certify that I hold the A.E.C. Source Material License numbered above.

I hereby transfer to the Union Carbide Nuclear Company, a division of Union Carbide and Carbon Corporation, effective as of the date of delivery of the ore, all my right, title and interest in and to said ore.

The amount set opposite "Total U308, V205 and Haulage Payment" shown above constitutes the entire amount payable to me in respect of ore deliveries described herein and is accepted by me in full payment thereof.

Voucher Number		Date	
Check Number	2580	Date	8-24-56
Approved for Payment			

Chas. D. Young
Agent or Assist

2/h

UNION CARBIDE NUCLEAR COMPANY
A Division of Union Carbide and Carbon Corporation

ORE SETTLEMENT

Receiving Station Thompson Utah Rifle, Colorado, Sept 26, 1956
Liquidation No. R-1608 Lot No. See load detail Shippers Lot No.
Bought of Algonquin Mines A.E.C. License No. P-2457
Address c/o G.E. David 418 Olive St St Louis Mo
Type of Ore Carnotite Date Received 7-16-56 thru 8-15-56
Mining Claim Bonk #1 Mining District Monticello - Fisher Valley San Juan Co. Utah File No.

Lot No.	Net Weight Pounds	% H_2O	Dry Weight Pounds	SETTLEMENT ASSAYS U_3O_8	V_2O_5	$CaCO_3$	CONTENTS POUNDS U_3O_8	V_2O_5	$CaCO_3$
	207540	6.5	193950.24	0.21	1.31	6.9	409.29	2538.13	13397.61

PRICED PER A.E.C. CIRCULAR NO. 5 (Revised)

	POUNDS	PER LB.	DRY SHORT TONS	PER TON	VALUE	TOTAL VALUE
U3O8 Payment	409.29	3.50	96.98		1432.52	
Development Allowance	409.29	.50	96.98		204.65	
Excess 4 lbs. per ton Premium	21.37	.75	96.98		16.03	
Excess 10 lbs. per ton Premium						
Total U3O8 Payment						1653.20
V2O5 Payment	2538.13	.31	96.98		786.82	
Total V2O5 Payment						786.82
Less High Lime Penalty over 6% CaCo3						
Base Penalty				1.00		
6.9% - 6.0% = 0.9% Penalty @ $ .07 per 1/10th			96.98	.27		
TOTAL						123.16
Haulage Allowance 92 Miles 103.77 Wet Tons @ .06 per wet ton mile						372.81
Total U3O8, V2O5 and Haulage Payment						2889.67

I certify that I am the lawful owner or authorized Representative of the Lawful Owner, of the Ore described in this Settlement Sheet and have legal right to deliver the same to the Union Carbide Nuclear Company, a Division of Union Carbide and Carbon Corporation.

I certify that I hold the A.E.C. Source Material License numbered above.

I hereby transfer to the Union Carbide Nuclear Company, a division of Union Carbide and Carbon Corporation, effective as of the date of delivery of the ore, all my right, title and interest in and to said ore.

The amount set opposite "Total U3O8, V2O5 and Haulage Payment" shown above constitutes the entire amount payable to me in respect of ore deliveries described herein and is accepted by me in full payment thereof.

I request that payment be made on the basis of the average of moisture contents, of U3O8 contents and of V2O5 contents of the several loads delivered and covered by this settlement.

ALGONQUIN MINES

By Chas. E. Long
Seller or Agent

Voucher Number		Date	
Check Number	2858	Date	9-27-56
Approved for Payment			

Thomas Kinghorn

UNION CARBIDE NUCLEAR COMPANY

A Division of Union Carbide and Carbon Corporation

RIFLE, COLORADO

Purchased Ore

LOAD DETAIL

PERIOD 9-16-56 thru 9-28-56

NAME Algonquin Mines ADDRESS St. Louis Mo

CLAIM Beach #1

DATE SHIPPED	TICKET NUMBER	POUNDS ORE	H_2O %	POUNDS DRY ORE	U_3O_8 GRADE	POUNDS U_3O_8	V_2O_5 GRADE	POUNDS V_2O_5	$CaCO_3$ GRADE	POUNDS $CaCO_3$
9-24	16967	25640	6.9	23870.84	0.23	54.90	1.35	322.26	9.2	2196.12
9-27	17023	25000	5.3	23675.00	0.27	63.92	1.57	371.20	14.7	3480.23
9-28	17066	24660	5.5	23303.70	0.23	53.60	1.30	302.95	10.8	2516.80
		75300	5.9	70849.54	0.24	172.42	1.41	996.41	11.6	8193.15

TOTAL

1/30

UNION CARBIDE NUCLEAR COMPANY
A Division of Union Carbide and Carbon Corporation

ORE SETTLEMENT

Receiving Station Thompson Creek — Rifle, Colorado, October 5 1956

Liquidation No. R-1627 — Lot No. see bad detail — Shippers Lot No.

Bought of Algonquin Mines — A.E.C. License No. P-2457

Address % G. S. David 418 Olive St St. Louis Mo

Type of Ore Carnotite — Date Received 9-16-56 Chm 9-28-56

Mining Claim Bench #1 — Mining District Montrose - Gibson Valley — File No. San Juan Co Utah

Lot No.	Net Weight Pounds	% H_2O	Dry Weight Pounds	SETTLEMENT ASSAYS U_3O_8	V_2O_5	$CaCO_3$	CONTENTS POUNDS U_3O_8	V_2O_5	$CaCO_3$
	753 00	5.9	70849.54	approx average 0.24	1.41	11.6	172.42	996.91	8193.15

PRICED PER A.E.C. CIRCULAR NO. 3 (Revised)

	POUNDS	PER LB.	DRY SHORT TONS	PER TON	VALUE	TOTAL VALUE
U3O8 Payment	172.42	3.50	35.42		603.47	
Development Allowance	172.42	.50	35.42		86.21	
Excess 4 lbs. per ton Premium	30.74	.75	35.42		23.06	
Excess 10 lbs. per ton Premium						
Total U3O8 Payment						712.74
V2O5 Payment	996.91	.31	35.42		309.04	
Total V2O5 Payment						309.04
Less High Lime Penalty over 6% CaCo3						
Base Penalty				1.00		
11.6% - 6.0% = 5.6% Penalty @ $.03 per 1/10th			35.42	1.68		
TOTAL						9493
Haulage Allowance 92 Miles 37.65 Wet Tons @ .06 per wet ton mile						207.83
Total U3O8, V2O5 and Haulage Payment						1134.68

I certify that I am the lawful owner or authorized Representative of the Lawful Owner, of the Ore described in this Settlement Sheet and have legal right to deliver the same to the Union Carbide Nuclear Company, a Division of Union Carbide and Carbon Corporation.

I certify that I hold the A.E.C. Source Material License numbered above.

I hereby transfer to the Union Carbide Nuclear Company, a division of Union Carbide and Carbon Corporation, effective as of the date of delivery of the ore, all my right, title and interest in and to said ore.

The amount set opposite "Total U3O8, V2O5 and Haulage Payment" shown above constitutes the entire amount payable to me in respect of ore deliveries described herein and is accepted by me in full payment thereof.

Voucher Number		Date	
Check Number	2951	Date	10-8-56
Approved for Payment			

Seller or Agent

UM-9-55 Rifle Telegram

UNION CARBIDE NUCLEAR COMPANY
VANADIUM-COMPOUNDS
A Division of Union Carbide and Carbon Corporation
RIFLE, COLORADO

Purchased ore LOAD DETAIL

PERIOD 4-21-56 thru 10-15-56

NAME Algonquin Mines ADDRESS St Louis, Mo

CLAIM Bench #1

DATE SHIPPED	TICKET NUMBER	POUNDS ORE	H_2O %	POUNDS DRY ORE	U_3O_8 GRADE	POUNDS U_3O_8	V_2O_5 GRADE	POUNDS V_2O_5	$CaCO_3$ GRADE	POUNDS $CaCO_3$
10-12	17252	24800	6.3	23237.60	0.23	53.45	1.29	299.77	14.3	3321.19
10-15	17290	24660	8.0	22687.20	0.22	49.91	1.35	308.55	12.0	2268.14
		49460	7.1	45924.80	0.23	103.36	1.32	608.32	14.2	5589.33

TOTAL

UNION CARBIDE NUCLEAR COMPANY
A Division of Union Carbide and Carbon Corporation

ORE SETTLEMENT

Receiving Station: Thompson, Utah — Rifle, Colorado, October 22 1956
Liquidation No.: R-1669 — Lot No.: See Lot Detail — Shipper's Lot No.:
Bought of: Thompson Uranium — A.E.C. License No.: P-2459
Address: Box 108 Grand — 418 Rio Gr St & Room 100
Type of Ore: Carnotite
Mining Claim: Brooke #1 — Mining District: Monticello Indian Valley — Date Received: 9-29-56 10-15-56
Pile No.: See Lot Detail

Lot No.	Net Weight Pounds	% H_2O	Dry Weight Pounds	SETTLEMENT ASSAYS U_3O_8	V_2O_5	$CaCO_3$	CONTENTS POUNDS U_3O_8	V_2O_5	$CaCO_3$
	49460	7.1	45924.80	0.23	1.32	12.2	103.36	608.32	5591.70

PRICED PER A.E.C. CIRCULAR NO. [illegible]

	POUNDS	PER LB	DRY SHORT TONS	PER TON	VALUE	TOTAL VALUE
U3O8 Payment	103.36	3.50	22.96		361.76	
Development Allowance	103.36	.50	22.96		51.68	
Excess 4 lbs. per ton Premium	11.52	.75	22.96		8.64	
Excess 10 lbs. per ton Premium						
Total U3O8 Payment						422.08
V2O5 Payment	608.32	.31	22.96		188.58	
Total V2O5 Payment						188.58
Less High Lime Penalty over 6% CaCO3						
Base Penalty				1.00		
12.2% - 6.0% = 6.2% Penalty @ $.03 per 1/10th			22.96	1.86		
TOTAL						65.67
Haulage Allowance 92 Miles 24.73 Wet Tons 0.06 per wet ton mile						136.51
Total U3O8, V2O5 and Haulage Payment						681.50

I certify that I am the lawful owner or authorized Representative of the Lawful Owner, of the Ore described in this Settlement Sheet and have legal right to deliver the same to the Union Carbide Nuclear Company, a Division of Union Carbide and Carbon Corporation.

I certify that I hold the A.E.C. Source Material License numbered above.

I hereby transfer to the Union Carbide Nuclear Company, a division of Union Carbide and Carbon Corporation, effective as of the date of delivery of the ore, all my right, title and interest in and to said ore.

The amount set opposite "Total U3O8, V2O5 and Haulage Payment" shown above constitutes the entire amount payable to me in respect of ore deliveries described herein and is accepted by me in full payment thereof.

Voucher Number		Date	
Check Number	3101	Date	10-23-56
Approved for Payment			

Seller or Agent

1M-8-56 Rifle Telegram

2

UNION CARBIDE COMPANY

A Division of Union Carbide and Carbon Corporation
RIFLE, COLORADO

Purchase Ore LOAD DETAIL

PERIOD 12-15-54 thru 12-27-54

NAME Algonquin Mining ADDRESS Silverton, Colo.

CLAIM Check #1

DATE SHIPPED	TICKET NUMBER	POUNDS ORE	H_2O	POUNDS DRY ORE	U_3O_8 GRADE	POUNDS U_3O_8	V_2O_5 GRADE	POUNDS V_2O_5	$CaCO_3$ GRADE	POUNDS $CaCO_3$
10-17	17334	23560	7.0	21910.80	0.18	39.44	1.10	241.02	8.6	1884.33
10-26	17422	23580	8.1	21670.02	0.19	41.17	1.18	255.71	7.8	1690.26
		47140	7.6	43580.82	0.18	80.61	1.14	496.73	8.2	3574.59

TOTAL

1

UNION CARBIDE NUCLEAR COMPANY
A Division of Union Carbide and Carbon Corporation

ORE SETTLEMENT

Receiving Station Thompson, Utah Rifle, Colorado November 1 1956
Liquidation No. R-1687 Lot No. See Load detail Shippers Lot No. 1
Bought of Algonquin Mines A.E.C. License No. R-2457
Address G. A. E. David 418 Olive St. St. Louis, Mo.
Type of Ore Carnotite
Mining Claim Bonsko #1 Mining District Monticello - Lisbon Valley Date Received 10-15-56 thru 10-22-56
San Juan Co. Utah File No.

Lot No.	Net Weight Pounds	% H_2O	Dry Weight Pounds	SETTLEMENT ASSAYS U_3O_8	V_2O_5	$CaCO_3$	CONTENTS POUNDS U_3O_8	V_2O_5	$CaCO_3$
	47140	7.6	43580.82	0.18	1.14	8.2	80.61	496.23	3574.59

PRICED PER A.E.C. CIRCULAR NO. 6 (Revised)

	POUNDS	PER LB.	DRY SHORT TONS	PER TON	VALUE	TOTAL VALUE
U308 Payment	80.61	3.10	21.79		249.89	
Development Allowance	80.61	.50	21.79		40.31	
Excess 4 lbs. per ton Premium						
Excess 10 lbs. per ton Premium						
Total U308 Payment						290.20
V205 Payment	496.73	.31	21.79		153.99	
						153.99
Total V205 Payment						
Less High Lime Penalty over 6% CaCo3						
Base Penalty				1.00		
8.2% - 6.0% = 2.2% Penalty @ $ .03 per 1/10th			21.79	.66		
TOTAL						36.17
Haulage Allowance 92 Miles 21.57 Wet Tons @ .06 per wet ton mile						130.11
Total U308, V205 and Haulage Payment						538.13

I certify that I am the lawful owner or authorized Representative of the Lawful Owner, of the Ore described in this Settlement Sheet and have legal right to deliver the same to the Union Carbide Nuclear Company, a Division of Union Carbide and Carbon Corporation.

I certify that I hold the A.E.C. Source Material License numbered above.

I hereby transfer to the Union Carbide Nuclear Company, a division of Union Carbide and Carbon Corporation, effective as of the date of delivery of the ore, all my right, title and interest in and to said ore.

The amount set opposite "Total U308, V205 and Haulage Payment" shown above constitutes the entire amount payable to me in respect of ore deliveries described herein and is accepted by me in full payment thereof.

Voucher Number		Date	
Check Number	3172	Date	11-2-56
Approved for Payment			

Seller or Agent

1M-8-55 Rifle Telegram

2

UNION CARBIDE NUCLEAR COMPANY

A Division of Union Carbide and Carbon Corporation

2

ORE SETTLEMENT

Receiving Station Thompson, Utah Rifle, Colorado Nov. 23 1956

Liquidation No. R-1782 Lot No. T-17510 Shippers Lot No.

Bought of Oregon Rare Earths A.E.C. License No. P-2457

Address c/o G.C. Stand 418 Olive St. St. Louis, Mo.

Type of Ore Carnotite Date Received 11-2-56

Mining Claim Bonanza #1 Mining District Whitewater, Indian Valley, Colo. File No.

Lot No.	Net Weight Pounds	% H_2O	Dry Weight Pounds	SETTLEMENT ASSAYS U_3O_8	V_2O_5	$CaCO_3$	CONTENTS POUNDS U_3O_8	V_2O_5	$CaCO_3$
	23500	7.4	21760	2.20	1.08	8.8	43.52	235.02	1914.72

PRICED PER A.E.C. CIRCULAR NO. [illegible]

	POUNDS	PER LB	DRY SHORT TONS	PER TON	VALUE	TOTAL VALUE
U_3O_8 Payment	43.52	2.50	10.88		152.32	
Development Allowance	43.52	.50	10.88		21.76	
Excess 4 lbs. per ton Premium						
Excess 10 lbs. per ton Premium						
Total U_3O_8 Payment						174.08
V_2O_5 Payment	235.22	.31	10.88		72.86	
Total V_2O_5 Payment						72.86
Less High Lime Penalty over 6% $CaCO_3$						
Base Penalty				4.08		
8.8% - 6.0% = 2.8% Penalty @ $.05 per 1/100th			10.88	.14		
TOTAL						20.02
Haulage Allowance 92 Miles / 1.25 Wet Tons @ .06 per wet ton mile						6.86
Total U_3O_8, V_2O_5 and Haulage Payment						291.78

I certify that I am the lawful owner or authorized Representative of the Lawful Owner, of the Ore described in this Settlement Sheet and have legal right to deliver the same to the Union Carbide Nuclear Company, a Division of Union Carbide and Carbon Corporation.

I certify that I hold the A.E.C. Source Material License numbered above.

I hereby transfer to the Union Carbide Nuclear Company, a division of Union Carbide and Carbon Corporation, effective as of the date of delivery of the ore, all my right, title and interest in and to said ore.

The amount set opposite "Total U_3O_8, V_2O_5 and Haulage Payment" shown above constitutes the entire amount payable to me in respect of ore deliveries described herein and is accepted by me in full payment thereof.

Voucher Number | Date

Check Number 3362 | Date 11-26-56

Approved for Payment

Seller or Agent

Western Union Telegram

Form No. 0-4 (Rev.) 30M 3-56 W&Y

WESTERN URANIUM PROJECT

LUCIUS PITKIN INC.

Ore Purchasing Agent for United States Atomic Energy Commission

Receiving Station [illegible] Grand Junction, Colorado [illegible] 19 [illegible]

Liquidation No. [illegible] Lot No. [illegible] Shippers Lot No.

Bought of [illegible] A.E.C. License No. [illegible]

Address [illegible]

Type of Ore [illegible] Contract No. Date Received [illegible]

Mining Claim [illegible] Mining District [illegible] File No. [illegible]

County [illegible] State [illegible]

Lot No.	Wet Weight Pounds	H_2O	Dry Weight Pounds	SETTLEMENT ASSAYS U_3O_8	V_2O_5	$CaCO_3$	Cu	CONTENTS POUNDS U_3O_8	V_2O_5	$CaCO_3$	Cu
[illegible]	[illegible]	[illegible]	[illegible]	0.27	0.79	[illegible]		[illegible]	[illegible]	[illegible]	

Item	Per Lb.	Dry Lbs.	Rate	Total Value
0.27 % - 3.4 # ea.	2.90	[illegible]	[illegible]	$ [illegible]
Development allowance 3.4 # ea.	.50	1.70	"	[illegible]
TOTAL UROX PAYMENT		11.56	[illegible]	[illegible]
Haulage allowance Hauling at 5¢ per wet ton mile			[illegible]	[illegible]
TOTAL				[illegible]
VRAS 0.79 % - 15.2 # ea.	.31	[illegible]	[illegible]	[illegible]
TOTAL GROSS PAYMENT				[illegible]
Less CaCO3 Penalty - CaCO3 in excess of 5% 10.8 % - 5.0 % 4.8% @ .30 per unit - 31.00 tons -		2.44	[illegible]	(-)[illegible]
NET PROCEEDS				[illegible]

Correct [illegible]
Checked: [illegible]
Approved: [illegible]

Paid 12/26/56
Vo. No. 12/265
Check No. [illegible]

I certify that I am the lawful owner or authorized Representative of the Lawful Owner, of the Ore described in this Settlement Sheet and have legal right to deliver the same to the Commission.
I certify that I hold A. E. C. Source Material License numbered above.
I hereby transfer to the Commission, effective as of the date of delivery of the ore, all my right, title and interest in and to said ore.
I will accept the amount as shown above as "Total Gross Price" in full settlement for sums due to me on account of the ore deliveries described herein.

Buyers assays govern if Seller fails to submit his assays prior to acceptance of payment.

All rates paid are based on U. S. Atomic Energy Commission Published Schedules unless otherwise provided in contract applicable to ore delivery described herein.

[illegible] Seller or Agent

By [illegible]

Title

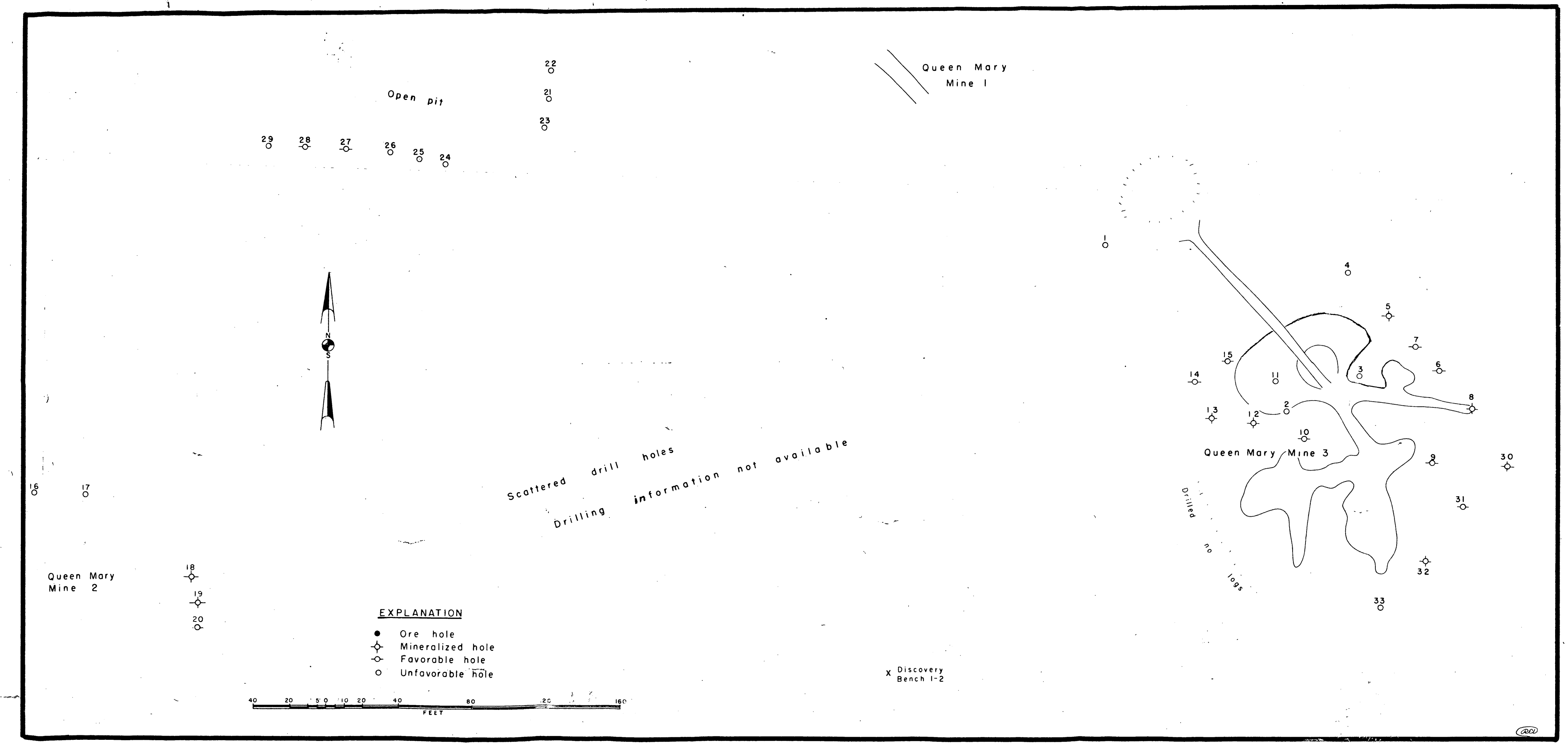

Figure 3. Map of August 1956 drilling program – Queen Mary Mines.

RECEIVED
FEB 15 1957
D.M.E.A.

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
6-17	Murphy	700
6-17	Ellis	700
"	Johnson	110
"	Mitterdorf	100
6/18	JWS	220
		225

JUN 18 1957

Mr. Charles D. Long, Partner
Algonquin Mines
Room 600, 418 Olive Street
St. Louis 2, Missouri

Re: Docket No. [illegible]-1639 (Uranium)
Bench Claim Group
San Juan County, Utah

Dear Mr. Long:

This is to acknowledge your letter of June 11, 1957, pointing to the denial by this Agency of the request for exploration aid under the above-docketed application.

Your question regarding the number of applications of this type that have been denied or granted is not clear as to just what you have in mind and, therefore, it is difficult to make an exact calculation. However, in general I might state that in the early years of the DMEA program assistance was granted to explore for uranium deposits that might occur in the Brushy Basin member of the Jurassic Morrison formation which is present in the general area of the subject claims. Within recent years data, accumulated by this Agency as a result of considerable drilling and other types of exploration performed by the Government and private companies in this area, indicate that ore deposits occurring in the Brushy Basin are small and erratically distributed, and are usually found near places where there are local thickenings or coalescing of sandstone strata in the lower part of the member.

With the added knowledge regarding ore deposition in the Brushy Basin member, we have denied a number of applications in the area adjacent to the Bench claims where the sandstone strata does not appear to be favorable for significant ore deposits. Extremely close drilling would be required to discover the small ore deposits that might occur in the subject area and, if ore were found, its value in our opinion would not be commensurate with the cost of the exploratory work and possible exploitation.

The above refers only to the general area of the Bench claims, as significant deposits of uranium ore have been discovered in the Brushy Basin sandstone in other parts of the Colorado Plateau region.

I trust that the above data, in part, explains the decision made by this Agency with regard to the subject application.

Sincerely yours,

Q. O. Mitterdorf (for)

Administrator

8623

FMMurphy/izm 6-17-57
cc to: Hon. Thomas C. Hennings, Jr. Sen. Missouri
Hon. Wright Patman, Rep. Texas
Hon. Thomas B. Curtis Rep. Missouri
Admr.'s Reading File

DMEA FT Reg. 3 (2) w/2cc's of incoming letters, dated 6-11-57) sent with covering letters to each.

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
6/17	Murphy	700
6/17	Ellis	700
"	Jameson	110
"	Mittendorf	100
		220

Hon. Thomas B. Curtis
House of Representatives
Washington 25, D. C.

JUN 18 1957

Re: Docket No. DMEA-4639 (Uranium)
Algonquin Mines
Bench Claim Group
San Juan County, Utah

Dear Mr. Curtis:

Under date of June 11, 1957, Mr. Charles D. Long forwarded you a copy of his letter to the Defense Minerals Exploration Administration, and also, a personal letter relating to our exploration program.

With the thought that you might be interested in our reply, we are enclosing a copy of our response to Mr. Long's letter.

Sincerely yours,

C. O. Mittendorf (for)

Administrator

Enclosure

FMMurphy/izm 6-17-57
cc to: Mr. Murphy
Admr.'s Reading File
DMEA FT Reg. 3 (2)

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
6/17	Murphy	700
6/17	Elis	700
"	Johnson	110
"	Mittendorf	100
		220

JUN 18 1957

Hon. Thomas C. Hennings, Jr.
Senate Office Building
Washington 25, D. C.

Re: Docket No. DMA-4639 (Uranium)
Algonquin Mines
Bench Claim Group
San Juan County, Utah

Dear Senator Hennings:

In a letter, dated June 11, 1957, by Mr. Charles D. Long, to the Defense Minerals Exploration Administration, we note that copies of his letter and a transmittal letter to the Hon. Thomas B. Curtis were being forwarded to you.

With the thought that you might be interested in our reply, we are enclosing a copy of our response to Mr. Long's letter.

Sincerely yours,

C. O. Mittendorf (for)

Administrator

Enclosure

FMMurphy/izm 6-17-57
cc to: Mr. Murphy
Admr.'s Reading File
DMEA FT Reg. 3 (2)

Identical letter sent to: Hon. Wright Patman
House of Representatives
Washington 25, D. C.

8623

LAW OFFICES
RASSIEUR, LONG & YAWITZ
COMMERCE BUILDING
418 OLIVE STREET
SAINT LOUIS 2, MO.
CHESTNUT 1-5845

LEO S. RASSIEUR 1870-1955
CHAS D. LONG
MILTON YAWITZ
ELLIOTT P. KOENIG
ROBERT H. BATTS
VERN H. SCHNEIDER

RICHARD J. COLLINS, JR.
ALLEN A. YODER
TERRY K. DONK

OFFICIAL FILE COPY
DMEA
RECEIVED JUN 13 1957

DATE	INITIALS	CODE
6/13	C	220
14	Conf.	100
	Mr. Curtis Mr. Murphy	700
		225

for reply

June 11, 1957

Mr. C. O. Mittendorf, Administrator
Defense Minerals Exploration Administration
United States Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA-4639 (Uranium)
Bench Claim Group
San Juan County, Utah

Dear Mr. Mittendorf:

Your very courteous declination of our application for a D.M.E.A. loan was received by me this morning. I think that I should tell you that from its inception, I was reluctant to make application as I expected such action. I think it is rather regretable.

Fortunately for us, however, after the application was filed and during the four months that this application has been given consideration by the D.M.E.A., we have uncovered what we consider a substantial ore body, which justifies altering the incline so as to get ore out of the mine more rapidly and the installation of a new all-steel ore bin. Obviously, we would not have done this if the cost of extraction of the ore did not justify the expenditure. I thought you would be interested.

wonder if we can check on this Reg II

The fact of the matter is that within the last month we had seriously considered withdrawing the application. I am very curious to know how many applications for loans of this type are denied, and how many are granted.

Because of the interest of the Representative from the Second District of Missouri, Mr. Thomas B. Curtis' interest in the operation of Bureaus, I felt it proper to forward to him a copy of your letter, together with a copy of my reply. I am herewith enclosing a copy of my letter of transmittal.

So that you can have no misapprehension of my attitude in the matter, I want you to understand that Algonquin Mines now withdraws its application for a D.M.E.A. loan, and we do not under any circumstances want the application reconsidered.

With best regards to you for the kind consideration of our application, I remain

Sincerely yours,

Chas. D. Long

CDL:FSB

cc: Hon. Thomas B. Curtis
Hon. Thomas C. Hennings
Hon. Wright Patman

LAW OFFICES
RASSIEUR, LONG & YAWITZ
COMMERCE BUILDING
418 OLIVE STREET
SAINT LOUIS 2, MO.

LEO S. RASSIEUR
CHAS. D. LONG
MILTON YAWITZ
ELLIOTT P. KOENIG
ROBERT H. BATTS
VERN H. SCHNEIDER

ROBERT TRUMAN SMITH
RONALD L. CUPPLES

CHESTNUT 1-5845

OFFICIAL FILE COPY
RECEIVED JUN 19 1957

June 11, 1957

Hon. Thomas B. Curtis
Representative from Second District of Missouri
House of Representatives Office Building
Washington, D. C.

Dear Tom:

COPY

From time to time we have discussed the efficiency of the bureaucratic administration of our government. You may remember in the last case I pointed out to you that apparently a large part of the duties of the branch of the Bureau to which I then had reference consisted of material testing. In the particular instance you may remember 156 tests resulted in the qualification of 12 materials by six manufacturers out of 157 in the United States, and in one area only one qualifier, so there was no competition. The point that I am trying to make is that it is quite apparent to me that a lot of the employees in the various bureaus justify their existence by performing their duties, but neither the taxpayer nor the Government gets any result. Perhaps this is an area in which savings can be effected, and knowing that you are a member of the House Ways and Means Committee, and that you are interested in this administration, I thought I should call this to your attention.

I do not attribute the denial of the application to Mr. Mittendorf as I am sure that he is a capable and efficient administrator. Someplace down the line, however, there must be some men, probably protected by Civil Service, who cannot justify their existence in such a program. If the function of government is merely to make jobs, obviously the present bureaucratic administration is functioning perfectly.

Again, let me assure you that I have no wish to belabor anybody or any program. I am aiming at the overall picture, which appalls me.

I might add that in the present instance, the group of which I am a member spent approximately $120,000.00 exploring for minerals and made the application only after it was recommended by a geologist formerly connected with the Atomic Energy Commission, and whom we found thoroughly competent.

I know that Hon. Thomas C. Hennings, Jr., Senator from Missouri, is interested in the same subject, and I am sending a copy of my letter to him as well.

Some time ago we were requested by Mr. Drexal Spreher, Counsel for the Small Business Committee of the House, at a time when we had a comparable case before him for consideration, to report similar instances to the Small Business Committee, of which Hon. Wright Patman, of the First District of Texas, is Chairman. I am accordingly sending him a copy as well for whatever interest he may have in the subject.

With very kind regards, I am

Sincerely yours,

Chas. D. Long

CDL:FSB

Enc.

cc: Mr. C. O. Mittendorf
Hon. Thomas C. Hennings, Jr.
Hon. Wright Patman

COPY

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
6-6	Murphy	700
6-6	Ellis	700
6/7	Selbridge	130
6/7	Lamb	130
6/7	Kiilsgaard	130
"	Bandemer	100
	D	220

JUN 10 1957

Mr. Charles D. Long, Partner
Algonquin Mines
Room 600, 418 Olive Street
St. Louis 2, Missouri

Re: Docket No. DMEA-4639 (Uranium)
Bench Claim Group
San Juan County, Utah

Dear Mr. Long:

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

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

Careful study of all our information, although noting some uranium mineralization on your property, indicates that the probability of disclosing significant ore reserves is not sufficiently promising to justify Government participation. We regret to advise you that, under these circumstances, your application for exploration assistance is denied.

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

Sincerely yours,

G. O. Kittendorf (for)

Administrator

FMMurphy/ dlm 6-6-57
cc to Admr.'s Reading File
Operating Committee
THKiilsgaard, Rm. 5224
Code 700
Mr. Murphy
DMEA Field Team, Region III (2)

8623

DOCKET COPY

Murphy
Ellis

June 6, 1957

Summary of Proposed Project

Object: Denial of application for exploration aid

Docket No.: DMEA-4639

Commodity: Uranium

Amount of Application: $20,750.00

Applicant: Algonquin Mines
418 Olive Street
St. Louis 2, Missouri

Property: Owner: Bench Nos. 1 through 16 claims, situate in N½ sec. 18, T. 31 S. R. 26 E., S.L. B. M., San Juan County, Utah

Date of application: February 6, 1957 (Received February 15)

Referred to Region III: March 4, 1957

Field examination made: April 2, 1957

Field Team report received: May 27, 1957

Work proposed: 22,035 feet of non-core wagon drilling in three stages. Stage I, 110 holes on 250-foot centers to depths ranging from 75 to 150 feet. Stages II & III holes to offset favorable holes previously drilled.

Estimated costs:

Bulldozing 20 days @ $100/day	$2,000.00
1,935 feet wagon drilling @ $1/ft	1,935.00
20,100 feet wagon drilling @ $0.75/ft	15,075.00
Labor, Supervision, Technical services	1,410.00
30 Analyses (U_3O_8 & V_2O_5) @ $5/sample	150.00
Misc.	180.00
Total	$20,750.00

Excerpts from Field Team Report:

The claims lie near the southeast end of Lisbon Valley, Monticello mining district. The northern half of the group is on an alluvial-covered bench underlain by the upper sandstone strata of the Salt Wash member of the Morrison formation. The southern half is on gentle slopes, locally covered by talus and outcrops of the lower part of the Brushy Basin member.

The sandstone of the Salt Wash crops out in three main layers. The uppermost sandstone layer is commonly the ore-bearing strata in other parts of Utah and southwestern Colorado. However, in the claim area it is thin, red, and not cross-bedded, therefore, it is classed as unfavorable.

Production of 613 tons of ore, averaging 0.23 percent U_3O_8 and 1.27 percent V_2O_5, has been recorded from bench No. 1 claim (Queen Mary Mine No. 3). The mined part of the deposit is from a bed 0.7 feet to 2 feet in thickness. localized at or near the base of a Brushy Basin sandstone strata that is about 40 feet thick. The Applicant is presently mining a 1-foot thick bed of ore. About 148 tons of ore from bench No. 2 claim and 32 tons from bench No. 3 were produced during the years 1949-1954.

These deposits are typical of the small deposits that occur in the Brushy Basin sandstone. They are erratically distributed, but commonly are at places where there are local thickenings or coalescing of strata in the lower part of the Brushy Basin member. These strata on the subject claims do not form a host for significant are deposits.

There are no known ore deposits in the Salt Wash member on or immediately adjacent to the claims. The characteristics of the upper sandstone layer of the Salt Wash member observed on these claims suggest that their potential for significant ore deposits is nil.

DMEA-3663, 3844, and 4606 applications on nearby properties resulted in denials.

The field examiners and Field Team recommend the subject application be denied.

Commodity Members' comments: (excerpts):

U. S. Bureau of Mines - James Paone, May 29, 1957

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

U. S. Geological Survey, N. E. Nelson, May 29, 1957.

Mr. Nelson summarizes the field examiners findings. He agrees with their conclusions and concurs in their recommendation that the application be denied.

Rare and Miscellaneous Metals Division - F. M. Murphy, June 6, 1957

Although a few small ore bodies have been found in the Brushy Basin sandstone layers, the possibility of finding a large ore deposit or series of small deposits is not considered favorable, especially in the subject claim area. Moreover, the Salt Wash sandstone cropping out in the claim area is classed as unfavorable for possible uranium deposition.

Conclusion and Recommendations:

Because of the unfavorable character of both the Brushy Basin and Salt Wash members of the Morrison formation underlying the Bench group of claims, this Division concurs in the Field Team's recommendation that application DMEA-4639 should be denied.

Ernest Wm. Ellis

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

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

Date May 29, 1957

DMEA Docket No. 4639
DMEA Contract No.
Commodity Uranium
Name of applicant Algonquin Mines
Name of property Bench Group of Claims
Location of property San Juan County, Utah
Estimated cost of project $20,670.00

To: Ernest William Ellis, DMEA MEMBER
Uranium Commodity Committee
Via: James Paone, Bureau of Mines Member
Uranium Commodity Committee

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

1. Date project document: 5/24/57 received by reviewer: 5/28/57
2. Reports on this property known to reviewer: Yes ☐ No ☐
3. Reports on nearby properties known to reviewer: Yes ☐ No ☐
4. Information available on past production: Yes ☐ No ☐
5. Other pertinent factors known to reviewer: Yes ☐ No ☐
6. Explain items marked yes above:

7. Factors meeting general consideration:
a. Location ☐
b. Commodity ☐
c. Evidence of mineralization ☐
d. Geology ☐
e. Proposed exploration method ☐
f. Alternate exploration method ☐
g. Costs ☐
h. _____ ☐

8. Action advised:
a. Obtain information from applicant ☐
b. Refer to Field Team ☐
c. Denial ☒
d. Agree with Field Team ☒
e. Disagree with Field Team ☐
f. Suggest alternate plan ☐
g. Request another coordination ☐
h. Approval ☐
i. Consult with Mr. _____ at _____ ABC office.

10. Remarks: (Use back of page if necessary)

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RECEIVED MAY 31 1957

DATE	INITIALS	CODE
5/31	C	220
"	(Kunze)	700
	Murphy	

IN REPLY REFER TO:

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

May 29, 1957
Re: DMEA 4639
Algonquin Mines
Bench Claims
San Juan County, Utah
$20,670 - Uranium

Memorandum

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

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

Subject: Review of Field Team Report

The applicant, a partnership, requested assistance in exploring, by staged drilling, a tract of land underlain by rocks of the Brushy Basin member of the Jurassic Morrison formation, rocks in which have been found relatively small bodies of uranium-vanadium ore.

Rocks of the Salt Wash member also underlie the claims but no orebodies have been found in the Salt Wash in or near the Bench claims, and the characteristics of the often favorable upper sandstone layer of the Salt Wash member observed on the claims are regarded as unfavorable by the examiners.

From 3 small orebodies in Brushy Basin strata, Nos. 1, 2, and 3, ore has been produced as:-

Mine	Tons	$\%U_3O_8$	$\%V_2O_5$	Remarks
1	32	0.19	1.57	Worked out
2	148	0.25	1.36	" "
3	613	0.23	1.27	Producing

Because of the general unfavorableness of the Salt Wash strata and the poor potential of the Brushy Basin strata, the examiners recommend that the application be denied. I concur with the recommendation.

N. E. Nelson

N. E. Nelson

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RECEIVED MAY 27 1957

DATE	INITIALS	CODE
5/27	C	220
"	K House	700

224 New Customhouse
Denver 2, Colorado

May 24, 1957

Mr. Charles D. Long
Algonquin Mines
Room 600, 418 Olive Street
St. Louis 2, Missouri

Re: Docket DMEA-4639 (Uranium)
Algonquin Mines
(Bench Group, Queen Mary mine)
San Juan County, Utah

Dear Mr. Long:

Your letter of May 23, 1957, inquired as to the status of your DMEA application for assistance to explore for uranium on your claims in San Juan County, Utah.

Your property was examined on April 2, 1957, and the report resulting from that examination was transmitted to Washington today. You should be advised of the final action on your application in the immediate future.

Very truly yours,

Original signed by
E. N. HARSHMAN

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

ENH:jy
cc: Chm. Op. Comm. (2)
Hasler
Konselman (2)
Harshman
Docket 4639
Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

224 New Customhouse
Denver 2, Colorado

May 24, 1957

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DMEA
RECEIVED MAY 27 1957

DATE	INITIALS	CODE
5/27	C	220
		130
5/29	C	220
"	Crown	700

Memorandum

To: Secretary to the Operating Committee, DMEA

From: DMEA Field Team, Region III

Subject: Docket DMEA 4639 (Uranium) Algonquin Mines (Bench Group of Claims) San Juan County, Utah - Joint Report of Examination

Enclosed are the original and three copies of the Joint Report of Examination on the subject property by Carl Belser, USBM, and D. P. Elston, USGS.

The field examiners conclude that the probability for making a significant discovery is not sufficiently promising to justify Government participation. Accordingly they recommend that the Applicant's work proposal be denied to which the Field Team concurs.

E. N. Harshman

E. N. Harshman
Acting Executive Officer

ON-SITE EXAM REPORT

Reviewed by
DMEA OPERATING COMMITTEE
5-29-57
(date).

OFFICIAL FILE COPY
DMEA
RECEIVED MAY 27 1957

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

IN REPLY REFER TO:
DMEA
DEPARTMENT OF THE INTERIOR
MAY 23 1957
REGION III
DENVER, COLORADO

May 21, 1957

Memorandum

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

Through: E. N. Harshman
A. S. Konselman

From: J. William Hasler

Subject: Transmittal of joint engineering and geologic report of examination on DMEA docket 4639, Algonquin Mines, (Bench group of claims), San Juan County, Utah

Enclosed are 12 copies of a report and accompanying figures on the Bench group of claims, owned by the Algonquin Mines.

The applicant applied for a DMEA loan on the subject group of claims, located in the north 1/2 of sec. 18, T. 31 S., R. 26 E., S.L.M., near the southeast end of Lisbon Valley Mining District, Monticello, Utah.

The application was referred to the field and an examination was made on April 2, 1957 by D. P. Elston, U. S. Geological Survey, and Carl Belser, U. S. Bureau of Mines. The company was represented by Messrs. Aubrey David and A. J. Shay.

The property included in the proposed project consists of 16 unpatented lode mining claims on the southeast side of Lisbon Valley. The northern half of the claims is on an alluvial-covered bench that is underlain by the upper sandstone layer of the Salt Wash member of the Jurassic Morrison formation. This sandstone layer is generally classed as unfavorable for ore where exposed on the edges of the claims.

The southern half of the claims is on gentle- to moderate slopes, locally covered by talus, on which sandstone and mudstone strata on the lower part of the Brushy Basin member of the Morrison formation crop out. There are three small mines on these claims and the ore is found in a lenticular sandstone strata in the lower part of the Brushy Basin member. However, the ore deposits in this zone are small and erratically distributed. The largest deposit is localized where two lower strata have coalesced to form a single sandstone layer as much as 50 feet thick.

Reviewed by
DMEA OPERATING COMMITTEE
5-29-57
(date)

TRANSMITTED
MAY 24 1957

DMEA 4639 5/21/57

Although the property has produced some 613 tons, averaging 0.23 percent U_3O_8 and 1.27 percent V_2O_5, the chance of finding ore bodies of significant size in either the Salt Wash or Brushy Basin member on these claims is poor. It is, therefore, recommended that the application for DMEA assistance be denied.

Memoranda of John E. Crawford, Bureau of Mines, and W. P. Williams, Geological Survey of Washington, D. C., were noted. The Atomic Energy Commission was contacted relative to the appraisal of the property. I concur with the conclusions and recommendations of the examining team.

J. William Hasler
J. William Hasler,
Geologist

JWH/mlr

Enclosures
Report (12 copies)
with figs. 1 and 2,
Brochure

FOR UNITED STATES GOVERNMENT USE ONLY

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

DEFENSE MINERALS EXPLORATION ADMINISTRATION

JOINT REPORT OF EXAMINATION BY EXAMINING TEAM
REGION III

OFFICIAL FILE COPY
D M E A
RECEIVED MAY 27 1957

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DMEA 4639

Algonquin Mines

Bench group, Queen Mary mine

San Juan County, Utah

TRANSMITTED

MAY 24 1957

Uranium

Joint Engineering and Geologic Report

by

D. P. Elston
U. S. Geological Survey

Carl Belser
U. S. Bureau of Mines

May 1957

Reviewed by
DMEA OPERATING COMMITTEE

5-29-57
(date)

DMEA 4639
ALGONQUIN MINES
BENCH GROUP OF CLAIMS
SAN JUAN COUNTY, UTAH

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ILLUSTRATIONS

Figure	Follows page
1. Location of Bench claim group, Algonquin Mines, San Juan County, Utah. DMEA 4639	12
2. Geologic sketch map of Bench claim group, Algonquin Mines, San Juan County, Utah	12

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RECEIVED MAY 27 1957

DATE	INITIALS	CODE

DMEA 4639
ALGONQUIN MINES
BENCH GROUP OF CLAIMS
SAN JUAN COUNTY, UTAH

INTRODUCTION AND SUMMARY

On February 6, 1957, Algonquin Mines, a co-partnership, Room 601, 418 Olive Street, St. Louis 2, Missouri, applied for DMEA assistance for exploration drilling on the Bench group of claims, San Juan County, Utah. The claims are in the north 1/2 of sec. 18, T. 31 S., R. 26 E., S.L.M., near the southeast end of Lisbon Valley, Monticello mining district.

The applicant proposes 22,035 feet of non-core wagon drilling, in three stages, in the Morrison formation of Jurassic age. Total estimated cost is $20,670.00 with Government participation at 75 percent, totaling $15,502.50. The first stage of the proposed exploration project consists of drilling 110 holes, at depths ranging approximately from 75 to 150 feet, on a 250-foot grid. Stage II and Stage III drill holes apparently would offset strongly mineralized or ore holes found during Stage I drilling.

The application, DMEA 4639, was referred to the field, and an examination was made on April 2, 1957. The examining team, consisting of Donald P. Elston, U. S. Geological Survey, and Carl Belser, U. S. Bureau of Mines, was accompanied by Messrs. Aubrey David and A. J. Shea, mining and exploration supervisors representing the applicant.

Previous examinations on nearby properties, about 2 miles to the southeast and 3 miles to the south (DMEA 3663, 3844, 4606) have resulted in recommendations of denial of the requests for DMEA assistance.

Property included in the proposed project, consists of 16 unpatented lode mining claims on the southeast side of Lisbon Valley, approximately 12 airline miles northwest of Slick Rock, Colorado and 35 miles southeast of Moab, Utah. The claims are accessible by motor vehicle and are on the road that connects Lisbon Valley with the Monticello-Dove Creek Highway to the south.

The northern half of the claims are on an alluvial covered bench that is underlain by the upper sandstone layer of the Salt Wash member of the Jurassic Morrison formation. This sandstone layer is classed as generally unfavorable for ore where exposed on the edges of the claims. The southern one-half of the claims are on gentle to moderate slopes, locally covered by talus, on which sandstone and mudstone strata of the lower part of the Brushy Basin member of the Morrison formation crop out. The three small mines on these claims are in lenticular sandstone strata in the lower part of the Brushy Basin member. The ore deposits are small and are erratically distributed. The largest deposit is localized apparently where the two lower strata have coalesced to form a single sandstone layer about 40 to 50 feet thick. Production from this deposit totals 613 tons which averages 0.23 percent U_3O_8 and 1.27 percent V_2O_5.

The chance of finding a significant ore deposit in either the Salt Wash or Brushy Basin members on these claims is poor. It is recommended that the application for DMEA assistance for exploration be denied.

ACKNOWLEDGMENTS

The ore reserves section of the Atomic Energy Commission was consulted for production and reserves of the general area.

Memorandums of John E. Crawford and W. P. Williams were noted.

LOCATION, TOPOGRAPHY, AND CLIMATE

The 16 unpatented Bench claims are in sec. 18, T. 31 S., R. 26 E., S.L.M., San Juan County, Utah at altitudes ranging from 6,500 to 7,000 feet (fig. 1). The claims are the middle step of Three Step Hill, on gentle to moderate slopes. Average annual precipitation is light, and work can be carried on throughout the year, although surface work may be interrupted because of an occasional storm.

The claims are accessible from Moab, Utah, by traveling 23 miles south on U. S. Highway 160 to La Sal Junction, then 24.6 miles over the Lisbon Valley road to an unimproved road which extends 4 miles south to the property. The continuation of this road connects with U. S. Highway 160. A market for uranium ore is provided at Monticello, and Moab, Utah and also at Thompson, Utah which is a station on the Denver Rio Grande & Western railroad, 55 miles north of Moab.

Labor and supplies can be obtained at Moab, Utah. Pinon and pine, suitable for some mining purposes, grow on the property. Water can be hauled from a spring which is 6 miles distant.

HISTORY AND PRODUCTION

Uranium ore was first discovered on the claims by Otho Patterson, who located 4 claims in 1949 and 12 additional claims in 1950. A small open pit was first worked by Patterson. Later, two adits and an incline were driven. The applicant acquired the property in December 1955 from R. E. and Mary L. Cowger.

Production from the three deposits on the claims totals 793 tons averaging 0.23 percent U_3O_8 and 1.30 percent V_2O_5. The present owners produced 439 tons of this total in 1956 from the deposit on the Bench No. 1 claim (Queen Mary mine No. 3).

OWNERSHIP AND EXTENT

The 16 unpatented claims are recorded in the office of the County Recorder of San Juan County as follows:

Claim	Book	Page	Date recorded
Bench No. 1	R-2	99	8/29/1949
Bench No. 2	R-2	99	8/29/1949
Bench No. 3	R-2	98	8/31/1949
Bench No. 4	R-2	97	8/31/1949
Bench No. 5	R-2	123	1/23/1950
Bench No. 6	R-2	127	1/23/1950
Bench No. 7	R-2	127	1/23/1950
Bench No. 8	R-2	128	1/23/1950
Bench No. 9	R-2	128	1/23/1950
Bench No. 10	R-2	126	1/23/1950
Bench No. 11	R-2	126	1/23/1950
Bench No. 12	R-2	125	1/23/1950
Bench No. 13	R-2	125	1/23/1950
Bench No. 14	R-2	124	1/23/1950
Bench No. 15	R-2	123	1/23/1950
Bench No. 16	R-2	124	1/23/1950

Algonquin Mines acquired the property on December 19, 1955, under an Indenture of Sale from R. E. and Mary L. Cowger. This document is recorded in Book 86, Page 242.

PRESENT STATUS

Exploration and Development

Development consists of a small open pit and a short adit about 60 feet long on the Bench No. 3 claim (Queen Mary mine No. 1), a 100-foot incline on the Bench No. 2 claim (Queen Mary mine No. 2), and a 100-foot incline with about 650 feet of drifting and some stoping on the Bench No. 1 claim (Queen Mary mine No. 3). In addition, 33 holes were wagon-drilled near the Queen Mary No. 3.

Mining and Milling Equipment and Other Facilities

Mining equipment consists of a Cleveland drill with air-leg, an Adco rotary drill with Wisconsin gasoline-driven engine, a LeRoi 250-c.f.m. compressor with I. H. diesel engine, a 5 h.p. Gardner-Denver double-drum air hoist with slide and scraper, a Skagit 2-drum hoist with 25 h.p. Continental gasoline-driven engine, two 1,500-pound-capacity mine cars, 800 feet of 16-pound rail, a 25-ton-capacity wooden ore bin, a 27 cu. ft.-capacity Scoot Crete, a Coppus TS Ventair fan, a small frame shop building, 2 trailers for living quarters, and hand tools. Other facilities are access roads to proposed drill sites.

GEOLOGY

The Bench claim group is on the south side of the east end of Lisbon Valley, about three miles west of the Utah-Colorado state line. Strata exposed in the general area are the Chinle formation and Wingate sandstone of Triassic age, the Kayenta formation of Jurassic (?) age, the Navajo, Carmel, Entrada, Summerville and Morrison formations of Jurassic age, and the Burro Canyon and Dakota formations of Cretaceous age. Strata that crop out on the claims are the upper part of the Salt Wash member and the lower part of the Brushy Basin member of the Morrison formation (fig. 2). In the Horse Range Mesa quadrangle to the east, the Morrison formation ranges in thickness from 625 to 775 feet. The Salt Wash member ranges from 280-370 feet, and the Brushy Basin member ranges from 330-425 feet in thickness.

Sandstone of the Salt Wash member crops out in three main layers, and not as five layers or "rims" as stated by the applicant. The uppermost sandstone layer of the Salt Wash member is classed as generally unfavorable for ore. In the eastern and northeastern part of the claims, it is thin, about 20 feet thick, is very fine- to fine-grained, thin-bedded and is reddish-brown to light brown in color. Mudstone in the sandstone is variably red-brown and gray-green in color. This sandstone layer is commonly the ore-bearing sandstone in other parts of southeastern Utah and southwestern Colorado. The uppermost sandstone layer crops out northwest of the claims also, and here it is perhaps as much as

40 feet thick, but it also is thin- and evenly bedded, and generally similar to the outcrops observed to the east. This layer is mantled by alluvium on much of the northern part of the claims.

The Brushy Basin member is covered by a thin veneer of talus on much of the southern part of the claims, however there are sufficient exposures to determine that there are two and in places, three sandstone strata that intertongue and pinchout locally along the west to east trending outcrop. The lower two strata are the more prominent and though individually they are thin, where they apparently coalesce, the thickness is as great as 50 feet. These strata can be distinguished from Salt Wash sandstone strata by the presence of red and green chert, by poorer sorting, and by a greater amount of intergranular silt. Also, sedimentary structures are smaller and more complex in detail than in the Salt Wash. The grain size ranges from very fine- to coarse-grained with locally prominent conglomerate lenses. Conglomeratic material consists of red, gray, and colorless chert and quartz pebbles. Green chert commonly is not found as pebbles, but is a granular constituent of the sandstone. Locally, where these strata lack lithologic characteristics of the Brushy Basin, they may be indistinguishable from Salt Wash sandstone. The uppermost lens of the lower series of Brushy Basin sandstone strata is the most distinctive of these strata. It commonly contains abundant, distinctive, angular fragments of red and green chert. Where present, it is about 20 to 30 feet above the lower two lenses of the Brushy Basin member.

Strata on the claims strike northwest and dip gently to the northeast. There are no known faults on the claims but there is a small fault near the southeast end of the claim group.

ORE DEPOSITS

Production has been recorded from three deposits on the Bench claim group. These deposits are on the Bench No. 1, Bench No. 2, and Bench No. 3 claims. The largest deposit is on the Bench No. 1 claim, titled by the applicant as the Queen Mary mine No. 3, which has produced 613 tons averaging 0.23 percent U_3O_8 and 1.27 percent V_2O_5. This tonnage was produced during the years 1952-1954 and 1956. The mined parts of the deposit consist of a single layer of ore minerals ranging from about 0.7 feet to about 2 feet in thickness. The layer of ore minerals is localized at and near the base of a lens of Brushy Basin sandstone that is about 40 feet thick. The ore is classed as carnotite-"roscoelite" type ore. The present operation is mining a layer of ore minerals that is less than 1 foot thick.

The Bench No. 2 mine, referred to by the applicant as the Queen Mary mine No. 2 has produced 148 tons of ore, averaging 0.25 percent U_3O_8, and 1.36 percent V_2O_5. This tonnage was produced in the period 1949-1954. The Bench No. 3 mine, referred to by the applicant as the Queen Mary mine No. 1, produced during the period 1949-1954, 32 tons of ore, averaging 0.19 percent U_3O_8 and 1.57 percent V_2O_5. This production came from the mining of the lower part of a narrow S-roll about 10 feet high that had a maximum width of about 4 feet in its lower part. This

roll trended southeast toward the Bench No. 1 deposit, and was about 60 feet long. Drifting in the direction of the extension of the roll resulted in the discovery of no additional ore here. The ore zone here is estimated to be about 30 feet stratigraphically higher than the ore zone in the Bench No. 1 claim.

These deposits are typical of the small deposits that occur in the Brushy Basin member of the Morrison formation. They are erratically distributed, but commonly are near places where there are local thickenings or coalescing of sandstone strata in the lower part of the Brushy Basin member. These strata on the subject claims do not form a host for significant ore deposits.

There are no known ore deposits in the Salt Wash member on or immediately adjacent to these claims. The characteristics of the upper sandstone layer of the Salt Wash member observed on these claims suggest that their potential for significant ore deposits is nil.

SAMPLING AND ORE RESERVES

Outcrops and underground workings were checked with a scintillator. The small ore deposits of the Queen Mary Nos. 1 and 2 have been worked out. The deposit on the Bench No. 1 claim has thinned, generally to less than one foot thick, in all directions. On the basis of mine workings and drill hole data, the deposit is considered to be essentially depleted of reserves. No samples were taken for chemical analyses.

APPLICANT'S ESTIMATED COST OF PROJECT

The applicant requests aid in preparing drill sites and wagon-drilling 22,035 feet of holes. The drilling is to be done in three stages. The applicant's costs estimate which is not separated into the individual stages follows:

Independent Contracts:

Bulldozing time 20 days at $100/day	$2,000.00	
1,935 ft. of wagon drilling at $1.00/ft.	1,935.00	
20,100 ft. of wagon drilling at $0.75/ft.	15,075.00	
Total Independent Contracts		$19,010.00

Labor and Supervision:

Surveyor 4 days at $55.00/day	220.00	
Rodman 4 days at $12.00/day	48.00	
Surveyors expenses	67.00	
Supervision by mine forman 10 days at $27.50/d.	275.00	
Engineer-retainer fee	700.00	
Engineer-travel expenses	100.00	
Total Labor and supervision		1,410.00

Operating materials and supplies:

None

Operating Equipment:

None

Rehabilitation and Repairs:

None

New Buildings, Improvements, Installations:

None

Miscellaneous:

Compensation, liability ins., payroll taxes	$ 80.00	
Printing, stenographic, and office expense	100.00	
30 chemical analyses for U_3O_8 and V_2O_5 at $5.00 each	150.00	
Total miscellaneous		$ 330.00
Total estimated cost (22,035 feet of drilling)		$20,750.00
Estimated cost per foot		$ 0.94

Bulldozing costs are high and the proposed amount of supervision is not adequate.

CONCLUSIONS AND RECOMMENDATIONS

The known ore deposits on the subject claims are in sandstone strata of the Brushy Basin member of the Morrison formation. These strata are not good potential strata for significant deposits of ore. The upper sandstone layer of the Salt Wash member of the Morrison formation, commonly referred to as the "ore-bearing sandstone" in other areas, is classed as generally unfavorable for ore as observed on and near the claims. The applicant's proposed program would test sandstone strata in the Brushy Basin member on the southern part of the claims, and the Salt Wash sandstone strata on the northern part of the claims. Because of the general unfavorableness of Salt Wash strata and the poor potential of Brushy Basin strata, it is recommended that the application for DMEA assistance for exploration be denied.

U.S. DEPT. OF THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
APRIL 1957
DOCKET 4639

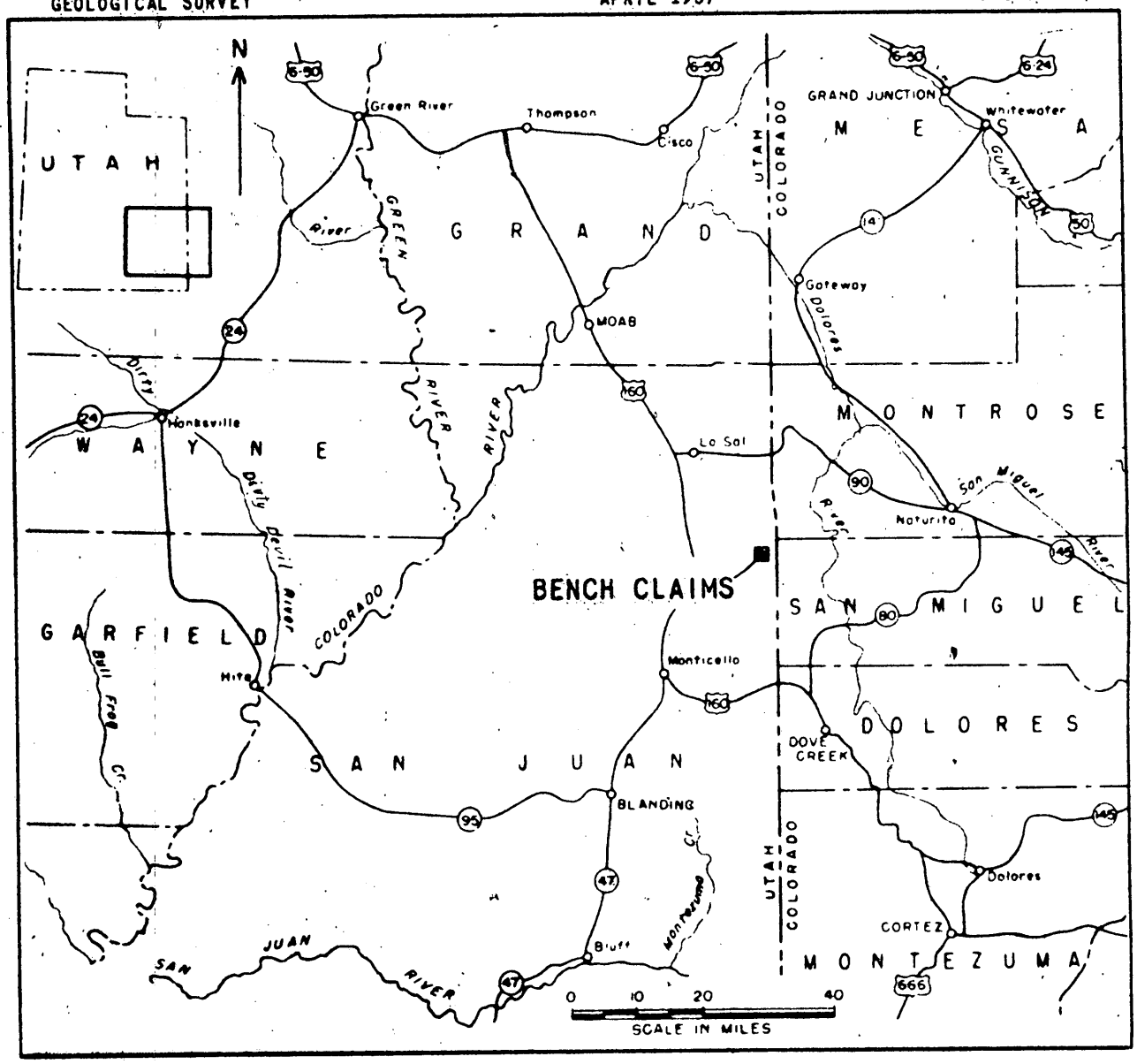
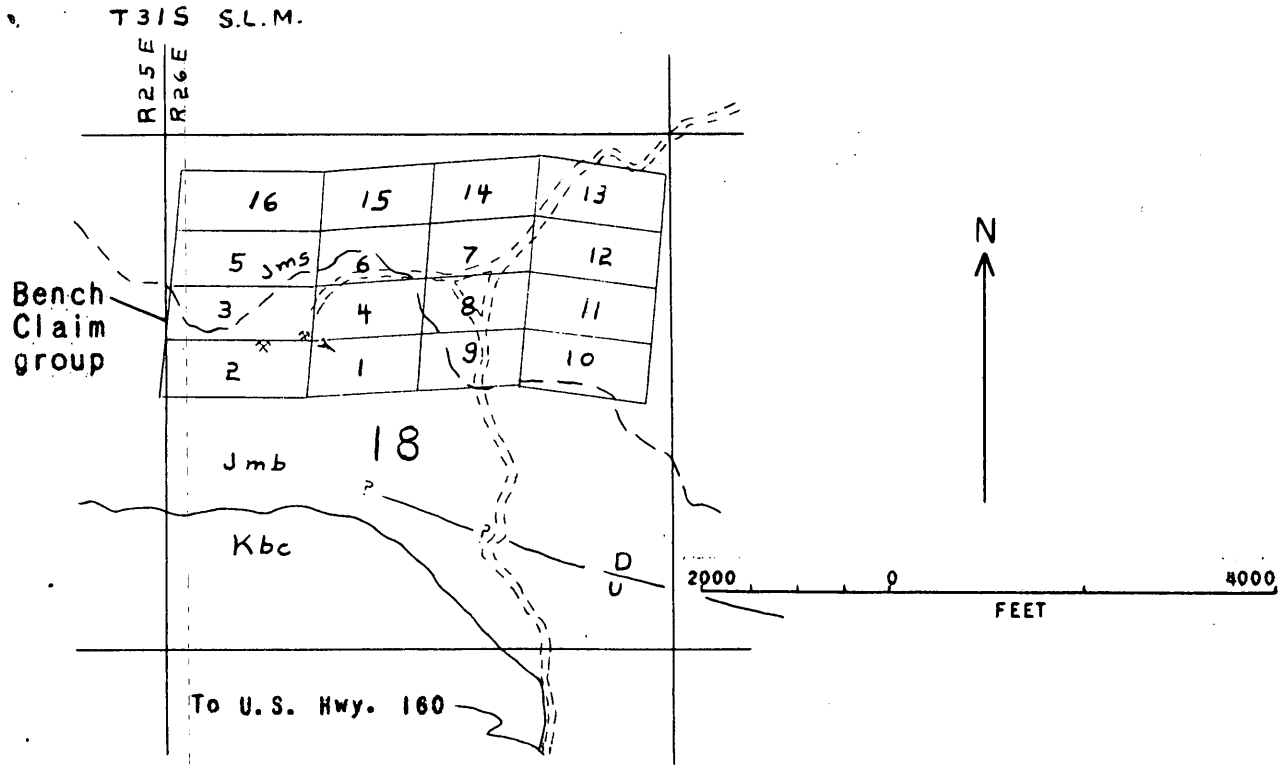


Figure 1.--LOCATION OF BENCH CLAIM GROUP, ALGONQUIN MINES, SAN JUAN COUNTY, UTAH



EXPLANATION

Kbc BURRO CANYON FORMATION OF CRETACEOUS AGE

Jmb BRUSHY BASIN MEMBER OF JURASSIC MORRISON FORMATION

Jms SALT WASH MEMBER OF JURASSIC MORRISON FORMATION

? D/U HIGH ANGLE FAULT, APPROXIMATELY LOCATED

PROSPECT

ADIT

Note: GEOLOGY FROM PHOTOGEOLOGIC MAP, MT. PEALE - 16.
CLAIMS AND MINES FROM APPLICANTS MAP.

FIGURE 2.--GEOLOGIC SKETCH MAP OF BENCH CLAIM GROUP, ALGONQUIN MINES, SAN JUAN COUNTY, UTAH.

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RECEIVED MAY 27 1957

DATE	INITIALS	CODE

DMEA

DEPARTMENT OF THE INTERIOR

MAR 11 1957 March 11, 1957

REGION III

DENVER, COLORADO

Memorandum

To: Executive Officer, DMEA Field Team, Reg. III

From: Superintendent, Denver Experiment Station, Reg. III

Subject: Docket DMEA 4639 (Uranium) Algonquin Mines (Bench Group, Queen Mary mine) San Juan County, Utah

The application for Algonquin Mines, Docket DMEA 4639, in the amount of $80,750.00 was received in this office on March 11, 1957.

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

W. H. KING

W. H. King

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"	Knowe	700

cc: Executive Officer (2)
E. H. Marshman
J. W. Mesler
M. N. Salsbury
J. F. Shaw

WO

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DMEA
RECEIVED MAR 11 1957

DATE	INITIALS	CODE
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11	[illegible]	700

224 New Customhouse
Denver 2, Colorado

March 8, 1957

Memorandum

To: J. W. Hasler W/Copy Chmn. Letter, Review Memoranda, & applicant's letter dated February 26, 1957
W. H. King (2) W/Copy Appl., Chmn. Letter, Review Memoranda & applicant's letter dated February 26, 1957

From: DMEA Field Team, Region III

Subject: Docket No. DMEA 4639 (Uranium) Algonquin Mines (Ranch Group, Queen Mary Mine) San Juan County, Utah

Enclosed are a copy of the subject application, its transmittal to the field by the Chairman of the Operating Committee, DMEA, and Memoranda of Review by J. E. Crawford, USBM, and W. P. Williams, USGS. A field examination and suitable Report of Examination are requested.

At the time of examination, it may be desirable to check the validity of the comments contained in the last paragraph of the enclosed copy of the applicant's letter of February 26, 1957.

The Bureau of Mines' copy of the application should be returned with your Report of Examination. The Geological Survey's copy should be returned to Mr. Harshman's office.

DMEA Field Team, Region III

Original signed by
E. N. HARSHMAN

By E. N. Harshman
Acting Executive Officer

Enclosures

Utah
Sec. Op. Comm. (2)
Harshman W/Copy Chmn. Letter, Review Memoranda & applicant's letter dated February 26, 1957
Docket
Chron.

LAW OFFICES
RASSIEUR, LONG & YAWITZ
COMMERCE BUILDING
418 OLIVE STREET
SAINT LOUIS 2, MO.

LEO S. RASSIEUR
CHAS. D. LONG
MILTON YAWITZ
ELLIOTT P. KOENIG
ROBERT H. BATTS
VERN H. SCHNEIDER

ROBERT TRUMAN SMITH
RONALD L. CUPPLES

CHESTNUT 1-5845

March 7, 1957

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RECEIVED MAR 11 1957

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Mr. E. N. Harshman, Acting Executive Officer
DMEA Field Team
Region III
224 New Customhouse Building
Denver 2, Colorado

Re: Docket No. DMEA-4639 (Uranium)
Bench Claim Group
San Juan County, Utah

Dear Mr. Harshman:

I am advised by Mr. Mittendorf, Administrator of the Defense Minerals Exploration Administration of the Department of the Interior in Washington that the application of Algonquin Mines, above referred to, has been referred to you for further consideration and possibly a field examination. I presume, if you find the field examination necessary, that it will be made out of your Grand Junction headquarters. This will be very convenient, as Mr. Shea is located in Grand Junction and Mr. David is there when he is not at the mine in Lisbon Valley. I have requested both of them to give you complete cooperation to facilitate such a field examination. I am sure they will be able to give you a great deal of help.

I sincerely hope that there is nothing that will interfere with giving our application prompt consideration.

Appreciating the splendid cooperation we have received from the Denver office, as well as the Washington office, in expediting this matter, I am

Sincerely yours,

Chas. D. Long

L:FS
Mr. Aubrey E. David
Mr. A. J. Shea
Mr. C. O. Mittendorf

COPY

DMEA Form 7
(12-56)

700

OFFICIAL FILE COPY

Date	Surname	Code
3-1	Knouse	700
3/4	Selfridge	130
"	Johnson	110
"	Butterworth	100
3/5	C	220

700

MAR 4 1957

Mr. B. N. Harshman, Acting
Executive Officer
DMEA Field Team, Region III
224 New Customhouse Building
Denver 2, Colorado

Re: Docket No. DMEA-4639 (Uranium)
Algonquin Mines
Bench Claim Group
San Juan County, Utah

Dear Mr. Harshman:

The captioned application is referred to your office for either a field examination and report on the proposed project, or the Field Team's recommendations based on available information.

Enclosed are copies of memoranda, dated February 20 and 27, 1957, from John B. Crawford, USBM, and W. P. Williams, USGS, respectively, relating to the proposed project and one extra copy of the application, with attachments, for the use of the Field Team. Also enclosed are two copies of a letter from the Applicant, dated February 26, 1957.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (GCS)

Enclosures

APPROVED:

Frank D. Lamb
Member, Bureau of Mines (GCS)

Thor H. Kiilsgaard
Member, Geological Survey (GCS)

FLKnouse/izm 3-1-57
cc to: Mr. Knouse
Admr.'s Reading File
Operating Committee
THKiilsgaard, 5224
JKratchman, AEC

8623

DMEA Form 7
(12-56)

700

OFFICIAL FILE COPY

Date	Surname	Code
3-1	Knouse	700
3/4	Selbrede	130
"	Johnson	110
"	Mitchendorf	100
		220

Lamb
Kilsgaard

MAR 4 1957

Mr. Charles D. Long, Partner
Algonquin Mines
Room 600, 418 Olive Street
St. Louis 2, Missouri

Re: Docket No. DMEA-4639 (Uranium)
Bench Claim Group
San Juan County, Utah

Dear Mr. Long:

This is to acknowledge your letter of February 26, 1957, and to inform you that your application is now being referred to Mr. E. N. Harshman, Acting Executive Officer, DMEA Field Team, Region III, 224 New Customhouse Building, Denver 2, Colorado, for further consideration and possibly a field examination.

The Regional Office will contact you at an early date if an examination is to be made. Any assistance you may give the members of the Field Team during the examination will be appreciated.

Sincerely yours,

R. O. Mitchendorf (for)

Administrator

FLKnouse/izm ~~2x~~ 3-1-57
cc to: Mr. Knouse
Admr.'s Reading File
DMEA FT Reg. 3 (2)

8623

ALGONQUIN MINES
A CO-PARTNERSHIP
ROOM 600, 418 OLIVE STREET
ST. LOUIS 2, MISSOURI
CHESTNUT 1-5845

26,

February 26, 1957

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DMEA
RECEIVED FEB 28 1957

DATE	INITIALS	CODE
2/28	C	220
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Mr. Allen S. Dakan, Director
Operations Control and Statistics Division
Defense Minerals Exploration Administration
U. S. Department of the Interior
Washington 25, D. C.

Docket Number DMEA-4639

Dear Mr. Dakan:

Thank you for your letter of February 15th with reference to the above subject. Prior to having received your letter, I had written to Mr. Traver, the Executive Officer at Denver, as per copy of letter herewith enclosed. I received a reply from him, which seems to me to completely answer the question. However, he says that inasmuch as the application has been referred to you, I should address any further questions to you.

Algonquin Mines has indulged in two operations in Utah, one in Mineral Canyon and the other in Lisbon Valley. Mineral Canyon we had to abandon because while we were positive there was amendable ore there, the cost of extracting, due to the overburden, was so great that we didn't feel justified in expending further funds. In Lisbon Valley we have been mining ore, but our mining cost has been so great that it merely has resulted in swapping dollars. In all, we have put in about $120,000.00 before resorting to the DMEA assistance loan. We had a geologist examine the property, and he suggested that what we had been mining probably were lagoons and that we had not located the main ore body, and that is the reason for the loan.

We have available cash funds, which we are holding in tact, to take care of our share of the drilling cost. We were advised by your Denver office that it would take approximately ninety days from the filing of the application before a determination is made on the application. If the action is favorable, we would receive word just about the time when the drilling companies in the area boost their per foot drilling costs due to assessment work which is left to the last minute, and in May and June we have found that drilling costs are up. If our loan could be approved so that we could get the benefit of the normal commercial drilling rates, we would prefer to do the drilling after July 1st. Is it possible that action on the application could be expedited so that we would know one way or the other whether we are to look forward to assistance from a DMEA loan?

Very truly yours,

Thos. D. Long

CDL:FS
Enc.

February 14, 1957

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DMEA
RECEIVED FEB 28 1957

DATE	INITIALS	CODE

Mr. W. M. Traver, Executive Officer
Defense Minerals Exploration Administration
United States Department of the Interior
224 New Customhouse
Denver 2, Colorado

Re: Application for DMEA Aid (Uranium)
Algonquin Mines
(Bench Group, Queen Mary Mine)
San Juan County, Utah

Dear Mr. Traver:

Thanks for your letter of February 12th acknowledging the filing of four copies of the application above indicated.

I notice from your letter that it probably will take about ninety days from February 12th and perhaps longer to process the application. This indicates that word on the application will probably not be received until early in June. If the application is favorably acted upon, the approval will come just at a time when the drillers are very busy doing assessment work, and for that reason I would appreciate it, if the application is favorably acted upon, if we would not be required to commence the drilling program until after July 1st since during the time that the drillers are busy, it has been our experience that drilling rates have gone up. We are hoping to do the drilling at approximately the cost of the preliminary drilling we did on the Bench Claims. This would save some appreciable amount in drilling costs which we would be very anxious to save if possible. Of course, if we receive word of favorable action in time to commence our drilling before the rush has set it, and we can secure a favorable rate, we will expect to proceed immediately.

Appreciating your very prompt attention to our application, I am

Very truly yours,

CDL:PS
CC: Mr. Harry J. Burkart
Dr. Ralph W. Colpitts
Mr. Henry T. Brinckwirth
Mr. and Mrs. Hilbert Wm. Magnauer
Mr. and Mrs. J. Reynolds Nedart

IN REPLY REFER TO:

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

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RECEIVED FEB 28 1957

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2-28	Knauer	700

Comment Complete

February 27, 1957

Re: DMEA 4639
Alganquin Mines
Bench claims
San Juan County, Utah
$20,750.00 - Uranium

Memorandum

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

From: W. P. Williams, U. S. Geological Survey

Subject: Review of application, DMEA 4639, Algonquin Mines, Bench claims, San Juan County, Utah, (uranium)

The applicant proposes to explore for uranium ore deposits on 16 unpatented mining claims. The proposed work would consist of a total of 22,035 feet of wagon drilling, in three stages, at a total estimated cost of $20,750.

According to the applicant somewhat more than 620 tons of uranium ore have been mined and shipped from the property. No ore reserves remain. Thirty-three wagon-drill holes have been drilled by the applicant near the Queen Mary mine. According to assays attached to the application two holes, nos. 3 and 11, were ore holes; although they are not so indicated on the applicant's map, fig. 3.

The Bench claims are located in an area where geologic conditions are unfavorable and known ore deposits are small and scattered. DMEA 3929, Capitol Uranium Corporation, whose land adjoined the south boundary of the Bench claims was denied. DMEA 3931 in the same vicinity was withdrawn by the applicant.

I do not believe that DMEA expenditures should be made on the property. I recommend that the application be referred to the Field Team for review and comment. Recent developments and new information could, of course, alter the situation but unless such is the case I suggest that denial without field examination is justifiable.

W. P. Williams

William P. Williams

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

Date February 20, 1957

DMEA Docket No. 4639
DMEA Contract No.
Commodity Uranium
Name of applicant Algonquin Mines
Name of property Bench group, Queen Mary mine
Location of property San Juan County, Utah
Estimated cost of project $20,750.00

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

Subject: Review of Application
(Exploration, Mill Site Report, etc.)

1. Date received: 2/15/57 2. Date received by reviewer: 2/15/57

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

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

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

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

7. Explain items noted yes above:

8. Factors meeting special consideration:
a. Location ☐
b. Commodity ☐
c. Existence of stockpiling ☐
d. Geology ☐
e. Proposed exploration method ☐
f. Alternate exploration method ☐
g. Costs ☐
h. _____ ☐

9. Action taken:
a. Obtain information from applicant ☐
b. Refer to Field Team ☐ x
c. Reject ☐
d. Agree with Field Team ☐
e. Consult with Mr. _____ of _____ ABC office.
f. Disagree with Field Team ☐
g. Suggest alternate plan ☐
h. Request another consideration ☐
i. Approval ☐

10. Remarks: (Use back of page if necessary)

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"	Ellis	700

224 New Customhouse
Denver 2, Colorado

February 18, 1957

OFFICIAL FILE COPY DMEA RECEIVED FEB 20 1957		
DATE	INITIALS	CODE
2-20	C	220
2-20	[illegible]	700

Mr. Charles D. Long
Algonquin Mines
Room 600, 418 Olive Street
St. Louis 2, Missouri

4639

Re: Application for DMEA Aid (Uranium)
Algonquin Mines
(Bench Group, Queen Mary mine)
San Juan County, Utah

Dear Mr. Long:

This acknowledges receipt of your letter of February 14, 1957 with further reference to the captioned DMEA application.

In the event the application is acted on favorably, after the procedure stated in my letter of February 12 has been completed, and if a contract is made, the date for starting operations as stated in the contract is left for designation by the Operator providing it is within a reasonable length of time from the actual date of the contract and also allows sufficient time to complete the work prior the completion date which is always stipulated in all contracts.

Inasmuch as the application has been referred to the Washington office, it is suggested that you address any further questions to them, at least until you have been advised that the application has been referred to the field for examination. The address is Defense Minerals Exploration Administration, U. S. Department of the Interior, Interior Building, Washington 25, D.C.

Very truly yours,

Original signed by
W. M. TRAVER

WMT:jy
cc: Sec. Op. Comm. (2)
Harshman)w/copy of ltr.
Docket w/orig. of Long's ltr.
Chron.

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

February 14, 1957

Mr. W. M. Traver, Executive Officer
Defense Minerals Exploration Administration
United States Department of the Interior
224 New Customhouse
Denver 2, Colorado

OFFICIAL FILE COPY
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RECEIVED FEB 20 1957
DATE | INITIAL | CODE

Re: Application for DMEA Aid (Uranium)
Algonquin Mines
(Bench Group, Queen Mary Mine)
San Juan County, Utah

Dear Mr. Traver:

Thanks for your letter of February 12th acknowledging the filing of four copies of the application above indicated.

I notice from your letter that it probably will take about ninety days from February 12th and perhaps longer to process the application. This indicates that word on the application will probably not be received until early in June. If the application is favorably acted upon, the approval will come just at a time when the drillers are very busy doing assessment work, and for that reason I would appreciate it, if the application is favorably acted upon, if we would not be required to commence the drilling program until after July 1st since during the time that the drillers are busy, it has been our experience that drilling rates have gone up. We are hoping to do the drilling at approximately the cost of the preliminary drilling we did on the Bench Claims. This would save some appreciable amount in drilling costs which we would be very anxious to save if possible. Of course, if we receive word of favorable action in time to commence our drilling before the rush has set it, and we can secure a favorable rate, we will expect to proceed immediately.

Appreciating your very prompt attention to our application, I am

Very truly yours,

Chas. D. Long

CDL:FS
CC: Mr. Harry J. Burkart
Dr. Ralph W. Colpitts
Mr. Henry T. Brinckwirth
Mr. and Mrs. Hilbert Wm. Hagnauer
Mr. and Mrs. J. Reynolds Medart

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

February 15, 1957

Algonquin Mines
Room 601
110 Olive Street
St. Louis, Missouri

Subject: DMEA-4639

Gentlemen:

Your application for exploration assistance, dated February 6, 1957 submitted to our office at Denver, Colorado has been assigned Docket Number DMEA-4639 and referred to the Rare & Miscellaneous Division in the Washington office. Kindly identify all future correspondence relating to your application by this Docket Number.

Sincerely yours,

Allen S. Dakan, Director
Operations Control and
Statistics Division

Copy to: cy region III
Cy 700

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Mr. Fitzgerald, U.S. Rm. 5222	RUN / STOP	RU / ST
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Mr. Kilbourne Int.	RUN / STOP	RU / ST
Mail & Files DMEA Rm 4450 Int.	RUN / STOP	RU / ST
Mr. Fitzgerald 5222	RUN / STOP	RU / ST
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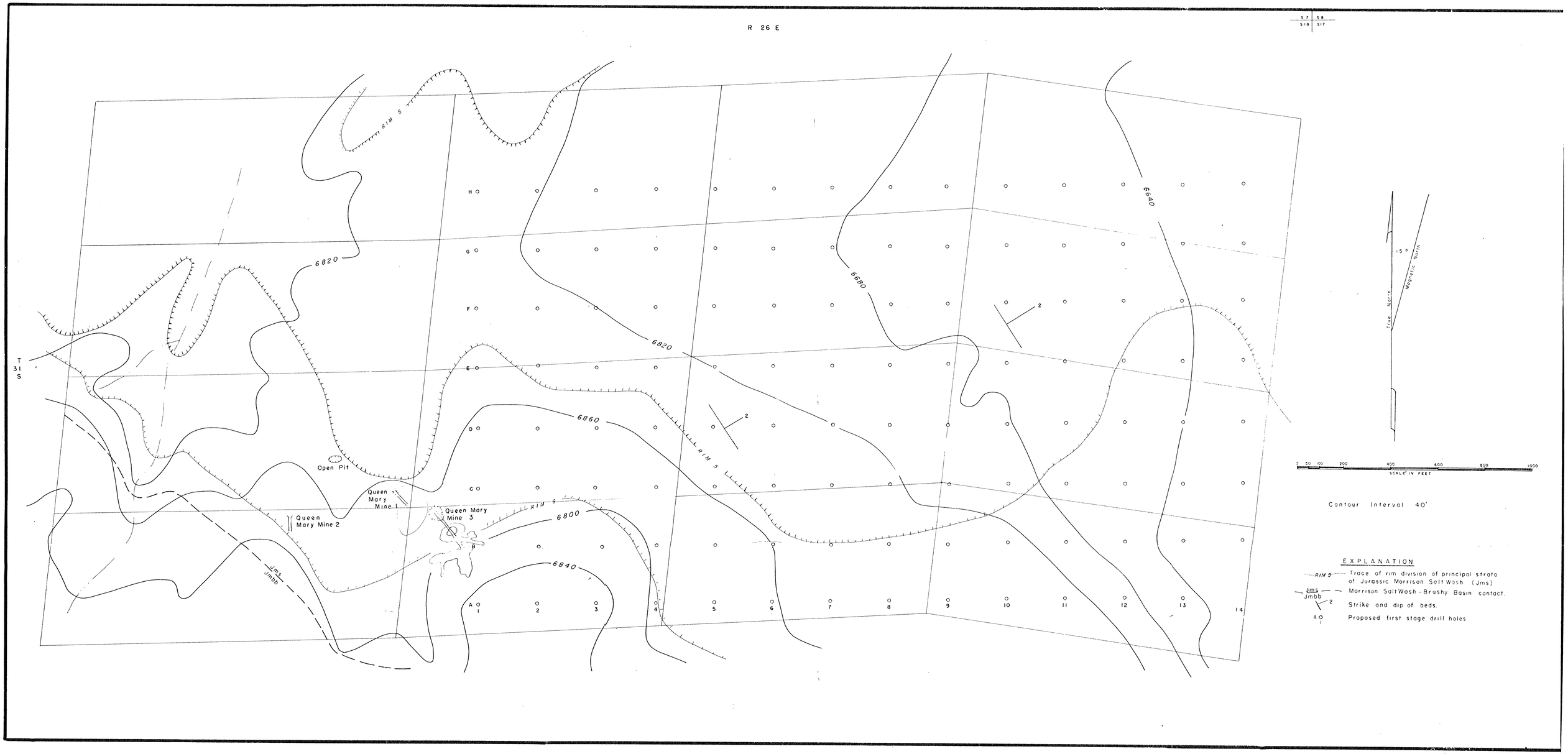

Figure 4. Geologic map and proposed first stage drill holes - Queen Mary Mines - San Juan County, Utah.

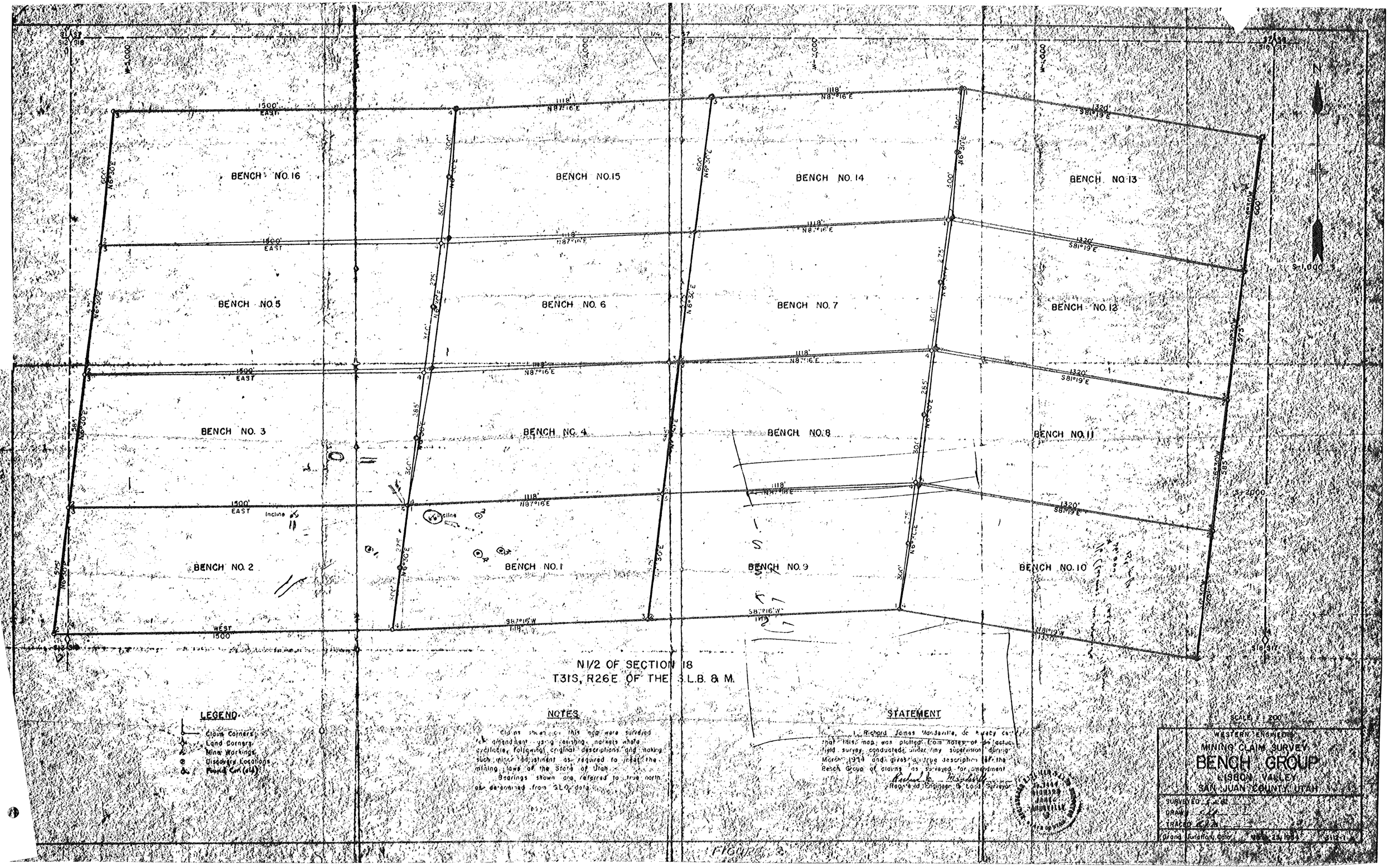
BENCH NO. 16
BENCH NO. 15
BENCH NO. 14
BENCH NO. 13
BENCH NO. 5
BENCH NO. 6
BENCH NO. 7
BENCH NO. 12
BENCH NO. 3
BENCH NO. 4
BENCH NO. 8
BENCH NO. 11
BENCH NO. 2
BENCH NO. 1
BENCH NO. 9
BENCH NO. 10
1500' EAST
1118' N87°16'E
1320' S81°19'E
N6°30'E
1500' EAST
Incline
WEST 1500
S87°16'W
N1/2 OF SECTION 18
T31S, R26E OF THE S.L.B. & M.
LEGEND
Claim Corners
Land Corners
Mine Workings
Discovery Locations
Found Cor (old)
NOTES
Claims shown on this map were surveyed for amendment using existing markers where practicable, following original descriptions and making such minor adjustment as required to meet the mining laws of the State of Utah.
Bearings shown are referred to true north as determined from S.L.O. data.
STATEMENT
I, Richard James Mandeville, do hereby certify that this map was plotted from notes of a detailed field survey conducted under my supervision during March 1974 and gives a true description of the Bench Group of claims as surveyed for amendment.
Registered Engineer & Land Surveyor
SCALE 1" = 200'
WESTERN ENGINEERS
MINING CLAIM SURVEY
BENCH GROUP
LISBON VALLEY
SAN JUAN COUNTY, UTAH
SURVEYED
DRAWN
TRACED
Grand Junction, Colo.

FIGURE 2