DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 3368

DO NOT DETACH THIS SLIP

Action on this document is recorded and controlled in Reports and Records Branch. Any movement of this document between divisions or offices of DMA or movement outside DMA must be reported to the Reports and Records Branch. Actions taken that affect status of the case must also be reported.

This document has been recorded as

Exploration Assistance

Any action taken to change the type of request for assistance must be promptly reported to the Reports and Records Branch. Use DMA Form 2 for submitting these reports.

Cys to USBM & USGS

Routing Slip

To:	400	Date	5/25/54
To:	Op. Com.	Date	5-28-54
To:	Oper Com	Date	6-11-54
To:	Oper Com	Date	8-11-54
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DO NOT DETACH

CONTROLLED DOCUMENT

400

C O P Y

RAYMOND F. BACON
Chemical Engineer
500 Fifth Avenue
New York

June 8, 1954

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

Re: Docket No. DMEA 3368 - Tungsten
Bacon Associates
Big Wash Claims
White Pine County, Nevada

Dear Mr. Mittendorf:

In our telephone conversation with Mr. Johnson of your Reno Office yesterday, he advised that he had assigned Mr. Gentry of his office, of make inspection of the Big Wash property. We arranged with Mr. Johnson that our Mr. C. X. Bacon is to meet Mr. Gentry in Baker, Nevada, on June 16th.

Mr. Donnelly advised us of your need of sketches of the property - with special reference to disclosure of the proposed method and location of the contemplated exploratory work. Two sketches in plan and in elevation are herewith enclosed. We hope these will satisfy your needs.

Herewith are comments on the several points regarding which Mr. Donnelly advised you would like more information:

1. If a mineral report was made on this property in connection with an access road it was probably prepared by the Ogden office of the Bureau of Mines. I have not seen this report but from the fact that they recommended the building of the road I presume it has been favorable.

2. The access road which the government built is described as "a low class road". Soon after it was built there was an unusual flood which damaged the surface in several places, and we then dragged the road and put it back in shape.

3. Relative to the ore which the oldtimers took out, it was packed out by pack mules or pack horses, and it is understood it was then taken to San Francisco and sold there.

4. With reference to the cost of driving a tunnel: The reason this tunnel can be driven so cheaply is that the limestone rock is very soft and it also breaks up very easily by a comparatively light charge of powder which

which breaks it down and the drilling is several times as fast as in basaltic, quartz, or other hard rocks. We had a price of $16.00 per linear foot and about 50 feet were drilled under this contract before the snow forced the contractor to quit. Two other contractors came in and looked at the work last fall and said they would be willing to contract for less than $20.00 per linear foot. We will try to get a firm contract subject to our obtaining the government loan, but we believe our $20. price was not too low. The work on this tunnel will have to be done during the summer season and until the proposition becomes much more established it would be foolish to try to work during the snow season.

5. Relative to water on the property: The statement which we made in our application that there is a spring on the property is in error. The spring is located about 3000 ft. above the property, and we purchased a heavy rubber hose and took it out to the property expecting to use it bringing water from the spring to the property. We decided that for the present it would be better to haul all the needed water from a point about a mile below the property. We are, however, now taking such steps as are necessary to give us legal rights to this spring water. Our older applications all said that there was no water on the property. The present statement got in as a typographical error and was not noticed in reading over the copy.

If there is any further information you would like to have we shall, of course, be very glad to furnish it.

Sincerely yours,

Signed: RAYMOND F. BACON

Raymond F. Bacon

cc: Messrs.:
A. C. Johnson
H. C. Miller
C. X. Bacon

IN REPLY REFER TO:

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

400

June 4, 1954

Memorandum

To: W. S. Martin

From: T. P. Thayer

Subject: [redacted]-3368 - [redacted]
Bacon Associates
White Pine County, Nevada

The application is too vague to evaluate, but does not sound encouraging.

The Field Team will have to examine the property, which shouldn't be a hardship in July. The foolish investment in an access road should not be allowed to unduly influence the decision on exploration.

Mr. J. V. O'Dwyer, EDC
General Services Administration
Room 5010, Regional Office Building
Mr. W. S. Martin, Chief
Iron and Ferro-Alloys Division, DMEA

Access Road Docket No. AR-213

Reference is made to your memorandum of May 24, 1954, transmitting to the Defense Minerals Exploration Administration Access Road Docket No. AR-213 for Bacon and Associates, Big Wash Mine, White Pine County, Nevada.

We thank you for lending this docket to us for review. It appears that we will have no further need for the material and the docket is returned herewith.

W. S. Martin, Chief
Iron and Ferro-Alloys Division

Attachment

cc: DOCKET 3368
CODE 400

file

June 1, 1954

400

Mr. J. V. O'Dwyer, EDC
General Services Administration
Room 5010, Regional Office Building
Mr. W. S. Martin, Chief
Iron and Ferro-Alloys Division, DMEA

Access Road Docket No. AR-213

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W. S. Martin, Chief
Iron and Ferro-Alloys Division

Attachment

cc: DOCKET 3368
CODE 400

Code 400

MAY 28 1954

Mr. H. C. Miller, Executive Officer
DMEA Field Team, Region III
1012 Flood Building
870 Market Street
San Francisco 2, California

Re: Docket No. DMEA 3368 - Tungsten
Bacon Associates
Big Wash claims
White Pine County, Nevada

Dear Mr. Miller:

The above-docketed application for exploration assistance is being referred to your office for review and a field examination of the property unless you find that an adequate examination has already been made.

The application has some conspicuous defects. No sample data are included although samples are said to have been taken. No map is attached. The proposed work is not adequately described. The costs seem to be underestimated. No reports are included from the unnamed mining engineers who "have seen this property and all have expressed the opinion that there was a good chance of a rich ore body at the contact between the limestone and the acidic rock underneath."

The application states: "Needed water is available from Spring on property." We note, however, that according to a letter of March 31, 1953, from Dr. Raymond F. Bacon to Mr. George M. Moll of the former Mining Requirements Division, Defense Materials Procurement Agency: "It is very difficult to do anything without a road as there is no water and the deposit is at an elevation of 9,000 feet." Dr. Bacon's letter of April 9, 1953, to the same division states further that: ". . . there is no water and everything including water has to be carried in . . ."

The above-mentioned letters and a related letter of March 25, 1953, from Mr. Bacon, all of which discuss the property in rather general terms but do not give the specific sort of information that we require, are now filed here in Washington, D. C., under the Docket No. AR-813 in the Materials Division, Emergency Procurement Service, General Services Administration.

The same AR-213 file starts with a copy of a letter of July 9, 1952, to the Director, Reno Branch, U. S. Bureau of Mines, Reno, Nevada, to which Mr. A. C. Johnson replied on July 21, 1952. The file includes an access road application of August 11, 1952, on the basis of which Mr. Stanley M. Walker, Chief, Facilities Section, Mining Requirements Division, DMPA, recommended to The Bureau of Public Roads, under date of September 3, 1952, an investigation to determine the merits of the road application. Mr. Walker's letter, a copy of which was sent to Dr. Bacon, includes the statement: "This property has been investigated by the Bureau of Mines and is considered to be an exceptionally good property capable of producing a very high grade of tungsten ore." We have been unable to verify this statement through the Bureau of Mines' Commodity Specialist here. Perhaps the property was examined under another name.

The access road file also includes an access road inspection report, with accompanying photographs and maps, dated October 16, 1952, by George B. Criteser, Highway Engineer, which report was recommended for approval by both the District Engineer and the Division Engineer of the Bureau of Public Roads, Department of Commerce. A letter of December 9, 1952, from Mr. W. J. O'Leary, Acting Commissioner of Public Roads, forwarded the report and a program request to Mr. Howard I. Young, DMPA, for advice as to its importance to the National Defense. Under date of December 23, 1952, Mr. Charles E. Stott certified the road to Mr. Thomas H. MacDonald, Commissioner of Public Roads, as important to the National Defense. The file concludes with a copy of a letter of April 20, 1953, from Mr. George H. Roll, Acting Director, Mining Requirements Division, DMPA, advising Mr. Chauncey Landon, c/o R. F. Bacon & Associates, 500 Fifth Avenue, New York 18, New York, that with reference to the access road for the Big Wash tungsten deposit Mr. Landon should contact Mr. Wm. Howard Smith, District Engineer, Nevada Department of Highways, 202 South Fall Street, Carson City, Nevada.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee

APPROVED:

/s/ C H Johnson
Member, Bureau of Mines

D. M. Barrabee

Member, Geological Survey

WSMartin/ls 5/26/54

cc: DOCKET
FT, REGION 3
OPER. COMM.
CODE 400
ADMIN. READ. FILE
R. W. GEEHAN, USBM
T. P. THAYER, USGS
MATERIALS DIV., EPS, GSA

400

MAY 28 1954

Dr. Raymond F. Bacon
Bacon Associates
500 Fifth Avenue
New York, N. Y.

Re: Docket No. DMEA 3368 - Tungsten
Bacon Associates
Big Wash Claims
White Pine County, Nevada

Dear Doctor Bacon:

The above-docketed application for exploration assistance for tungsten has been reviewed by the Iron and Ferro-Alloys Division of the Defense Minerals Exploration Administration and has been referred to Mr. H. C. Miller, Executive Officer, DMEA Field Team, Region III, 1012 Flood Building, 870 Market Street, San Francisco 2, California, for review and possibly a field examination of the property.

Mr. Miller has been asked to obtain from you information about the water supply and other necessary details. Any assistance that you can render the members of the Field Team will be appreciated.

We understand from Mr. William D. Donnelly, who brought your application to us on May 24, 1954, that upon advice from you Mr. C. X. Bacon, who lives in Idaho, will meet our engineers at Garrison, Utah, or Bacon, Nevada, to take them to the mine in the event an inspection is to be made. It will be appreciated if you will give Mr. C. X. Bacon's mailing address to Mr. Miller so that mutually satisfactory arrangements could be made directly without the necessity of communicating through either your office or this office.

Sincerely yours,

C. O. Mittendorf

Administrator

cc: DOCKET
FIELD TEAM, REG. III
CODE 400
ADM. READ. FILE
OPER. COMMITTEE
R. W. GEEHAN, USBM
T. P. THAYER, USGS
MATERIALS DIV., EPS, GSA

WSMartin/ls
5/26/54

Rec'd by G. S. 6/9

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

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. 3368
Metal or Mineral Tungsten
Date Received
Estimated Cost $20,000
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: BACON ASSOCIATES - a limited partnership existing under the laws of the State of Nevada with principal office at Baker, Nevada. Mailing address for correspondence re this application - Bacon Associates, c/o Dr. R.F. Bacon, 500 Fifth Avenue, New York, N.Y. (For partners names and addresses see - attached Memo I.)

(*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 Property comprises five (5) claims located in White Pine County, Nevada - for details see attached Memo II.

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

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise Purchaser under contract - for details see Memo III and photostate of Osborne contract - Bacon Associates partnership agreement attached thereto.

(*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. See Memo III and attachments mentioned in 3-C above.

(*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. See Memos II and III.

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. See Memo IV.

(*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 Tungsten
For other information requested in Section 5 see Memo V.

(*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)? Yes

(*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.

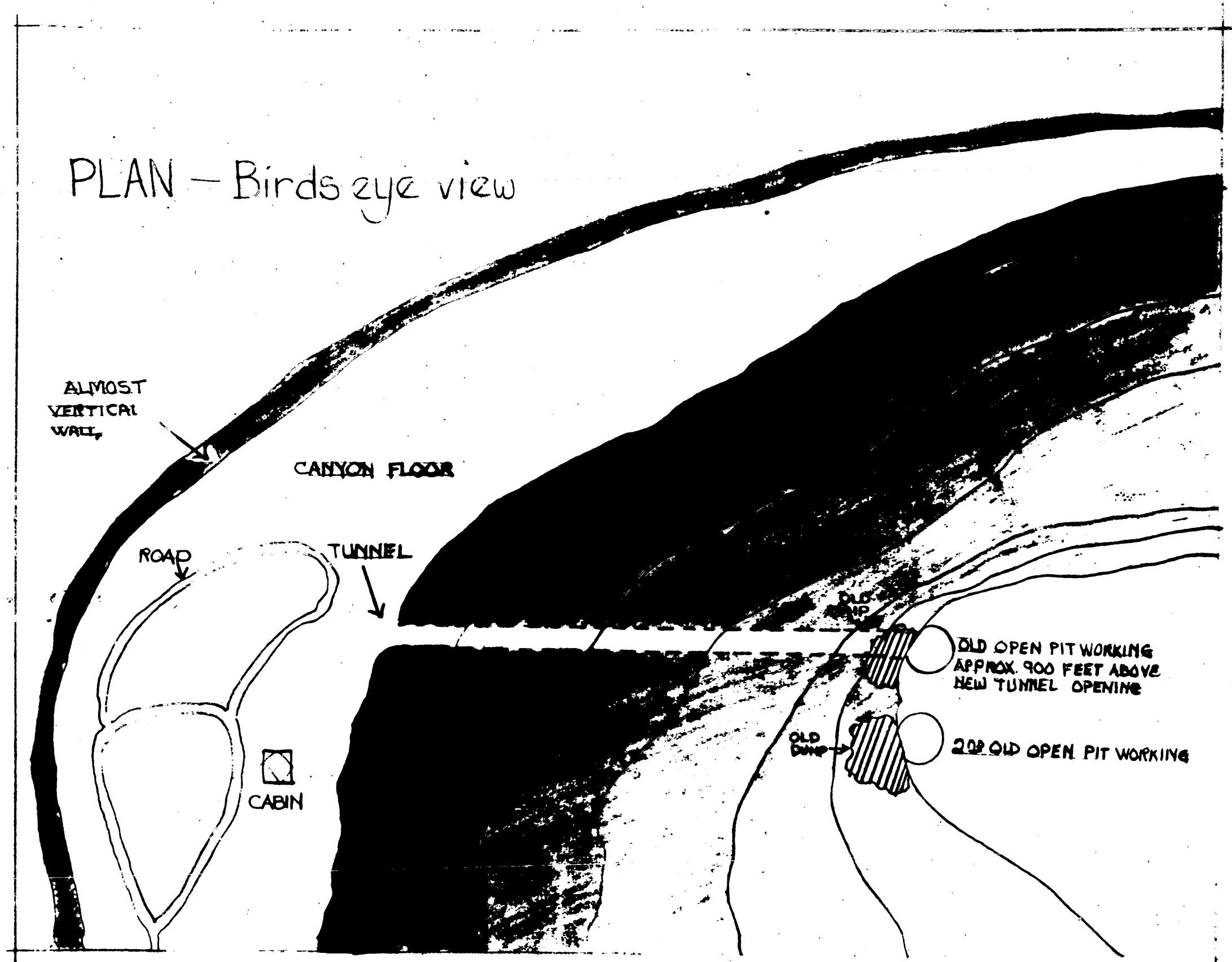
Dated May 20th, 1954

BACON ASSOCIATES
(Applicant)

By Raymond F. Bacon
Raymond F. Bacon

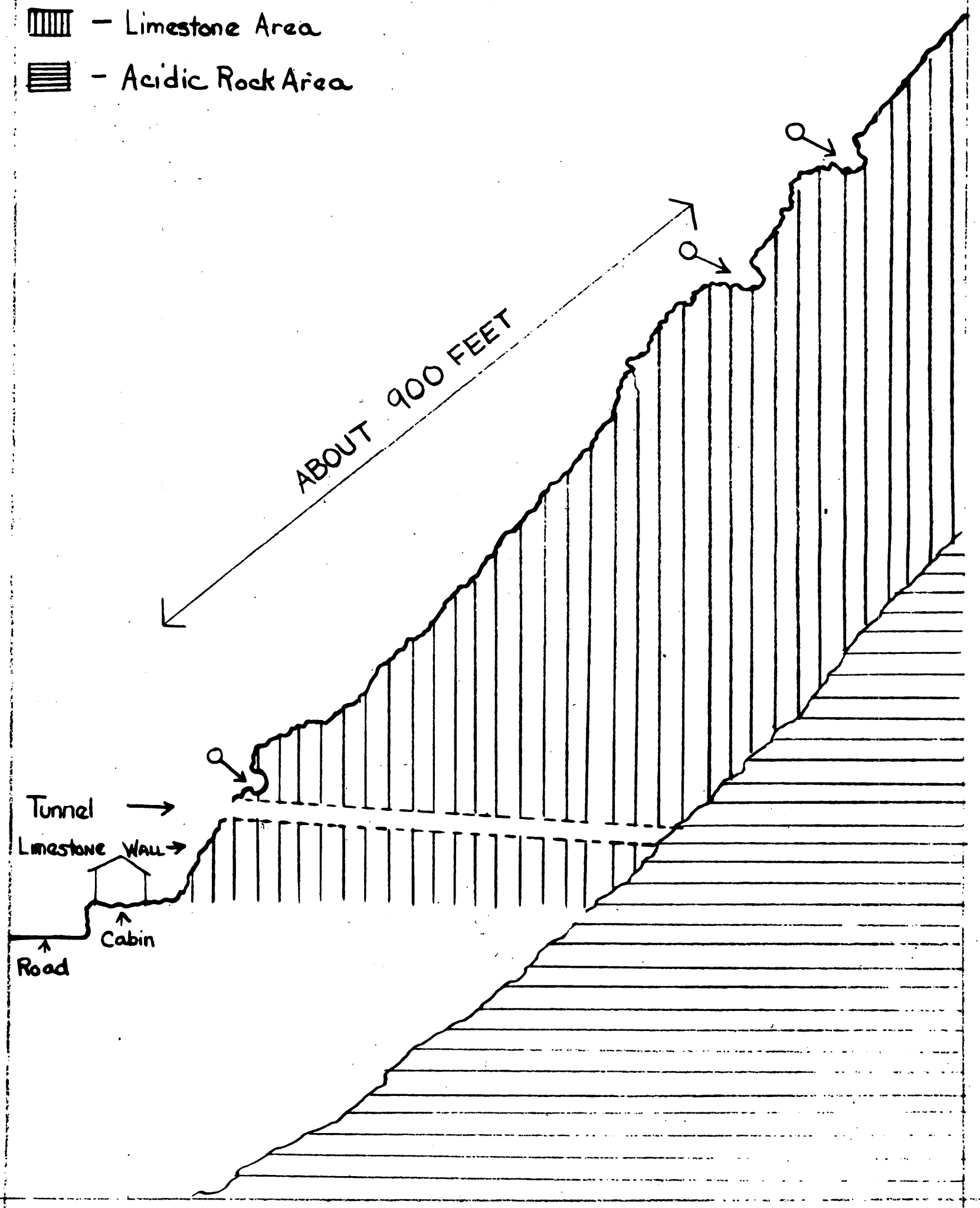
Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

U. S. GOVERNMENT PRINTING OFFICE 16—66551-1

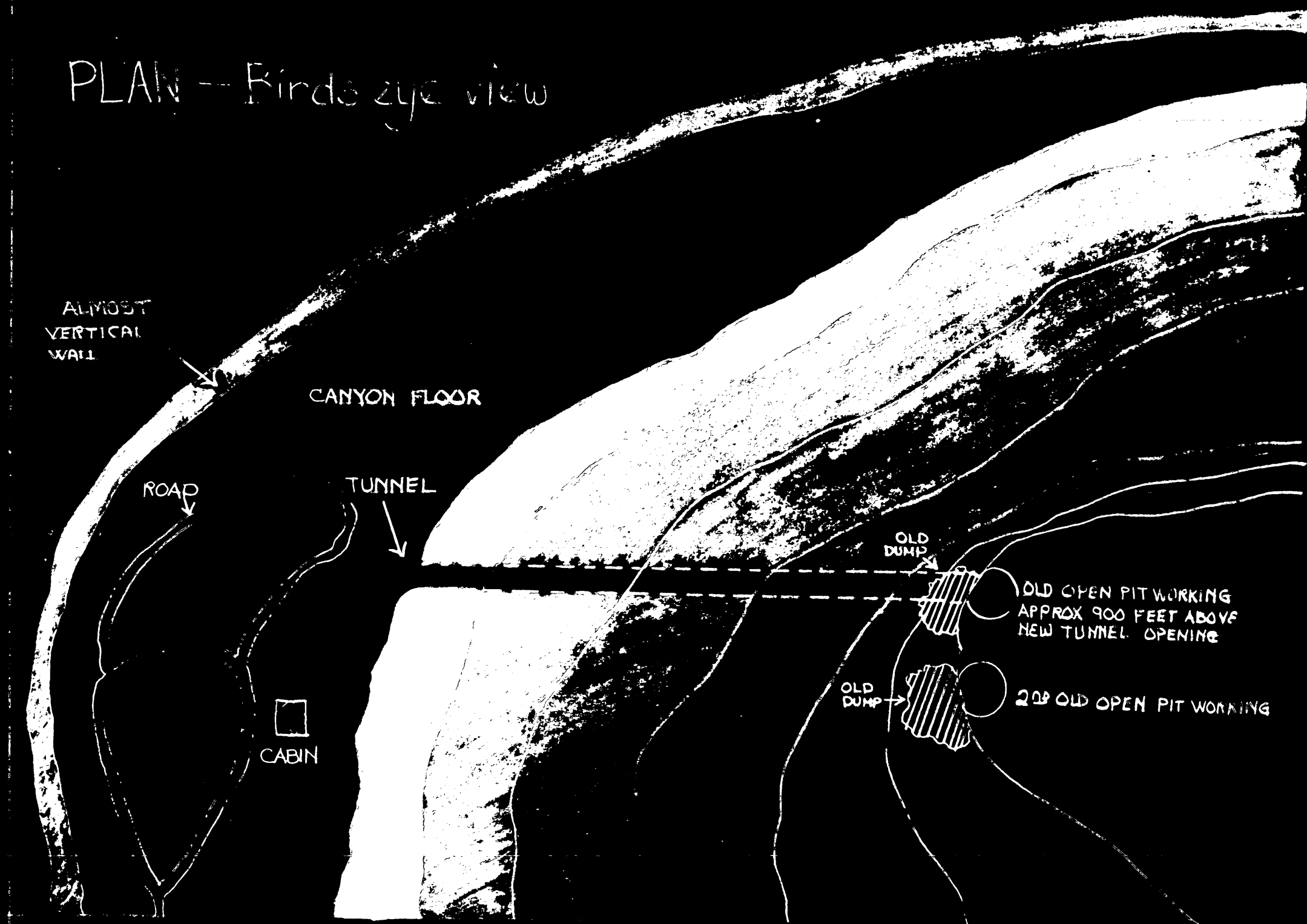

PLAN – Birds eye view
ALMOST VERTICAL WALL
CANYON FLOOR
ROAD
TUNNEL
CABIN
OLD DUMP
OLD OPEN PIT WORKING APPROX. 900 FEET ABOVE NEW TUNNEL OPENING
OLD DUMP
2nd OLD OPEN PIT WORKING

DMEA
3368

ELEVATION



DMEA
3368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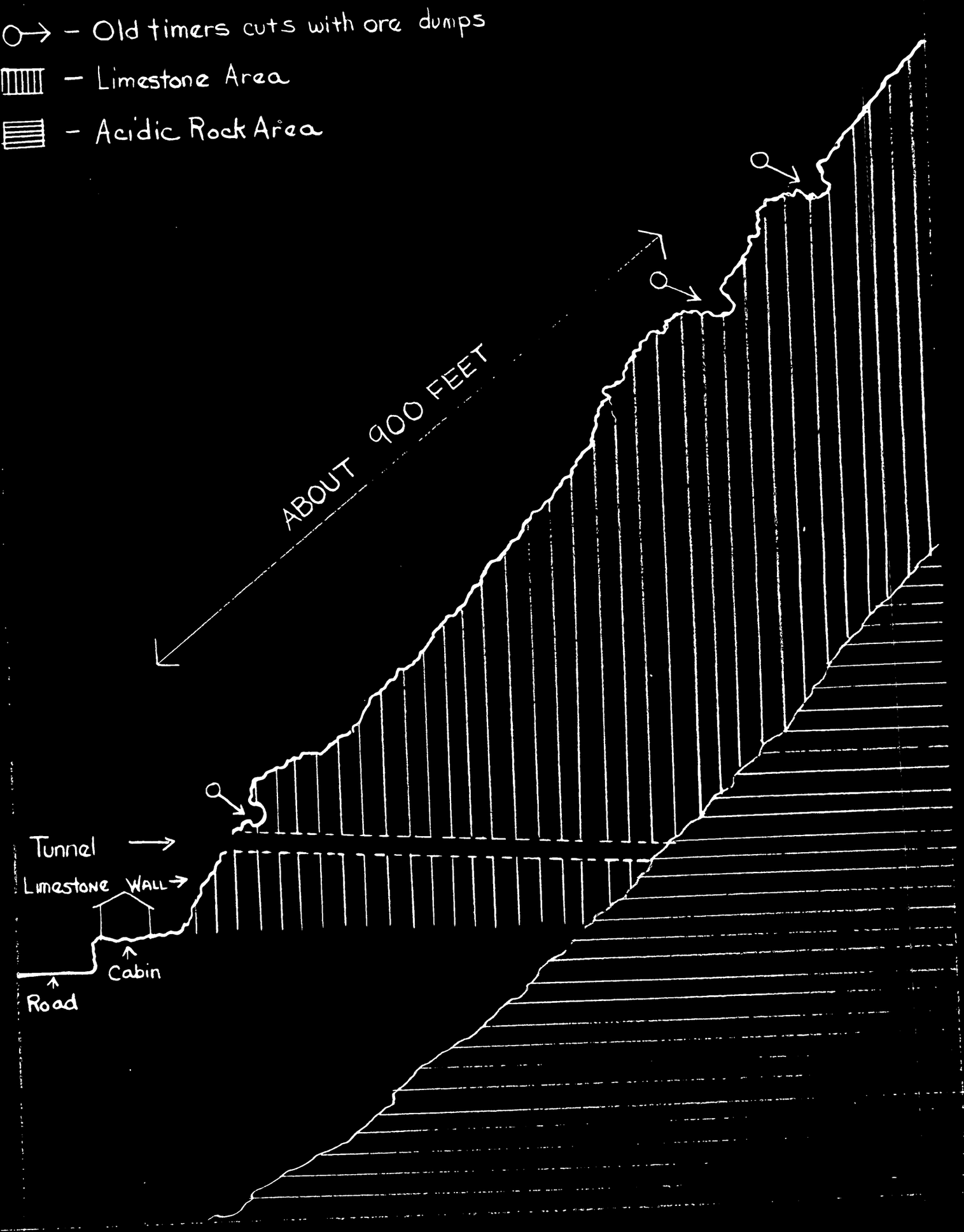
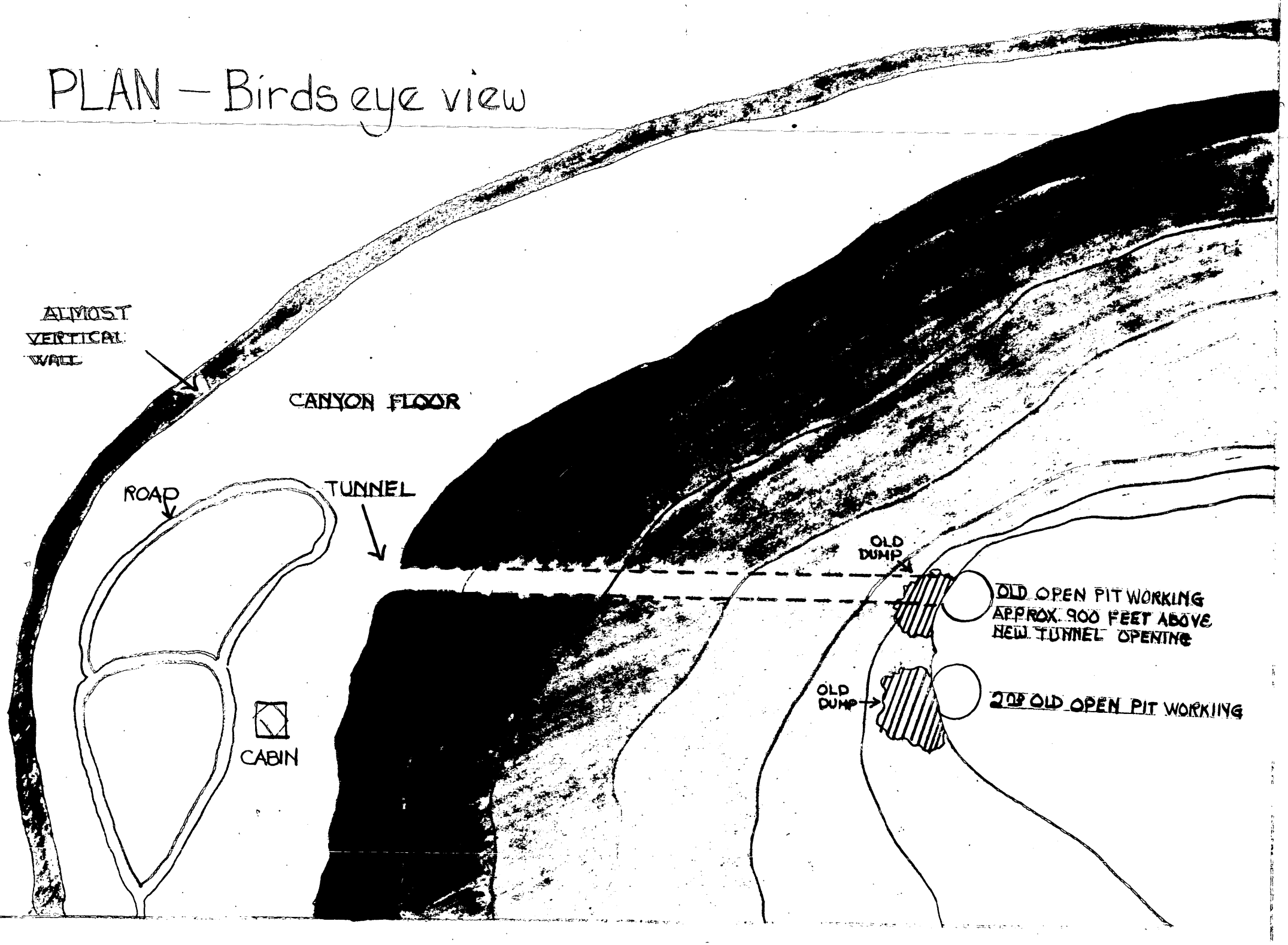


GMEA
3368

PLAN – Birds eye view



DMEa
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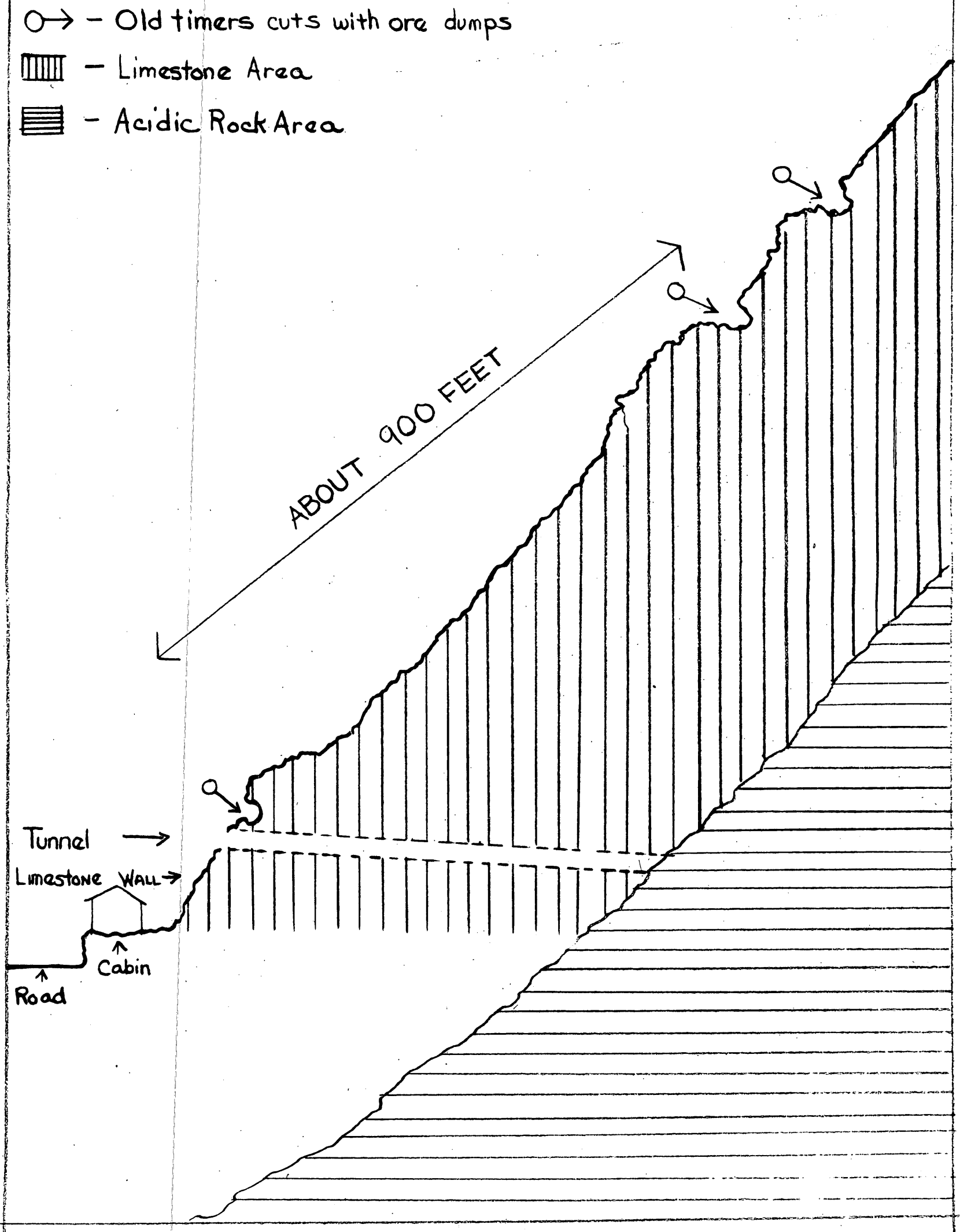

DMEA
3368.

400

JUN 14 1954

402

Dr. Raymond F. Bacon
500 Fifth Avenue
New York, N. Y.

Re: Docket No. DMEA 3368 - Tungsten
Bacon Associates
Big Wash Claims
White Pine County, Nevada

Dear Doctor Bacon:

This will acknowledge receipt of your letter of June 8, 1954, with enclosed information concerning the subject property. We thank you for this information.

Sincerely yours,

W. S. Martin, Chief
Iron and Ferro-Alloys Division

WSMartin/ls

6/9/54

cc: DOCKET
ADM. READ. FILE
CODE 400
FIELD TEAM, REG. III
R. W. GEEHAN, USBM
T. P. THAYER, USGS

400

JUN 14 1954

AIR MAIL

Mr. H. C. Miller, Executive Officer
DMEA Field Team, Region III
420 Custom House
555 Battery Street
San Francisco 11, California

Re: Docket No. DMEA 3368 - Tungsten
Bacon Associates
Big Wash Claims
White Pine County, Nevada

Dear Mr. Miller:

Transmitted herewith are copies of a letter of June 8, 1954, from Dr. Raymond F. Bacon, submitting additional data and maps pertaining to the referenced property.

Also enclosed for your information are two copies of a memorandum of June 4, 1954, by Mr. T. P. Thayer, U. S. Geological Survey.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Enclosures

APPROVED:

J. H. Hedges

Member, Bureau of Mines

D. M. Larrabee

Member, Geological Survey

cc: Docket
Code 400
FT, Reg. 3
Oper. Comm.
Adm. Read. File
R. W. Geehan, USBM
T. P. THAYER, USGS

LS 6/9/54

C O P Y

RAYMOND F. BACON
Chemical Engineer
500 Fifth Avenue
New York

June 8, 1954

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

Re: Docket No. DMEA 3368 - Tungsten
Bacon Associates
Big Wash Claims
White Pine County, Nevada

Dear Mr. Mittendorf:

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1. If a mineral report was made on this property in connection with an access road it was probably prepared by the Ogden office of the Bureau of Mines. I have not seen this report but from the fact that they recommended the building of the road I presume it has been favorable.

2. The access road which the government built is described as "a low class road". Soon after it was built there was an unusual flood which damaged the surface in several places, and we then dragged the road and put it back in shape.

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which breaks it down and the drilling is several times as fast as in basaltic, quartz, or other hard rocks. We had a price of $16.00 per linear foot and about 50 feet were drilled under this contract before the snow forced the contractor to quit. Two other contractors came in and looked at the work last fall and said they would be willing to contract for less than $20.00 per linear foot. We will try to get a firm contract subject to our obtaining the government loan, but we believe our $20. price was not too low. The work on this tunnel will have to be done during the summer season and until the proposition becomes much more established it would be foolish to try to work during the snow season.

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If there is any further information you would like to have we shall, of course, be very glad to furnish it.

Sincerely yours,

Signed: RAYMOND F. BACON

Raymond F. Bacon

cc: Messrs.:
A. C. Johnson
H. C. Miller
C. X. Bacon

400

DOCKET
SURNAME

Hopkins
Martin
Gehan
Trace
Guild
Hedges
JEJohnson

AUG 12 195

Bacon Associates
% Dr. R. F. Bacon
500 Fifth Avenue
New York, N. Y.

Re: Docket No. DMEA 3368 - Tungsten
Big Wash Tungsten Claims
White Pine County, Nevada

Dear Doctor Bacon:

Your application for aid for an exploration project and other data available to us in Washington relating to the 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 small amounts of tungsten mineralization on your property, indicates to us that the probability of disclosing minable ore reserves by your proposed program is not sufficiently promising to justify Government participation. We regret to advise, under the circumstances, that your application for exploration assistance is denied.

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

Sincerely yours,

C. O. Mittenderf

Administrator

JHOPKINS:foc
8-11-54
cc to: Docket
Code 400
Adm. Reading File
Operating Comm.
Ft. Reg. III
R. W. Geehan, USBM
E. L. Newcomb, USGS

DOCKET
SURNAME

Hopkins
Martin
Stetson
Trace

August 11, 1954

MEMORANDUM

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division

Subject: Denial of an application for exploration assistance in the amount of $20,000.00
Docket No. DMEA 3368 - Tungsten
Bacon Associates
Big Wash Claims
White Pine County, Nevada

Our denial of the subject application is based on the following information:

The area comprising the Big Wash Tungsten group of claims is underlain by sedimentary rocks that are mostly thin bedded, fine to medium grained, dark gray to bleached, sometimes recrystallized and marbleized limestone.

A small granitic stock is exposed one mile northwest of the mine area and a 20-foot thick, nearly vertical aplite dike has been intruded about 500 yards north of the open pit on Big Wash Tungsten No. 2 claim.

The scheelite occurs mainly as fairly large (1/4 inch to 1 inch) crystals scattered along fractures in the limestone. Not all fractures contain scheelite and the scheelite does not appear to favor any particular bed in the limestone or any set of fractures.

Occasionally sporadic disseminations of finer grained scheelite occur in the limestone unassociated with either fractures or quartz.

The workings on the property consist of numerous small holes, an adit 100 feet long, and one large open cut 130 feet long, 5 to 15 feet in width and 3 to 10 feet in depth from which it is reported, but not confirmed, that production during the period 1916-17 was 500 tons of slightly less than 1.0% WO_3.

Samples were taken in areas in which scheelite mineralization was observed and from which the former miners had apparently

removed the major part of the ore. Examination showed that only a thin surface of scheelite remained on the limited exposures of quartz and that the pentration into the limestone was practically nil.

The corresponding analyses showed a wide range of values and served only to indicate the grade of ore mined and sorted during the 1917-18 operation. There are no indicated or inferred ore reserves.

The examining engineer and geologists conclude that the scheelite bearing fractures are too widely spaced to permit a small high grade operation and that the intervening material is too low grade to provide for a large scale low grade operation.

They, therefore, recommend that the application be denied.

The Commodity Divisions of the Geological Survey and Bureau of Mines concur in the denial.

W. S. Martin, Chief
Iron and Ferro-Alloys Division

JHOPKINS:foc
8-11-54
cc to: Docket
Code 400
Adm. Reading File
Operating Comm.

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

August 11, 1954

MEMORANDUM

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division

Subject: Denial of an application for exploration assistance in the amount of $20,000.00
Docket No. DMEA 3368 - Tungsten
Bacon Associates
Big Wash Claims
White Pine County, Nevada

Our denial of the subject application is based on the following information:

The area comprising the Big Wash Tungsten group of claims is underlain by sedimentary rocks that are mostly thin bedded, fine to medium grained, dark gray to bleached, sometimes recrystallized and marbleized limestone.

A small granitic stock is exposed one mile northwest of the mine area and a 20-foot thick, nearly vertical aplite dike has been intruded about 500 yards north of the open pit on Big Wash Tungsten No. 2 claim.

The scheelite occurs mainly as fairly large (1/4 inch to 1 inch) crystals scattered along fractures in the limestone. Not all fractures contain scheelite and the scheelite does not appear to favor any particular bed in the limestone or any set of fractures.

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Samples were taken in areas in which scheelite mineralization was observed and from which the former miners had apparently

removed the major part of the ore. Examination showed that only a thin surface of scheelite remained on the limited exposures of quartz and that the pentration into the limestone was practically nil.

The corresponding analyses showed a wide range of values and served only to indicate the grade of ore mined and sorted during the 1917-18 operation. There are no indicated or inferred ore reserves.

The examining engineer and geologists conclude that the scheelite bearing fractures are too widely spaced to permit a small high grade operation and that the intervening material is too low grade to provide for a large scale low grade operation.

They, therefore, recommend that the application be denied.

The Commodity Divisions of the Geological Survey and Bureau of Mines concur in the denial.

W S Martin

W. S. Martin, Chief
Iron and Ferro-Alloys Division

Dis-Ker

IN REPLY REFER TO:

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

August 6, 1954

Re: Bacon Associates
Big Wash Claims
White Pine Co., Nev.
$20,000 - Tungsten
DMEA-3368

Memorandum

To: W. S. Martin
Defense Minerals Exploration Administration

From: E. L. Newcomb
U. S. Geological Survey

Subject: Concurrence with Field Team recommendation for denial

The applicant requests assistance to drift 800 feet, and raise 100 feet beneath a large open cut in order to test for a granite-limestone contact (?).

The Field Team has recommended the proposal be denied.

Scheelite mineralization on the Big Wash Claims is associated with narrow quartz lined fractures which are not persistent along the strike or dip. Very sparse amounts of scheelite are disseminated between the fractures. Present evidence on the property does not indicate that a mineralized limestone-granite contact will be cut by the proposed work.

The nature of the tungsten occurrences in small fractures and sporadic disseminated bodies indicates a significant discovery is unlikely to be made by the proposed project.

I concur with the Field Team and recommend this application be denied.

E. L. Newcomb

E. L. Newcomb

IN REPLY REFER TO:

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

August 6, 1954

Re: Bacon Associates
Big Wash Claims
White Pine Co., Nev.
$20,000 - Tungsten
DMEA-3368

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The nature of the tungsten occurrences in small fractures and sporadic disseminated bodies indicates a significant discovery is unlikely to be made by the proposed project.

I concur with the Field Team and recommend this application be denied.

E. L. Newcomb

ELNewcomb:hlm
G-8/6/54

Copy to: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
R. W. Geehan, 3513

IN REPLY REFER TO:

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

August 6, 1954

Re: Bacon Associates
Big Wash Claims
White Pine Co., Nev.
$20,000 - Tungsten
DMEA-3368

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Defense Minerals Exploration Administration

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The nature of the tungsten occurrences in small fractures and sporadic disseminated bodies indicates a significant discovery is unlikely to be made by the proposed project.

I concur with the Field Team and recommend this application be denied.

E. L. Newcomb

ELNewcomb:hlm
G-8/6/54

Copy to: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
R. W. Geehan, 3513

Docket

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

JUL 2 - 1954

420 Custom House
555 Battery Street
San Francisco 11, Calif.

July 27, 1954

WSM

Memorandum

To: George C. Selfridge, Chairman, Operating Committee, DMEA
Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket No. DMEA-3368 - Tungsten
Bacon Associates
Big Wash Claims
White Pine County, Nevada

Reference is made to your letter dated May 28, 1954, requesting a review and field examination of the subject property.

The property was examined on June 16 and 17, 1954, by two geologists of the Geological Survey and an engineer of the Bureau of Mines. Four copies of their report entitled "DMEA-3368, Big Wash Tungsten Mine, White Pine County, Nevada," by R. W. Osterstock, and C. G. Tillman, Geologists, U. S. Geological Survey, and Glenn G. Gentry, Mining Engineer, U. S. Bureau of Mines, dated July 23, 1954, are attached.

According to their report, the coarsely crystalline scheelite in the mine area is largely confined to thin quartz coated fractures which do not show persistence in strike or dip. The disseminated finer grained scheelite concentrations in the limestone between the fractures are too sporadic to be of economic importance.

The engineer and geologists are in agreement that a DMEA loan is not warranted for the exploration of this property.

Mr. Roscoe Smith and I concur with the recommendations of the geologists and Mining Engineer.

H. C. Miller
Executive Officer
DMEA Field Team, Region III

Attachment

Copy to: Roscoe Smith, USGS
A. C. Johnson, Reno

Reviewed by
DMEA OPERATING COMMITTEE
8-6-54
(date)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 2 - 1954

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA-3368, Big Wash Tungsten Mine

White Pine County, Nevada

R. W. Osterstock, Geologist
C. G. Tillman, Geologist
U. S. Geological Survey

Glenn G. Gentry, Mining Engineer
U. S. Bureau of Mines

July 23, 1954

Reviewed by
DMEA OPERATING COMMITTEE
8-6-54
(date)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 2 - 1954

REPORT OF EXAMINATION

Docket No.: DMEA-3368 (Tungsten)

Name and address of operator: Bacon Associates
Raymond F. Bacon
500 Fifth Ave.
New York City, N. Y.

Name and location of property: Big Wash Tungsten Mine
White Pine County, Nevada
(via Garrison, Utah)

SUMMARY

Pursuant to an application from Mr. Raymond F. Bacon, dated May 20, 1954, requesting financial assistance in the amount of $20,000.00, the Big Wash tungsten mine was examined; sampled, and mapped by two geologists of the U. S. Geological Survey and an engineer of the U. S. Bureau of Mines.

The examination was conducted on June 16 and 17, 1954, and during a part of these dates, the examining team were accompanied by C. X. Bacon, representing Mr. Raymond F. Bacon and Mr. John Osborne, owner of the mining claims.

Mr. C. X. Bacon has proposed the extension of the lower adit (marked "F" on the geological map) in a northwesterly direction for a distance of 600 feet. From this adit he proposes to drift east and west on favorable scheelite occurrences a distance of 200 feet and to raise a distance of 100 feet on the most favorable scheelite occurrence. The

overall cost of an exploration project of this magnitude and in this location, would probably amount to $32,000.00.

As a result of the examination, it was determined by the examining engineer and geologists that assistance for further exploration aid with a DMEA loan is not warranted.

INTRODUCTION

Bacon Associates, lessees of the Big Wash Tungsten claims in White Pine County, Nevada, applied for a DMEA loan to explore for tungsten ores. Examination of the property was made during June, 1954 by members of the U. S. Geological Survey and the U. S. Bureau of Mines. Mr. C. X. Bacon, one of the lessees, accompanied the examiners in the field.

DESCRIPTION OF PROPERTY

Only one important occurrence of scheelite has been discovered and mined on the property. This work was done about 1916 and 1917. During this period the miners explored a surface exposure of white quartz for a length of approximately 130 feet. An open pit averaging 5 to 15 feet in width and approximately 3 to 10 feet in depth was dug.

Scheelite mineralization occurred associated with the quartz and as large spuds. A close examination of the walls of this open pit showed only very light and scattered distribution of scheelite beyond thin faces of the quartz. Small crystals of scheelite were occasionally found in narrow quartz stringers cutting the limestone in both east-west and

north-south directions. These quartz stringers occur at irregular intervals, and the quartz stringers observed in the present adit and other small surface cuts contained little or no scheelite mineralization. There is some high grade scheelite ore remaining in the quartz on the dump. However, the scheelite is very spotty and lamping indicated a grade of about 0.2% WO_3 if the entire dump were crushed and sampled.

The floor of the open cut could not be examined in detail as it is almost entirely covered with loose lime and quartz boulders of various sizes. Where the floor of the pit could be examined, only a few stringers of non-mineralized quartz were observed.

It is evident that this quartz "blowout" produced a moderate tonnage of scheelite ore, which was probably hand sorted. No documentary evidence is known to exist which substantiates Mr. C. X. Bacon's report of production in 1916-1917 of about $50,000.00 worth of tungsten ore.

The examination and sampling was conducted principally in the area specified by C. X. Bacon as the area in which he and the applicant desired to explore and within which they considered the best occurrences of scheelite mineralization would be found.

Surface facilities:- The one small cabin, adjacent to the adit, is not habitable.

Other facilities:- None

Mine workings:- The applicant has proposed to extend the present adit which has been driven a distance of 39 feet. There are no underground facilities.

MANPOWER, SUPPLIES, ETC.

The nearest source of labor and supplies would be Ely, Nev., a distance of 86.4 miles from the mine.

There is no transmitted electric power in this area, therefore, all necessary mining machinery would be actuated by Diesel or gasoline motors.

Water is available from a spring located about two miles east of the adit and would have to be hauled from this source for both mining and domestic purposes.

NAME AND LOCATION OF PROPERTY

The Big Wash Tungsten claims, Nos. 1, 2, 3, 4, and 5 were located on or about April 25, 1951 by John Osborne, whose mailing address is Garrison, Utah, and are reported to be recorded in the Office of the County Recorder of White Pine County at Ely, Nev. It is evident that the claims are relocations. The claims are located in unsurveyed section 18, T. 12 N., R. 69 E. (fig. 1), on the east slope of the Snake Range, White Pine County, Nev.

The portal of the adit where Mr. C. X. Bacon proposes to conduct the exploration work, is 16.3 miles west of Garrison, Utah. The road is unimproved desert road and for the most part is located along the floor of a steep canyon and is subject to floods during heavy rains and in the spring from melting snows.

During the year of 1953, Mr. C. X. Bacon reports that one of

the Government agencies repaired three miles of the canyon road and constructed 2.5 miles of new road.

The claims are within the boundaries of the Nevada National Forest.

APPLICANTS PROPERTY RIGHTS

Under date of April 29, 1953, the owner of the claims, Mr. John E. Osborne, signed a "Contract of Sale" conveying the Big Wash Tungsten claims, No's. 1, 2, 3, 4, and 5, to Mr. Raymond F. Bacon for a total purchase price of $30,000.00. The terms and conditions itemized in the sales contract, are as follows:

> $500.00 to be paid upon the signing of the contract.
>
> Royalty @ 10% on all ores sold from the claims during the life of the contract, with a minimum yearly royalty of $1,500.00.
>
> The contract to remain in force and effect so long as royalty payments are made by the buyer and shall terminate whenever buyers fail to pay the royalties or when the total of royalties paid to the seller shall equal the total purchase price of the property.

Under an unspecified date in July of 1953, Mr. Raymond F. Bacon formed a limited partnership, for the purpose of conducting a general mining business, with:

> C. X. Bacon of Placerville, Idaho
> Chauncey L. Landon of 535 Fifth Ave., New York City
> Gardner F. Landon of Pelham, N. Y.
> Betty W. Landon of Bronxville, N. Y.
> Jane L. Fairchild of Bronxville, N. Y.

In this limited partnership, the above partners have been assigned the following interest:

C. X. Bacon	35%
R. F. Bacon	35%
C. L. Landon	7.5%
G. F. Landon	7.5%
B. W. Landon	7.5%
J. L. Fairchild	7.5%

The capital of the partnership shall consist of all of the right, title, and interest of R. F. Bacon and C. X. Bacon, as buyers, in and to a certain agreement with John E. Osborne, of Garrison, Utah, as seller, of certain mining claims located in White Pine County, Nev., and known as "Big Wash Tungsten" numbers 1 to 5 inclusive.

Mr. C. X. Bacon informed the examining engineers that all assessment work has been done and that no debts had accrued against the property.

GEOLOGY

The five claims comprising the Big Wash Tungsten group are situated on the south slope of a long ridge extending easterly from Mt. Washington in the Snake Range. In the mine area, the sediments strike easterly with 20-40 degree dips to the south.

The sedimentary rocks exposed in the mine area are mostly thin- to medium-bedded, fine- to medium-grained, dark gray to bleached sometimes recrystallized and marbleized limestone. The sediments are tentatively assigned to the Middle Cambrian Highland Peak formation

(undifferentiated).

There is a small granitic stock exposed about one mile northwest of the mine area and a 20-foot thick east-striking near vertical aplite dike has been intruded about 500 yards north of the open pit on Big Wash Tungsten No. 2 claim.

The present owners of the claims postulate the existence of a hidden granitic mass beneath the mine area. This postulation is apparently based on the recrystallization and bleaching in the limestone. It is more likely that the recrystallization and bleaching may be ascribed to hydrothermal action such as that which deposited the scheelite. High intensity conditions such as those commonly associated with contact phenomena are generally lacking.

Nearer the mouth of the canyon several miles to the east of the mine area, a thrust fault is exposed; it is not known what relation this fault may have to the stratigraphic sequence exposed in the mine area.

ORE DEPOSITS

The scheelite occurs mainly as fairly large (1/4 inch to 1 inch) crystals scattered along fractures in the bleached, sometimes recrystallized and marbleized limestone. The fractures are also generally coated with terminated quartz crystals. The scheelite does not appear to be restricted to any particular set of fractures nor does there appear to be locallization within a particular bed. It may be further noted that not all of the quartz bearing fractures contain scheelite.

The fractures noted in the workings are very thin with no evidence of movement; it appears likely that many of them were open during the period of mineralization as both the scheelite and the quartz exhibit well developed crystal faces. Occasionally sporadic disseminations of finer grained scheelite occur in the limestone unassociated with either fracturing or quartz.

Ultra violet lamping of the various pits and adits on the property discloses that most of the scheelite is associated with quartz on thin diversely striking fractures with only a few small sporadic disseminations in the country rock.

The fractures carrying scheelite are, at the surface, too thin and too widely spaced to provide for an economic high grade mining operation, and the intervening rock carries too little disseminated scheelite to provide for large scale low-grade mining operation.

A few small grains of galena and specularite were noted in the bleached limestone at the portal of the lower adit (diagram F, fig. 2). Minor copper staining is also noted in several of the workings.

Between the upper and lower workings there is almost continual limestone outcrop which contains only a few scattered occurrences of scheelite.

ORE RESERVES

The applicants report a production from the property of about 500 tons of slightly less than 1.0% WO_3 during the period 1916-17.

There has been no recorded production since that time.

Due to the erratic nature of the scheelite occurrence both on fractures and as disseminations, it is not possible to accurately estimate reserves or grade at this property. The mining operations conducted thus far indicate that the property is of a spotty high-grade type thus necessitating mining practice of a highly selective nature.

PROPOSED EXPLORATION

The applicants have proposed driving a tunnel on the lower adit level to a point beneath the large open cut on the Big Wash Tungsten No. 2 claim. According to a rough sketch submitted by the applicants, they are postulating the existence of a hidden granitic mass beneath the slopes on which the claims lie. It is the granite-sediment contact directly beneath the large open pit at which the tunnel is aimed. Such conditions, if they exist, would involve 500feet to 700 feet of tunnel work with a proportionate amount of crosscutting and drifting.

Although a granitic body does outcrop about one mile northwest of the claims, there is no evidence to indicate that its deeper portions may extend to the mine area. No noteworthy scheelite mineralization has been found at the granite-limestone contact where exposed, therefore, there is no reason to believe the same contact will carry ore-grade mineralization at depth. Bleaching marbleization and recrystallization of the limestone as noted on the property may be ascribed to the same hydrothermal action which produced the quartz-scheelite deposits. Thus,

there is only very inconclusive evidence of contact phenomena in the mine area and consequently the existence of a granitic body within a reasonable depth cannot be stated with any degree of certainty.

A downward projection of the scheelite mineralization noted in the large open cut on Big Wash Tungsten No. 2 claim does not appear warranted as the fractures in which the greater part of the scheelite occurs are persistent neither in strike nor dip.

SAMPLING

The present adit and the few small open cuts on the property showed no mineralization, therefore, no samples of the barren limestone were taken.

The limestone surface exposure between the portal of the adit and the 1917-18 workings was largely covered with slide rock. Small quartz stringers observed, where the limestone could be examined, showed very limited and spotty mineralization.

In the open pit near the top of the hill and about 500 feet northwest of the adit, nearly all of the scheelite mineralized quartz has been removed during the 1917-18 operation and for the most part, the limestone walls do not contain scheelite. Samples were taken in areas in which scheelite mineralization was observed and in which the former miners had apparently considered the major part of the ore had been removed. Examination showed that only a thin surface of scheelite remained on the limited exposures of quartz, and that the penetration

into the limestone was practically nil. Therefore, the sampling will only serve as an indication of the grade of ore mined and sorted during the 1917-18 operation.

Sample No.	%, WO_3	Description
BM-1304	0.56	Chip sample from quartz boulders on south side of open cut at top of hill. Approximately 100 tons of quartz boulders in this dump which has been hand sorted several times.
BM-1305	6.75	Width 1.4 feet - north wall of open cut at top of hill. Very small section of quartz enclosed in white limestone.
BM-1306	0.04	Width 2.0 feet - south wall of open cut at top of hill. Thin face of scheelite.
BM-1307	0.09	Grab sample from about 1 ton of washed and screened material resulting from operations conducted during the period 1917-18.
BM-1308	0.08	Grab and chip sample from approximately 50-ton quartz dump. South side of open cut at top of hill. Fines in this dump contain some scheelite.
BM-1309	0.33	Width 2.3 feet - at collar of 12-foot shaft. South edge of open cut at top of hill. Face of the sample cut shows scheelite.
BM-1310	14.34	Chip sample of typical high grade, sorted ore from about 1 ton dump at southwest end of open cut at top of hill. This sample selected by mineralight to show type of high grade ore which had been produced from the quartz "blow out".
BM-1311	0.04	No width (area of 2-by 2-feet) Thin layer of quartz, 1/2-inch thick - frozen on west wall of 12-foot adit and 26 feet west of lower adit. This quartz showed no scheelite under the lamp.

Sample No.	%, WO_3	Description
BM-1312	*0.01	Width 2.7 feet - north wall of open cut at top of hill. Small quartz exposure enclosed by white limestone. No scheelite observed under lamping.
BM-1313	6.17	Width 1.0 feet - very small surface exposure of quartz enclosed by limestone about 400 feet northwest of the lower adit.

* Less than.

All channel samples were very carefully caught on a canvas sample sheet. All areas were carefully examined at night, by use of a mineralight and marked with aluminum paint prior to sampling.

CONCLUSIONS AND RECOMMENDATIONS

The coarsely crystalline scheelite in the mine area is largely confined to thin quartz coated fractures which do not show persistence in strike or dip. Not all of the fractures carry scheelite. The disseminated finer grained scheelite concentrations in the limestone between the fractures are too sporadic to be of economic importance.

There does not appear to be any firm basis for the postulation of a mineralized granitic-limestone contact within a reasonable depth.

There is no well-defined target for exploration.

It is concluded that the scheelite bearing fractures are too widely spaced to permit a small high grade operation and that the intervening material is too low grade to provide for a large scale low grade operation.

It is recommended that the applicant's request for a DMEA loan be denied.

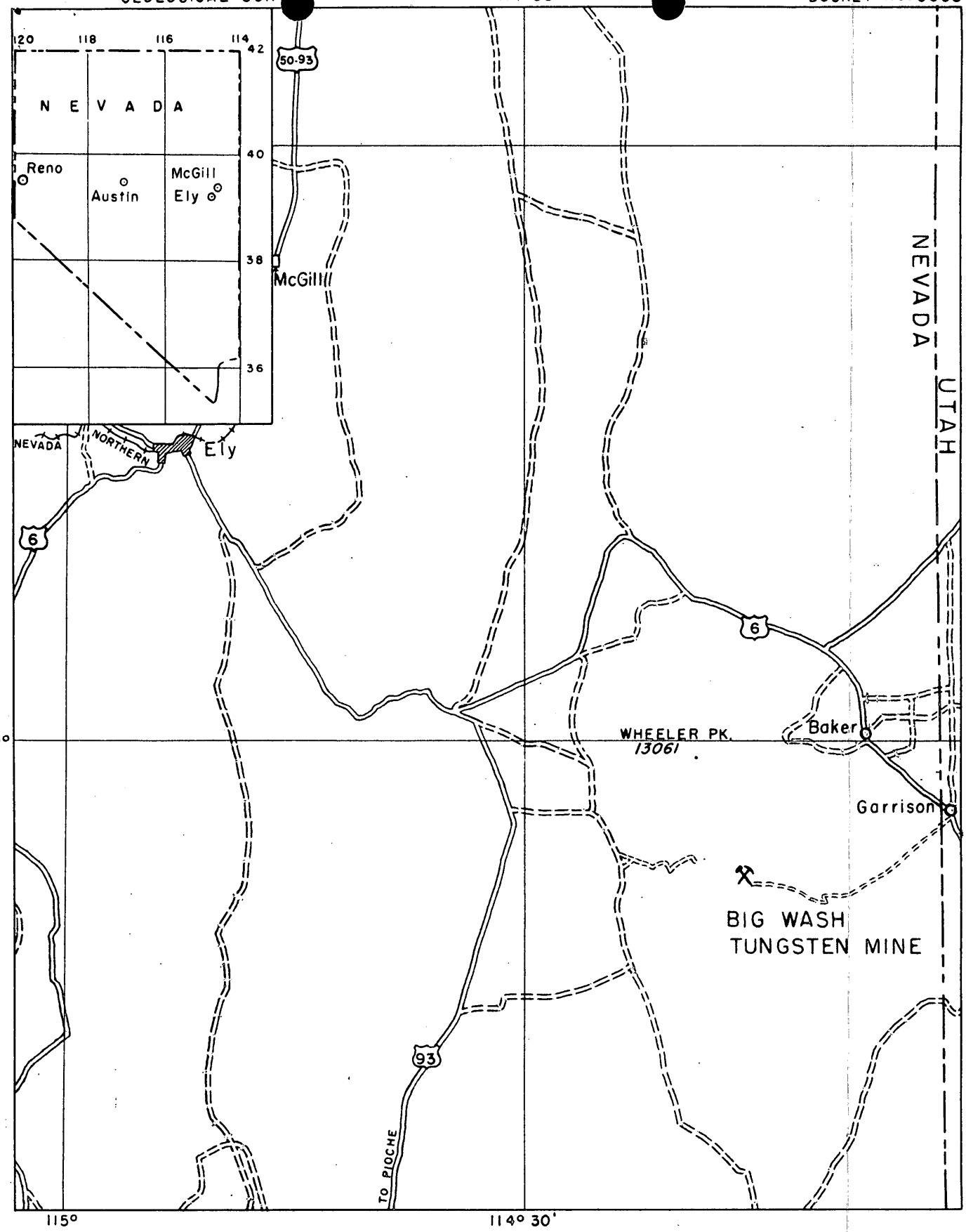


FIG. I

INDEX MAP OF NEVADA

0 5 10 MILES
Scale

400

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

2

420 Custom House
555 Battery Street
San Francisco 11, Calif.

July 27, 1954

Memorandum

WSM

To: George C. Selfridge, Chairman, Operating Committee, DMEA
Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket No. DMEA-3368 - Tungsten
Bacon Associates
Big Wash Claims
White Pine County, Nevada

Reference is made to your letter dated May 28, 1954, requesting a review and field examination of the subject property.

The property was examined on June 16 and 17, 1954, by two geologists of the Geological Survey and an engineer of the Bureau of Mines. Four copies of their report entitled "DMEA-3368, Big Wash Tungsten Mine, White Pine County, Nevada," by R. W. Osterstock, and C. S. Tillman, Geologists, U. S. Geological Survey, and Glenn C. Gentry, Mining Engineer, U. S. Bureau of Mines, dated July 23, 1954, are attached.

According to their report, the coarsely crystalline scheelite in the mine area is largely confined to thin quartz coated fractures which do not show persistence in strike or dip. The disseminated finer grained scheelite concentrations in the limestone between the fractures are too sporadic to be of economic importance.

The engineer and geologists are in agreement that a DMEA loan is not warranted for the exploration of this property.

Mr. Roscoe Smith and I concur with the recommendations of the geologists and Mining Engineer.

Reviewed by
DMEA OPERATING COMMITTEE
8-6-54
(date)

H. G. Miller
Executive Officer
DMEA Field Team, Region III

Attachment

Copy to: Roscoe Smith, DMEA

A. G. Johnson, Reno

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

2

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA-3368, Big Wash Tungsten Mine

White Pine County, Nevada

R. W. Osterstock, Geologist
C. G. Tillman, Geologist
U. S. Geological Survey

Glenn G. Gentry, Mining Engineer
U. S. Bureau of Mines

July 23, 1954

Reviewed by
DMEA OPERATING COMMITTEE
8-6-54
(date)

REPORT OF EXAMINATION

Docket No.: DMEA-3368 (Tungsten)

Name and address of operator: Bacon Associates
Raymond F. Bacon
500 Fifth Ave.
New York City, N. Y.

Name and location of property: Big Wash Tungsten Mine
White Pine County, Nevada
(via Garrison, Utah)

SUMMARY

Pursuant to an application from Mr. Raymond F. Bacon, dated May 20, 1954, requesting financial assistance in the amount of $20,000.00, the Big Wash tungsten mine was examined, sampled, and mapped by two geologists of the U. S. Geological Survey and an engineer of the U. S. Bureau of Mines.

The examination was conducted on June 16 and 17, 1954, and during a part of these dates, the examining team were accompanied by C. X. Bacon, representing Mr. Raymond F. Bacon and Mr. John Osborne, owner of the mining claims.

Mr. C. X. Bacon has proposed the extension of the lower adit (marked "F" on the geological map) in a northwesterly direction for a distance of 600 feet. From this adit he proposes to drift east and west on favorable scheelite occurrences a distance of 200 feet and to raise a distance of 100 feet on the most favorable scheelite occurrence. The

overall cost of an exploration project of this magnitude and in this location, would probably amount to $32,000.00.

As a result of the examination, it was determined by the examining engineer and geologists that assistance for further exploration aid with a DMEA loan is not warranted.

INTRODUCTION

Bacon Associates, lessees of the Big Wash Tungsten claims in White Pine County, Nevada, applied for a DMEA loan to explore for tungsten ores. Examination of the property was made during June, 1954 by members of the U. S. Geological Survey and the U. S. Bureau of Mines. Mr. C. X. Bacon, one of the lessees, accompanied the examiners in the field.

DESCRIPTION OF PROPERTY

Only one important occurrence of scheelite has been discovered and mined on the property. This work was done about 1916 and 1917. During this period the miners explored a surface exposure of white quartz for a length of approximately 130 feet. An open pit averaging 5 to 15 feet in width and approximately 3 to 10 feet in depth was dug.

Scheelite mineralization occurred associated with the quartz and as large spuds. A close examination of the walls of this open pit showed only very light and scattered distribution of scheelite beyond thin faces of the quartz. Small crystals of scheelite were occasionally found in narrow quartz stringers cutting the limestone in both east-west and

north-south directions. These quartz stringers occur at irregular intervals, and the quartz stringers observed in the present adit and other small surface cuts contained little or no scheelite mineralization. There is some high grade scheelite ore remaining in the quartz on the dump. However, the scheelite is very spotty and lamping indicated a grade of about 0.2% WO_3 if the entire dump were crushed and sampled.

The floor of the open cut could not be examined in detail as it is almost entirely covered with loose lime and quartz boulders of various sizes. Where the floor of the pit could be examined, only a few stringers of non-mineralized quartz were observed.

It is evident that this quartz "blowout" produced a moderate tonnage of scheelite ore, which was probably hand sorted. No documentary evidence is known to exist which substantiates Mr. C. X. Bacon's report of production in 1916-1917 of about $50,000.00 worth of tungsten ore.

The examination and sampling was conducted principally in the area specified by C. X. Bacon as the area in which he and the applicant desired to explore and within which they considered the best occurrences of scheelite mineralization would be found.

Surface facilities:- The one small cabin, adjacent to the adit, is not habitable.

Other facilities:- None

Mine workings:- The applicant has proposed to extend the present adit which has been driven a distance of 39 feet. There are no underground facilities.

MANPOWER, SUPPLIES, ETC.

The nearest source of labor and supplies would be Ely, Nev., a distance of 86.4 miles from the mine.

There is no transmitted electric power in this area, therefore, all necessary mining machinery would be actuated by Diesel or gasoline motors.

Water is available from a spring located about two miles east of the adit and would have to be hauled from this source for both mining and domestic purposes.

NAME AND LOCATION OF PROPERTY

The Big Wash Tungsten claims, Nos. 1, 2, 3, 4, and 5 were located on or about April 25, 1951 by John Osborne, whose mailing address is Garrison, Utah, and are reported to be recorded in the Office of the County Recorder of White Pine County at Ely, Nev. It is evident that the claims are relocations. The claims are located in unsurveyed section 18, T. 12 N., R. 69 E. (fig. 1), on the east slope of the Snake Range, White Pine County, Nev.

The portal of the adit where Mr. C. X. Bacon proposes to conduct the exploration work, is 16.3 miles west of Garrison, Utah. The road is unimproved desert road and for the most part is located along the floor of a steep canyon and is subject to floods during heavy rains and in the spring from melting snows.

During the year of 1953, Mr. C. X. Bacon reports that one of

the Government agencies repaired three miles of the canyon road and constructed 2.5 miles of new road.

The claims are within the boundaries of the Nevada National Forest.

APPLICANTS PROPERTY RIGHTS

Under date of April 29, 1953, the owner of the claims, Mr. John E. Osborne, signed a "Contract of Sale" conveying the Big Wash Tungsten claims, No's. 1, 2, 3, 4, and 5, to Mr. Raymond F. Bacon for a total purchase price of $30,000.00. The terms and conditions itemized in the sales contract, are as follows:

> $500.00 to be paid upon the signing of the contract.
>
> Royalty @ 10% on all ores sold from the claims during the life of the contract, with a minimum yearly royalty of $1,500.00.
>
> The contract to remain in force and effect so long as royalty payments are made by the buyer and shall terminate whenever buyers fail to pay the royalties or when the total of royalties paid to the seller shall equal the total purchase price of the property.

Under an unspecified date in July of 1953, Mr. Raymond F. Bacon formed a limited partnership, for the purpose of conducting a general mining business, with:

> C. X. Bacon of Placerville, Idaho
> Chauncey L. Landon of 535 Fifth Ave., New York City
> Gardner F. Landon of Pelham, N. Y.
> Betty W. Landon of Bronxville, N. Y.
> Jane L. Fairchild of Bronxville, N. Y.

In this limited partnership, the above partners have been assigned the following interest:

C. X. Bacon	35%
R. F. Bacon	35%
C. L. Landen	7.5%
G. F. Landen	7.5%
B. W. Landen	7.5%
J. L. Fairchild	7.5%

The capital of the partnership shall consist of all of the right, title, and interest of R. F. Bacon and C. X. Bacon, as buyers, in and to a certain agreement with John E. Osborne, of Garrison, Utah, as seller, of certain mining claims located in White Pine County, Nev., and known as "Big Wash Tungsten" numbers 1 to 5 inclusive.

Mr. C. X. Bacon informed the examining engineers that all assessment work has been done and that no debts had accrued against the property.

GEOLOGY

The five claims comprising the Big Wash Tungsten group are situated on the south slope of a long ridge extending easterly from Mt. Washington in the Snake Range. In the mine area, the sediments strike easterly with 20-40 degree dips to the south.

The sedimentary rocks exposed in the mine area are mostly thin- to medium-bedded, fine- to medium-grained, dark gray to bleached sometimes recrystallized and marbleized limestone. The sediments are tentatively assigned to the Middle Cambrian Highland Peak formation

(undifferentiated).

There is a small granitic stock exposed about one mile northwest of the mine area and a 20-foot thick east-striking near vertical aplite dike has been intruded about 500 yards north of the open pit on Big Wash Tungsten No. 2 claim.

The present owners of the claims postulate the existence of a hidden granitic mass beneath the mine area. This postulation is apparently based on the recrystallization and bleaching in the limestone. It is more likely that the recrystallization and bleaching may be ascribed to hydrothermal action such as that which deposited the scheelite. High intensity conditions such as those commonly associated with contact phenomena are generally lacking.

Nearer the mouth of the canyon several miles to the east of the mine area, a thrust fault is exposed; it is not known what relation this fault may have to the stratigraphic sequence exposed in the mine area.

ORE DEPOSITS

The scheelite occurs mainly as fairly large (1/4 inch to 1 inch) crystals scattered along fractures in the bleached, sometimes recrystallized and marbleized limestone. The fractures are also generally coated with terminated quartz crystals. The scheelite does not appear to be restricted to any particular set of fractures nor does there appear to be localization within a particular bed. It may be further noted that not all of the quartz bearing fractures contain scheelite.

The fractures noted in the workings are very thin with no evidence of movement; it appears likely that many of them were open during the period of mineralization as both the scheelite and the quartz exhibit well developed crystal faces. Occasionally sporadic disseminations of finer grained scheelite occur in the limestone unassociated with either fracturing or quartz.

Ultra violet lamping of the various pits and adits on the property discloses that most of the scheelite is associated with quartz on thin diversely striking fractures with only a few small sporadic disseminations in the country rock.

The fractures carrying scheelite are, at the surface, too thin and too widely spaced to provide for an economic high grade mining operation, and the intervening rock carries too little disseminated scheelite to provide for large scale low-grade mining operation.

A few small grains of galena and specularite were noted in the bleached limestone at the portal of the lower adit (diagram F, fig. 2). Minor copper staining is also noted in several of the workings.

Between the upper and lower workings there is almost continual limestone outcrop which contains only a few scattered occurrences of scheelite.

ORE RESERVES

The applicants report a production from the property of about 500 tons of slightly less than 1.0% WO_3 during the period 1916-17.

There has been no recorded production since that time.

Due to the erratic nature of the scheelite occurrence both on fractures and as disseminations, it is not possible to accurately estimate reserves or grade at this property. The mining operations conducted thus far indicate that the property is of a spotty high-grade type thus necessitating mining practice of a highly selective nature.

PROPOSED EXPLORATION

The applicants have proposed driving a tunnel on the lower adit level to a point beneath the large open cut on the Big Wash Tungsten No. 2 claim. According to a rough sketch submitted by the applicants, they are postulating the existence of a hidden granitic mass beneath the slopes on which the claims lie. It is the granite-sediment contact directly beneath the large open pit at which the tunnel is aimed. Such conditions, if they exist, would involve 500feet to 700 feet of tunnel work with a proportionate amount of crosscutting and drifting.

Although a granitic body does outcrop about one mile northwest of the claims, there is no evidence to indicate that its deeper portions may extend to the mine area. No noteworthy scheelite mineralization has been found at the granite-limestone contact where exposed, therefore, there is no reason to believe the same contact will carry ore-grade mineralization at depth. Bleaching marbleization and recrystallization of the limestone as noted on the property may be ascribed to the same hydrothermal action which produced the quartz-scheelite deposits. Thus,

there is only very inconclusive evidence of contact phenomena in the mine area and consequently the existence of a granitic body within a reasonable depth cannot be stated with any degree of certainty.

A downward projection of the scheelite mineralization noted in the large open cut on Big Wash Tungsten No. 2 claim does not appear warranted as the fractures in which the greater part of the scheelite occurs are persistent neither in strike nor dip.

SAMPLING

The present adit and the few small open cuts on the property showed no mineralization, therefore, no samples of the barren limestone were taken.

The limestone surface exposure between the portal of the adit and the 1917-18 workings was largely covered with slide rock. Small quartz stringers observed, where the limestone could be examined, showed very limited and spotty mineralization.

In the open pit near the top of the hill and about 500 feet northwest of the adit, nearly all of the scheelite mineralized quartz has been removed during the 1917-18 operation and for the most part, the limestone walls do not contain scheelite. Samples were taken in areas in which scheelite mineralization was observed and in which the former miners had apparently considered the major part of the ore had been removed. Examination showed that only a thin surface of scheelite remained on the limited exposures of quartz, and that the penetration

into the limestone was practically nil. Therefore, the sampling will only serve as an indication of the grade of ore mined and sorted during the 1917-18 operation.

Sample No.	%, WO_3	Description
BM-1304	0.56	Chip sample from quartz boulders on south side of open cut at top of hill. Approximately 100 tons of quartz boulders in this dump which has been hand sorted several times.
BM-1305	6.75	Width 1.4 feet - north wall of open cut at top of hill. Very small section of quartz enclosed in white limestone.
BM-1306	0.04	Width 2.0 feet - south wall of open cut at top of hill. Thin face of scheelite.
BM-1307	0.09	Grab sample from about 1 ton of washed and screened material resulting from operations conducted during the period 1917-18.
BM-1308	0.08	Grab and chip sample from approximately 50-ton quartz dump. South side of open cut at top of hill. Fines in this dump contain some scheelite.
BM-1309	0.33	Width 2.3 feet - at collar of 12-foot shaft. South edge of open cut at top of hill. Face of the sample cut shows scheelite.
BM-1310	14.34	Chip sample of typical high grade, sorted ore from about 1 ton dump at southwest end of open cut at top of hill. This sample selected by mineralight to show type of high grade ore which had been produced from the quartz "blow out".
BM-1311	0.04	No width (area of 2-by 2-feet) Thin layer of quartz, 1/2-inch thick - frozen on west wall of 12-foot adit and 26 feet west of lower adit. This quartz showed no scheelite under the lamp.

Sample No.	%, WO_3	Description
BM-1312	*0.01	Width 2.7 feet - north wall of open cut at top of hill. Small quartz exposure enclosed by white limestone. No scheelite observed under lamping.
BM-1313	6.17	Width 1.0 feet - very small surface exposure of quartz enclosed by limestone about 400 feet northwest of the lower adit.

* Less than.

All channel samples were very carefully caught on a canvas sample sheet. All areas were carefully examined at night, by use of a mineralight and marked with aluminum paint prior to sampling.

CONCLUSIONS AND RECOMMENDATIONS

The coarsely crystalline scheelite in the mine area is largely confined to thin quartz coated fractures which do not show persistence in strike or dip. Not all of the fractures carry scheelite. The disseminated finer grained scheelite concentrations in the limestone between the fractures are too sporadic to be of economic importance.

There does not appear to be any firm basis for the postulation of a mineralized granitic-limestone contact within a reasonable depth.

There is no well-defined target for exploration.

It is concluded that the scheelite bearing fractures are too widely spaced to permit a small high grade operation and that the intervening material is too low grade to provide for a large scale low grade operation.

It is recommended that the applicant's request for a DMEA loan be denied.

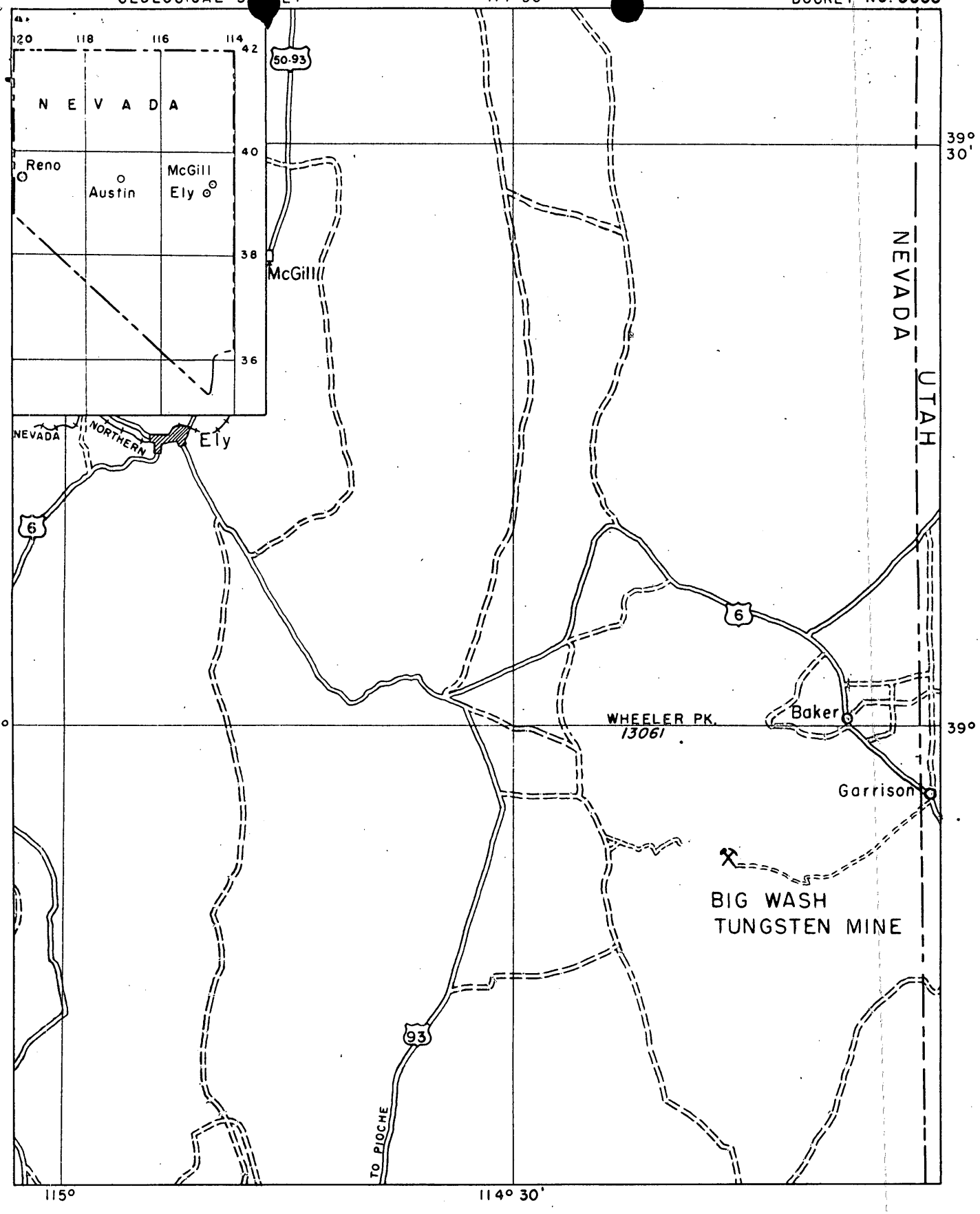


FIG. 1 INDEX MAP OF NEVADA

0 5 10 MILES
Scale

MF-201
(June 1951)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

SUBORDINATION AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, the undersigned is the holder of a mortgage, claim, lien, or encumbrance identified and described as follows*:

.....

.....

upon that certain parcel of ground described in a certain Exploration Project Contract dated

....., 195...., between .....

.....,

and the United States of America;

NOW, THEREFORE, the undersigned does by these presents subordinate all of his right, title, and interest in said mortgage, claim, lien, or encumbrance to the right, title, and interest of the United States of America under the provisions of said Exploration Project Contract, and agrees that the lien and claim of the United States of America under the provisions of said contract shall be prior to the undersigned's rights under the provisions of said mortgage, claim, lien, or encumbrance; and

The undersigned agrees to commit no act nor assert any right, title, or interest under said mortgage, claim, lien, or encumbrance that might contravene or conflict with the prior lien and claim of the United States of America under the provisions of said Exploration Project Contract.

This undertaking and covenant shall be binding upon the heirs, successors, and assigns of the undersigned.

Dated this ..... day of ....., 195....

.....

*Include date of the instrument, and if recorded, book, page, and county of record.

U. S. GOVERNMENT PRINTING OFFICE 16—64581-2

6/22/54

Frances Webster said Bacon called Mr. Mittendorf yesterday evening, and the Administrator's office sent Bacon 6 copies of an O.C.L.

~~Better~~ WO3 - DMEA - 3368
Mr. O.C.L. "of Ellington Co."
Landon - Bacon Associates
535 ~~5th Ave~~
NYC.
Copy of —
Owners Consent To Lease
Better send 6 copies
~~Mr. Bacon~~ 6/22/54

7/7/54

To call:

Landon, Bacon Associates
NY Op. 420
Murray Hill 7-4300

400

DOCKET
Surname:
Martin
Selfridge
H.E. Johnson
Mattendorf

JUN 1 4 1954

AIR MAIL

Mr. H. C. Miller, Executive Officer
DMEA Field Team, Region III
420 Custom House
555 Battery Street
San Francisco 11, California

Re: Docket No. DMEA 3368 - Tungsten
Bacon Associates
Big Mack Claims
White Pine County, Nevada

Dear Mr. Miller:

Transmitted herewith are copies of a letter of June 8, 1954, from Dr. Raymond P. Bacon, submitting additional data and maps pertaining to the referenced property.

Also enclosed for your information are two copies of a memorandum of June 4, 1954, by Mr. T. P. Thayer, U. S. Geological Survey.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (JHB)

Enclosures

APPROVED:

J. H. Hedges (JHB)

Member, Bureau of Mines

D. M. Larrabee (JHB)

Member, Geological Survey

cc: Docket
Code 400
FT, Reg. 3
Oper. Comm.
Adm. Read. File
R. W. Geehan, USBM
T. P. THAYER, USGS

LS 6/9/54

R.C.S.

DOCKET
Surname:
Martin
Tarrabay
Selfridge
Johnson

400

JUN 14 1954

Dr. Raymond F. Bacon
500 Fifth Avenue
New York, N. Y.

Re: Docket No. DMEA 3368 - Tungsten
Bacon Associates
Big Wash Claims
White Pine County, Nevada

Dear Doctor Bacon:

This will acknowledge receipt of your letter of June 8, 1954, with enclosed information concerning the subject property. We thank you for this information.

Sincerely yours,

W. S. Martin, Chief
Iron and Ferro-Alloys Division

WSMartin/ls

6/9/54

cc: DOCKET
ADM. READ. FILE
CODE 400
FIELD TEAM, REG. III
R. W. GEEHAN, USBM
T. P. THAYER, USGS

R.C.G.

RAYMOND F. BACON
CHEMICAL ENGINEER
500 FIFTH AVENUE
NEW YORK
CHICKERING 4-4730

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 9 1954

June 8, 1954

Re: Docket No. DMEA 3368- Tungsten
Bacon Associates
Big Wash Claims
White Pine County, Nevada

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

Dear Mr. Mittendorf:

In our telephone conversation with Mr. Johnson of your Reno Office yesterday, he advised that he had assigned Mr. Gentry of his office, to make inspection of the Big Wash property. We arranged with Mr. Johnson that our Mr. C. X. Bacon is to meet Mr. Gentry in Baker, Nevada, on June 16th. WSM

Mr. Donnelly advised us of your need of sketches of the property - with special reference to disclosure of the proposed method and location of the contemplated exploratory work. Two sketches in plan and in elevation are herewith enclosed. We hope these will satisfy your needs.

Herewith are comments on the several points regarding which Mr. Donnelly advised you would like more information:

1. If a mineral report was made on this property in connection with an access road it was probably prepared by the Ogden office of the Bureau of Mines. I have not seen this report but from the fact that they recommended the building of the road I presume it has been favorable.

2. The access road which the government built is described as "a low class road". Soon after it was built there was an unusual flood which damaged the surface in several places, and we then dragged the road and put it back in shape.

3. Relative to the ore which the oldtimers took out, it was packed out by pack mules or pack horses, and it is understood it was then taken to San Francisco and sold there.

4. With reference to the cost of driving a tunnel: The reason this tunnel can be driven so cheaply is that the limestone rock is very soft and it also breaks up very easily by a comparatively light charge of powder which breaks it down and the drilling is several times as fast as in basaltic, quartz, or other hard rocks. We had a price of $16.00 per linear foot and about 50 feet were drilled under this contract before the snow forced the contractor to quit. Two other contractors came in and looked at the work last fall and said they would be willing to contract for less than $20.00 per linear foot. We will try to get a firm contract subject to our obtaining the government loan, but we believe our $20. price was not too low. The work on this tunnel will have to be done during the summer season and until the proposition becomes much more established it would be foolish to try to work during the snow season.

Mr. C.O. Mittendorf, Administrator

5. Relative to water on the property: The statement which we made in our application that there is a spring on the property is in error. The spring is located about 3000 ft. above the property, and we purchased a heavy rubber hose and took it out to the property expecting to use it bringing water from the spring to the property. We decided that for the present it would be better to haul all the needed water from a point about a mile below the property. We are, however, now taking such steps as are necessary to give us legal rights to this spring water. Our older applications all said that there was no water on the property. The present statement got in as a typographical error and was not noticed in reading over the copy.

If there is any further information you would like to have we shall, of course, be very glad to furnish it.

Sincerely yours,

Raymond F. Bacon

Raymond F. Bacon

cc: Messrs.:
A. C. Johnson
H. C. Miller
C. X. Bacon

IN REPLY REFER TO:

Docket

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

June 4, 1954

WSM

Memorandum

To: W. S. Martin

From: T. P. Thayer Thayer

Subject: DMEA-3368 - TUNGSTEN
Bacon Associates
White Pine County, Nevada

The application is too vague to evaluate, but does not sound encouraging.

The Field Team will have to examine the property, which shouldn't be a hardship in July. The foolish investment in an access road should not be allowed to unduly influence the decision on exploration.

Copy retained [illegible]

DOCKET

Mr. J. V. O'Dwyer, EDC
General Services Administration
Room 5010, Regional Office Building
Mr. W. S. Martin, Chief
Iron and Ferro-Alloys Division, DMEA

June 1, 1954

Access Road Docket No. AR-213

Reference is made to your memorandum of May 24, 1954, transmitting to the Defense Minerals Exploration Administration Access Road Docket No. AR-213 for Bacon and Associates, Big Wash Mine, White Pine County, Nevada.

We thank you for lending this docket to us for review. It appears that we will have no further need for the material and the docket is returned herewith.

W. S. Martin, Chief
Iron and Ferro-Alloys Division

Attachment

cc: DOCKET 3368
CODE 400

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

TO : Mr. W. S. Martin, DMEA
Interior Building

DATE: May 24, 1954

FROM : Mr. J. V. O'Dwyer, EDC
Room 5010, Reg.Off.Bldg.,GSA

SUBJECT: Access Road Docket No. AR-213

WSM

Attached is access road Docket No. AR-213 for Bacon and Associates, Big Wash Mine, White Pine County, Nevada, which you requested by phone today.

When you have finished with this material please return it to Room 5010, Regional Office Building, GSA.

Mrs. A. B. Gross
Mrs. A. B. Gross
Secretary to Mr. O'Dwyer

Donna 3368

DOCKET COPY

Martin
Gerhon
Thayer
Johnson
Mittenberg

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

MAY 28 1954

MAY 28 1954

MAY 28 1954

Mr. H. C. Miller, Executive Officer
DMEA Field Team, Region III
1012 Flood Building
870 Market Street
San Francisco 2, California

Re: Docket No. DMEA 3366 - Tungsten
Bacon Associates
Big Wash claims
White Pine County, Nevada

Dear Mr. Miller:

The above-docketed application for exploration assistance is being referred to your office for review and a field examination of the property unless you find that an adequate examination has already been made.

The application has some conspicuous defects. No sample data are included although samples are said to have been taken. No map is attached. The proposed work is not adequately described. The costs seem to be underestimated. No reports are included from the unnamed mining engineers who "have seen this property and all have expressed the opinion that there was a good chance of a rich ore body at the contact between the limestone and the acidic rock underneath."

The application states: "Needed water is available from Spring on property." We note, however, that according to a letter of March 31, 1953, from Dr. Raymond F. Bacon to Mr. George H. Roll of the former Mining Requirements Division, Defense Materials Procurement Agency: "It is very difficult to do anything without a road as there is no water and the deposit is at an elevation of 9,000 feet." Dr. Bacon's letter of April 9, 1953, to the same division states further that: ". . . there is no water and everything including water has to be carried in . . ."

The above-mentioned letters and a related letter of March 25, 1953, from Mr. Bacon, all of which discuss the property in rather general terms but do not give the specific sort of information that we require, are now filed here in Washington, D. C., under the Docket No. AR-213 in the Materials Division, Emergency Procurement Service, General Services Administration.

The same AR-213 file starts with a copy of a letter of July 9, 1952, to the Director, Reno Branch, U. S. Bureau of Mines, Reno, Nevada, to which Mr. A. C. Johnson replied on July 21, 1952. The file includes an access road application of August 11, 1952, on the basis of which Mr. Stanley M. Walker, Chief, Facilities Section, Mining Requirements Division, DMPA, recommended to The Bureau of Public Roads, under date of September 3, 1952, an investigation to determine the merits of the road application. Mr. Walker's letter, a copy of which was sent to Dr. Bacon, includes the statement: "This property has been investigated by the Bureau of Mines and is considered to be an exceptionally good property capable of producing a very high grade of tungsten ore." We have been unable to verify this statement through the Bureau of Mines' Commodity Specialist here. Perhaps the property was examined under another name.

The access road file also includes an access road inspection report, with accompanying photographs and maps, dated October 16, 1952, by George B. Criteser, Highway Engineer, which report was recommended for approval by both the District Engineer and the Division Engineer of the Bureau of Public Roads, Department of Commerce. A letter of December 9, 1952, from Mr. W. J. O'Leary, Acting Commissioner of Public Roads, forwarded the report and a program request to Mr. Howard I. Young, DMPA, for advice as to its importance to the National Defense. Under date of December 23, 1952, Mr. Charles E. Stott certified the road to Mr. Thomas H. MacDonald, Commissioner of Public Roads, as important to the National Defense. The file concludes with a copy of a letter of April 20, 1953, from Mr. George H. Roll, Acting Director, Mining Requirements Division, DMPA, advising Mr. Chauncey Landon, c/o R. F. Bacon & Associates, 500 Fifth Avenue, New York 18, New York, that with reference to the access road for the Big Wash tungsten deposit Mr. Landon should contact Mr. Wm. Howard Smith, District Engineer, Nevada Department of Highways, 202 South Fall Street, Carson City, Nevada.

Sincerely yours,

George C. Selfridge

RG 5-28

By ESY

Chairman, Operating Committee

APPROVED:

/s/ C. A. Johnson By ESY

Member, Bureau of Mines

D. M. Larrabee

By ESY

Member, Geological Survey

WSMartin/ls 5/26/54

cc: DOCKET
FT, REGION 3
OPER. COMM.
CODE 400
ADMIN. READ. FILE
R. W. GEEHAN, USBM
T. P. THAYER, USGS
MATERIALS DIV., EPS, GSA

400

DOCKET
Martin
Geehan
Thayer
Forhofer
Johnson
Hoffman

MAY 2 1954

Dr. Raymond F. Bacon
Bacon Associates
500 Fifth Avenue
New York, N. Y.

Re: Docket No. DMEA 3368 - Tungsten
Bacon Associates
Big Wash Claims
White Pine County, Nevada

Dear Doctor Bacon:

The above-docketed application for exploration assistance for tungsten has been reviewed by the Iron and Ferro-Alloys Division of the Defense Minerals Exploration Administration and has been referred to Mr. H. C. Miller, Executive Officer, DMEA Field Team, Region III, 1012 Flood Building, 870 Market Street, San Francisco 2, California, for review and possibly a field examination of the property.

Mr. Miller has been asked to obtain from you information about the water supply and other necessary details. Any assistance that you can render the members of the Field Team will be appreciated.

We understand from Mr. William D. Donnelly, who brought your application to us on May 24, 1954, that upon advice from you Mr. C. X. Bacon, who lives in Idaho, will meet our engineers at Garrison, Utah, or Bacon, Nevada, to take them to the mine in the event an inspection is to be made. It will be appreciated if you will give Mr. C. X. Bacon's mailing address to Mr. Miller so that mutually satisfactory arrangements could be made directly without the necessity of communicating through either your office or this office.

Sincerely yours,

C. O. Mittendorf
Administrator

for RJ 5-28

cc: DOCKET
FIELD TEAM, REG. III
CODE 400
ADM. READ. FILE
OPER. COMMITTEE
R. W. GEEHAN, USBM
T. P. THAYER, USGS
MATERIALS DIV., EPS, GSA

WSMartin/ls
5/26/54

Bacon Associates
% Dr. R. F. Bacon
500 Fifth Ave
New York, N. Y.

May 25, 1954
Subject: DMEA-3368
Re: Exploration Assistance
Big Wash

Gentlemen:

The receipt of your application dated May 20, 1954 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-3368 and referred to the Iron and Ferro Alloys Division.

Kindly refer to DMEA-3368 in any future correspondence relating to your application.

Sincerely yours,

Robert E. Adams
Chief, Operation's Control
and Statistics Division

Mr. Wm D Donnelly
Di 7-0777

Mr. Wm P Dougally
Di 7-0777.

C. X. Bacon, parter who lives in Idaho
meet the inspectors at Garrison, Utah
or Baker, Nev will take them to the minsite

RAYMOND F. BACON
CHEMICAL ENGINEER
500 FIFTH AVENUE
NEW YORK
CHICKERING 4-4730

May 19, 1954

U.S. Department of Interior
Defense Minerals Exploration Administration
Washington, 25 D.C.

Attention: Mr. W. S. Martin, Chief
Iron and Ferro-Alloys Div.

Sirs:

Herewith is undersigned's application, in quadruplicate, for a loan in the amount of $20,000.00 under the provisions of DMEA Order 1 re "Defense Exploration Project".

Applicants are, of course, ready to supply any and all additional information which you may require in the processing of this application.

While the applicants are a partnership operating under the Laws of the State of Nevada under the designation "Bacon Associates" and have their principal office in Baker, Nevada it is requested that all correspondence concerning this application be addressed to me at the above address.

Respectfully submitted,

BACON ASSOCIATES

By R. F. Bacon
R. F. Bacon

Attachments

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

6 4 1954

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. 3368
Metal or Mineral Tungsten
Date Received
Estimated Cost $20,000
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: BACON ASSOCIATES - a limited partnership existing under the Laws of the State of Nevada with principal office at Baker, Nevada. Mailing address for correspondence re this application - Bacon Associates, c/o Dr.R.F.Bacon, 500 Fifth Avenue, New York, N.Y. (For partners names and addresses see - attached Memo I.)

(*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 Property comprises five (5) claims located in White Pine County, Nevada - for details see attached Memo II.

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

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise Purchaser under contract - for details see Memo III and photostats of Osborne contract & Bacon Associates partnership agreement attached thereto.

(*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. See Memo III and attachments mentioned in 3-C above.

(*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. See Memos II and III.

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. See Memo IV.

(*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 Tungsten
For other information requested in Section 5 see Memo V.

(*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)? Yes

(*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 May 20, 1954.

BACON ASSOCIATES
(Applicant)

By Raymond F. Bacon
Raymond F. Bacon

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

MEMO I.

As per photostat of Bacon Associates partnership agreement, attached to Memo III the applicant partners are:

Raymond F. Bacon - 500 Fifth Avenue, New York, New York

C. X. Bacon - Placerville, Idaho

Chauncey L. Landon - Alger Court, Westbourne, Bronxville, N.Y.

Gardner F. Landon - Pelham, New York

Betty W. Landon - Bronxville, New York

Jane L. Fairchild - Bronxville, New York

MEMO II.

This property comprises five (5) claims located in White Pine County, Nevada. They are recorded in Ely, Nevada in the name of John E. Osborne as follows:

Big Wash No. 1 -	recorded	in	Ely,	Nevada	-	Liber	No.	158	-	page	355
Big Wash No. 2 -	"	"	"	"	-	"	"	158	-	"	356
Big Wash No. 3 -	"	"	"	"	-	"	"	158	-	"	357
Big Wash No. 4 -	"	"	"	"	-	"	"	158	-	"	358
Big Wash No. 5 -	"	"	"	"	-	"	"	158	-	"	359

MEMO III

The terms and conditions of the Osborne Contract of Sale to R.F. Bacon and C.X. Bacon (attached) are in full force and effect.

This Contract has been assigned in its entirety to Bacon Associates per Partnership Agreement (attached). This agreement was recorded at the office of the County Clerk for White Pine County, Ely, Nevada, September 22, 1953 at 1:03 P.M., Book 168, Pages 373 - 177 Misc. Record - J.B. Geraghty Recorder.

Osborne will sign upon request any needed waivers, etc. which may be required for an "exploration project contract".

AGREEMENT made this day of July, 1953, by and among C. X. BACON, residing at Placerville, Idaho, hereinafter called "C.X.", RAYMOND F. BACON, of 500 Fifth Avenue, Borough of Manhattan, New York City, hereinafter called "R.F.", CHAUNCEY L. LANDON, of 535 Fifth Avenue, Borough of Manhattan, New York City, hereinafter called "C.L.L.", GARDNER F. LANDON, of Pelham, New York, hereinafter called "G.F.L.", BETTY W. LANDON, of Bronxville, New York, hereinafter called "B.W.L." and JANE L. FAIRCHILD, of Bronxville, New York, hereinafter called "J.L.F."

WITNESSETH, IT IS HEREBY MUTUALLY AGREED AS FOLLOWS:

1. The parties hereto hereby form a limited partnership for the purpose of conducting a general mining business, and the principal office shall be in Baker, Nevada.

2. C. X. and B.W.L. shall be general partners and R.F., C.L.L., G.F.L. and J.L.F. shall be limited or special partners in the said partnership.

3. The partnership shall be conducted under the firm name and style of BACON ASSOCIATES and shall commence on the 1st day of July, 1953, and shall continue for one year and thereafter from year to year consecutively in succession. This agreement shall be subject to termination at any time by written notice from any party hereto as hereafter specified of his or her election to terminate this agreement.

4. The capital of the partnership shall consist of all of the right, title and interest of R.F. and C.X., as Buyers, in and to a certain agreement with JOHN E. OSBORNE, of Garrison, Utah, as Seller, of certain mining claims located in White Pine County, Nevada, and known as "Big Wash

Tungsten Numbers 1-5 inclusive." R.F. and C.X. hereby acknowledge that they entered into the said agreement with JOHN E. OSBORNE independently and on behalf of all of the other parties hereto and that they do hereby assign to the partnership, BACON ASSOCIATES, all of their right, title, property and interest of every nature and description in and to the said agreement with JOHN E. OSBORNE.

5. The parties hereto shall each own and shall respectively be entitled to participate in the capital of this partnership (consisting of certain mining property) and to receive as his or her share of the profits of the partnership the following percentages thereof as set forth opposite their respective names:

C. X. 35%
R. F. 35%
C. L. L. 7½%
G. F. L. 7½%
B.W. L. 7½%
J. L. F. 7½%

6. Any losses suffered or incurred in or about the business of the partnership shall be borne by all of the parties in the same proportion in which they are entitled as aforesaid to share in the profits of the partnership, but no limited or special partner shall in any event be liable for or subject to any losses whatsoever in excess of the amount of his interest in the capital of this partnership, as aforesaid, nor shall any such limited or special partner be personally liable for any of the debts, obligations or losses of said partnership in any event or to any extent whatsoever.

7. Any of the parties hereto shall have the right to sell or assign to third parties the whole or any part of his or her respective interest in the capital and profits of the partnership upon such third parties executing and delivering to the other parties hereto a counterpart of this partnership agreement.

8. Any party hereto shall have the right to terminate this agreement on giving all of the remaining parties thirty (30) days' written notice sent by registered mail of intention so to terminate this partnership. All of the other parties shall have the absolute right within twenty (20) days from the receipt of said written notice within which to elect to purchase the interest of the parther who shall have given notice of intention to terminate the partnership. Such election to purchase shall be in writing and the terms thereof shall be on a "buy or sell" basis so that the purchase price to be paid therefor shall be in an amount and upon terms proportionate to the price at which the partners electing to purchase such interest shall have expressed their willingness to sell their own respective partnership interests. Such terms of purchase shall be set forth in the notice of election to purchase and such transaction shall be concluded within twenty (20) days after the mailing thereof unless otherwise agreed upon.

9. In the event of the death, retirement or disability of any party hereto, the parthership may be continued by the surviving partners and the capital contributed by such surviving partners shall be used in the conduct of the said business and shall be subjected to the payment of debts and liabilities contracted by the partnership since such death, withdrawal, retirement or disability,

and the estate of the deceased partner or the retired partner, as the case may be, shall be paid his or her share of the capital and profits of the partnership to said date, upon the "buy or sell" basis hereinabove in paragraph "8" described, and the partnership continued as though said partner had never been a member of the partnership. Anything herein contained to the contrary notwithstanding, the parties hereto hereby agree that in the event of the death or disability of any party hereto, the legal representatives of such deceased or disabled partner shall have the absolute right and option in their uncontrolled discretion to refrain from accepting payment of the aforesaid share of the capital and profits of the partnership, and shall have the right to be admitted to the partnership as of the date of death or disability of said partner so that the partnership business shall be deemed to be continued without interruption as if said legal representatives had been originally members of the partnership and shall become bound by all the terms and provisions hereof. The exercise by such legal representatives of the right and option herein set forth shall be evidenced by an election in writing which shall be sent by registered mail to all of the other partners not later than ninety (90) days after the appointment and qualification of such legal representatives in the jurisdiction in which such deceased or disabled partner shall be domiciled.

10. Upon the dissolution of the partnership, through operation of law or otherwise, the net assets of the partnership shall be applied in repayment of the capital contributed by the partners and any surplus shall be divided among the parties hereto in accordance with

their respective interest therein as above specified.

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

WITNESS

August 17-1953 Rhoda J. Terry
Aug. 17 1953 O. M. Terry

C. X. Bacon (L.S.)
C. X. Bacon

Raymond F. Bacon (L.S.)
Raymond F. Bacon

Chauncey L. Landon (L.S.)
Chauncey L. Landon

Gardner F. Landon (L.S.)
Gardner F. Landon
Gardner

Betty Landon (L.S.)
Betty W. Landon

Jane L. Fairchild (L.S.)
Jane L. Fairchild

Betty Landon
August 6, 1953

RIDER

It is hereby agreed that paragraph 8 hereof is hereby amended by the addition of the following:

All of the partners desiring to purchase any such interest to be sold shall have the right to do so in proportion to their interests in the partnership, and any partner who does not mail the notice of election to purchase within the time specified shall have no right to purchase the whole or any part thereof.

C. X. Bacon (L.S.)
C. X. Bacon

Gardner F. Landon (L.S.)
Gardner F. Landon

Raymond F. Bacon (L.S.)
Raymond F. Bacon

Betty W. Landon (L.S.)
Betty W. Landon

Chauncey L. Landon (L.S.)
Chauncey L. Landon

Jane L. Fairchild (L.S.)
Jane L. Fairchild

C.X.B.
RFB

CONTRACT OF SALE

This Contract of Sale entered into between JOHN E. OSBORNE of GARRISON, UTAH, hereinafter known as Seller and R. F. BACON of 500 FIFTH AVENUE, NEW YORK, NEW YORK and C. X. BACON of PLACERVILLE, IDAHO, hereinafter known as Buyers witnesseth that:

WHEREAS the Seller is the owner of the entire right, title and interest in and to the below listed mining claims;

NOW THEREFORE, in consideration of the mutual promises and covenants herein, the parties hereto have hereby mutually agreed as follows:

Seller agrees to sell to Buyers the entire right, title and interest in and to certain mining claims located in White Pine County, Nevada near Garrison, Utah and known as

Big Wash Tungsten #1 recorded in Ely, Nevada Liber No. 158 Page 355
Big Wash Tungsten #2 recorded in Ely, Nevada Liber No. 158 Page 356
Big Wash Tungsten #3 recorded in Ely, Nevada Liber No. 158 Page 357
Big Wash Tungsten #4 recorded in Ely, Nevada Liber No. 158 Page 358
Big Wash Tungsten #5 recorded in Ely, Nevada Liber No. 158 Page 359

upon the following terms and conditions:

1. The total purchase price shall be THIRTY THOUSAND DOLLARS ($30,000.) payable by Buyers to Seller thus - FIVE HUNDRED DOLLARS ($500.) on the signing of this Contract, receipt of which is hereby acknowledged, and 10% royalty on all ore sold from these claims during the life of this Contract, with a minimum yearly royalty of FIFTEEN HUNDRED DOLLARS ($1,500.)
2. All royalty payments shall be made by Buyers to Seller within one month from the time the proceeds from the sale of the ore are received by Buyers, except that any unpaid portion of the minimum yearly royalty payment shall be due and payable on November 1st of each year, calculated to begin with the fiscal year commencing November 1, 1953 and ending November 1, 1954.
3. The ten percent (10%) royalty shall be based on the actual money received by Buyers from the sale of the ore less the transportation charge from the mine to the point of sale. For example, if the ore should be sold for ONE HUNDRED DOLLARS ($100.) per ton in Ely and the cost of transporting it

from mine to Ely were TEN DOLLARS ($10.) per ton, then the ten percent (10%) royalty would be figured on NINETY DOLLARS ($90.) per ton.

4. In case Buyers do not pay the minimum yearly royalty of FIFTEEN HUNDRED DOLLARS ($1,500.) on any due date as provided above or if Buyers shall fail to pay royalties on ore as above provided, this Contract shall then become null and void; whereupon any machinery, tools or non-permanent improvements made by Buyers on the property may be removed by Buyers in case they decide to abandon the property, but only after all royalty payments due at that time have been made.

5. This Contract shall remain in full force and effect so long as royalty payments are made by Buyers as above provided; and it shall terminate whenever Buyers shall fail to so pay these royalties, or, when the total of royalties paid to Seller shall equal the total purchase price of THIRTY THOUSAND DOLLARS ($30,000.)

6. Buyers shall have the right to pay, at any time during the life of this Contract, any balance due on the total purchase price of THIRTY THOUSAND DOLLARS ($30,000.)

7. So long as this Contract shall remain in force Buyers shall have the right to mine, remove and sell ore from the above listed claims.

8. Seller agrees that when the sum of the payments made by Buyers to Seller under this Contract shall equal the total purchase price; namely, THIRTY THOUSAND DOLLARS($30,000.) then Seller will immediately sign and deliver to Buyers whatever documents and take whatever actions as are required by law to transfer to and invest in Buyers the entire right, title and interest in and to the mining claims above listed, subject to any paramount interest of the United States Government.

9. It is mutually understood and agreed that Buyers shall order and pay for any and all necessary expenses involved in, the preparation and procurement of such documents and the carrying out of such actions; it being likewise specifically understood and agreed that if and when the Buyers elect to seek Letters Patent on the claims aforesaid that the Buyer shall pay all expenses involved in procurement of such Letters Patent.

J.E.C.

10. Seller agrees that he will during the life of this Contract file such yearly affidavits of work and do all other things required by law to maintain his rights in the mining claims above listed. If the Seller shall not file such affidavits promptly, Buyers may elect to do so.

11. It is mutually understood and agreed that so long as this Contract shall remain in force the Buyers will at their sole expense each year, perform or cause to be performed $100. worth of work or improvements on each of the claims above listed and in such manner as to fully meet such legal requirements of the United States Government as may govern "annual assessment work"; it being further understood and agreed that in case the Buyers do not chose to do this work or improvements in any given assessment year that the Buyers will so notify the Seller in writing at least sixty (60) days before the termination of that assessment year; namely, July first, and in case the Buyers fail to do or fail to cause such work or improvements to be done then this Contract shall be thereby terminated unless other mutually agreeable arrangements are made.

12. Seller acknowledges that R. F. Bacon is executing this Contract individually and also as agent and attorney-in-fact for C. X. Bacon who is unavailable for the signing of this Contract personally. Seller agrees that if C. X. Bacon should not be available or willing to proceed with the performance of this Contract within ninety (90) days from date then and in such event R. F. Bacon shall be the sole Buyer under this Contract and R. F. Bacon agrees that in such latter circumstances he will himself be liable for the full performance of every provision of this Contract on his own behalf.

J.E.O.

13. This Contract shall be binding in all respects upon the heirs, assignees and legal representatives of the parties hereto.

SIGNED IN TRIPLICATE

(Witness for John E. Osborne)	(John E. Osborne)	Date 4/29/53
(Witness for R. F. Bacon)	(R. F. Bacon)	Date
(Witness for C. X. Bacon)	(C. X. Bacon)	Date

MEMO IV.

This Tungsten property is located in White Pine County, Nevada, about 14 miles west of Garrison, Utah in a canyon known as Big Wash Canyon, and the claims involved are:

Big Wash No. 1 -	Recorded	in	Ely,	Nevada	-	Liber	No.	158	-	Page	355
Big Wash No. 2 -	"	"	"	"	-	"	"	158	-	"	356
Big Wash No. 3 -	"	"	"	"	-	"	"	158	-	"	357
Big Wash No. 4 -	"	"	"	"	-	"	"	158	-	"	358
Big Wash No. 5 -	"	"	"	"	-	"	"	158	-	"	359

The property is about 250 miles from Salt Lake and about 90 miles from Ely, almost all on paved roads.

Ref. No. 4 - (a-b-c) During World War I this property was worked by some people who drove a short tunnel, cobbed out the high grade ore and hauled it out on horseback. Nothing else had been done on the property until we took it over.

Easy access to the property is now provided by the Access Road built by the U.S. Government in the Spring of 1953 - and terminating at a log cabin on the property.

The ore on this property is a scheelite coming up in stringers through limestone from an acidic rock below. These stringers contain "spuds" of almost pure scheelite mixed in with ore of probably very low grade.

The mountainside above the log cabin is covered with a blanket of white limestone which extends up to the top of the mountain, a distance of perhaps 2,000 ft. Quartz stringers carrying the scheelite extend through this blanket at various points.

The main place where the old timers worked this deposit is some 900 ft. directly above the cabin. There is a small open cut here and a dump of possibly 500 tons. At other places there are smaller cuts - resulting from exploration done by us last summer. At all of these points the fluorescent lamp shows scheelite, especially in spud form.

From this main dump one can, at night (by lamping), follow the stringers all the way down to the U.S. Access Road, showing more or less continuous stringer veins.

At the time application was made for an Access Road it was believed that the dumps would justify shipping and that the stringers themselves were rich enough to justify a mining operation at that point. A large number of samples at both the dump and from the stringer "vein" had been taken and analyzed and it was believed (on the basis of those samples) that the dump might run at least 2% and that ore of the same grade or perhaps a little better could be mined from the stringer vein.

Further samples threw doubt on these figures. The spuds run 78- 79% WO3. An area a foot away from the spuds might run 1/10th of 1% WO3. It became evident that it was almost impossible to obtain a representative sample unless a very considerable tonnage should be taken, pulverized, quartered, etc.

The slope of the mountain is quite steep - perhaps 45° in places - so that if a mining operation were undertaken at the point where the old timers worked very considerable equipment would have to be installed to transport the ore down to the roadside area, adjacent to the cabin, where it could be sorted or handled in some other way.

A short distance up the mountain one can find a place where the limestone blanket overlies an acidic rock.

It is believed that these scheelite stringers come up from a point of contact between the limestone cover and the underlying acidic rock, and that at that contact there might be a considerable deposit of scheelite. Stringers are found at so many points in the surface of this limestone cover and the very richness of the spuds which they carry would seem to lend plausibility to this theory.

One way to test this theory would be to do diamond drilling. Another way would be to run a small tunnel through the limestone until it hit the point of contact between this limestone and the acidic rock underneath.

Tunneling seems to be clearly indicated in preference to diamond drilling - for these reasons: if at the point of contact the ore were still of a spud nature it would be found by the tunnel but could easily be missed in the small hole with a diamond drill. Furthermore, any ore found could be readily hauled out through the tunnel so as to be ready for shipment or other treatment. Hence, the tunnel could be used as a shipping means at least in the early days of the operation, assuming that commercial ore was found.

Several mining engineers have seen this property and all have expressed the opinion that there was a good chance of a rich ore body at the contact between the limestone and the acidic rock underneath.

Ref. No. 4d- Ore would be shipped by truck for processing at the custom mills in Salt Lake City (250 miles) and/or Toele Valley, Utah (approx. 100 miles).

Ref. No. 4e- A number of experienced local contractors have expressed desire to do the work and they have the mining equipment and tents, etc. needed for their crews. No new buildings except a few temporary sheds and loading stage for trucks are needed. // Needed water is available from Spring on property. // Power would be provided by portable unit in the early stages - later for extensive operation power line could be readily run from highway junction with Access Road (15 miles from mine site.)

MEMO V.

Ref. 5b - It is proposed to drive a small tunnel from a point on the Access Road to a point under the main workings from the old timers. Such a tunnel has already been started and a contract was let August 1953 for the first 200 ft. at $16. per linear foot. It is believed, however, that it may be necessary to contract as high as $20. per linear ft. for continuation of this tunneling. The limestone work is quite soft so that from 10 to 20 ft. can be driven daily.

Ref. 5c - The work would be started just as quickly as possible - within a few weeks after the granting of an "exploration project contract". It should be possible to complete the work by October 1954.

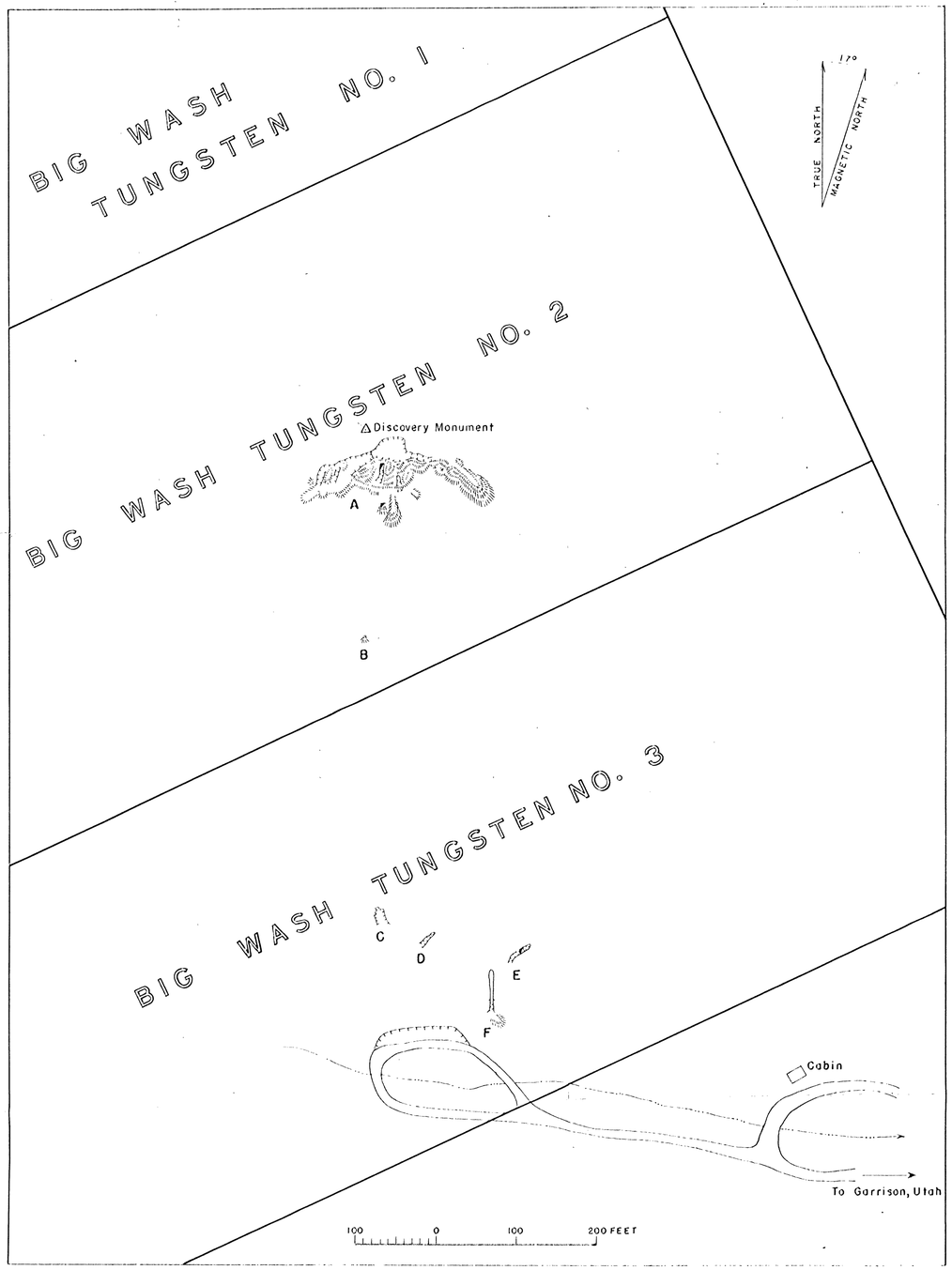
Ref. 6 - A loan of $20,000. is asked from the Government for this tunnel, and perhaps crosscuts at various points if necessary.

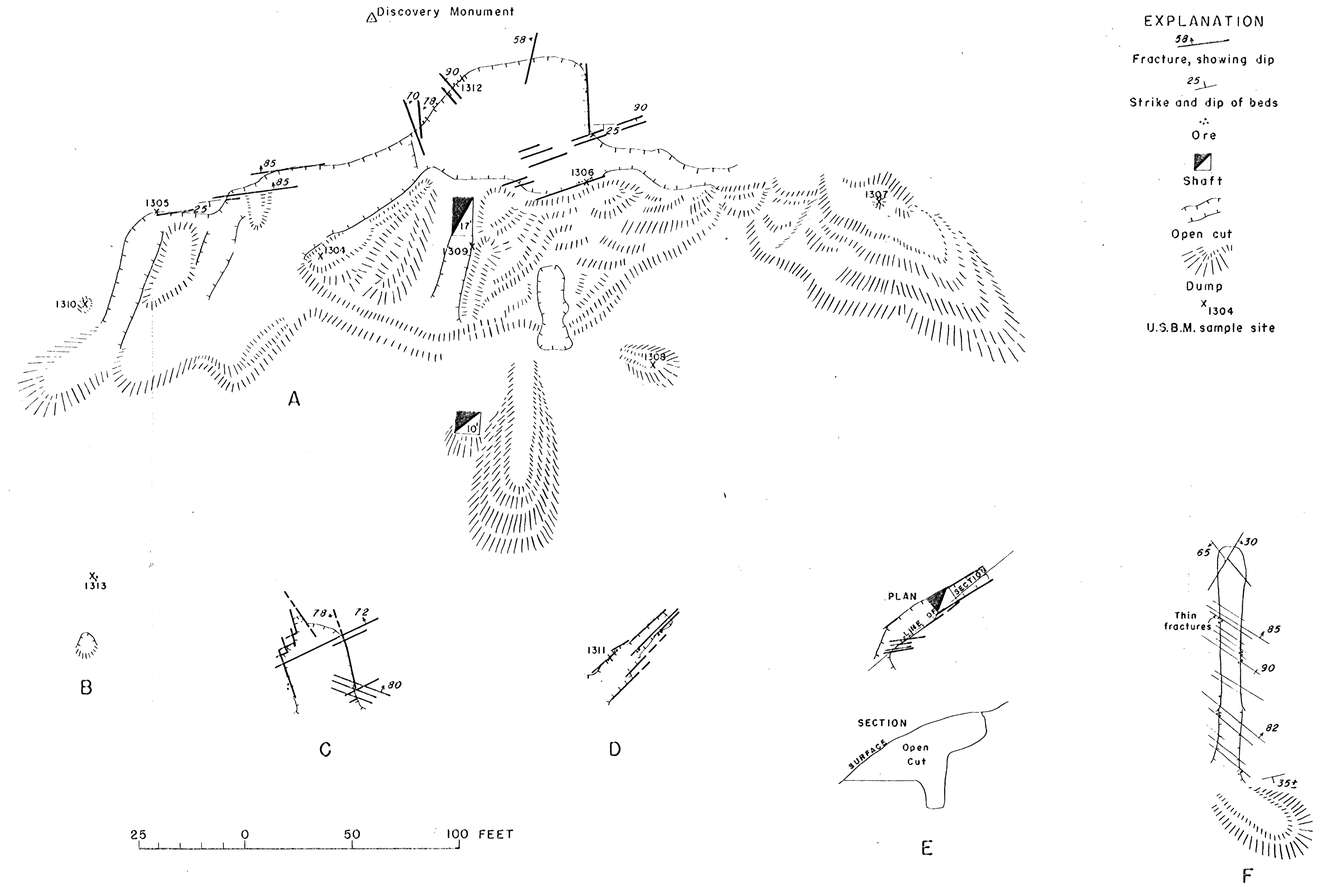
All work will be let out on contract. General supervision would be by R.F. Bacon and C.X. Bacon. None of the applicants intend to receive any salary from this project (either directly or indirectly) so long as any part of a Government Loan is unpaid. In addition applicants would expect to pay to the Government any and all net receipts from ore from this property - as they are acquired. Applicants would agree to the inclusion of these conditions as restrictions in the Government's Loan Contract.

Raymond F. Bacon, one of the partner applicants, while trained as a chemical engineer, has for the past ten years or more, has been consulting chemical engineer to the Texas Gulf Sulphur Company, largest miners of sulphur in the world; to the molybdenum Corporation of America, miners of molybdenum and rare earth oxides - and to the Mercantile Metal & Ore Corporation, which handle ores in many parts of the world. He has also been associated with J.B. Eldridge, Placerville, Idaho, and together they have opened up small lead workings on Sheep Mountain, Idaho from which about $300,000. gross value in lead ore has been taken over the last several years.

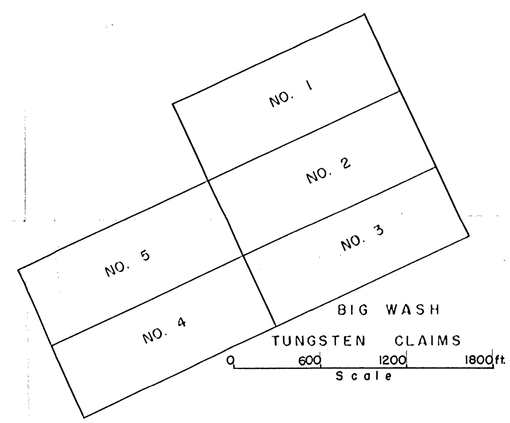
C.X. Bacon, one of the applicants, has had extensive experience as a prospector in the west, and also as an operator of placer dredgers. He has opened up certain small mining prospects.

No permanent buildings or installations will be necessary to do this exploratory work; only temporary buildings such as perhaps a trailer or tents will be necessary.





DETAIL OF WORKINGS



NO.	TYPE	% WO_3
1304	Dump	0.56
1305	Chip	6.75
1306	Chip	0.04
1307	Dump	0.09
1308	Dump	0.08
1309	Chip	0.33
1310	Dump	14.34
1311	Chip	0.04
1312	Chip	<0.01
1313	Chip	6.17

U.S. Bureau of Mines
Sample Data

Geologic Mapping by:
R.W. Osterstock
C.G. Tillman

FIG. 2

BIG WASH TUNGSTEN CLAIMS, WHITE PINE COUNTY, NEVADA