DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMEA ~~DMX~~ Docket No. 2622

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 PROJECT

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.

Routing Slip

To:	Code 700, Rm. 4640	Date	7-22-52
To:	Op Com	Date	7-30-52
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INT.-DUP. SEC., WASH., D.C. 98868

FILE COPY
SURNAME:
100

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

Ellis
Hedges
Fagan
Johnson

JUL 30 1952

Mr. Melvin M. Tilley
Lin-Ear Company
852 Laurel Street
San Carlos, California

Re: Docket No. DMEA-2622 (Uranium)
Tuolumne County, California

Dear Mr. Tilley:

Reference is made to your exploration project application dated June 20, 1952, in which you state, "This loan is requested to continue the prospecting work required to locate commercial deposits."

The program of exploration for strategic and critical minerals administered by the Defense Minerals Exploration Administration provides for financial assistance, on a matching basis, to bona-fide owners and lessees of mineral properties. It does not provide for prospecting on property not owned or otherwise controlled by the applicant. Your attention is directed specifically to items 1 and 2, page 1, of the enclosed pamphlet entitled, "The Defense Minerals Exploration Program." We regret to advise, therefore, that your application for financial aid must be denied.

If you control any property on which you have found definite indications of the presence of strategic or critical minerals, we shall be glad to consider an application for exploration assistance thereon.

Should you desire additional information, it is suggested that you address your inquiry to Mr. A. L. Miller, Executive Officer, Field Team, Region III, 1012 Flood Building, 870 Market Street, San Francisco 2, California.

Sincerely yours,

C. O. Mittendorf (for) J.N. 7-30-52

Acting Administrator

Enclosure

Ellis/gla/jem
7/28/52
cc to: Adm. Reading File
Docket
Messrs. H.D.Keiser-1347
A.P.Butler-3206 GSA
Ellis
Field Team, Region III (2)

STANDARD FORM NO. 64

7/28/52 gla

Office Memorandum • UNITED STATES GOVERNMENT

TO : Ernest Wm. Ellis, DMEA Member, Uranium Commodity Committee

DATE: July 25, 1952

FROM : Arthur P. Butler, Jr. USGS Member, Uranium Commodity Committee

SUBJECT: DMEA Docket 2622, Lin-Bar, San Carlos, California. Townships 4 and 5 North, Ranges 20 and 21 East, Tuolumne County, California.

The application identified above is for general prospecting assistance on public lands belonging to the United States. As the applicant does not have title to the land and as he does not submit a specific plan for exploration, I believe that review of the application for geologic favorability is irrelevant. I suggest that the inapplicability of this proposal be pointed out in terms similar to those expressed in the first three paragraphs of your letter of February 27 to Mr. James L. White, 1603 6th Street, Brownwood, Texas.

Arthur P. Butler, Jr.

Arthur P. Butler, Jr.

Attachment-DMEA Docket 2622

John:
Read you P.O.
Get this to
Mr. Mercer
Gracias

Noted AJK
7/30

Mr. Ellis.

Ernest Wm. Ellis, DMEA Member, Uranium
Commodity Committee

July 25, 1952

Arthur P. Butler, Jr. USGS Member, Uranium
Commodity Committee
DMEA Docket 2622, Lin-Bar, San Carlos, California. Townships 4 and 5 North, Ranges 20 and 21 East, Tuolumne County, California.

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/s/
Arthur P. Butler, Jr.

~~Attachment DMEA Docket 2622~~
~~Copy to Ernest Wm. Ellis~~

Copy to-Ernest Wm. Ellis

7/29/52 gla

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
LEGAL
JUL 28 1952

July 24, 1952

Memorandum

To: Ernest William Ellis, DMEA Member, Uranium Commodity Committee, Room 4070

From: H. D. Keiser, Bureau of Mines Member, Uranium Commodity Committee

Subject: DMEA docket No. 2622, Lin-Bar Company, 852 Laurel St., San Carlos, California

The application involved under the subject docket would appear to cover prospecting only. The question is therefore raised as to whether or not the application is eligible for consideration.

If the application is considered eligible for consideration, it would appear to be incomplete inasmuch as Form MF-100 was not included in the docket.

H. D. Keiser

Attachments

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

July 24, 1952

Memorandum

To: Ernest William Ellis, DMEA Member, Uranium Commodity Committee, Room 4070

From: H. D. Keiser, Bureau of Mines Member, Uranium Commodity Committee

Subject: DMEA docket No. 2622, Lin-Bar Company, 352 Laurel St., San Carlos, California

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H. D. Keiser

Attachments

EXPLORATION

Subject: DMEA-2622
Re: Exploration Loan
July 23, 1952

Mr. Melvin M. Tilley
Lin-Bar Company
852 Laurel Street
San Carlos, California

My dear Mr. Tilley:

This will acknowledge receipt of your application dated June 20, 1952, for a loan under the Defense Production Act of 1950.

Your application was assigned Docket Number DMEA-2622 and referred to the Rare and Miscellaneous Metals Division.

Kindly refer to DMEA-2622 in any future correspondence relating to your application.

Sincerely yours,

ROBERT E. ADAMS

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

7862

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

MF-103 Should Be Filed With General Technical Data Form MF-100

APPLICATION FOR AID FOR AN EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5, UNDER DEFENSE PRODUCTION ACT OF 1950

Not To Be Filled in by Applicant

Docket No. DMEA-2622
Metal or Mineral
Date Received 7-22-52
Amount $
Participation (Government %)

Name and address of applicant

Lin-Bar Company
852 Laurel St.,
San Carlos, Calif.

LYtell 3-3879

Date June 20,1952

If you have already filed MF-100, give date filed none filed, type of assistance requested financial, Loan

DMA Docket Number (if available)

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four copies each, of the signed application form, General Technical Data Form MF-100, and answers to questions as specified, to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive office thereof, with your name and address on each sheet of the application and all accompanying papers. If you have previously filed MF-100, it is not necessary to file it again. However, you should indicate in space provided above the type of assistance previously applied for (loans, procurement contracts, etc.) and DMA Docket Number, if available. *When a question is inapplicable it should be so stated in the form.* Additional sheets should be attached in answering any questions or in supplying additional information. IF YOU CANNOT ANSWER A QUESTION, SO STATE.

1. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property. R20E, T5N(Tuolumne Co.,Calif.)R20E,T4N;R21E,T4N,T5N.

   (*b*) If you are not the owner of the property, submit a copy of the lease, purchase option, or other agreements under which you are authorized to operate the property with each copy of your application. Public Lands

   (*c*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted. same as 1a.

   NOTE: (1) If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*c*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area.

   (2) If applicant is not the owner of the property or if there are any liens or encumbrances against the property, copy of agreements of claimants, lienors, encumbrances, and lessors subordinating their interests in the property to the interest of the Government under the Exploration Project Contract will be required for attachment to the Contract. Public Lands

2. (*a*) What metals or minerals do you expect to find? Uranium,primarily; also tungsten.

   (*b*) Furnish statement of the geologic features of your property, giving type of ore deposit and reasons for expecting to find commercial ore bodies. Illustrate with maps or sketches. If you have a geologic or engineering report, or assay maps showing width and grade, please send them with application, stating whether or not you wish to have them returned.

Have in possession ore samples verifying above minerals.

This loan is requested to continue the prospecting work required to located commercial deposits.

16—64067-2

DEPARTMENT OF THE INTERIOR
Reference

The information requested in questions 3, 4, 5, 6, 7, 8, and 9 below should be answered specifically and in detail, as this information will be attached to and incorporated as part of the Exploration Project Contract, if such contract is entered into with you by the Government.

ANSWER EACH QUESTION ON SEPARATE SHEETS OF PAPER AND SUBMIT A COPY OF EACH ANSWER FOR EACH COPY OF YOUR APPLICATION.

3. (*a*) Describe fully the proposed work and give the total cost of the project.

   (*b*) State the time required to start the project and to complete it.

4. Submit a map or sketch of the property involved showing a plan (and cross section, if needed) of the present mine workings and the *location of the proposed exploration work* as related to geologic features, such as contacts, veins, ore-bearing beds, etc.

5. Furnish an itemized list of existing facilities, buildings, installations, and fixtures with a statement of the cost of any necessary rehabilitation or repairs to put into useful and operable condition.

6. Furnish a detailed list of additional facilities, buildings, and fixtures to be purchased, installed, or erected by you, with the estimated cost of each item.

7. Furnish a detailed list of operating equipment, separated into items to be—

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

   with the rental, purchase price, or depreciation of each item, as the case may be, to be charged as a cost of the project.

8. Furnish an itemized schedule of labor, by numbers and classes (miners, muckers, etc.) and of supervisors by numbers and positions, with the maximum wages or salaries to be paid to each.

9. Furnish a detailed list with estimated cost of each item for materials, supplies, engineering, assaying, accounting, power, water, utilities, and any other items not provided for above.

10. (*a*) How much are you prepared to invest in the proposed project?

    (*b*) Is this amount sufficient to pay your part of the cost of the project, in accordance with the regulations on Government participation (Sec. 9 of MO–5)?

11. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

Lin-Bar Company
(Name of company)

By Melvin M. Tilley
(Signature of authorized official)

Melvin M. Tilley, Owner

June 20, 1952
(Date)

Owner (Title)

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—64067-2

QUESTION 3.(a)

The region is reached by pack animal, and horses, operated from a base point at Kennedy Meadows, Calif.

The proposed work consists of carefully prospecting the area where our samples were picked up in order to locate commercial deposits, if any. This is primarily instrument work, with excavation work where thought to be necessary.

The project is a continuation of work done this year in the area. Snow has prevented our operations on previous trips during this month of June. Two attempts have been made to work the area and considerable expense and effort have been put forth.

The earliest time the area appears to be accessible is July 7, and work is scheduled to begin at this time. Work can be continued for the remaining four months the area is accessible.

The maximum cost of the project is estimated to be $3000.00 .

3.(b)

The project will start July 7,1952, and should be completed within the following four months, or until snow limits operation, which might extend into the month November.

Time is of the essence when working in this arid region and we are able to start the project promptly because it is a continuation of our plans and activities in the area.

QUESTION 4.

Topographical map showing the area outlined in ~~red pencil~~ blue ink is attached to this sheet. This map shows the area in detail.

QUESTION 5

There are no existing facilities near the property. A cabin and horses are rented at Kennedy Meadows. Therefore there would be no rehabilitation expense.

QUESTION 6.

No buildings are planned at this time. This,however,does not mean that buildings won't be built should the need arise.

QUESTION 7.

a)Rental operating equipment:

1) Horses and pack animals at $4.50 ea./day, 2-5 required.

2) Cabin, or trailer, $7.50/day

b) Purchases:

1) Food and supplies, estimate $20.00 to $30.00/day

2) Any necessary working tools, est. $200.00 total.

3) Any items of clothing, sleeping bags, utensils, etc., necessary to operations in this severely cold area. Est. $250.00 total.

4) Assays of samples to guide operations, Estimate $250.00

c) Now owned and furnished by Lin-Bar Co.

1) Geiger counter $135.00

2) Radio metal locator $150.00

3) Ultraviolet prospecting light $35.00

4) Chemicals for field tests $15.00

5) Various mining tools, prospecting equipment, and items necessary to this type of work, est. $200.00 .

Depreciation of instruments to be charged against this project is based upon the useful life expectancy of the units.

However special purchases of supplies and equipment in addition to item (c) should be charged against this project and full depreciation allowed as a cost of the project.

QUESTION 8.

Following is a proposed labor schedule:

1) Supervisor director $30.00/day and found.
2) Helpers $20.00/day and found.
3) Survey parties for locating, charged at billing plus bookeeping charges. Estimate survey cost at $600.00 total.

QUESTION 9.

Other items not provided for above could include a provision for consulting mining engineer, and,or, Geologist. Estimate $500.00

QUESTION 10.

a) Lin-Bar Company is prepared to invest $200.00 in addition to previous expenditures. This is believed sufficient for awarding the loan requested by this application.

b) I believe the amount stated in question (10a)and considered with previous expenditures for equipment and field work, should be considered suffisient to cover Lin-Bar's part in the project in accordance with regulation (Section 9, of MO-5).

QUESTION 11 .

The property is extremely arid, and rugged, with the altitude varying from 7000 to 10,000 feet. Work is dangerous and slow, but ore can be handled in commercial quantities by pack animals, as is now being done in this vicinity. Pack animal trains can normally be obtained and the trip is short enough to lead us to believe it practical.

If sufficient desireable commercial ore is located, roads could be constructed. Particularly if the minerals were needed badly by our government.

Also heavy equipment has previously been brought into this area to construct a large reservoir for flood control, thus proving this area to be accessible to mining equipment and men.

The property lies in the Stanislaus National Forest, but not in a forested area. The property is largely barren.

The Lin-Bar Company has been engaged in prospecting for valuable minerals, particularly those classified as strategic, for approximately a year and a half. The find upon which this application is based should prove unusually interesting to our government.

Form MF-103
(Revised June 1951)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

MF-103 Should Be Filed With General Technical Data Form MF-100

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Not To Be Filled in by Applicant

Docket No. DMEA-2622
Metal or Mineral
Date Received 7-22-52
Amount $
Participation (Government %)

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852 Laurel St.,
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LYtell 3-3879

Name and address of applicant

Date June 20,1952

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DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.1.

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APPLICATION FOR AID FOR AN EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5, UNDER DEFENSE PRODUCTION ACT OF 1950

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Lin-Bar Company
852 Laurel St.,
San Carlos, Calif.

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Name and address of applicant

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DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
JUL 22 1952

2. (*a*) What metals or minerals do you expect to find? Uranium,primarily; also tungsten.

   (*b*) Furnish statement of the geologic features of your property, giving type of ore deposit and reasons for expecting to find commercial ore bodies. Illustrate with maps or sketches. If you have a geologic or engineering report, or assay maps showing width and grade, please send them with application, stating whether or not you wish to have them returned.
   Have in possession ore samples verifying above minerals.

16—64067-2

This loan is requested to continue the prospecting work required to located commercial deposits.

The information requested in questions 3, 4, 5, 6, 7, 8, and 9 below should be answered specifically and in detail, as this information will be attached to and incorporated as part of the Exploration Project Contract, if such contract is entered into with you by the Government.

ANSWER EACH QUESTION ON SEPARATE SHEETS OF PAPER AND SUBMIT A COPY OF EACH ANSWER FOR EACH COPY OF YOUR APPLICATION.

3. (*a*) Describe fully the proposed work and give the total cost of the project.

   (*b*) State the time required to start the project and to complete it.

4. Submit a map or sketch of the property involved showing a plan (and cross section, if needed) of the present mine workings and the *location of the proposed exploration work* as related to geologic features, such as contacts, veins, ore-bearing beds, etc.

5. Furnish an itemized list of existing facilities, buildings, installations, and fixtures with a statement of the cost of any necessary rehabilitation or repairs to put into useful and operable condition.

6. Furnish a detailed list of additional facilities, buildings, and fixtures to be purchased, installed, or erected by you, with the estimated cost of each item.

7. Furnish a detailed list of operating equipment, separated into items to be—

   (*a*) Rented

   (*b*) Purchased

   (*c*) Furnished by you

   with the rental, purchase price, or depreciation of each item, as the case may be, to be charged as a cost of the project.

8. Furnish an itemized schedule of labor, by numbers and classes (miners, muckers, etc.) and of supervisors by numbers and positions, with the maximum wages or salaries to be paid to each.

9. Furnish a detailed list with estimated cost of each item for materials, supplies, engineering, assaying, accounting, power, water, utilities, and any other items not provided for above.

10. (*a*) How much are you prepared to invest in the proposed project?

    (*b*) Is this amount sufficient to pay your part of the cost of the project, in accordance with the regulations on Government participation (Sec. 9 of MO–5)?

11. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

Tin-Car Company
(Name of company)

By Melvin M. Tilley
(Signature of authorized official)

Melvin M. Tilley, Owner

June 20, 1952
(Date)

Owner
(Title)

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—64067-2

QUESTION 3.(a)

The region is reached by pack animal, and horses, operated from a base point at Kennedy Meadows, Calif.

The proposed work consists of carefully prospecting the area where our samples were picked up in order to locate commercial deposits, if any. This is primarily instrument work, with excavation work where thought to be necessary.

The project is a continuation of work done this year in the area. Snow has prevented our operations on previous trips during this month of June. Two attempts have been made to work the area and considerable expense and effort have been put forth.

The earliest time the area appears to be accessible is July 7, and work is scheduled to begin at this time. Work can be continued for the remaining four months the area is accessible.

The maximum cost of the project is estimated to be $3000.00 .

3.(b)

The project will start July 7,1952, and should be completed within the following four months, or until snow limits operation, which might extend into the month November.

Time is of the essence when working in this arid region and we are able to start the project promptly because it is a continuation of our plans and activities in the area.

QUESTION 4.

Topographical map showing the area outlined in ~~red pencil~~ blue ink is attached to this sheet. This map shows the area in detail.

QUESTION 5

There are no existing facilities near the property. A cabin and horses are rented at Kennedy Meadows. Therefore there would be no rehabilitation expense.

QUESTION 6.

No buildings are planned at this time. This,however,does not mean that buildings won't be built should the need arise.

QUESTION 7.

a)Rental operating equipment:

1) Horses and pack animals at $4.50 ea./day, 2-5 required.
2) Cabin, or trailer, $7.50/day

b) Purchases:

1) Food and supplies, estimate $20.00 to $30.00/day
2) Any necessary working tools, est. $200.00 total.
3) Any items of clothing, sleeping bags, utensils, etc., necessary to operations in this severely cold area. Est. $250.00 total.
4) Assays of samples to guide operations, Estimate $250.00

c) Now owned and furnished by Lin-Bar Co.

1) Geiger counter $135.00
2) Radio metal locator $150.00
3) Ultraviolet prospecting light $35.00
4) Chemicals for field tests $15.00
5) Various mining tools, prosecting equipment, and Items necessary to this type of work, est. $200.00 .

Depreciation of instruments to be charged against this project is based upon the useful life expectancy of the units.

However special purchases of supplies and equipment in addition to item (c) should be charged against this project and full depreciation allowed as a cost of the project.

QUESTION 8.

Following is a proposed labor schedule:

1) Supervisor director $30.00/day and found.
2) Helpers $20.00/day and found.
3) Survey parties for locating, charged at billing plus bookeeping charges. Estimate survey cost at $600.00 total.

QUESTION 9.

Other items not provided for above could include a provision for consulting mining engineer, and/or, Geologist. Estimate $500.00

QUESTION 10.

a) Lin-Bar Company is prepared to invest $200.00 in addition to previous expenditures. This is believed sufficient for awarding the loan requested by this application.

b) I believe the amount stated in question (10a)and considered with previous expenditures for equipment and field work, should be considered sufficient to cover Lin-Bar's part in the project in accordance with regulation (Section 9, of MO-5).

QUESTION 11 .

The property is extremely arid, and rugged, with the altitude varying from 7000 to 10,000 feet. Work is dangerous and slow, but ore can be handled in commercial quantities by pack animals, as is now being done in this vicinity. Pack animal trains can normally be obtained and the trip is short enough to lead us to believe it practical.

If sufficient desireable commercial ore is located, roads could be constructed. Particularly if the minerals were needed badly by our government.

Also heavy equipment has previously been brought into this area to construct a large reservoir for flood control, thus proving this area to be accessible to mining equipment and men.

The property lies in the Stanislaus National Forest, but not in a forested area. The property is largely barren.

The Lin-Bar Company has been engaged in prospecting for valuable minerals, particularly those classified as strategic, for approximately a year and a half. The find upon which this application is based should prove unusually interesting to our government.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

1012 Flood Building
~~979 Market~~ Street
San Francisco 2, Calif.
OFFICIAL BUSINESS

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

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

FIRST CLASS

SAN FRANCISCO 2, CALIF.
JUL 18
8-PM

THE TOPOGRAPHIC MAPS OF THE UNITED STATES

The United States Geological Survey is making a series of standard topographic maps to cover the United States. This work has been in progress since 1882, and the published maps cover more than 47 percent of the country, exclusive of outlying possessions.

The maps are published on sheets that measure about 16½ by 20 inches. Under the general plan adopted the country is divided into quadrangles bounded by parallels of latitude and meridians of longitude. These quadrangles are mapped on different scales, the scale selected for each map being that which is best adapted to general use in the development of the country, and consequently, though the standard maps are of nearly uniform size, the areas that they represent are of different sizes. On the lower margin of each map are printed graphic scales showing distances in feet, meters, miles, and kilometers. In addition, the scale of the map is shown by a fraction expressing a fixed ratio between linear measurements on the map and corresponding distances on the ground. For example, the scale $\frac{1}{62,500}$ means that 1 unit on the map (such as 1 inch, 1 foot, or 1 meter) represents 62,500 of the same units on the earth's surface.

Although some areas are surveyed and some maps are compiled and published on special scales for special purposes, the standard topographic surveys and the resulting maps have for many years been of three types, differentiated as follows:

1. Surveys of areas in which there are problems of great public importance—relating, for example, to mineral development, irrigation, or reclamation of swamp areas—are made with sufficient detail to be used in the publication of maps on a scale of $\frac{1}{31,680}$ (1 inch = one-half mile) or $\frac{1}{14,400}$ (1 inch = 2,000 feet), with a contour interval of 1 to 100 feet, according to the relief of the particular area mapped.

2. Surveys of areas in which there are problems of average public importance, such as most of the basin of the Mississippi and its tributaries, are made with sufficient detail to be used in the publication of maps on a scale of $\frac{1}{62,500}$ (1 inch = nearly 1 mile), with a contour interval of 10 to 100 feet.

3. Surveys of areas in which the problems are of minor public importance, such as much of the mountain or desert region of Arizona or New Mexico, and the high mountain area of the northwest, are made with sufficient detail to be used in the publication of maps on a scale of $\frac{1}{125,000}$ (1 inch = nearly 2 miles) or $\frac{1}{250,000}$ (1 inch = nearly 4 miles), with a contour interval of 20 to 250 feet.

The aerial camera is now being used in mapping. From the information recorded on the photographs, planimetric maps, which show only drainage and culture, have been made for some areas in the United States. By the use of stereoscopic plotting apparatus, aerial photographs are utilized also in the making of the regular topographic maps, which show relief as well as drainage and culture.

A topographic survey of Alaska has been in progress since 1898, and nearly 44 percent of its area has now been mapped. About 15 percent of the Territory has been covered by maps on a scale of $\frac{1}{500,000}$ (1 inch = nearly 8 miles). For most of the remainder of the area surveyed the maps published are on a scale of $\frac{1}{250,000}$ (1 inch = nearly 4 miles). For some areas of particular economic importance, covering about 4,300 square miles, the maps published are on a scale of $\frac{1}{62,500}$ (1 inch = nearly 1 mile) or larger. In addition to the area covered by topographic maps, about 11,300 square miles of southeastern Alaska has been covered by planimetric maps on scales of $\frac{1}{125,000}$ and $\frac{1}{250,000}$.

The Hawaiian Islands have been surveyed, and the resulting maps are published on a scale of $\frac{1}{62,500}$.

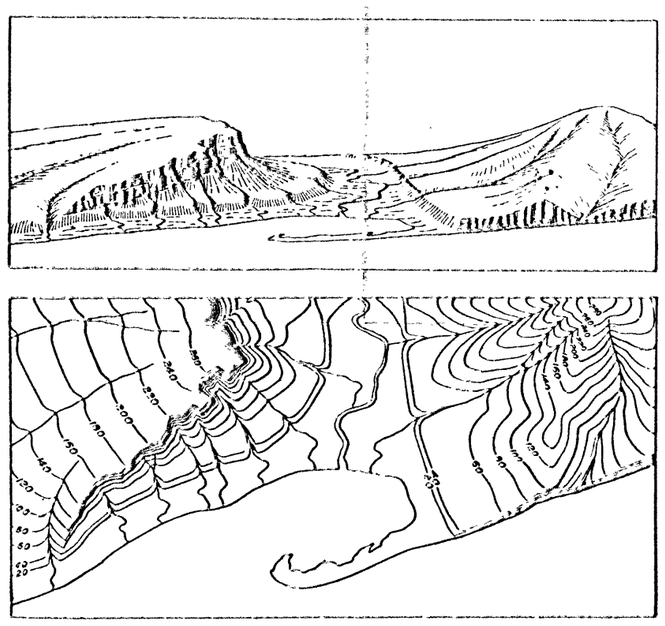
A survey of Puerto Rico is now in progress. The scale of the published maps is $\frac{1}{30,000}$.

The features shown on topographic maps may be arranged in three groups—(1) water, including seas, lakes, rivers, canals, swamps, and other bodies of water; (2) relief, including mountains, hills, valleys, and other features of the land surface; (3) culture (works of man), such as towns, cities, roads, railroads, and boundaries. The symbols used to represent these features are shown and explained below. Variations appear on some earlier maps, and additional features are represented on some special maps.

All the water features are represented in blue, the smaller streams and canals by single blue lines and the larger streams by double lines. The larger streams, lakes, and the sea are accentuated by blue water lining or blue tint. Intermittent streams—those whose beds are dry for a large part of the year—are shown by lines of blue dots and dashes.

Relief is shown by contour lines in brown, which on a few maps are supplemented by shading showing the effect of light thrown from the northwest across the area represented, for the purpose of giving the appearance of relief and thus aiding in the interpretation of the contour lines. A contour line represents an imaginary line on the ground (a contour) every part of which is at the same altitude above sea level. Such a line could be drawn at any altitude, but in practice only the contours at certain regular intervals of altitude are shown. The datum or zero of altitude of the Geological Survey maps is mean sea level. The 20-foot contour would be the shore line if the sea should rise 20 feet above mean sea level. Contour lines show the shape of the hills, mountains, and valleys, as well as their altitude. Successive contour lines that are far apart on the map indicate a gentle slope, lines that are close together indicate a steep slope, and lines that run together indicate a cliff.

The manner in which contour lines express altitude, form, and grade is shown in the figure below.



The sketch represents a river valley that lies between two hills. In the foreground is the sea, with a bay that is partly enclosed by a hooked sand bar. On each side of the valley is a terrace into which small streams have cut narrow gullies. The hill on the right has a rounded summit and gently sloping spurs separated by ravines. The spurs are truncated at their lower ends by a sea cliff. The hill at the left terminates abruptly at the valley in a steep scarp, from which it slopes gradually away and forms an inclined tableland that is traversed by a few shallow gullies. On the map each of these features is represented, directly beneath its position in the sketch, by contour lines.

The contour interval, or the vertical distance in feet between one contour and the next, is stated at the bottom of each map. This interval differs according to the topography of the area mapped: in a flat country it may be as small as 1 foot; in a mountainous region it may be as great as 250 feet. In order that the contours may be read more easily certain contour lines, every fourth or fifth, are made heavier than the others and are accompanied by figures showing altitude. The heights of many points—such as road intersections, summits, surfaces of lakes, and benchmarks—are also given on the map in figures, which show altitudes to the nearest foot only. More precise figures for the altitudes of benchmarks are given in the Geological Survey's bulletins on spirit leveling. The geodetic coordinates of triangulation and transit-traverse stations are also published in bulletins.

Lettering and the works of man are shown in black. Boundaries, such as those of a State, county, city, land grant, township, or reservation, are shown by continuous or broken lines of different kinds and weights. Public roads suitable for motor travel the greater part of the year are shown by solid double lines; poor public roads and private roads by dashed double lines; trails by dashed single lines. Additional public road classification if available is shown by red overprint.

Each quadrangle is designated by the name of a city, town, or prominent natural feature within it, and on the margins of the map are printed the names of adjoining quadrangles of which maps have been published. More than 4,100 quadrangles in the United States have been surveyed, and maps of them similar to the one on the other side of this sheet have been published.

Geologic maps of some of the areas shown on the topographic maps have been published in the form of folios. Each folio includes maps showing the topography, geology, underground structure, and mineral deposits of the area mapped, and several pages of descriptive text. The text explains the maps and describes the topographic and geologic features of the country and its mineral products. Two hundred twenty-five folios have been published.

Index maps of each State and of Alaska and Hawaii showing the areas covered by topographic maps and geologic folios published by the United States Geological Survey may be obtained free. Copies of the standard topographic maps may be obtained for 10 cents each; some special maps are sold at different prices. A discount of 40 percent is allowed on an order amounting to $5 or more at the retail price. The discount is allowed on an order for maps alone, either of one kind or in any assortment, or for maps together with geologic folios. The geologic folios are sold for 25 cents or more each, the price depending on the size of the folio. A circular describing the folios will be sent on request.

Applications for maps or folios should be accompanied by cash, draft, or money order (not postage stamps) and should be addressed to

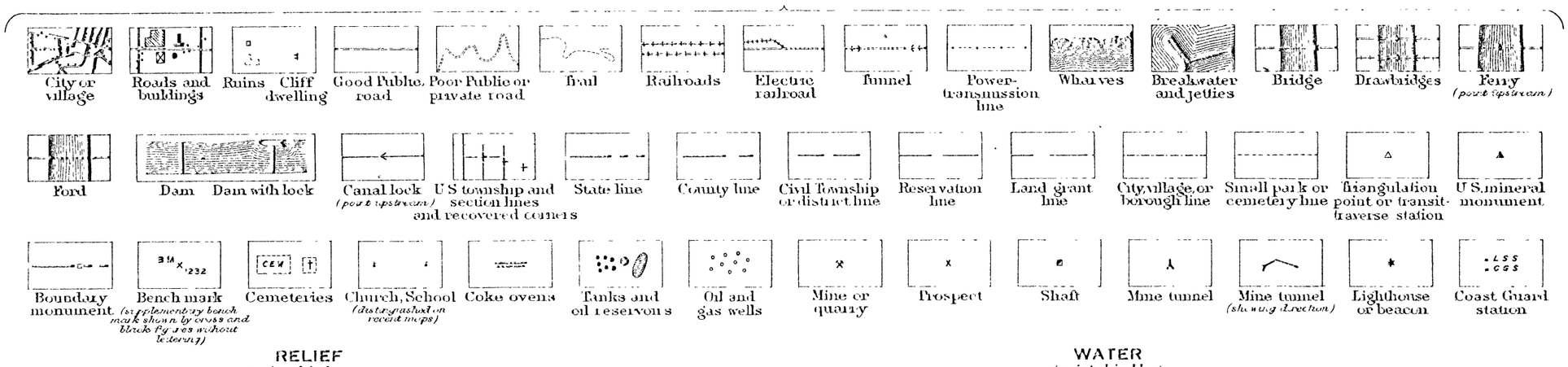
THE DIRECTOR,
United States Geological Survey,
Washington, D. C.

November 1937.

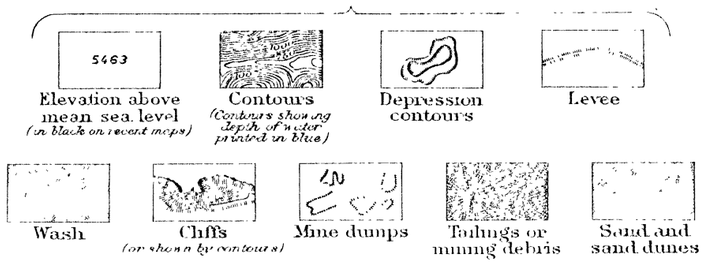
STANDARD SYMBOLS

NOTE:—Effective on and after October 1, 1916, the price of standard topographic quadrangle maps will be 20 cents each, with a discount of 20 percent on orders amounting to $10 or more at the retail rate.

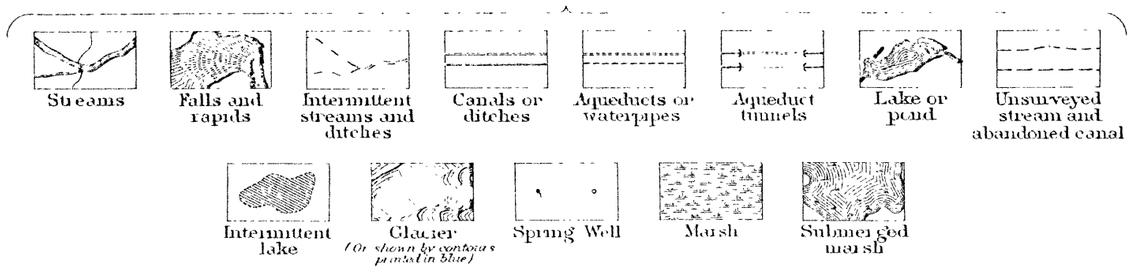
CULTURE
(printed in black)



RELIEF
(printed in brown)



WATER
(printed in blue)



WOODS
(when shown, printed in green)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

CALIFORNIA
DARDANELLES QUADRANGLE

R.U.Goode, Geographer in charge.
Triangulation by H.E.C.Feusier.
Topography by R.H.Mc Kee and R.B.Marshall.
Surveyed in 1891 and 1896.

Mc.K '91
Marshall '96

Scale $\frac{1}{125000}$

1 ½ 0 1 2 3 4 5 6 7 8 9 Miles

3000 1500 0 3000 6000 9000 12000 Yards

5000 0 5000 10000 15000 20000 25000 Feet

1 0 1 2 3 4 5 6 Kilometers

Contour interval 100 feet
Datum is mean sea level

Edition of May 1898, reprinted 1947
Polyconic projection.

To join Bridgeport and Mt.Lyell use dotted projection corners.

THE SKI HUT
1615 UNIVERSITY AVENUE
BERKELEY 3, CALIFORNIA

DARDANELLES, CALIF.
N3800-W11930/30