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

November 8, 1955

224 New Customhouse
Denver 2, Colorado

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 3310 (Uranium), Don Danvers, Shakin Quakie Fraction and Hubbard Homestead, Mesa County, Colorado

In reply to your letter of November 3, 1955 we recommend that the subject docket be closed. We have received no reply from the applicant to our letter of October 22, 1954 or the repeated efforts of the field men to obtain definite exploration proposals from the applicant.

W. M. Traver

By J. W. Townsend

11-10-55 ign

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

November 8, 1955

224 New Customhouse
Denver 2, Colorado

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 3310 (Uranium), Don Benvero, Shakin Quakie Fraction and Hubbard Homestead, Mesa County, Colorado

In reply to your letter of November 3, 1955 we recommend that the subject docket be closed. We have received no reply from the applicant to our letter of October 22, 1954 or the repeated efforts of the field men to obtain definite exploration proposals from the applicant.

W. M. Traver

By J. W. Townsend
J. W. Townsend

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

224 New Customhouse
Denver 2, Colorado

November 9, 1955

Memorandum

To: Secretary, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Royalty payments, DMEA Docket 3448 (Tungsten), Contract Idm-E763, Black Pearl Mining Company, Black Pearl Claims No. 1, 2 and 7, Yauapai County, Arizona.

Enclosed are the Washington office copies of a memorandum prepared by T. M. Romslo regarding calculation of DMEA royalty from production from the subject property. This information was requested in our August 19, 1955 memorandum to W. R. Storms. Copies of our letter to the operator giving approval to his method of DMEA royalty proration are also included. Your royalty records for this contract should now be complete.

W. M. Traver

By J. W. Townsend
J. W. Townsend

Enclosures

RECEIVED
NOV 14 1955

DMEA
Date Rec'd.

OCT 28 1955

BUREAU OF MINES
Denver, Colorado

Box 4097
Tucson 5, Arizona

October 26, 1955

Memorandum

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

From : T. M. Romalo, Mining Engineer, for Superintendent Southwest Experiment Station, Region III

Subject : Royalty Determination, Project DMEA-3448 (Tungsten) Contract Ida-2763, Black Pearl Mining Company, Black Pearl Mine, Yavapai County, Ariz.

Attached please find six copies of the memorandum report that you requested in your letter of August 19, 1955.

T. M. Romalo

T. M. Romalo, Mining Engineer
for Walter R. Stoms
Superintendent
Southwest Experiment Station

CC W. M. Traver (6)
DMEA-3448
RF

TMRomalo:frj

RECEIVED
NOV 14 1955

Box 4097
Tucson 5, Arizona

October 26, 1955

Memorandum

To : Walter R. Storms, Superintendent, Southwest Experiment Station, Region III

From : T. M. Romslo, Mining Engineer, Tucson, Arizona

Subject : Royalty determination, Docket DMEA-3448, (Tungsten) Contract Idm-E763, Black Pearl Mining Company, Black Pearl Mine, Yavapai County, Ariz.

The following information and conclusions regarding subject company's method of determining royalties is an answer to W. M. Traver's request of August 19, 1955. The information was obtained during conversations with the operators, Messrs. J. H. Crazier and E. A. Scholz, and from data contained in a copy of Crazier's letter of July 21, 1955 to Mr. Traver.

To obtain the average grade of ore subject to royalties, the operators assay a composite of 3 channel samples cut across the face of the vein as exposed after each blasted round of about 5 feet. The channel samples are cut at 2, 4, and 6 feet from the floor. At present, this method is confined to the adit that is the sole heading being driven on the vein.

Muck piles from the adit and stoping operations are hand sorted before being trammed to the mill for additional hand sorting on a stationary screen with 1 square inch openings. Plus 1-inch pieces containing wolframite are sorted out and hand cobbed. The remaining plus 1-inch material goes to the tailings pile. Minus 1-inch product is then treated in a Harts type jig using .034-inch screen openings. Bed concentrate containing about 50 percent WO_3 is removed periodically from the jig. Match product containing mainly pyrite and up to 1.0 percent WO_3 is stockpiled. The hand sorted ore and bed concentrate are crushed to minus 1/8 inch and magnetically cleaned at the Hillside Mining and Milling Co.'s magnetic separator. Resulting concentrates are sold to the Hillside Mining and Milling Company, a company headed by officers and supervisors of the Bagdad Copper Co.

CC W. M. Traver (Orig. & 6)
DMEA-3448
DF

RECEIVED
10/14/1955

TMRomslo:frj

The company presently is operating the Tungstona mine that is located about 10 miles north of Bagdad. It has started negotiations for purchase of the Black Pearl Mining Co. If the deal is completed and subject contract is assigned to the new owners, all ore from the Black Pearl Mine probably will be treated at the Tungstona mill.

The company's record of recovery from hand sorting and jigging mine ore through 1954 follows:

	Units WO_3	% of total contained units
Units recovered (sold)	2,570.26	66.54
7,235 tons of jig and hand sorted tails	904.38	23.45
320 tons jig hutch at 0.65%	214.50	5.56
40 tons jig hutch at 0.94%	37.60	0.97
20 tons magnetic separator tails, 6.5%	130.00	3.38

Payment of royalties on ore production from the adit for March through June has been calculated and payed on the following basis: Monthly production of contained units of WO_3 was calculated from the measured volume of vein material and the average assay of the composite samples. The approximate recovery factor of 67 percent (from above table) was applied to contained units to obtain production subject to royalty payments. Payments have amounted to the specified 5 percent of the value of the calculated recovered WO_3 at $3.00 per unit. Additional royalties will be due if the hutch and separator products are milled in the future. These products contain significant amounts of tungsten, beryllium, bismuth, and other minerals that could be recovered in a properly designed concentrator.

CONCLUSIONS

Accurate sampling of the vein is very difficult because the presently recoverable values occur as scattered crystals of wolframite. Under this condition, the preferred method of determining royalties would be to separately mill ore produced from contract headings and base payments on concentrates produced. However, this method is impracticable because both contract and non-contract ore must be produced simultaneously for financial reasons and because the cost of redesigning the milling plant for separate treatment of the ores would be excessive. Consequently, I feel the Government should accept the company's method of determining royalties, after possible arithmetic revisions, because the grade of ore is obtained by a practicable and probably reasonably accurate sampling procedure and because the recovered values are based on average results obtained by milling several thousand tons of similar ore.

For possible arithmetic revisions, reference is made to the royalty calculations of Mr. Cranier's letter of July 21, 1955. In checking these calculations I find slight errors that evidently are due to rounding out certain figures to the nearest whole number and carrying others to the nearest one hundredth place. I suggest that calculations should consistently be carried out to the nearest one hundredth place.

T. M. Ronald

T. M. Ronald, Mining Engineer
Southeast Experiment Station
Region III

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

224 New Customhouse
Denver 2, Colorado

November 9, 1955

Mr. J. H. Cazier, Secretary-Treasurer
Black Pearl Mining Company
Bagdad, Arizona

Re: Royalty payments, DMEA Docket 3448 (Tungsten), Contract Idm-E763, Black Pearl Mining Company, Black Pearl Claims No. 1, 2 and 7, Yavapai County, Arizona

Dear Mr. Cazier:

Reference is made to our previous letter to you dated August 19, 1955 concerning the method of computation of DMEA Royalties due on Contract Idm-E763. This question was referred to our field office in Tucson, Arizona. After a field examination the field engineers have determined that the method of royalty determination as proposed by your letter of July 21, 1955 is equitable to both yourself and the Government.

This letter therefore constitutes full Government approval that your porposals be used for the calculation of future royalties due under DMEA Contract Idm-E763 until such time that conditions would warrant a further revision. We would prefer that all DMEA ore be handled separately but we realize this procedure is not possible at the present time.

The inspecting engineer does recommend that all calculations be carried out to the nearest one hundredth place and not rounded off to the nearest whole number. Where several computations are required to arrive at the amount of royalty payment, rounding off the first calculation can give a substantial error to the final answer. Following is our recalculation of reported royalties due showing a difference of $2.65 from that reported on July 21, 1955.

BLACK PEARL MINING CO. (E763)

<u>March-April Advance</u>

61 ft. of drift advance 31" wide by 8' high at 11 cubic feet per ton equals 114.61 tons at 0.85% WO_3 or 97.42 units at 67% recovery -- 65.27 units at $63.00 --
$4,112.01 at 5.0% Royalty - - - - - - - - - - $205.60

May Advance

20 feet of advance 20" wide by 8' high at 11 cubic feet per ton equals 24.24 tons at 0.065% WO_3 or 1.58 units at 67% recovery -- 1.06 units at $63.00 --
$66.78 at 5.0% Royalty - - - - - - - - - - - - - - $3.34

June Advance

29 feet of advance 17" wide by 8' high at 11 cubic feet per ton equals 29.88 tons at 0.65% WO_3 or 19.42 units at 67% recovery -- 13.01 units at $63.00 --
$819.63 at 5.0% Royalty - - - - - - - - - - - - - - $40.98

Total Royalty paid - - - - - - - - - - - - - - - - $852.57
Total Royalty due - - - - - - - - - - - - - - - - 849.92

Amount of Royalty Overpayment - - - - - - - - $ 2.65

You may deduct this amount ($2.65) from future royalty payments.

Yours very truly,

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

By J. W. Townsend
J. W. Townsend

RDB/vj

cc: Royalty File E763 w/Romslo Report
Sec. Opr. Comm. (2) " "
W. R. Storms w/Romslo Report
Barkenkotter W/ " "
Chron.

Adams
Selfridge
Johnson

NOV - 3 1955

Mr. W. H. Travers
Executive Officer
DMEA Field Team, Region XII
Bureau of Mines
224 New Customhouse Building
Denver 2, Colorado

Re: Docket No. DMEA-3310 (Uranium)
Don Danvers
Shakin Quakie Fraction and
Hubbard Homestead
Mesa County, Colorado

Dear Mr. Travers:

Reference is made to Docket No. DMEA-3310 submitted by Mr. Don Danvers for a proposed exploration project for uranium.

The last information we have in the Docket is a copy of a letter from Mr. W. H. King to Mr. Don Danvers, dated October 22, 1954, advising that "Unless a definite proposal is submitted before November 30, 1954, we will assume you are no longer interested in exploration assistance, and your docket will be closed."

Since we have had no further word on this application subsequent to the above-mentioned correspondence, would you kindly advise whether you consider this Docket "closed."

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (SB)

APPROVED:

/s/ Robert W. Geehan (SB)
Member, Bureau of Mines

W. P. Williams (SB)
Member, Geological Survey

REAdams:mm - 11/2/55
Copy to: Operating Committee (3)
Adm. R. File
Mr. Adams
Mail & Files

R.S.J.

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 25 1954

224 New Customhouse
Denver 2, Colorado

October 22, 1954

Mr. Don Danvers
Moab, Utah

Dear Mr. Danvers:

Reference is made to your application for exploration assistance on the Shakin Quakie Fraction and Hubbard Homestead, Mesa County, Colorado, Docket Number DMEA 3310.

We have not received a reply to the request of our field men for a definite proposal covering exploration work under this docket. Unless a definite proposal is submitted before November 30, 1954, we will assume you are no longer interested in exploration assistance, and your docket will be closed.

Yours very truly,

W H King

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

JFS:mn

cc: Docket
A.H.Koschmann
W.M.Traver
A.Brokaw
Chairman, Oper. Comm.
Chron.

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 25 1954

224 New Customhouse
Denver 2, Colorado

October 22, 1954

Mr. Don Danvers
Moab, Utah

Dear Mr. Danvers:

Reference is made to your application for exploration assistance on the Shakin Quakie Fraction and Hubbard Homestead, Mesa County, Colorado, Docket Number DMEA 3310.

We have not received a reply to the request of our field men for a definite proposal covering exploration work under this docket. Unless a definite proposal is submitted before November 30, 1954, we will assume you are no longer interested in exploration assistance, and your docket will be closed.

Yours very truly,

W H King

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

JFS:mn

cc: Docket
A.H.Koschmann
W.M.Traver
A.Brokaw
Chairman, Oper. Comm. ✓
Chron.

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

224 New Customhouse
Denver 2, Colorado

June 4, 1954.

Mr. Don Danvers
Moab
Utah

Re: Docket No. DMEA-3310

Dear Mr. Danvers:

We have had no reply to our letter of April 28, 1954 in which we requested additional information on the locations of holes which have been drilled previously on the property and the location of your proposed drill holes.

If we do not receive a reply to this letter before July 6, 1954 we will presume that you are no longer interested in your proposed exploration work and we will close the docket.

Very truly yours,

W H King

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

HMC:cwm

cc: Docket
Administrator,DMEA
WPWilliams
AHKoschmann
Chron.
WMTraver

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

Defense Minerals Administration
RECEIVED
MAY 3 - 1954

224 New Customhouse
Denver 2, Colorado

April 28, 1954.

Mr. Don Danvers
Moab
Utah

Re: Docket No. DMEA-3310

Dear Mr. Danvers:

On March 10, 1954 we returned four maps which had been submitted with your application on the Beaver Mesa claims in Mesa County, Colorado and requested that you indicate with an "X" the location of all of your proposed drill holes on each of the four maps. With your letter of April 2, 1954 you returned the four maps and stated that you had indicated the location of your proposed holes as requested in our letter of March 10, 1954. We do not doubt your intent to show the location of these holes but the locations were not shown on any of the maps.

Enclosed is one copy of the map of the Hubbard Homestead. Will you please indicate with an "X" the location of all of your proposed drill holes on this map and return it to this office.

This map shows seven ore holes but you have submitted logs for only four holes. Do you have the assay data for the remaining holes? If so, please submit this information. Your application can be expedited more efficiently if you will furnish us complete information.

As soon as we receive the required data we will continue to process your application.

Very truly yours,

W H King

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

Enclosure

HMC:cwm

cc: Docket
Administrator, DMEA
WPWilliams, Colo. Plateau Dist.
AHKoschmann
Chron.

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

224 New Customhouse
Denver 2, Colorado

April 9, 1954.

Memorandum

To: Administrator, Defense Minerals Exploration Administration
Attention: Code 200

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docketing for Exploration Assistance

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

Don Danvers
Moab
Utah (Uranium)

W. H. King

Enclosures

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

224 New Customhouse
Denver 2, Colorado

April 9, 1954.

Memorandum

To: Administrator, Defense Minerals Exploration Administration
Attention: Code 200

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docketing for Exploration Assistance

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

Don Danvers
Moab
Utah

(Uranium)

W. H. King

W. H. King

Enclosures

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

MAR 1 1954

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. 3310
Metal or Mineral Uranium
Date Received
Estimated Cost $16,200
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:

Don Danvers
Moab, Utah
An individual (See attachments for answers to all questions.

(*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 contact, veins, ore-bearing beds, etc.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

☐ Money ☐ Use of equipment owned by you ☐ Other

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated February 15, 1954

Don Danvers, an individual
(Applicant)

By Don Danvers

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

Applicants Property Rights

Item 3. (a)

Burt and Lyman Hubbard Homestead 60 acres fee land, being Lot 1, Section 35, Township 51 North, Range 20 West NMPM, Mesa County, Colorado and Shakin Quakie Fraction located in the NW corner Section 36, Township 51 North, Range 19 West. (See map)

Item 3. (b)

No mine is located on property.

Item 3. (c)

On Hubbard Homestead am a lessee.
On Shakin Quakie Fraction am the owner of the claim.

Item 3. (d)

See copies of lease and deed.

Item 3. (f)

Mining deed and agreement from Assignee and ratified by land owner recorded in Book 592, page 557, Mesa County, Colorado, covers the Hubbard Homestead, 60 acres. Deed of Shakin Quakies Fraction recorded in Mesa County, Colorado, Book 589, page 54.

Item 4. (a)

Core drill operations conducted by U. S. G. S. include 4 holes showing ore or mineralization and three holes by the applicant, two of which were barren and one of which showed mineralization and a fourth hole now drilling.

My interest is that of owner and if, by widely spaced exploratory test holes, ore is indicated on the tracts hereinbefore described, a shaft to this 422 foot depth will be driven.

The area is readily accessible by roads heretofore constructed by the U. S. G. S.

Item 4. (b)

An estimate of approximately 3,000 tons has been calculated from existing core tests. The average grade of the ore would be o.45% U_3O_8. (See the logs of drill hole tests)

Item 4. (c)

Typical Salt Wash (Morrison) carnotite ore is encountered in core tests. See maps, logs and assays.

Item 4. (d)

An all weather road to nearby Uravan, a distance of 45 miles, or to Grand Junction, a distance of 53 miles.

Item 4. (e)

Manpower for both exploratory core drilling or later mining is sufficient as are materials, supplies and water. Power is available for lighting by owners light plants.

Item 5. (a)

Uranium (carnotite) and Vanadium.

Item 5. (b)

The map used showing 4 c gives an exploration program of 12 holes as shown on map. Some of these may be more widely spaced than shown, to try to more completely explore for enough additional ore to make the project of a shaft a feasible one.

The depth of the holes are 450 feet, necessitating about 5,400 feet of exploratory drilling.

Item 5. (c)

Work will start within 10 days of approval of this project and will be finished within 6 months.

Item 5. (d)

Applicant has 28 years geological experience, including 3 years as owner of six core drill rigs and other drilling equipment. Has competent geologist graduate work in direct charge of core drilling operations, as well as others in office and field staff.

Item 6. (a)

None.

Item 6. (b)

Core drillers are paid standard wages of $2.50 per hour, helpers $2.00. The supervising geologist, as well as bookkeeper, have one-fourth of their salaries charged to this operation.

Item. 6. (c)

All supplies are figured in the total cost, including lights, water and fuel.

Item 6. (d)

The owners new Mayhew 1000 core drill will be used.

Item 6. (e)

No repairs nor rehabilitation costs anticipated.

Item 6. (f)

Owners camp only will be needed during exploration work.

Item 6. (g)

Office overhead, including one-fourth of bookkeepers time only, will be needed to take care of all accounting etc.

Item 6. (h)

No contingencies anticipated.

Item 7. (a)

Yes.

Item 7. (b)

By money and use of equipment.

Core drill and tools inventory	$35,000.00
Water truck (new tandem)	3,750.00
New jeep for geological supervision	2,200.00
Camp equipment and tent	500.00
Total to be furnished as equipment	$41,450.00

BEAVER MESA

Hole No. 36

Sample		Lab Assay	
Base	Thick	U_3O_8	V_2O_5
402.2	0.3	0.013	0.12
404.0	1.8	0.046	0.35
404.7	0.7	0.22	0.67
405.3	0.6	1.57	2.88
406.8	1.5	0.89	0.84
408.3	1.5	0.95	0.52
408.9	0.6	0.39	2.10
409.5	0.6	0.10	0.82
409.8	0.3	0.11	0.87
410.2	0.4	0.063	1.02
410.6	0.4	0.078	0.90
411.4	0.8	0.20	2.33
411.8	0.4	0.15	0.29
412.7	0.9	0.037	0.32
413.5	0.8	0.012	0.15
422.5	1.7	0.003	0.1

BEAVER MESA

Hole No. 62

Sample		Lab Assay	
Base	Thick	U_3O_8	V_2O_5
426.5	0.3	0.037	0.41
433.3	0.4	0.14	0.60
433.7	0.4	1.53	2.67
435.2	1.5	0.59	0.26
435.5	0.3	0.13	0.17
436.7	1.2	0.033	0.1
438.3	1.6	0.054	0.1
438.5	0.2	0.51	0.36
438.8	0.3	0.034	0.1
439.1	0.3	0.15	0.14
440.3	0.8	0.035	0.1

BEAVER MESA

Hole No. 53

Sample		Lab Assay	
Base	Thick	U_3O_8	V_2O_5
416.7	0.3	0.031	0.15
417.2	0.5	0.19	0.48
417.7	0.2	0.015	0.62
420.2	0.4	0.038	0.1
420.5	0.3	0.071	1.32
420.8	0.3	0.034	0.37
421.7	0.3	0.057	0.59

BEAVER MESA

Hole No. 58

Sample		Lab Assay	
Base	Thick	U_3O_8	V_2O_5
405.0	0.1	0.068	3.07
410.7	0.3	0.40	0.74
410.8	0.1	0.099	0.37
411.4	0.6	0.040	0.1
412.3	0.3	0.038	0.22
414.7	0.6	0.022	0.17
415.3	0.3	0.012	0.1
415.6	0.3	0.36	0.12
416.5	0.9	0.034	0.1
426.1	0.6	0.043	0.1

Recorded at 9:45 o'clock A.M. Nov. 19, 1953
Reception No. 589362 Annie M. Dunston, Recorder

A G R E E M E N T

THIS AGREEMENT Made and entered into on this the 4th day of september, 1953, by and between Forrest Cochran, party of the first part, and Don Danvers, party of the second part;

WITNESSETH:

WHEREAS the first party leased from Bert Hubbard and Lyman Hubbard by written agreement dated the 13th day of December, 1952, the following described real property situate in the county of Mesa, State of Colorado, to-wit:

> Lot 1, Section 35, Township 51 North, Range 20 West of the New Mexico Principal Meridian; RESERVING AND EXCEPTING, however, unto the lessors, their heirs and assigns, the use of the surface of said premises and the use of DP Springs located upon said premises for livestock, it being understood and agreed by and between the parties that the lessee shall use only so much of said surface as shall be reasonably necessary in his mining operations upon said premises;

for a period beginning on the 16th day of December, 1952 and ending on the 16th day of December, 1957, with an option to extend said agreement upon the same terms and conditions for an additional five (5) year period with a rental for said premises of 15% of the value of all ores mined and sold from said premises; and

WHEREAS, it is the mutual wish of the parties hereto that the first party sub-lease said premises to the second party on the terms and conditions hereinafter set forth;

NOW, THEREFORE, for and in consideration of Ten Dollars ($10.00) and other valuable consideration and the mutual covenants and agreements of the parties hereto, it is agreed as follows:

That the first party does hereby sub-lease unto the second party the above described real property for a period beginning on the date first above written and ending on the 16th day of December, 1957, unless sooner terminated through a violation of any of the

covenants of the agreement herein contained or a violation of the terms and conditions of said lease agreement between the first party and said Hubbards, with the right in the second party to exercise the option for an additional five year period as contained in said lease agreement.

That the mining lease above referred to between the first party and the said Hubbards is inclosed herein and made a part of this agreement by reference as fully as though copied herein.

The second party agrees to carry on and conduct his mining operations upon the leased premises in strict accordance with the terms and conditions of said original lease between the said first party and the said Hubbards and to indemnify and save harmless the first party of and from any and all damages which may accrue to the first party on account of the failure by the second party to keep and perform any of the terms and conditions of the aforesaid original lease.

The second party covenants and warrants that he willkeep in good standing the aforesaid original lease from the said Hubbard to the first party and agreed that he will prevent a forfeiture or cancellation of said original lease.

The second party agrees to pay to Bert Hubbard and Lyman Hubbard 15% of the value of all ores mined and sold from said premises and agrees to authorize and instruct the ore buyer or buyers of ores mined from said premises to pay to Bert Hubbard and Lyman Hubbard 15% of the Value thereof and this agreement shall constitute and authorize said ore buyer or buyers to so pay the royalty due the said Hubbards under the terms and conditions of said original lease.

The second party agrees to pay to the first party over and above the royalty paid to the said Hubbards 12½% of the value of all ores mined and sold from said premises.having a value of less than $50.00 per ton and 15% of the value of all ores mined and sold from said premises having a value of $50.00 per ton or more.

The ore buyer or buyers of ore mined from said premises shall be authorized and instructed to pay to the first party the royalty herein provided. The second party agrees to pay to the first party 30% of any bonus received by him from the production of ores from said premises. Said 30% of any such bonus shall be paid to the first party within 10 days after the receipt thereof by second party. All haulage and development allowance paid for the production and transportation of ores from said premises shall be kept and retained by second party.

The second party agrees to go upon the premises above described immediately, and after doing certain core drilling for exploration and development purposes, to thereafter commence mining activities upon the same as soon as possible and to mine ore located upon the premises above described having due regard for the preservation of said property and economical mining and to continue mining ore therefrom solong as ore can be produced and mined at a reasonable profit.

Second party agrees that in the event he desires tosurrender or terminate this lease that he notify the first party of his intention before any default or breach of any covenant of the original lease has occurred so as to permit the first party to go upon said premises and keep and maintain covenants and agreements to be kept and maintained by him as provided in said original lease.

Upon the violation of any covenant or condition herein contained or violation of any covenants or conditions contained in the original lease dated December 16, 1952, this sub-lease shall at the option of the first party expire and terminate and the premises with all improvements thereon shall become forfeited to the first party, and the first party or his agent may thereupon, after demand in writing for possession, enter upon said premises and dispossess all persons occupying the same with or without force and with or without process of law. Or at the option of the first party, the

second party and all persons found occupying said premises or any part thereof may be proceeded against as guilty of unlawful retainer.

It being understood by and between the parties hereto that time is of the essence of this agreement and each and every clause of this agreement and all covenants and conditions contained herein and the covenants and conditions contained in said original lease shall extend to the heirs, executors, administrators and lawful assigns of the parties hereto.

IN WITNESS WHEREOF the parties hereto have hereunto set their hands and seals the day and year first above written.

Forrest M Cochran (SEAL)
Party of the first part

Don Danvers (SEAL)
Party of the second part

We, the lessors in the lease agreement dated the 16th day of December, 1952, between the undersigned as lessors and Forrest Cochran as lessee do hereby consent to the sub-lease of the premises as contained in this instrument and the assignment of the interest of the said Forrest Cochran in and to said agreement of December 16, 1952 to Don Danvers.

Dated at Gateway, Colorado,nthis 4th day of September, 1953.

Bert Hubbard (SEAL)
Bert Hubbard

Lyman Hubbard (SEAL)
Lyman Hubbard

No. 90-A. MINING LEASE (Form). —The Bradford-Robinson Ptg. Co., Mfrs. Robin Legal Blanks, Denver.

This Agreement of Lease, Made and entered into this 16th day of December, A. D. 19 52, by and between BERT HUBBARD and LYMAN HUBBARD of Gateway, Colorado, hereinafter called the lessors, and FORREST COCHRAN, of Grand Junction, Colorado hereinafter called lessee;

WITNESSETH, That the said lessors for and in consideration of the rents, royalties, covenants and agreements hereinafter expressed to be paid, kept and performed by the said lessee, have leased, let and demised and by these presents do lease, let and demise unto said lessee the following described mining property and premises, situate in the Gateway Mining District, Mesa County, State of Colorado, to-wit: Lot 1, Section 35, Township 51 North, Range 20 West of the New Mexico Principal Meridian; RESERVING AND EXCEPTING, However, unto the lessors, their heirs and assigns, the use of the surface of said premises and the use of DP Springs located upon said premises for livestock, it being understood and agreed by and between the parties that the lessee shall use only so much of said surface as shall be reasonably necessary in his mining operations upon said premises;

TO HAVE AND TO HOLD the above described premises for the purposes of mining, from the 16th day of December, A. D. 19 52, to the 16th day of December, A. D. 19 57, unless sooner forfeited or terminated through the violation of any of the covenants and conditions herein contained, with no power to assign this lease or any part thereof or to sublet the whole or any part of said leased premises without the written consent of the said lessors first had and obtained.

The said lessee in consideration of the premises have covenanted, contracted and agreed and by these presents do covenant, contract and agree to and with the said lessors, their executors, administrators and assigns:

(1) To enter upon said leased premises and to work the same in mine fashion in manner necessary to good and economical mining, so as to take out the greatest amount of ore possible, with due regard to the development and preservation of said mine or mining premises, as a workable mining property, and to the special covenants herein contained.

(2) To work and mine said premises as aforesaid, steadily and continuously during the period of this lease and in doing said work to perform at least 20 man shifts of mining labor per month each and every month during the life of this lease., commencing with June 15, 1953.

(3) To repair all old timbering wherever it may become necessary, and to well and sufficiently timber said mine and mining premises at all points where proper and necessary in accordance with good and safe mining; continuing the timbering in the working shafts now upon said premises with timber of the same dimensions as heretofore used, unless it becomes necessary for safety to use larger timber, in which event timber of sufficient size for safety and permanent mining shall be used.

(4) To allow the lessor..s..or....their.....agent from time to time to enter upon and descend into all parts of said leased premises, for the purpose of inspection, surveys or taking samples therefrom, and to render to said parties proper assistance in making such inspection, surveys or examination.

(5) To occupy and hold as the property of the lessor.....s.....all cross and parallel lodes, spurs and mineral deposits of every kind which may be uncovered, disclosed or discovered within said leased ground by the said lessee.....or any person or persons under or in privity with.....him....., with privilege to said lessee.....to work and mine the same as part and parcel of said premises.

(6) To keep at all times the drifts, shafts, tunnels and other workings thoroughly drained and clear of loose rock and rubbish, unless prevented by extraordinary mining casualty.

(7) To stow no waste underground except with the consent and under the direction of the lessor..s...

(8) To do no underhand stoping below the bottom of any main working level or winze and to do no stoping or breaking of ore rock within.....feet of any working shaft.

(9) Not to adulterate or mix any ores broken or mined without the consent of the lessor.s...; it being understood that all ores mined which are too low grade for present shipment shall remain the property of and be subject to the control and disposition of the lessor.....

(10) To make all working shafts at least four (4) feet by eight (8) feet in the clear; all drifts and tunnels at least three and one-half (3½) feet by six and one-half (6½) feet in the clear, and all winzes and raises at least three and one-half (3½) feet by seven (7) feet in the clear.

(11) It is expressly understood and agreed that the lessor...s.reserve.....the property and right of property in and to all ores extracted from said premises during the period of this lease, and the said lessee.....covenant.s....and agree.s...to pay and allow the lessors....as royalty upon all ores mined, shipped or sold from said leased premises in any manner during the life of this lease, as follows, to-wit: **Fifteen per cent (15%) of the value of all ores mined and sold from said premises; all buyer or buyers of ore mined from said premises shall be instructed to pay 15% of the value of ores so purchased directly to the lessors at Gateway, Colorado, and this agreement shall constitute authority for any such ore buyer or buyers to so pay such royalty. All bonuses, haulage and development allowances received by lessee from operating said premises shall be and remain his sole and separate property.**

It is understood and agreed by and between the parties that the lessee shall have the right and option to extend this agreement for an additional period of five years from the termination hereof upon giving written notice addressed to lessors by United States Registered mail at Gateway, Colorado, at least 30 days prior to the expiration hereof by limitation of time. Said right and option to so extend this agreement may be exercised by lessee only in the event he has complied with all the terms and provisions hereof at the time he exercises his option to so renew this agreement.

This agreement shall terminate on the 15th day of June, 1953, in the event the lessee has not commenced exploratory drilling of said premises by said date.

[illegible]

(12) The lessee.....shall and hereby do.es..assume all responsibility in case of accident to.....him..... or any of.....his.....employees in or about said property.

(13) All taxes assessed against said demised premises for ores mined and shipped under this lease shall be paid by the less..or.....

(14) All bills and expenses incurred by the lessee.....or those in privity with.....him.....shall be promptly paid by the lessee....., and by said prompt payment said lessee.....shall prevent the filing of any and all liens of miners, mechanics or material men, against said demised premises; and, if by reason of the failure of said lessee.....to pay such bills or expenses, any lien or liens shall be filed against said premises the said lessor..s.may forthwith pay off and discharge the same, and the said lessee.....hold..s..... bound to pay to said lessor..s..all sums so advanced or paid to clear said premises from liens which may be filed as aforesaid, and the said lessor..s..may also at.....their.....election declare a forfeiture of this lease.

(15) Said lessee.....further covenant..s...that no person not in privity with the parties hereto shall be allowed to hold possession of said premises or any part thereof under any pretext whatever.

(16) Further, that.....he.....will deliver to said lessor..s...quiet and peaceable possession of said demised premises in good order and condition with all drifts, tunnels and other passages thoroughly drained and cleared of loose rock and rubbish and said premises ready for immediate continued working, without demand or further notice, on the.....16th.....day of.....December....., A. D. 19..57..., at noon, or at any time previous thereto, upon demand for forfeiture, and it is mutually understood that all machinery and tools which may be placed upon said premises by the said lessee.....may be removed therefrom within ten days after the termination of this lease; provided, however, that no such tools or machinery shall be so removed while the said lessee.....may be in any manner indebted to the said lessor..s.. under any obligation incurred under this lease.

(17) Upon the violation of any covenant or condition herein contained, this lease shall, at the option of said lessor..s.., expire and terminate, and the said premises with the appurtenances and all buildings and other improvements shall become forfeited to the lessor..s...., and the said lessor..s... or.....their..... agent may thereupon, after demand in writing for possession, enter upon said premises and dispossess all persons occupying the same, with or without force, and with or without process of law, or at the option of the lessor..s..the said lessee.....and all persons found occupying said premises or any part thereof may be proceeded against as guilty of unlawful detainer.

Time is of the essence of this agreement, and each and every clause of this indenture and all the covenants and conditions contained herein, expressed or implied, shall extend to the successors, heirs, executors, administrators and lawful assigns of all of the parties hereto.

IN WITNESS WHEREOF, the parties hereto have hereunto subscribed their names the day and year first above written.

.....[SEAL]

Lyman L. Hubbard.....[SEAL]

Forest Cochran.....[SEAL]

.....[SEAL]

.....[SEAL]

.....[SEAL]

Recorded at .....o'clock.....M. .....
Reception No. ....Recorder.

THIS INDENTURE, Made this 15th day of February in the year of our Lord one thousand nine hundred and Fifty-Four between JOHN I. SCHUMACHER

of the County of Mesa and State of Colorado, part y of the first part, and

DON DANVERS

of the County of and State of Colorado, part...y.....of the second part;

WITNESSETH, That the said part y of the first part, for and in consideration of the sum of

Ten dollars and other good and valuable consideration-------- Dollars 100

to him in hand paid by the said part y of the second part, the receipt whereof is hereby acknowledged, ha s granted, bargained, sold, conveyed and confirmed, and by these presents do es grant, bargain, sell, convey and confirm unto the said part y of the second part, his heirs and assigns, the following described property, situate, lying and being in the Gateway (unorganized)

Mining District, in the County of Mesa and State of Colorado, to-wit:

SHAKIN QUAKIE FRACTION, location certificate recorded in Book 589 at page 54; Mesa County, Colorado;

together with all the dips, spurs and angles, and all the metals, ores, gold and silver-bearing quartz, rock and earth therein; and all the rights, privileges and franchises thereto incident, appendant and appurtenant, or therewith usually had and enjoyed; and all and singular the tenements, hereditaments and appurtenances thereto belonging or in any wise appertaining, and the rents, issues and profits thereof; and all the estate, right, title, interest, claim and demand whatever, as well in law as in equity of the said part y of the first part, of, in or to the said premises, and every part and parcel thereof, with the appurtenances;

TO HAVE AND TO HOLD The said premises above bargained and described, with the appurtenances, unto the said part y of the second part, his heirs and assigns forever. And the said John I. Schumacher part y of the first part, for him sel f , his heirs, executors and administrators, do es covenant, grant, bargain and agree, to and with the said part y of the second part, his heirs and assigns, that at the time of the ensealing and delivery of these presents, he is well seized of the premises above conveyed, as of good, sure, perfect, absolute and indefeasible estate of inheritance, in law, in fee simple, and ha s good right, full power and lawful authority to grant, bargain, sell and convey the same, in manner and form aforesaid, and that the same are free and clear from all former or other grants, bargains, sales, liens, taxes, assessments and incumbrances of whatever kind or nature soever; and the above bargained premises, in the quiet and peaceable possession of the said part y of the second part his heirs and assigns, against all and every person or persons lawfully claiming or to claim the whole or any part thereof, the said part y of the first part shall and will warrant and forever defend, always saving and excepting the same provisions, reservations and limitations contained in the patent of the United States, issued or to be issued for said property.

IN WITNESS WHEREOF, The said part y of the first part ha s hereunto set his hand and seal the day and year first above written.

Signed, sealed and delivered in the presence of John I. Schumacher (SEAL)

....(SEAL)

....(SEAL)

....(SEAL)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
~~[illegible] Post Office Building~~
~~SAN FRANCISCO [illegible]~~

OFFICIAL BUSINESS
Box 560
Juneau, Alaska

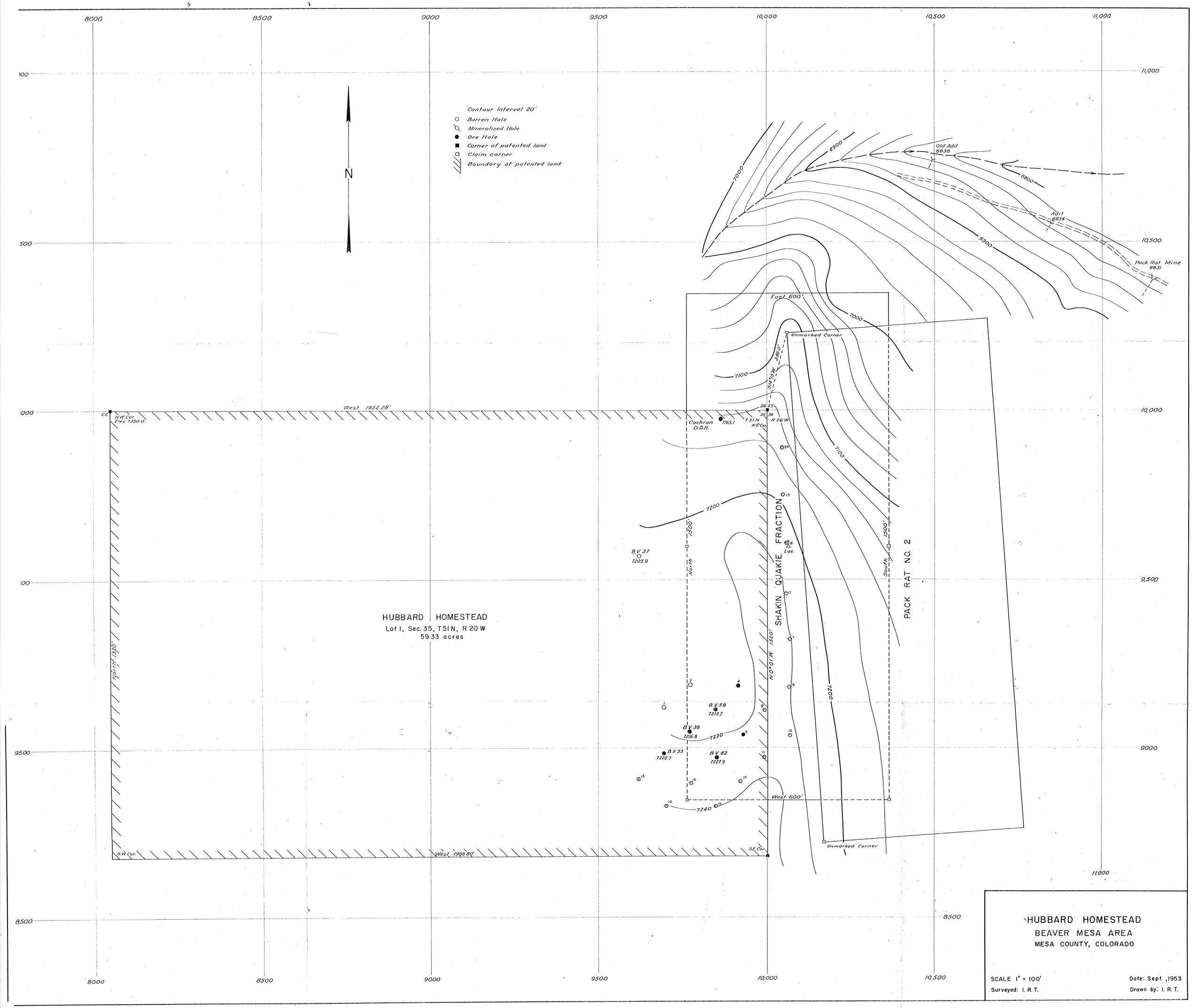
PENALTY FOR PRIVATE USE TO AVOID
PAYMENT OF POSTAGE, $300
(PMGC)

APR-9'54
ALASKA

VIA AIR MAIL

Operating Committee
Defense Minerals Exploration Administration
Interior Building
Washington 25, D. C.

VIA AIR MAIL



HUBBARD HOMESTEAD
BEAVER MESA AREA
MESA COUNTY, COLORADO

SCALE 1" = 100'
Surveyed: I. R. T.

Date: Sept. ,1953
Drawn by: I. R. T.