DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. DMEA-3193

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.

1cy to USBM, USGS, REGION, & Docket

Routing Slip

To:	500	Date	10-19-53
To:	500	Date	1/7/54
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DO NOT DETACH

CONTROLLED DOCUMENT

Griswold

500

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

FEB 17 1954

Mr. Heber Grant Ivins
Attorney-at-Law
Houston Building
American Fork, Utah

Re: Docket No. DMEA-3193 (Copper)
Vestalee Mining Company
Vestalee Mine
Elko County, Nevada

Dear Mr. Ivins:

As you have not replied to our letter of January 6, 1954, we assume that you do not wish to pursue the matter of your application for exploration assistance. Therefore, we will consider your application as withdrawn and will remove it from our active files.

We regret the necessity of this action; however, it is done without prejudice to your property.

Sincerely yours,

C. O. Mittendorf (fw)

Administrator

WRGriswold/bjl (2/17/54)

Copy to: Docket
Admr. R. File
Op. Committee
Base Metals
Mr. Kinkel
Mr. Bishop
Region III (2)
Chron.

R.C.B. 2-17-54

FILE COPY 500
SURNAME:

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

JAN 6 1954

Mr. Heber Grant Ivins
Attorney-at-Law
Houston Building
American Fork, Utah

Re: Docket No. DMA 3193 (Conner)
Vestalee Mining Company
Vestalee Mine
Elko County, Nevada

Dear Mr. Ivins:

We have not heard from you regarding the above application since your letter of November 18, 1953, in which you stated that you would forward additional sampling results to us.

The data submitted with your letter of November 18 cannot be considered as adequate. We again call your attention to our letter to your company, dated October 28, 1953, in which we outlined information which would be necessary for us to make an initial evaluation of your project.

If we do not receive such information within the next thirty days, your application will be considered as being withdrawn, and will be placed on the inactive list.

Sincerely yours,

SIGNED
W. R. Griswold, Chief
Base Metals Division

WRGriswold/hmj
(1/6/54)
CC to: Docket
Adm. R. File
Op. Committee
Base Metals Div.
Region III (2)
Mr. Kinkel
Mr. Bishop
Chron.

1-6-54

HEBER GRANT IVINS
Attorney-at-Law
HOUSTON BUILDING
AMERICAN FORK, UTAH
PHONE 577

Griswold
Betty

November 18, 1953

U. S. Department of Interior
DMEA
Washington 25, D. C.

Re: Docket #DMEA3193 (copper) Vestalee Mining Co, Vestalee Mine, Elko County, Nevada.

Dear Mr. Griswold:

Enclosed you will find Assay sheets and a map of the property in question showing the location of the samples taken and represented by the assays.

We have additional samples assayed for uranium and I will forward these results upon receiving them.

Very truly yours,

Heber Grant Ivins

Heber Grant Ivins

HGI:mhp
Enclosures

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 23 1953

TELEPHONE 3-3302

Band Sample Serial 80111-16

Department of the Interior
Mines Administration
RECEIVED
NOV 23 1953

ASSAY REPORT

UNION ASSAY OFFICE, Inc.

J. V. SADLER, President
A. C. SELBY, Vice-Pres. & Treas.
A. C. SELBY, JR., Secretary

Salt Lake City 10, Utah

Mine Lee W. Southam

RESULTS PER TON OF 2000 POUNDS

Nov. 11, 1953

NO.	GOLD Ozs. per Ton	SILVER Ozs. per Ton	LEAD Per Cent Wet	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent	Per Cent	VALUE GOLD
No.1 A Mispah P	Trace	0.1	None									
No.3 A Melles	0.010	8.0		13.45								
No.3 B Melles	0.010	2.9		15.48								
No.4 A Melles	0.100	5.1		6.37								
No.5 A Melles	0.070	1.8		6.57								
No.8 A Rubyelane	Trace	0.7		2.93								

Remarks

Charges $12.00 Paid

FILE COPY
SURNAME: MDB

500

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

NOV 13 1953

Mr. Heber Grant Ivins
Houston Building
American Fork, Utah

Re: Docket No. [illegible] 3193 (Copper)
Vestalee Mining Company
Vestalee Mine
Elko County, Nevada

Dear Mr. Ivins:

We have your letter of November 5, 1953, in which you request that a Government field engineer visit your property to advise you regarding a specific project and a site for exploration work.

As indicated in our letter of October 28, before this can be done, it is necessary that you submit more specific and detailed information (as outlined in our letter) regarding the property in question. When such data has been received it will be evaluated, and if it appears that there exists a possibility of it falling within the category of projects upon which the Government may participate, a field examination would then be arranged.

Sincerely yours,

W. R. Griswold

W. R. Griswold, Chief
Base Metals Division

WRGriswold/hmj (11-13-53)
CC to: Docket
Adm. R. File
Op. Committee
Region III
Mr. Kinkel
Mr. Bishop
Base Metals Div.
Chron.

R.C.B.
11-13-53

Vestalee Mining Corporation

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 9 1953

Corporation President
Lee W. Southam
Spanish Fork, Utah
Phone 515

Vice President
J. B. Willis
Helper, Utah

Heber Grant Ivins
Houston Building
American Fork, Utah

Geneva Finance Building
American Fork, Utah — Telephone 577

Resident Agent
Ralph Denton
Court House
Elko, Nevada
Phone 2

November 5, 1953

W. R. Griswold
Chief Base Metals Division
Defense Minerals Exploration Administration
Washington 25, D. C.

Re: Docket #DMA3193

Dear Mr. Griswold:

In reply to your recent letter regarding the above application I am writing to determing if some assistance could be given by your local office by way of visiting the property in question and perhaps giving us some advise regarding a specific project and the site of exploration development.

It was my understanding that government engineers would visit the property at such time as the application was processed.

I would appreciate hearing from you regarding this matter.

Very truly yours,

Heber Grant Ivins

Heber Grant Ivins

HGI:mhp
CC: Leland Southam
Spanish Fork, Utah

FILE COPY
SURNAME: 500

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

N.S. in R.R.

October 28, 1953

Mr. Lee W. Southam, President
Vestalee Mining Company
Geneva Finance Building
American Fork, Utah

Re: Docket No. DMA 3193 (Copper)
Vestalee Mine
Elko County, Nevada

Dear Mr. Southam:

We have your application dated October 5, 1952, for Government assistance in an exploration project for copper, uranium and tungsten ores on the Vestalee mine. We note that you state that the "equipment, timber, and building material on the property will equal more than 10 per cent of the amount requested in Application."

In exploration projects for copper ores, when approved for Government participation, the Government participates only to the extent of 50 per cent of the project costs, with an equivalent 50 per cent being provided by the Applicant.

Before consideration could be given to your application it would be necessary for you to furnish us with more specific and detailed information. The tunnel, shafts, shallow shafts and cuts which you state exist upon the property should be systematically sampled and assayed and the results forwarded to us for consideration, with all assay widths and values properly indicated on assay maps. We should also be advised as to whether all such workings are cleaned out and available for field examination.

You should also present a specific proposal covering the planned work of exploration.

Sincerely yours,

W. R. Griswold

W. R. Griswold, Chief
Base Metals Division

WRGriswold/hmj
(10-28-53)
CC to: Docket
Adm. R. File
Mr. Newcomb (USGS)
Mr. Chas. Johnson (USBM)
Chron.

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

October 27, 1953

Memorandum

To: W. R. Griswold, DMEA

From: C. H. Johnson, Bureau of Mines

Subject: DMEA-3193 (Copper), Vestalee Mining Company, Vestalee mine, Elko County, Nevada

The above-named application has been reviewed by Mr. Olund and myself, and we are of the opinion that the applicant has not submitted sufficient information to warrant a referral to the field for field examination. The applicant should have submitted whatever sampling information is available to indicate that a worthwhile prospect exists and a specific proposal for exploration work.

The application was returned to you yesterday by hand.

C. H. Johnson
C. H. Johnson

Copy to - Mr. Kinkel, GSA, B-242-A
Minerals Division
C. H. Johnson
Files

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

October 27, 1953

Memorandum

To: W. R. Griswold, DMEA

From: C. H. Johnson, Bureau of Mines

Subject: DMEA-3193 (Copper), Vestalee Mining Company, Vestalee mine, Elko County, Nevada

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C. H. Johnson

CHJohnson:ks

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Minerals Division
C. H. Johnson
Files

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

October 27, 1953

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C. H. Johnson

C. H. Johnson

CHJohnson:ks

Copy to - Mr. Kinkel, OSA, B-242-A
Minerals Division
C. H. Johnson
Files

IN REPLY REFER TO:

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

October 21, 1953

Memorandum

To: Mr. W. R. Griswold

From: E. L. Newcomb

Subject: Review of application

Re: DMEA-3193
Vestalee Claims
Mizpah District
Elko County, Nevada
$84,900
Copper, uranium, tungsten

The applicant requests assistance to drive a 3,000-foot crosscut adit which will explore a series of parallel mineralized veins. The objective of this work is to test for copper, uranium, and tungsten mineralization.

The old workings consist of a 500-foot tunnel and two 40-50-foot shafts that are on the same trend as the proposed work. It is not stated whether these workings are accessible. Since the property has not been worked for many years, there is a good possibility that the old workings are inaccessible. There is no record of reported production from the applicant's property.

Though the application stresses the significance of copper mineralization on the Vestalee claims, it is apparent from the answer to question 7 that the applicant expects 90 percent Government participation.

We have no available geological information on the property. However, the present application data do not justify a field referral.

Before final consideration is given to this application, I recommend the applicant be requested to submit assay certificates and further information about the accessibility of the old workings. Also, it should be explained to him that copper exploration is limited to 50 percent Government participation. If any new data is of significant value, the application might then be considered for referral to the field team.

E. L. Newcomb

E. L. Newcomb
Geologist

IN REPLY REFER TO:

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

October 21, 1953

Memorandum

To: Mr. W. R. Griswold

From: E. L. Newcomb

Subject: Review of application

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Mizpah District
Elko County, Nevada
$84,900
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E. L. Newcomb
Geologist

IN REPLY REFER TO:

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

October 21, 1953

Memorandum

To: Mr. W. R. Griswold

From: R. L. Newcomb

Subject: Review of application

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Mizpah District
Elko County, Nevada
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Copper, uranium, tungsten

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R. L. Newcomb
Geologist

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

October 19, 1953

Memorandum

To: Executive Officer, DMEA Field Team, Region III

From: Chief, Operation's Control and Statistics Division

Subject: Assignment of Docket Number DMEA-3193

There is listed below the assigned docket number to an application recently received from Region III.

DMEA -3193 Vestalee Mine

ROBERT E. ADAMS

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

Vestalee Mining Co. a Corp. of the
State of Nevada
Geneva Finance Building
American Fork, Utah

October 19, 1953
Subject: DMEA-3193
Re: Exploration Assistance
Vestalee Mine

Dear Sirs:

The receipt of your application dated October 5, 1953, for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-3193 and referred to the Base Metals Division.

Kindly refer to DMEA-3193 in any future correspondence relating to your application.

Sincerely yours,

ROBERT E. ADAMS
Robert E. Adams
Chief, Operations Control
and Statistics Division

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

RECEIVED

1012 Flood Building
870 Market Street
San Francisco 2, Calif.

October 14, 1953

Memorandum

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

From: Executive Officer, DMEA Field Team, Region III

Subject: Loan Application Forms MF-103 - Copper, Uranium and Tungsten
Vestalee Mining Corporation
Geneva Finance Building
American Fork, Utah

Attached are three sets of MF-103 forms received in our mail today from the Vestalee Mining Corporation, making application for a loan totaling $187,656.00. The fourth set has been retained for our records.

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

Attachment

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

1012 Flood Building
870 Market Street
San Francisco 2, Calif.

October 14, 1953

Memorandum

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

From: Executive Officer, DMEA Field Team, Region III

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Geneva Finance Building
American Fork, Utah

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

Attachment

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 19 1953

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. DMEA-3193
Metal or Mineral
Date Received 10-19-53
Estimated Cost
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: Vestalee Mining Company, a Corporation of the State of Nevada

(See Sheet No.1 for rest of information)

(*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 This property is approximately 2 miles in a northerly direction from the Victoria Mine of the Anaconda Mining Co. on the same dyke. It is in the Mizpah Mining District near the old town of the mining Camp Mizpah.

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

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise owner by right of location

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

(*e*) If you own the land, describe any liens or encumbrances on it none.

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. (See Sheet No.2)

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 Sheet No.3)

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades. (See Sh eet No.4)

(*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. (See Sheet No.5)

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points.
(See Sheet No.6 under (d)

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power.
(See Sheet No.6 under (e)

16—66551-1

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

(*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. See Sheet No.7 under (b).

(*c*) The work will start within 60 days and be completed within 16 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 (See Sheet No.8 under 5 (d)

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.) Might contract some work such as hauling ore but not sure yet.

(*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. (See Sheet No.9 under (b)

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel. (See Sheet No.9 under (c)).

(*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. See Sheet No.10 under (d).

(*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. None.

(*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 See Sheet #11

(*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. (See Sheet No.11 under (g).

(*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. (See Sheet No.11 under (h).

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?

☐ Money ☒ Use of equipment and timber owned by you ☐ Other on property

Explain in detail on acompanying paper. Equipment, timber and building material will equal more than 10% of amount requested in application.

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 Oct. 5-54, 1953

Vestaloe Mining Co.
(Applicant)

By Lee W. Southdown

T. B. Dillig - Vice President

Helen Grau Fries - Sec. & Treas.

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

DEPARTMENT OF THE INTERIOR
Bureau of Mines Administration
RECEIVED
OCT 10 1950

TOTAL EXPENSES

4. (d)

Repair road	$6 000.00
Labor - salaries	80 920.00
Operating materials & supplies.	561.00
Power, water, fuel	9 600.00
Operating equipment	42 450.00
Buildings	19 745.00
Miscellaneous	14 700.00
Contingencies	13 680.00
Total expenditures..	$187 656.00

1. (c)

NAMES OF OFFICERS	TITLES	ADDRESSES
Lee W. Southam	President	890 N. 1 W., Spanish Fork, Utah
J. B. Willis	Vice-President	Helper, Utah
Heber Grant Ivins	Sec'y-Treas.	American Fork, Utah

DIRECTORS

Lee W. Southam	See above for addresses.
J. B. Willis	
Heber Grant Ivins	

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

NAMES OF CLAIMS	WHERE RECORDED BOOK	WHERE RECORDED PAGE
Melles Mining Claim No.1	30	449
Melles Mining Claim No.2	30	473
Melles Mining Claim No.3	30	450
Melles Mining Claim No.4	30	451
Melles Mining Claim No.5	30	452
Melles Mining Claim No.6	30	453
Melles Mining Claim No.7	30	505
Melles Mining Claim No.8	30	454
Melles Mining Claim No.9	30	455
Melles Mining Claim No.10	30	506
Melles Mining Claim No.11	30	456
Melles Mining Claim No.12	30	504
Melles Mining Claim No.13	30	457
Rubyelane Mining Claim No.1	30	401
Rubyelane Mining Claim No.2	30	402
Rubyelane Mining Claim No.3	30	444
Rubyelane Mining Claim No.4	30	445
Rubyelane Mining Claim No.5	30	403
Rubyelane Mining Claim No.6	30	404
Rubyelane Mining Claim No.7	30	446
Rubyelane Mining Claim No.8	30	447
Rubyelane Mining Claim No.9	30	448
Judylynn Mining Claim No.1	30	405
Judylynn Mining Claim No.2	30	406
Judylynn Mining Claim No.3	30	407
Judylynn Mining Claim No.4	30	408

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.

1 tunnel in a distance of 500 ft.
1 Shaft in a distance of 50 feet.
1 Shaft in a distance of 40 feet.

A number of shallow shafts and cuts with satisfactory showing.

There has been no production or ore shipped from said property that we know of.

The above workings were mostly all run before we obtained the property.

You can drive a passenger car right onto said property and it is very accessible for examination purposes.

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

undeveloped ground.

There are old shallow workings on said property. However, they were all opened up and worked around 1900. They were for the express purpose of finding gold and silver, say the old timers who remember back to the time and place, Mizpah, Nevada.

5. (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.

GEOLOGIC FEATURES

The geologic features are of the sedimentary and crystalline formations consisting of andesite, granite, porphyry, monzonite, quartz, lime, shale, schist, all highly mineralized. Veins and ore deposits are of the true fissure type; for illustration- a man's fingers, pointing upward, represent these true fissure veins all joined to the great ore body indicated below.

See copy of Engineer's Report enclosed.

See geologic report of Dollyvarden, Nevada.

REASONS FOR WISHING TO EXPLORE

The Anaconda Mining Co. have proven beyond a doubt that this great dyke will be one of the great copper producers of America, by exploration, diamond drilling,tunnel work, shaft work, etc.

This property joins near the Anaconda property on the same dyke.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 19 1953

C O P Y

REPORT ON THE VESTALEE GROUP OF MINING CLAIMS

The Vestalee Group of mining claims is located in the Antelope Range, Mizpah Mining District, about seven miles East of the Mizpah Siding of the Nevada Northern Railway, Elko County, Nevada.

This group of mining claims is joined together and forms one group and consists of the following named mining claims: Melles Mining Claims Nos.1-2-3-4-5-6-7-8-9-10-11-12 and 13; Rubyelane Mining claims Nos. 1-2-3-4-5-6-7-8-9 and Judylynn Mining Claims Nos. 1-2-3-4, making a total of twenty-six mining claims in all.

The Locators of the Vestalee Group are Lee W. Southam, J.B. Willis, Floyd Brotherson, Henry Seeley, L. W. Robison, Don Shepherd and Joe Eaquinta.

All necessary location and discovery work has been done on these claims and the notices of location have been duly recorded.

The Vestalee Group of mining claims occupies a very choice place on the great mineralized dyke that runs through the Antelope Range. It can be easily traced for a distance of seven to ten miles.

This is one of the greatest mineralized dykes in the State of Nevada. The course of this great dyke is Northerly and Southerly, and it is several thousand feet in width. It consists of the sedimentary and crystalline formations and is of the old geologic structure of andesite, rhyolite and monzonite, quartzite,porphyry, shale and schist, with intrusions of quartz of the metamorphic type, which is very highly mineralized, carrying about the right amount of iron with some copper and other metals, also about the right sprinkle of lime with metamorphic characteristics. A better formation for a good producer is not found, and joining on the Easterly side is the Madison Lime which is well mineralized, also.

The stratigraphy is placed, formed and faulted so as to warrant a very great mineral structure and has all the qualities to make a great metal producer. However, the andesite formation I will term the surface structure. The surface structure will be very specifically underlying by monzonite and quartz. This formation will carry copper of a good grade, as there are many true fissure veins, carrying a good grade of copper and some gold and silver. However, these later metals are small on the surface, but I would expect them to increase as the property is developed. When developed this property will also carry tungsten, titanium and uranium. These metals will all be a great asset to this group of claims.

As these true fissure veins come together and at water level this property will be one of the great mining properties of the State of Nevada. There is the presence of tungsten and uranium on the property now, also copper and titanium. As development work is

carried on these metals will increase and continue. Many shallow holes have been sunk on this property. Nearly every test hole has a showing entirely satisfactory. One tunnel is in a distance of about five hundred feet, and within the next three hundred feet will cut the mineralized zone, a nice vein that shows on the surface, which carries some valuable metal assets, mostly copper. However, this said tunnel has been run mostly through a slip or kickout of the surface formation. There are other showings both above this tunnel level, also below said tunnel level. These showings are very interesting and urgently warrant exploration. There are many other very interesting aspects pertaining to this property.

A geologic study by one who understands the metamorphic conditions and metal bearing structure can easily recognize the great possibilities underlying the Vestalee Group of Mining Claims. They warrant exploration and intelligent development work.

As this work progresses the above statement will be fully realized, and no doubt this property will develop to a status and be recognized as one of the great metal producers of the State. All work so far has been carried on with the major goal in view.

There is at present about sufficient equipment on the ground to carry the necessary development work to a succesful stage. Equipment, consisting of a very good portable air compressor, with a reasonable supply of drill steel, pipe, air hose, and steel rail, a good power wench, good pumping equipment, two good trucks and a good supply of timber on hand. Mr. Lee Southam has timber concessions so that a sufficient supply of the necessary mining timber can be obtained.

The required development work on this said group of mining claims is being carried on in a good minerlike fashion and impresses one that the businesslike manner in which the work is being done to get the property to a producing stage as soon as possible is the major motive in view.

It will be necessary to construct some needed camp buildings for the comfort of the workmen and to develop for culinary purposes, the water of a spring near by.

This property is a distance of about fifty miles from the smelter at McGill. There is a good surface highway from McGill to the village of Currie. From Currie to the property is a distance of about nine miles. This piece of road is poor but passable, and it can be repaired quite reasonably. A gravel surface of several miles would put this road in good condition.

This group of claims, with all appurtenances, and having such a fine geologic structure, seems a good setup and don't overlook this one fact - this property can be made a good producer of valuable minerals.

The Owners of the Vestalee Group of Mining Claims seem to have the understanding, determination and knowhow to push this work to the production stage.

Dated this 12th day of Aug. A.D. 1953.

Respectfully submitted,

Earl J. Clinger, M.E.

4. (d) State the facts with respect to the accessibility of the project; Access roads, distance to shipping, supply and residence points.

From said mining property to the village of Currie it is a distance of 9 miles. This road can be repaired and put in good condition for the sum of $6 000.00

From Currie to McGill and the smelter on Highway 93, it is a distance of about 65 miles.

From the property to Salt Lake City, Utah it is approximately 225 miles.

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

Manpower available.

Material, supplies and equipment can be obtained from Salt Lake.

Spring for culinary purposes can be fixed up for ..... $ 300.00

Will have to use diesel power.

5. THE EXPLORATION PROJECT.

(a) State the mineral or minerals for which you wish to explore.

Copper, Uranium, Tungsten.

(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 workings, and the location of the proposed exploration work as related to such features as contacts, veins, ore-bearing beds, etc.

See the attached map of claims showing proposed tunnel. Proposed tunnel approximately 3000 ft. This tunnel will cut several veins of good copper ore. Cost $30.00 per foot.

The attached map also shows the present workings.

5. (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.

Mr. Lee Southam for years has been a supervisor or foreman over men and knows how to get along with men, get things done and has executive and business ability. He has been running a very successfull timber business. He at one time was a foreman at the Bingham Canyon Mine of the Utah Copper Co.

Mr. Earl J. Clinger is a life long mining engineer. Has worked in the mining business for at least forty years, acting as Superintendent, Foreman, Mining Engineer and directing the development of mines and the handling of all types of mining machinery. He hasmade geological reports for mining companies.

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:

(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.

	DAY WAGE	MONTHLY WAGE	TOTAL
1 Engineer		550.00	
1 Supervisor		550.00	
Geological consultants			2 000.00
1 Mechanic		450.00	
3 Miners	$15.	$300. 900.00	
6 Miners' Helpers	14.	280 1 680.00	
1 Carpenter	18.	360.00	
2 Carpenter's Helpers	12.	240. 480.00	
1 Utility man for equipment		400.00	
2 Truck Drivers	16.	320. 640.00	
1 Bookkeeper		400.00	
1 Secy-Treas. and legal advisor			2 000.00
Monthly wages ...		$6 410.00	
12 months wages..			76 920.00
Grand Total			$80,920.00

(c) Operating materials and supplies. Furnish an itemized list including items of equipment costing less than $50.00 each, and power, water and fuel.

24 picks and 24 shovels	@	$3.25	$ 156.00	
6 saws	@	6.00	36.00	
10 Kegs Nails	@	19.00	190.00	
2 Steel Squares	@	5.00	10.00	
6 Miner's lamps	@	2.50	15.00	
500# Carbide	@	15.00 per 100#	75.00	
1 Anvil			44.00	
2 Hammers	@	5.00	10.00	
1 Forge			25.00	
		Total	561.00	561.00

Power-Diesel Electric	4 500.00	
Diesel -$25.00 per mo. 12 months	300.00	
Gasoline $250.00 per mo. 12 months	3 000.00	
Water-From Spring to be developed for culinary purposes... cost	300.00	
Fuel -Coal- 3 cars at $500.00 per car	1 500.00	
Total	$9 600.00	9 600.00

6. (d) 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.

1 Bulldozer	$12 000.00	
1 Dump Truck Approximately	6 000.00	
1 Semi-Truck and trailer "	6 000.00	
1 Acetylane Welding Equipment	150.00	
1 Portable Arc Welder	1 000.00	
1 Air Compressor	4 000.00	
1 2-Machine Jumbo	3 500.00	
L Emco mucking machine	4 000.00	
Rail	1 000.00	
4 Mine Cars @ $150. each	600.00	
3 Jack Hammers @ $400. each	1 200.00	
Drill Steel and Bits.	3 000.00	
Total....	42 450.00	$42 450.00

Note: Miscellaneous equipment consisting of one power hoist, 2 water pumps, together with timber worth approximately $12,000.00 is on the property.

6. (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.

1 Cook House 18' x 38'	.....	$ 3 500.00	
2 Bunk Houses 18' x 32'	.....	6 250.00	
1 Office Bldg. 16' x 36'	.....	3 250.00	
1 Supply House 14' x 16'	.....	1 875.00	
1 Powder House 8' x 10'	.....	1 120.00	
1 Mens' Change Room 12' x 14'	.....	1 625.00	
1 Shop 16' x 18'	.....	2 125.00	
	Total	$19 745.00	$19 745.00

(g) Miscellaneous.

Maintenance of Operating Equipment	.....	6 000.00	
Analytical work		1 600.00	
Accounting and office supplies	.....	2 000.00	
Workmens'compensation,employers'Liability Insurance and Payroll taxes		5 100.00	
	Total.....	$14 700.00	14 700.00

(h) Contingencies.

22 Beds and mattresses @ 30.00 each	...	660.00	
6 Space Heaters @ 20.00 each	...	120.00	
2 Ranges at 75.00 each	...	150.00	
Dishes and Utensils	...	250.00	
Taxes		10 000.00	
Other contingencies	...	2 500.00	
	Total	$13 680.00	13 680.00

MR-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 19 1953

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. DMEA-3193
Metal or Mineral
Date Received 10-19-53
Estimated Cost
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: Vestalee Mining Company, a Corporation of the State of Nevada

See Sheet No.1 for rest of information)

(*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 This property is approximately 2 miles in a northerly direction from the Victoria Mine of the Anaconda Mining Co. on the same dyke. It is in the Mizpah Mining District near the old town of the mining Camp Mizpah.

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

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise owner by right of location

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

(*e*) If you own the land, describe any liens or encumbrances on it none

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. See sheet No.2.

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 sheet No.3

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades. See Sheet No.4

(*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. See Sheet No.5.

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points. See sheet No.6 under (d)

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power. See sheet No.6 under (e).

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

(*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. See sheet No.7 under (b)

(*c*) The work will start within 60 days and be completed within 16 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. See Sheet No.8 under (d)

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.). Might contract some work such as hauling ore but not sure yet.

(*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. See sheet No.9 under (b)

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel.. See Sheet No.9 under (c).

(*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. See sheet No.10 under (d).

(*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. None.

(*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. Sheet #11.

(*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. See sheet No.11 under (g).

(*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. See Sheet No.11 under (h).

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?

☐ Money ☐ Use of equipment and timber owned by you ☐ Other

Explain in detail on acompanying paper. Equipment, timber and building material on property will equal more than 10% of amount requested in application.

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 Oct. 5th, 1951

Vestube Mining Co.
(Applicant)

By Lee W. Southard - President

J.B. Willis - Vice President

Helen Grant Sims Sec. & Treas.

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
OCT 16 1953

TOTAL EXPENSES

4. (d)	Repair road	$6 000.00
	Labor - salaries	80 920.00
	Operating materials & supplies.	561.00
	Power, water, fuel	9 600.00
	Operating equipment	42 450.00
	Buildings	19 745.00
	Miscellaneous	14 700.00
	Contingencies	13 680.00
	Total expenditures..	$187 656.00

1. (c)

NAMES OF OFFICERS	TITLES	ADDRESSES
Lee W. Southam	President	890 N. 1 W., Spanish Fork, Utah
J. B. Willis	Vice-President	Helper, Utah
Heber Grant Ivins	Sec'y-Treas.	American Fork, Utah

DIRECTORS

Lee W. Southam	See above for addresses.
J. B. Willis	
Heber Grant Ivins	

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

NAMES OF CLAIMS	WHERE RECORDED BOOK	WHERE RECORDED PAGE
Melles Mining Claim No.1	30	449
Melles Mining Claim No.2	30	473
Melles Mining Claim No.3	30	450
Melles Mining Claim No.4	30	451
Melles Mining Claim No.5	30	452
Melles Mining Claim No.6	30	453
Melles Mining Claim No.7	30	505
Melles Mining Claim No.8	30	454
Melles Mining Claim No.9	30	455
Melles Mining Claim No.10	30	506
Melles Mining Claim No.11	30	456
Melles Mining Claim No.12	30	504
Melles Mining Claim No.13	30	457
Rubyelane Mining Claim No.1	30	401
Rubyelane Mining Claim No.2	30	402
Rubyelane Mining Claim No.3	30	444
Rubyelane Mining Claim No.4	30	445
Rubyelane Mining Claim No.5	30	403
Rubyelane Mining Claim No.6	30	404
Rubyelane Mining Claim No.7	30	446
Rubyelane Mining Claim No.8	30	447
Rubyelane Mining Claim No.9	30	448
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Judylynn Mining Claim No.2	30	406
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Judylynn Mining Claim No.4	30	408

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.

1 tunnel in a distance of 500 ft.
1 Shaft in a distance of 50 feet.
1 Shaft in a distance of 40 feet.

A number of shallow shafts and cuts with satisfactory showing.

There has been no production or ore shipped from said property that we know of.

The above workings were mostly all run before we obtained the property.

You can drive a passenger car right onto said property and it is very accessible for examination purposes.

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

undeveloped ground.

There are old shallow workings on said property. However, they were all opened up and worked around 1900. They were for the express purpose of finding gold and silver; say the old timers who remember back to the time and place, Mizpah, Nevada.

5. (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.

GEOLOGIC FEATURES

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See copy of Engineer's Report enclosed.

See geologic report of Dollyvarden, Nevada.

REASONS FOR WISHING TO EXPLORE

The Anaconda Mining Co. have proven beyond a doubt that this great dyke will be one of the great copper producers of America, by exploration, diamond drilling, tunnel work, shaft work, etc.

This property joins near the Anaconda property on the same dyke.

C O P Y

REPORT ON THE VESTALEE GROUP OF MINING CLAIMS

The Vestalee Group of mining claims is located in the Antelope Range, Mizpah Mining District, about seven miles East of the Mizpah Siding of the Nevada Northern Railway, Elko County, Nevada.

This group of mining claims is joined together and forms one group and consists of the following named mining claims: Nelles Mining Claims Nos.1-2-3-4-5-6-7-8-9-10-11-12 and 13; Rubyclane Mining claims Nos. 1-2-3-4-5-6-7-8-9 and Judylynn Mining Claims Nos. 1-2-3-4, making a total of twenty-six mining claims in all.

The Locators of the Vestalee Group are Lee W. Southam, J.B. Willis, Floyd Brotherson, Henry Seeley, L. W. Robison, Don Shepherd and Joe Esquinta.

All necessary location and discovery work has been done on these claims and the notices of location have been duly recorded.

The Vestalee Group of mining claims occupies a very choice place on the great mineralized dyke that runs through the Antelope Range. It can be easily traced for a distance of seven to ten miles.

This is one of the greatest mineralized dykes in the State of Nevada. The course of this great dyke is Northerly and Southerly, and it is several thousand feet in width. It consists of the sedimentary and crystalline formations and is of the old geologic structure of andesite, rhyolite and monzonite, quartzite,porphyry, shale and schist, with intrusions of quartz of the metamorphic type, which is very highly mineralized, carrying about the right amount of iron with some copper and other metals, also about the right sprinkle of lime with metamorphic characteristics. A better formation for a good producer is not found, and joining on the Easterly side is the Madison Lime which is well mineralized, also.

The stratigraphy is placed, formed and faulted so as to warrant a very great mineral structure and has all the qualities to make a great metal producer. However, the andesite formation I will term the surface structure. The surface structure will be very specifically underlying by monzonite and quartz. This formation will carry copper of a good grade, as there are many true fissure veins, carrying a good grade of copper and some gold and silver. However, these later metals are small on the surface, but I would expect them to increase as the property is developed. When developed this property will also carry tungsten, titanium and uranium. These metals will all be a great asset to this group of claims.

As these true fissure veins come together and at water level this property will be one of the great mining properties of the State of Nevada. There is the presence of tungsten and uranium on the property now, also copper and titanium. As development work is

carried on these metals will increase and continue. Many shallow holes have been sunk on this property. Nearly every test hole has a showing entirely satisfactory. One tunnel is in a distance of about five hundred feet, and within the next three hundred feet will cut the mineralized zone, a nice vein that shows on the surface, which carries some valuable metal assets, mostly copper. However, this said tunnel has been run mostly through a slip or kickout of the surface formation. There are other showings both above this tunnel level, also below said tunnel level. These showings are very interesting and urgently warrant exploration. There are many other very interesting aspects pertaining to this property.

A geologic study by one who understands the metamorphic conditions and metal bearing structure can easily recognize the great possibilities underlying the Vestalee Group of Mining Claims. They warrant exploration and intelligent development work.

As this work progresses the above statement will be fully realized, and no doubt this property will develop to a status and be recognized as one of the great metal producers of the State. All work so far has been carried on with the major goal in view.

There is at present about sufficient equipment on the ground to carry the necessary development work to a successful stage: Equipment, consisting of a very good portable air compressor, with a reasonable supply of drill steel, pipe, air hose, and steel rail, a good power winch, good pumping equipment, two good trucks and a good supply of timber on hand. Mr. Lee Southern has timber concessions so that a sufficient supply of the necessary mining timber can be obtained.

The required development work on this said group of mining claims is being carried on in a good minerlike fashion and impresses one that the businesslike manner in which the work is being done to get the property to a producing stage as soon as possible is the major motive in view.

It will be necessary to construct some needed camp buildings for the comfort of the workmen and to develop for culinary purposes, the water of a spring near by.

This property is a distance of about fifty miles from the smelter at McGill. There is a good surface highway from McGill to the village of Currie. From Currie to the property is a distance of about nine miles. This piece of road is poor but passable, and it can be repaired quite reasonably. A gravel surface of several miles would put this road in good condition.

This group of claims, with all appurtenances, and having such a fine geologic structure, seems a good setup and dont overlook this one fact - this property can be made a good producer of valuable minerals.

The Owners of the Vestalee Group of Mining Claims seem to have the understanding, determination and knowhow to push this work to the production stage.

Dated this 12th day of Aug. A.D. 1953.

Respectfully submitted,

Karl J. Clinger, M.E.

4. (d) State the facts with respect to the accessibility of the project; Access roads, distance to shipping, supply and residence points.

From said mining property to the village of Currie it is a distance of 9 miles. This road can be repaired and put in good condition for the sum of $6 000.00

From Currie to McGill and the smelter on Highway 93, it is a distance of about 65 miles.

From the property to Salt Lake City, Utah it is approximately 225 miles.

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

Manpower available.

Material, supplies and equipment can be obtained from Salt Lake.

Spring for culinary purposes can be fixed up for ..... $ 300.00

Will have to use diesel power.

5. THE EXPLORATION PROJECT.

(a) State the mineral or minerals for which you wish to explore.

Copper, Uranium, Tungsten.

(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 workings, and the location of the proposed exploration work as related to such features as contacts, veins, ore-bearing beds, etc.

See the attached map of claims showing proposed tunnel. Proposed tunnel approximately 3000 ft. This tunnel will cut several veins of good copper ore. Cost $30.00 per foot.

The attached map also shows the present workings.

5. (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.

Mr. Lee Southam for years has been a supervisor or foreman over men and knows how to get along with men, get things done and has executive and business ability. He has been running a very successfull timber business. He at one time was a foreman at the Bingham Canyon Mine of the Utah Copper Co.

Mr. Earl J. Clinger is a life long mining engineer. Has worked in the mining business for at least forty years, acting as Superintendent, Foreman, Mining Engineer and directing the development of mines and the handling of all types of mining machinery. He hasmade geological reports for mining companies.

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:

(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.

	DAY WAGE	MONTHLY WAGE	TOTAL
1 Engineer		550.00	
1 Supervisor		550.00	
Geological consultants			2 000.00
1 Mechanic		450.00	
3 Miners	$15.	$300 .900.00	
6 Miners' Helpers	14.	280 1 680.00	
1 Carpenter	18.	360.00	
2 Carpenter's Helpers	12.	240. 480.00	
1 Utility man for equipment		400.00	
2 Truck Drivers	16.	320. 640.00	
1 Bookkeeper		400.00	
1 Secy-Treas. and legal advisor			2 000.00
Monthly wages ...		$6 410.00	
12 months wages..			76 920.00
Grand Total			$80,920.00

(c) Operating materials and supplies. Furnish an itemized list including items of equipment costing less than $50.00 each, and power, water and fuel.

24 picks and 24 shovels	@ $3.25	$ 156.00	
6 saws	@ 6.00	36.00	
10 Kegs Nails	@ 19.00	190.00	
2 Steel Squares	@ 5.00	10.00	
6 Miner's lamps	@ 2.50	15.00	
500# Carbide	@ 15.00 per 100#	75.00	
1 Anvil		44.00	
2 Hammers	@ 5.00	10.00	
1 Forge		25.00	
	Total	561.00	561.00

Power-Diesel Electric	4 500.00	
Diesel -$25.00 per mo. 12 months	300.00	
Gasoline $250.00 per mo. 12 months	3 000.00	
Water-From Spring to be developed for culinary purposes... cost	300.00	
Fuel -Coal- 3 cars at $500.00 per car	1 500.00	
Total	$9 600.00	9 600.00

6. (d) 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.

1 Bulldozer	$12 000.00	
1 Dump Truck Approximately	6 000.00	
1 Semi-Truck and trailer "	6 000.00	
1 Acetylane Welding Equipment	150.00	
1 Portable Arc Welder	1 000.00	
1 Air Compressor	4 000.00	
1 2-Machine Jumbo	3 500.00	
L Emco mucking machine	4 000.00	
Rail	1 000.00	
4 Mine Cars @ $150. each	600.00	
3 Jack Hammers @ $400. each	1 200.00	
Drill Steel and Bits.	3 000.00	
Total....	42 450.00	$42 450.00

Note: Miscellaneous equipment consisting of one power hoist, 2 water pumps, together with timber worth approximately $12,000.00 is on the property.

6. (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.

1 Cook House 18' x 38'	.....	$ 3 500.00	
2 Bunk Houses 18' x 32'	.....	6 250.00	
1 Office Bldg. 16' x 36'	.....	3 250.00	
1 Supply House 14' x 16'	.....	1 875.00	
1 Powder House 8' x 10'	.....	1 120.00	
1 Mens' Change Room 12' x 14'	.....	1 625.00	
1 Shop 16' x 18'	.....	2 125.00	
	Total	$19 745.00	$19 745.00

(g) Miscellaneous.

Maintenance of Operating Equipment	.....	6 000.00	
Analytical work		1 600.00	
Accounting and office supplies	.....	2 000.00	
Workmens' compensation, employers' Liability Insurance and Payroll taxes		5 100.00	
	Total.....	$14 700.00	14 700.00

(h) Contingencies.

22 Beds and mattresses @ 30.00 each	...	660.00	
6 Space Heaters @ 20.00 each	...	120.00	
2 Ranges at 75.00 each	...	150.00	
Dishes and Utensils	...	250.00	
Taxes		10 000.00	
Other contingencies	...	2 500.00	
	Total	$13 680.00	13 680.00

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

Department of the Interior
Defense Minerals Administration
RECEIVED
OCT 19 1953

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. DMEA-3193
Metal or Mineral
Date Received 10-19-53
Estimated Cost
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: Vestalee Mining Company, a Corporation of the State of Nevada

(See sheet No.1 for rest of information.)

(*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 This property is approximately 2 miles in a northerly direction from the Victoria Mine of the Anaconda Mining Co. on the same dyke. It is in the Mizpah Mining District near the old town of the mining camp Mizpah.

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

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise owner by right of location

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

(*e*) If you own the land, describe any liens or encumbrances on it none

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. (See Sheet No.2)

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 sheet No.3)

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades. (See Sheet No.4)

(*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. (See Sheet No.5)

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points. (See Sheet No.6 under (d))

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power. (See Sheet No.6 under (e))

16—66551-1

5. *The exploration project.*—(*a*) State [redacted] mineral or minerals for which you wish to [redacted]ore Copper, Uranium and Tungsten

(*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. See Sheet No.7 under (b))

(*c*) The work will start within 60 days and be completed within 16 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. See Sheet No.8 under (d)

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.). Might contract some work such as hauling ore but not sure yet.

(*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. See sheet No.9 under (b)

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel. See sheet No.9 under (c)

(*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. See sheet No.10 under (d)

(*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. None

(*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. Sheet #11

(*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. See sheet No.11 under (g)

(*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. See sheet No.11 under (h)

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?

[ ] Money [X] Use of equipment and timber owned by you [ ] Other

Explain in detail on acompanying paper. Equipment, timber and building material on property will equal more than 10% of amount requested in application.

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 Oct.5th, 1953.

VESTALEE MINING COMPANY
(Applicant)

By Lee W. Southam-President
J.B. Ellis-Vice President
Hebe Grant Sims - Sec. & Treas.

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

TOTAL EXPENSES

4. (d)

Repair road	.....	$6 000.00
Labor - salaries	.....	80 920.00
Operating materials & supplies.		561.00
Power, water, fuel	.....	9 600.00
Operating equipment	.....	42 450.00
Buildings	.....	19 745.00
Miscellaneous	.....	14 700.00
Contingencies	.....	13 680.00
Total expenditures..		$187 656.00

1. (c)

NAMES OF OFFICERS	TITLES	ADDRESSES
Lee W. Southen	President	690 N. 1 W., Spanish Fork, Utah
J. B. Willis	Vice-President	Helper, Utah
Heber Grant Ivins	Sec'y-Trees.	American Fork, Utah

DIRECTORS

Lee W. Southen	See above for addresses.
J. B. Willis	
Heber Grant Ivins	

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

NAMES OF CLAIMS	WHERE RECORDED BOOK	PAGE
Melles Mining Claim No.1	30	449
Melles Mining Claim No.2	30	475
Melles Mining Claim No.3	30	450
Melles Mining Claim No.4	30	451
Melles Mining Claim No.5	30	452
Melles Mining Claim No.6	30	453
Melles Mining Claim No.7	30	505
Melles Mining Claim No.8	30	454
Melles Mining Claim No.9	30	455
Melles Mining Claim No.10	30	506
Melles Mining Claim No.11	30	456
Melles Mining Claim No.12	30	504
Melles Mining Claim No.13	30	457
Rubyelane Mining Claim No.1	30	401
Rubyelane Mining Claim No.2	30	402
Rubyelane Mining Claim No.3	30	444
Rubyelane Mining Claim No.4	30	445
Rubyelane Mining Claim No.5	30	403
Rubyelane Mining Claim No.6	30	404
Rubyelane Mining Claim No.7	30	446
Rubyelane Mining Claim No.8	30	447
Rubyelane Mining Claim No.9	30	448
Judylynn Mining Claim No.1	30	405
Judylynn Mining Claim No.2	30	406
Judylynn Mining Claim No.3	30	407
Judylynn Mining Claim No.4	30	408

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.

1 tunnel in a distance of 500 ft.
1 Shaft in a distance of 50 feet.
1 Shaft in a distance of 40 feet.

A number of shallow shafts and cuts with satisfactory showing.

There has been no production or ore shipped from said property that we know of.

The above workings were mostly all run before we obtained the property.

You can drive a passenger car right onto said property and it is very accessible for examination purposes.

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

undeveloped ground.

There are old shallow workings on said property. However, they were all opened up and worked around 1900. They were for the express purpose of finding gold and silver; say the old timers who remember back to the time and place, Mizpah, Nevada.

5. (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.

GEOLOGIC FEATURES

The geologic features are of the sedimentary and crystalline formations consisting of andesite, granite, porphyry, monzonite, quartz, lime, shale, schist, all highly mineralized. Veins and ore deposits are of the true fissure type; for illustration- a man's fingers, pointing upward, represent these true fissure veins all joined to the great ore body indicated below.

See copy of Engineer's Report enclosed.

See geologic report of Dollyvardon, Nevada.

REASONS FOR WISHING TO EXPLORE

The Anaconda Mining Co. have proven beyond a doubt that this great dyke will be one of the great copper producers of America, by exploration, diamond drilling, tunnel work, shaft work, etc.

This property joins near the Anaconda property on the same dyke.

C O P Y

REPORT ON THE VESTALEE GROUP OF MINING CLAIMS

The Vestalee Group of mining claims is located in the Antelope Range, Mizpah Mining District, about seven miles East of the Mizpah Siding of the Nevada Northern Railway, Elko County, Nevada.

This group of mining claims is joined together and forms one group and consists of the following named mining claims: Melles Mining Claims Nos.1-2-3-4-5-6-7-8-9-10-11-12 and 13; Rubyelane Mining claims Nos. 1-2-3-4-5-6-7-8-9 and Judylynn Mining Claims Nos. 1-2-3-4, making a total of twenty-six mining claims in all.

The Locators of the Vestalee Group are Lee W. Southam, J.B. Willis, Floyd Brotherson, Henry Seeley, L. W. Robison, Don Shepherd and Joe Eaquinta.

All necessary location and discovery work has been done on these claims and the notices of location have been duly recorded.

The Vestalee Group of mining claims occupies a very choice place on the great mineralized dyke that runs through the Antelope Range. It can be easily traced for a distance of seven to ten miles.

This is one of the greatest mineralized dykes in the State of Nevada. The course of this great dyke is Northerly and Southerly, and it is several thousand feet in width. It consists of the sedimentary and crystalline formations and is of the old geologic structure of andesite, rhyolite and monzonite, quartzite,porphyry, shale and schist, with intrusions of quartz of the metamorphic type, which is very highly mineralized, carrying about the right amount of iron with some copper and other metals, also about the right sprinkle of lime with metamorphic characteristics. A better formation for a good producer is not found, and joining on the Easterly side is the Madison Lime which is well mineralized, also.

The stratigraphy is placed, formed and faulted so as to warrant a very great mineral structure and has all the qualities to make a great metal producer. However, the andesite formation I will term the surface structure. The surface structure will be very specifically underlying by monzonite and quartz. This formation will carry copper of a good grade, as there are many true fissure veins, carrying a good grade of copper and some gold and silver. However, these later metals are small on the surface, but I would expect them to increase as the property is developed. When developed this property will also carry tungsten, titanium and uranium. These metals will all be a great asset to this group of claims.

As these true fissure veins come together and at water level this property will be one of the great mining properties of the State of Nevada. There is the presence of tungsten and uranium on the property now, also copper and titanium. As development work is

carried on these metals will increase and continue. Many shallow holes have been sunk on this property. Nearly every test hole has a showing entirely satisfactory. One tunnel is in a distance of about five hundred feet, and within the next three hundred feet will cut the mineralized zone, a nice vein that shows on the surface, which carries some valuable metal assets, mostly copper. However, this said tunnel has been run mostly through a slip or kickout of the surface formation. There are other showings both above this tunnel level, also below said tunnel level. These showings are very interesting and urgently warrant exploration. There are many other very interesting aspects pertaining to this property.

A geologic study by one who understands the metamorphic conditions and metal bearing structure can easily recognize the great possibilities underlying the Vestalee Group of Mining Claims. They warrant exploration and intelligent development work.

As this work progresses the above statement will be fully realized, and no doubt this property will develop to a status and be recognized as one of the great metal producers of the State. All work so far has been carried on with the major goal in view.

There is at present about sufficient equipment on the ground to carry the necessary development work to a succesful stage: Equipment, consisting of a very good portable air compressor, with a reasonable supply of drill steel, pipe, air hose, and steel rail, a good power wench, good pumping equipment, two good trucks and a good supply of timber on hand. Mr. Lee Southam has timber concessions so that a sufficient supply of the necessary mining timber can be obtained.

The required development work on this said group of mining claims is being carried on in a good minerlike fashion and impresses one that the businesslike manner in which the work is being done to get the property to a producing stage as soon as possible is the major motive in view.

It will be necessary to construct some needed camp buildings for the comfort of the workmen and to develop for culinary purposes, the water of a spring near by.

This property is a distance of about fifty miles from the smelter at McGill. There is a good surface highway from McGill to the village of Currie. From Currie to the property is a distance of about nine miles. This piece of road is poor but passable, and it can be repaired quite reasonably. A gravel surface of several miles would put this road in good condition.

This group of claims, with all appurtenances, and having such a fine geologic structure, seems a good setup and don't overlook this one fact - this property can be made a good producer of valuable minerals.

The Owners of the Vestalee Group of Mining Claims seem to have the understanding, determination and knowhow to push this work to the production stage.

Dated this 12th day of Aug. A.D. 1953.

Respectfully submitted,

Earl J. Clinger, M.E.

4. (d) State the facts with respect to the accessibility of the project; Access roads, distance to shipping, supply and residence points.

From said mining property to the village of Currie it is a distance of 9 miles. This road can be repaired and put in good condition for the sum of $6 000.00

From Currie to McGill and the smelter on Highway 93, it is a distance of about 65 miles.

From the property to Salt Lake City, Utah it is approximately 225 miles.

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

Manpower available.

Material, supplies and equipment can be obtained from Salt Lake.

Spring for culinary purposes can be fixed up for ..... $ 300.00

Will have to use diesel power.

5. THE EXPLORATION PROJECT.

(a) State the mineral or minerals for which you wish to explore.

Copper, Uranium, Tungsten.

(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 workings, and the location of the proposed exploration work as related to such features as contacts, veins, ore-bearing beds, etc.

See the attached map of claims showing proposed tunnel. Proposed tunnel approximately 3000 ft. This tunnel will cut several veins of good copper ore. Cost $30.00 per foot.

The attached map also shows the present workings.

5. (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.

Mr. Lee Southam for years has been a supervisor or foreman over men and knows how to get along with men, get things done and has executive and business ability. He has been running a very successfull timber business. He at one time was a foreman at the Bingham Canyon Mine of the Utah Copper Co.

Mr. Earl J. Clinger is a life long mining engineer. Has worked in the mining business for at least forty years, acting as Superintendent, Foreman, Mining Engineer and directing the development of mines and the handling of all types of mining machinery. He hasmade geological reports for mining companies.

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:

(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.

	DAY WAGE	MONTHLY WAGE	TOTAL
1 Engineer		550.00	
1 Supervisor		550.00	
Geological consultants			2 000.00
1 Mechanic		450.00	
3 Miners	$15.	$300. 900.00	
6 Miners' Helpers	14.	280 1 680.00	
1 Carpenter	18.	360.00	
2 Carpenter's Helpers	12.	240. 480.00	
1 Utility man for equipment		400.00	
2 Truck Drivers	16.	320. 640.00	
1 Bookkeeper		400.00	
1 Secy-Treas. and legal advisor			2 000.00
Monthly wages ...		$6 410.00	
12 months wages..			76 920.00
Grand Total			$80,920.00

(c) Operating materials and supplies. Furnish an itemized list including items of equipment costing less than $50.00 each, and power, water and fuel.

24 picks and 24 shovels @	$5.25	$ 156.00	
6 saws @	6.00	36.00	
10 Kegs Nails @	19.00	190.00	
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6 Miner's lamps @	2.50	15.00	
500# Carbide @	15.00 per 100#	75.00	
1 Anvil		44.00	
2 Hammers @	5.00	10.00	
1 Forge		25.00	
	Total	561.00	561.00

Power-Diesel Electric	4 500.00	
Diesel - $25.00 per mo. 12 months	300.00	
Gasoline $250.00 per mo. 12 months	3 000.00	
Water-From Spring to be developed for culinary purposes... cost	300.00	
Fuel -Coal- 3 cars at $500.00 per car	1 500.00	
Total	$9 600.00	9 600.00

6. (d) 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.

1 Bulldozer	$12 000.00	
1 Dump Truck Approximately	6 000.00	
1 Semi-Truck and trailer "	6 000.00	
1 Acetylene Welding Equipment	150.00	
1 Portable Arc Welder	1 000.00	
1 Air Compressor	4 000.00	
1 2-Machine Jumbo	3 500.00	
1 Euco mucking machine	4 000.00	
Rail	1 000.00	
4 Mine Cars @ $150. each	600.00	
3 Jack Hammers @ $400. each	1 200.00	
Drill Steel and Bits.	3 000.00	
Total....	42 450.00	$42 450.00

Note: Miscellaneous equipment consisting of one power hoist, 2 water pumps, together with timber worth approximately $12,000.00 is on the property.

6. (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.

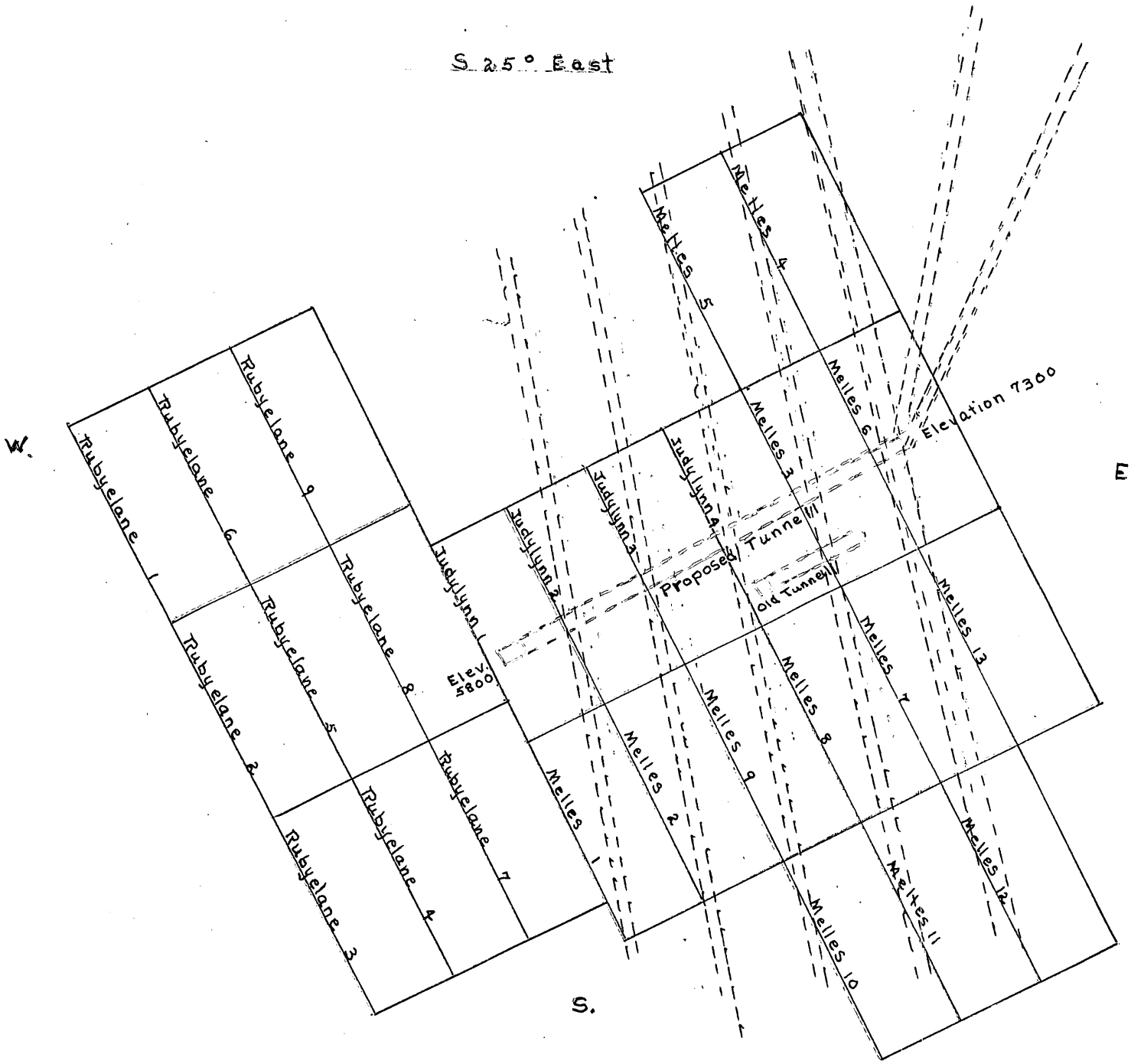
1 Cook House 18' x 38'	.....	$ 3 500.00	
2 Bunk Houses 18' x 32'	.....	6 250.00	
1 Office Bldg. 16' x 36'	.....	3 250.00	
1 Supply House 14' x 16'	.....	1 875.00	
1 Powder House 8' x 10'	.....	1 120.00	
1 Mens' Change Room 12' x 14'	.....	1 625.00	
1 Shop 16' x 18'	.....	2 125.00	
	Total	$19 745.00	$19 745.00

(g) Miscellaneous.

Maintenance of Operating Equipment	.....	6 000.00	
Analytical work		1 000.00	
Accounting and office supplies	.....	2 000.00	
Workmens' compensation, employers' Liability Insurance and Payroll taxes		5 100.00	
	Total.....	$14 700.00	14 700.00

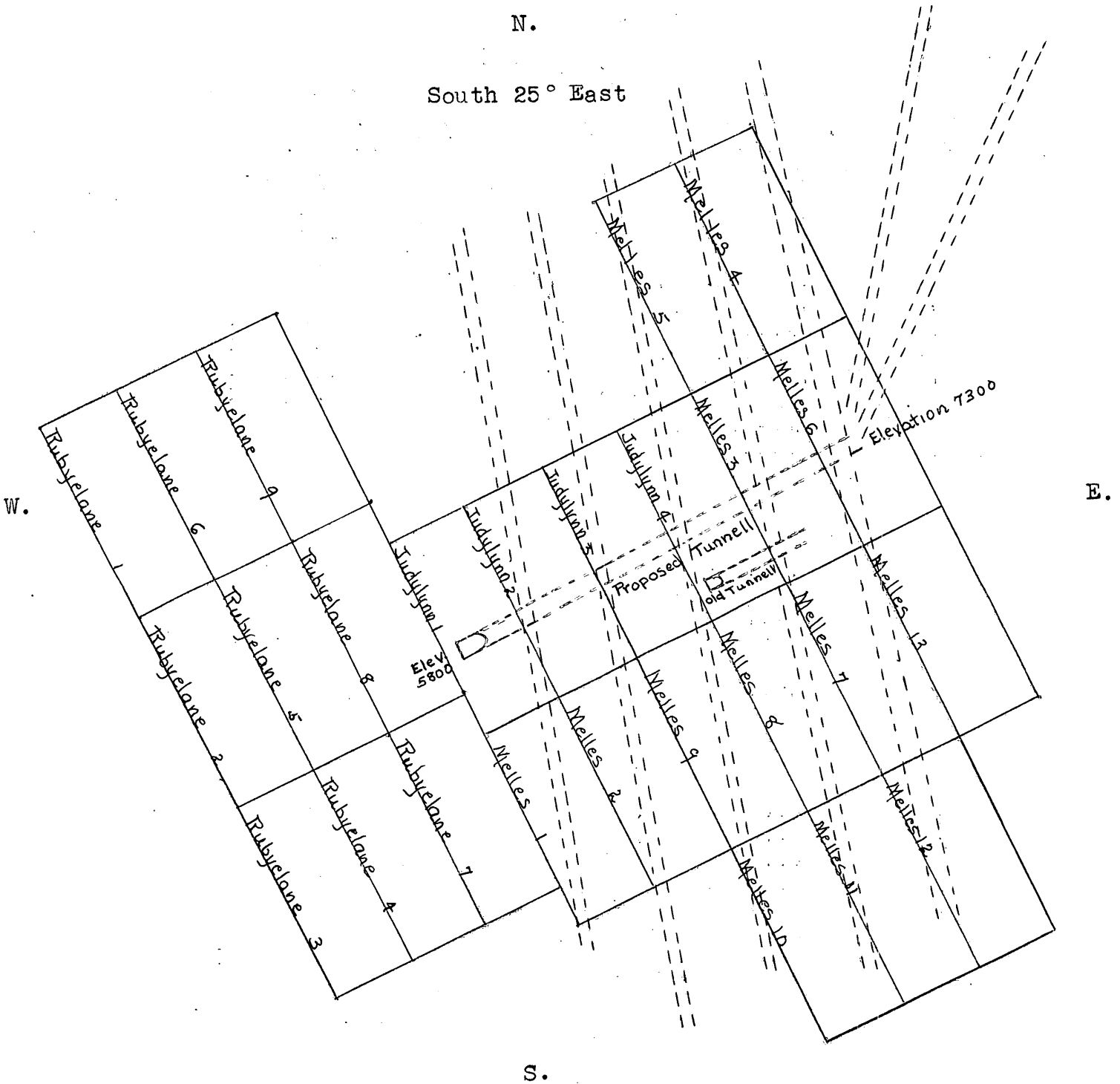
(h) Contingencies.

22 Beds and Mattresses	$ 30.00 each ...	660.00	
6 Space Heaters	$ 20.00 each ...	120.00	
2 Ranges at	75.00 each ...	150.00	
Dishes and Utensils	...	250.00	
Taxes		10 000.00	
Other contingencies	...	2 500.00	
	Total	$13 680.00	13 680.00



MINING CLAIMS OF VESTALEE MINING COMPANY SHOWING PROPOSED TUNNEL (IN RED)

BROKEN LINES REPRESENT FISSURE VEINS



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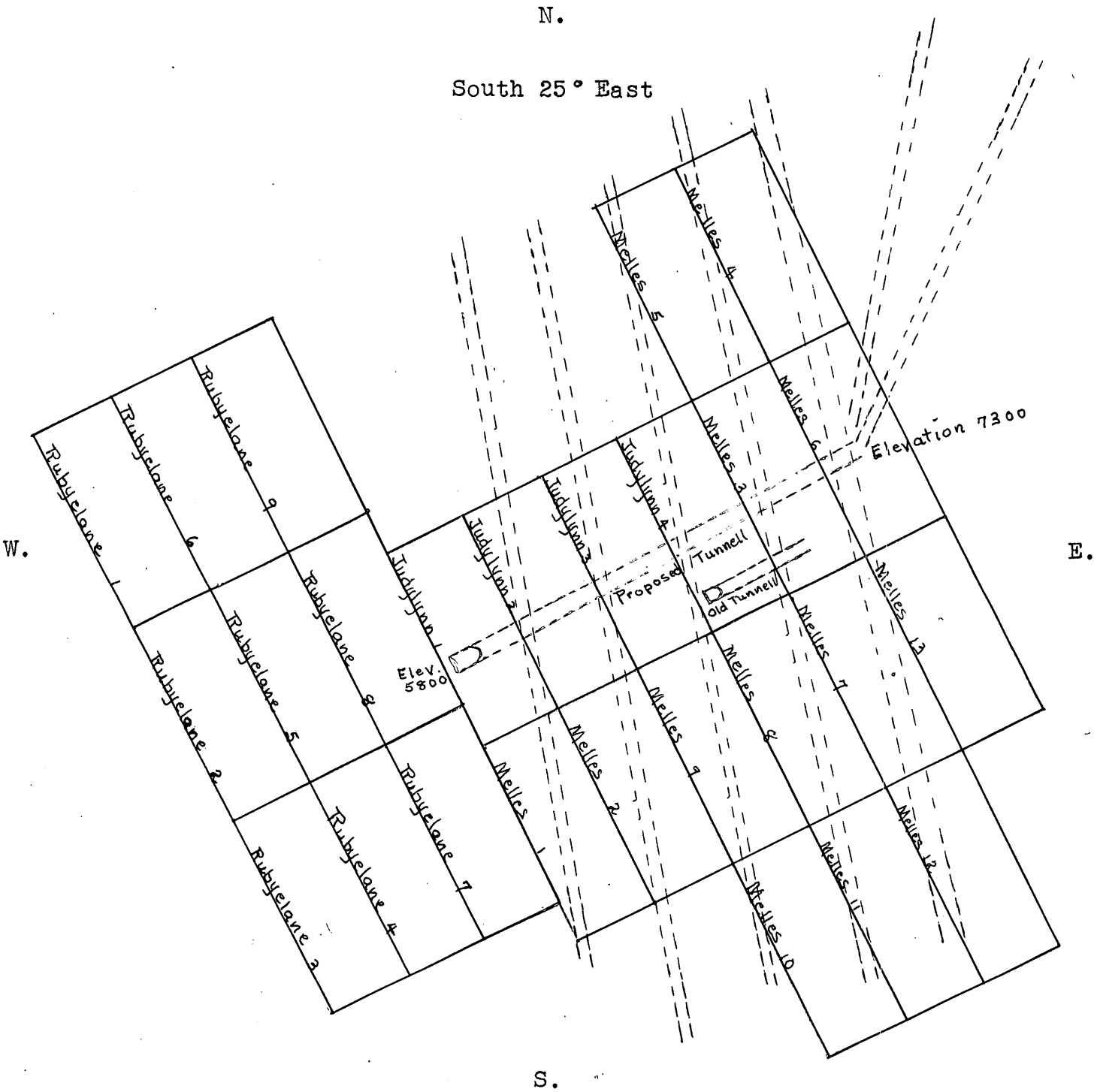

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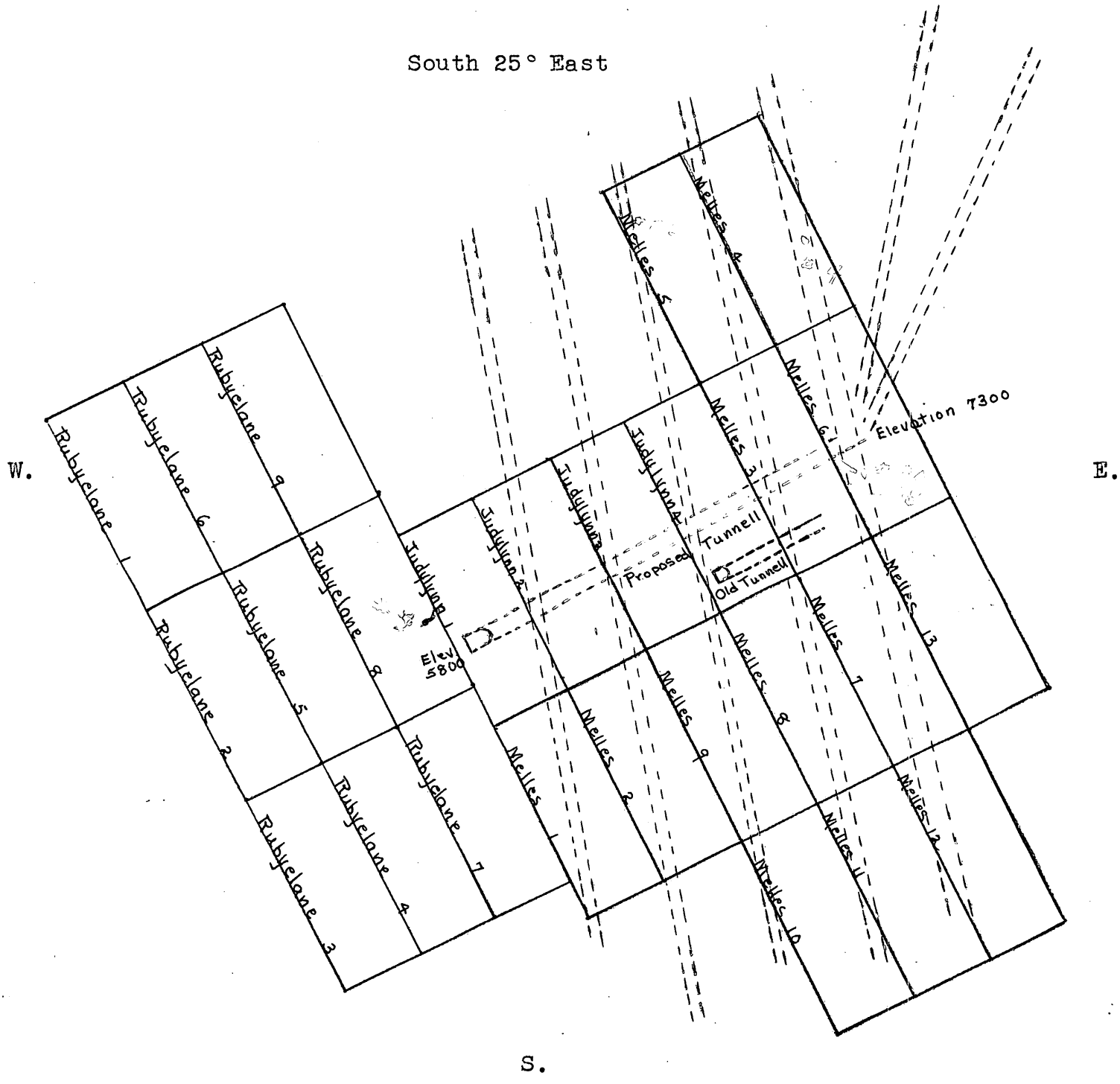

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