DMA Form 1

DEFENSE MINERALS ADMINISTRATION
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DMA Docket No. 1646X

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Routing Slip

To:	300	Date	9-5
To:	Von Lyon	Date	9/1/51
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FILE COPY
SURNAME:

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

Warren
Barr
Anderson

A.E.C. -

OCT 8 1951

Mrs. Edith Lockhart
Box 75
Viking Talc Mine
Darwin, California

Subject: DMA-1686X - Steatite Talc

Dear Mrs. Lockhart:

Replying to your letter of September 10, 1951, the samples of talc taken by our examining engineer and subjected to laboratory tests, came from the face of the 75 foot level and from material in the ore chute. The material did not qualify as strategic grade steatite under National Stockpile Specifications and for that reason does not qualify your project under DO-5, Regulations Governing Government Aid in Defense Exploration Projects.

We do not doubt that the Viking Mine contains talc having commercial value, however, to qualify under DO-5 it must be demonstrated that the deposit could produce significant amounts of block or lump talc suitable for the fabrication of electronic insulators as specified in National Stockpile Specifications.

Should you wish to submit additional samples, we would be glad to arrange appropriate tests and advise you of the results.

Sincerely yours,

SIGNED J.G. 10-8

Tom Lyon, Director
Supply Division

Enclosures

KWASKOY:mp
10-5-51
cc: Field Team, Region III (2)
DMA Docket File
Mr. Barr

ADMINISTRATION
WASHINGTON, D.C.
SEP 24 10 34 AM '51
370

Viking Talc Mine. Darwin Calif. Sept 18 th 1951

Re. D M A 1646 X.
Steatite Talc.

Mr Tom Lyon Wahington D. C.

Dear Sir.

Thank You kindlly for Your letter. Imforming Me, that My Application for a Exploration loon to Develope the Viking Talc Mine. have been Denied. I am sorry that the imformation to You. in regards to the Possibility of this mine have been so misrepresented. this Viking Mine have been on production eight years. predusing Statite Talc true different Leasers. and true the end of the war 1943 and 1944. wer lesed by Franco Western oil company, the Date, they wer a Subsidiary of the Isolantite Co. and wer shiped to the Goverment plant in New jersy, I think it wer located. and efter the war wer over and they closed they Viking Talc Mine. I Leased it to Indviduels and they wer working at a Hundred feet deapth. and in the bottom they had fifty feet with of Talc. but, true neglect of timbering sufficent they caved the mine. and neighter I, or them had sufficient Money to open the mine again. So through the Chamber of Mining Bureau in Los Angeles Calif. I wer invited to aply for a loon to drive a Tunnel true the mountain five hundred feet to get to and under the cavings to the ore Body. but I see By Your letter . that Your Engeneer send Talc that wer no good. I guss he toock that in the cavings. as he could not get to the body of Talc. and that Naturel would be no good as it would be just a mixture. but I dont blame Him. he seemed to be a upright and honest man and meent to do right.

I schould have explaned to him the condetion. so I just have try toget along without the the loan, for would been to me.

I wer so sure of getting it that. that I have spend conside[illegible]

Money and fixed the camp up in good condetion. and gotten ~~ree~~ reday to start working. as soon as the loan had been O. K. so this dissappoint are tough om me. as I am a Widow and Elderly.

But thank You kindly again.

Yours Truly.

Mrs Edith Lockhart.

Wiking Talc Mine. Darwin. Calif.

Box 75.

Mrs. Edith Lockhart

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

370

SEP 7 1951

Memorandum

To: Reports and Records, DMA

From: Chief, Industrial Minerals Branch, DMA

Subject: DMA-1646X, Edith Lockhart
Viking Talc Mine - Steatite Talc
Amount: 90% - $17,000

Denial recommended because:

1. No sound geologic basis to justify the project has been demonstrated.

2. Samples of steatite from the deposit were examined at College Park and did not qualify as strategic grade material.

Attached:

1. Letter of transmittal from Region III with Field Examination Report, maps and pictures.

2. Review of application for Exploration Assistance with field referral.

3. Form MF-103 with supplemental information in duplicate.

James A. Barr

James A. Barr, Sr.

Approved

Tom Lyon

Director, Supply Division

FILE COPY
SURNAME:

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

370

Barr

SEP 7 1951

Memorandum

To: Reports and Records, DMA

From: Chief, Industrial Minerals Branch, DMA

Subject: DMA-1646X, Edith Lockhart
Viking Talc Mine - Steatite Talc
Amount: 90% - $17,000

Q - E C -

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2. Review of application for Exploration Assistance with field referral.

3. Form MF-103 with supplemental information in duplicate.

SIGNED
James A. Barr, Jr.
9-9-7

Approved:

Tom Lyon

Director, Supply Division

RWASKEY:mp
9-4-51

cc: Field Team, Region III (2)
Reports and Records, Code 210
Mr. Lyon
Mr. Barr

FILE COPY
surname:

Walker
Barr

SEP 7 1951

G. E. L. 370

Mrs. Edith Lockhart
P. O. Box 75
Darwin, California

Re: DMA-1646X
Steatite Talc

Dear Mrs. Lockhart:

Your application for aid for an exploration project on Steatite Talc deposit located in Inyo County, California, and docketed as DMA-1646X, has been reviewed by this office.

Projects approved by the Defense Minerals Administration must, in its judgment, show definite promise of yielding material of acceptable grade, physical character and specifications, in quantities that will significantly improve the mineral supply position for National Defense.

A very careful study of your proposal, including examination by DMA Field Team, revealed the following:

1. No sound geologic basis for expecting to encounter strategic grade steatite in the deposit has been demonstrated.

2. Samples of steatite collected by the DMA examining engineer were tested at the U. S. Bureau of Mines laboratory at College Park, Maryland, and did not qualify as strategic grade material.

Under these circumstances, your application for exploration aid to the extent of 90% of $17,000, is denied. Should additional information become available, we would be glad to have you resubmit your proposal for consideration.

Unless we receive a request within thirty days we will consider the case closed.

Sincerely yours,

Tom Lyon

Tom Lyon, Director
Supply Division

J F 9/7

RWASKEY:mp
9-4-51
cc: Field Team, Region III (2)
DMA Docket File
Mr. Lyon
Mr. Barr

UNITED STATES
DEPARTMENT OF THE INTERIOR
~~BUREAU OF MINES~~
~~REGION~~
DEFENSE MINERALS ADMINISTRATION

1012 Flood Bldg.
870 Market St.
San Francisco 2, Calif.
~~1415 APPRAISERS BLDG.,~~
~~630 SANSOME STREET,~~
~~SAN FRANCISCO 11, CALIF.~~

OFFICE OF
~~REGIONAL DIRECTOR~~
Executive Officer
DMA Field Team
Region III

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
SEP 4 - 1951

August 30, 1951

Memorandum

To: Tom Lyon, Chairman, Coordinating Committee, DMA, Interior Building, Washington 25, D. C.

From: Executive Officer, DMA Field Team, Region III

Subject: DMA-1646X, Talc (Steatite), Edith Lackhart, P. O. Box 75, Darwin, California $17,000

Reference is to your subject "Review of Application for Exploration Assistance" dated June 26.

Attached are four copies of a report, "DMA-1646X, Viking Talc Mine, Inyo County, California," by E. J. Matson, Mining Engineer, U. S. Bureau of Mines, dated August 3, 1951.

The examining engineer concludes that further exploration of the property would not indicate steatite talc, and a Government loan is not warranted to conduct further exploration work on the property. The report received from the College Park Station of the Bureau of Mines on samples sent to them from the Viking Talc mine indicates that the talc is not of steatite grade.

Docket DMA 1646X, along with the reports, and four copies of answers to questions on Form MF-103 are returned herewith.

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

Attachments

Copy to: E. H. Bailey, USGS

UNITED STATES
DEPARTMENT OF THE INTERIOR
OSCAR L. CHAPMAN, SECRETARY

DEFENSE MINERALS ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMA-1646X, Viking Talc Mine

Inyo County, Calif.

E. J. Matson, Mining Engineer
U. S. Bureau of Mines

August 3, 1951

DOCKET DMA-1646X

UNITED STATES DEPARTMENT OF THE INTERIOR - BUREAU OF MINES

VIKING TALC MINE
Inyo County, Calif.

SUMMARY

The Viking talc property is in the North Coso Mining District, Inyo County, Calif., about 11½ miles northwest from Darwin. The property has been operated mostly by lessees. Very little development has been accomplished in regard to blocking out ore. The talc produced has been sold locally to the Sierra Talc Co. of Calif., who operate nearby talc mines and have milling facilities at Keeler, 17½ miles northwesterly from the property.

Talc ore has been mined from two places on the property, namely, the Red Talc mine and Viking mine, about one third mile apart, both from shallow shafts. The owner plans to concentrate on exploration work on the Viking mine by driving an adit into the hillside to intersect the mineralized zone.

The talc appears to be associated or replaced in a white siliceous formation which is bounded by dolomite.

A well equipped camp has been established by the owner on the property.

INTRODUCTION

The Viking talc mine was examined by an engineer[1/] of the Bureau of Mines in connection with an application for exploration assistance. The property is owned by Mrs. Edith Lockhart, 346 N. Vermont Ave., Los

1/ E. J. Matson.

Angeles, Calif.

LOCATION

The Viking talc property is located in sec. 23, 24 and 25 of T. 18 S., R. 39 E., in Inyo County, Calif. It is reached by driving 16 miles southeasterly from Keeler, Calif. on state highway 190 to the Saline Valley road fork; thence 1 mile northerly on the Saline Valley road to a road fork with sign reading Viking Mine, and thence northwesterly on the Viking mine road about 1/2 mile to the Talc Queen (Viking mine) camp. Total distance from Keeler to the mine camp is 17½ miles. It is also 10 miles northwesterly from Darwin to the same Saline Valley road fork and thence 1½ miles over same road to camp or a total distance of 11½ miles from Darwin, Calif. The Keeler-Darwin highway is paved and the mine camp road is over a good gravel-dirt road.

HISTORY AND OWNERSHIP

The Viking talc property consists of six lode claims known as the Talc Queen, Talc Queen No. 1, Talc Queen No. 2, Talc Queen No. 3, Talc Queen Camp and Viking No. 12, all in one group (fig. 1). The Silver Dollar claim also owned by the applicant is about 2½ miles (airline) east from the Viking group. The Silver Dollar claim is not shown.

The claims were first located by Mrs. Edith Lockhart and George Koest of Darwin in 1937 who built the camp site and roads to the property. They sank the Red Talc shaft and also the Viking shaft to a depth of 50 feet.

The property later was leased out at numerous times on royalty basis from 1939 to 1949.

In 1939 Mrs. Lockhart obtained sole controll of the property and it has been idle since except for the required assessment work.

HOUSING AND LIVING ACCOMMODATIONS

A well equipped campsite has been established by the applicant; it consists of six cabins including a bunk house and cook house and four furnished houses (fig. 4). A Delco light plant furnishes electricity to all the cabins and each cabin is furnished with butane gas stoves for cooking and fuel oil stoves for heating. Water is hauled in from Lone Pine for mining and domestic purposes. Groceries and local supplies are obtained from Darwin, nearest trading center, a distance of 11½ miles.

MINE DEVELOPMENT

The Viking mine has been developed by an almost vertical shaft (fig. 3) down to a depth of 75 feet, thence inclined for another 25 feet, not accessible below 75 foot level. Two small levels have been established on the 50 and 75 foot depths, respectively. The Red Talc mine on the opposite end of the zone (fig. 5) is developed by two shafts 80 feet apart and 40 and 55 feet deep respectively, connected by a drift.

The Silver Dollar mine located on the Silver Dollar claim, 2½ miles east of the Viking group has been worked through a steeply dipping shaft and several hundred feet of underground workings. The shaft is reported to be inclined at 80 degrees for 100 feet and vertical for the remainder of the distance with no landings from the collar to the bottom. The Silver Dollar shaft was not entered due to unsafe conditions.

Due to the fact that the properties were operated by lessees and under little or no supervision by the owner, no attempts were made to properly block out ore in advance of mining. Unsystematic exploitation seems prevalent in most steatite-talc mining by lessees and usually after the lessees are through, the underground workings are in such bad condition that their rehabilitation is unprohibitive. The Viking and Red talc workings however, are in better condition than most small talc properties.

PRODUCTION

The owner states that about 2,000 tons of talc ore has been mined and shipped from the properties. The lessees received $12 per ton at the mine ore bins. The owner received a royalty for each ton shipped. All talc ore was bought by the Sierra Talc Company of California, who milled the ore at Keeler, Calif.

PHYSICAL FEATURES

The Viking and Red talc mines are at the southern end of the Inyo Mountains at an altitude of about 5,000 feet. The deposits are on a long southerly protruding ridge. Drainage from the area is northwesterly towards Owens Lake which is about 10 miles (airline) distant. No vegetation except desert sage grows in the area (fig. 2). The locality is typical of the desert regions, consisting of dry, hot summers with little or no precipitation. Winters, however, are mild and pleasant.

DESCRIPTION OF THE DEPOSITS

The chief geologic feature in the vicinity is a silicified belt of white rock resembling quartzite with a regional strike of N. 50° W. and dipping about 45° to the northeast. This silicified belt apparently

forms the ridge and is banded on both sides by dolomite. Numerous strong fractures or slip planes occur roughly paralleling the dip of the bedding.

The talc appears to be a replacement in the white quartzite-looking formation relatively near the contact with the dolomite. The talc occurs in irregular replacement bodies. It appears to be a white talc with some slight limonite stain on the slippage planes. The talc is not uniformly massive but in thin laminated bands caused by pressure.

SAMPLING

Two character samples were taken at the Viking mine.

No. 1 sample was taken across the face of the 75-foot level and No. 2 was taken from material in the ore chute. Figure 1 shows location of samples. Both samples were sent to the Bureau of Mines Laboratory at College Park, Maryland, for analyses to determine if the talc is of steatite grade.

The petrographic and spectroscopic tests made on the above samples at College Park showed that they could not be classified as a high grade steatite. The report states:

"These samples are light green, massive, with tendency to foliation. The iron content is greater than 1 percent by spectroscopic determination. Minor impurities are hematite, calcite, dolomite, opaques, tremolite, rutile and goethite. Hematite and rutile occur as minute inclusions in the talc. Blocks of sufficient size (specifications 2"x2"x3") and purity for steatite insulators could not be cut from these samples."

ORE RESERVES

No ore has been blocked out from which reserves can be estimated. Due to irregularities of talc replacement deposits, it is difficult to calculate ore reserves especially where lessees have been extracting

ore. However, it can be assumed, several hundred tons of talc is indicated at the Viking Mine. Inferred ore reserves can be large, especially if continuity is established between the Viking and Red Talc mines. Indications are that both workings are on the same belt and talc replacement can be expected along the contacts of the dolomite and siliceous quartzite-looking formations which extend between both workings.

PROPOSED EXPLORATION

The applicant proposes to drive an adit (fig. 1) to intersect the talc mineralized zone at the Viking Mine area. The adit would be about 250 feet in length, possibly less, depending where talc is encountered. If the adit is less than 250 feet, then a crosscut northeast would be in order, so as to get the width of the zone. The adit would be approximately at the same level as the bottom of the old Viking Shaft. The adit would eliminate hoisting and reduce mining costs. Rehabilitating the old shaft would be costly.

CONCLUSIONS

The talc does not measure up to strategic steatite (block) grade and it is unlikely that exploration assistance is warranted. Therefore, a loan is not recommended.

Fig. 2. - Looking northwesterly showing Viking Talc Mine. Red Talc Mine is at opposite slope of ridge and not visible.

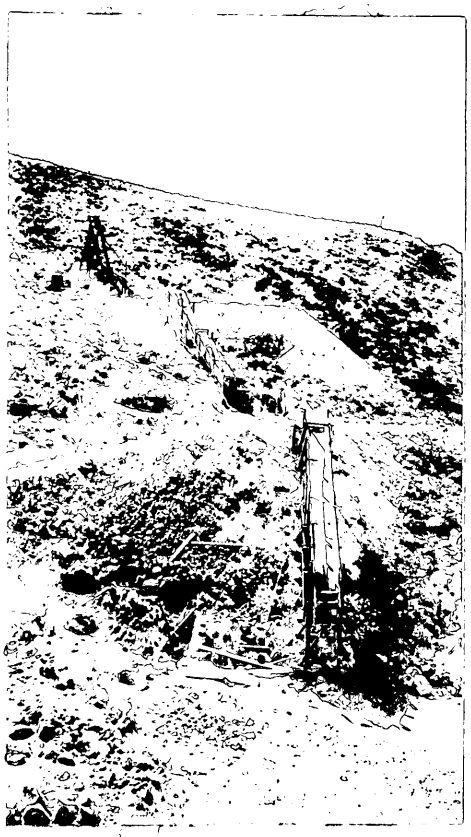

Fig. 5. - Red Talc Mine surface workings. Shaft is at upper left. Chutes are for transporting ore down to road for loading into trucks.

Fig. 3. - Close-up showing Viking Talc Mine shaft.

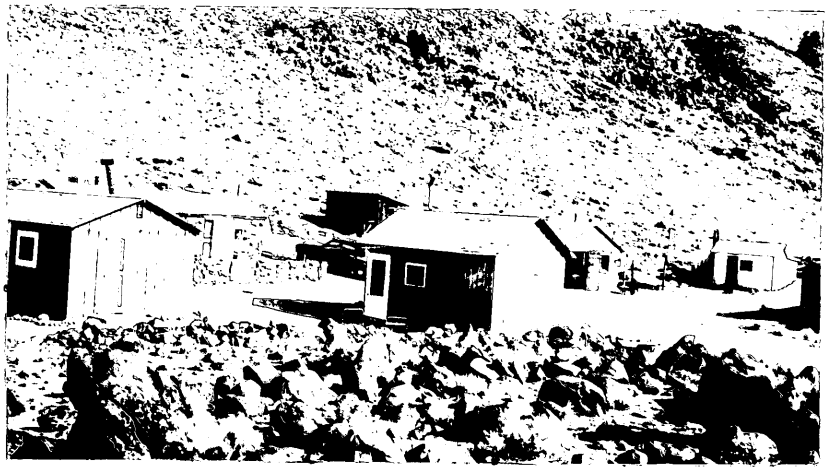

Fig. 4. - Showing portion of camp buildings on Talc Queen claim.

DMA-1646X, Viking Talc

Answers to questions on Form MF-103

1. Individual

2. None

3. None

4. Associated with mining for 14 years. Husband was a mining man in California and Nevada. (b) James McNeil, former superintendent of Sierra Talc Company of California.

5. Owner

6. None

7. None needed

8. See financial statement

9. $1,700. Yes.

10. (a) Viking Talc mine, six claims (see map).
(b) Unpatented claims in secs. 23, 24, & 25, T. 18 S., R. 39 E.

11. Viking talc mine

12. Two miles north on Saline Valley Road from road fork on Keeler-Death Valley Road. Two miles from paved highway - good gravel road; 11½ miles from Darwin, Calif.; shipping point Keeler - 17½ miles; groceries at Darwin; mine supplies delivered from Lone Pine, 30 miles.

13. Water hauled in by tank truck from Lone Pine - nominal rates. Gasoline driven air compressor.

14. See camp.

15. Ore bought at mine by talc buyers @ $12 a ton; they mill the ore at Keeler or Los Angeles.

16. History: (a) First located by Mrs. Edith Lockhart and George Koest in 1937 who built campsite and furnishing six buildings; blacksmith shop, garage and tool house; built all roads to the property from the Saline Valley Road; sunk Red Talc shaft and Viking shaft to the 50-foot level. The property was leased to numerous parties on royalty basis from 1939 to 1949. About 2,000 tons shipped.

In 1949 Mrs. Lockhart obtained sole control of the property. The property has since been idle except for required assessment work. Lessees would not do any development or give property proper care was reason for suspension since 1949.

(b) Sierra Talc Company has been operating for past 35 years. Their property is located about 3 miles southeast of the Viking Talc.

(c) Have none.

17. Not in production at present.

18. (a) See report.
(b) No assays made.
(c) See report.

19. See report.

20. Talc.

21. Drive 500-foot tunnel below collar of old shaft to explore for extensions of ore body. Estimated 9 months to complete the project.

22. Outcrops on surface and possible extension on depth to proposed tunnel level.

23. Requirements and Costs:

(a)	2 miners @ $12 day, 6 day week, time and a half for Saturday, 39 weeks @ $156/week	$ 6,084.00
(b)	Supervision @ $400/month	3,600.00
(c)	Repairs to roof of cookhouse, and misc.	300.00
(d)	Construction of buildings, etc.	---
(e)	Pick-up truck for transporting men & supplies	900.00
(f)	Rental mine car, 1 105-cu.ft. compressor, 1 jackhammer and hose and sundry tools @ $175/mo.	1,575.00
(g)	Rental of camp buildings, equipment, light plant, etc. at $150/mo.	1,350.00
(h)	Powder - $600., caps and fuse - $100., oil and gasoline $700., mine timber - $700., rail - $100., carbide - $100.	2,300.00
(i)	Insurance - $775., water $50.00., misc. - $66.	891.00
		$17,000.00

Summary

Rehabilitation	$ 300.00
500 feet drifting @ $25/ft	12,500.00
Equipment	3,725.00
Miscellaneous	475.00
	$17,000.00

UNITED STATES
DEPARTMENT OF THE INTERIOR
OSCAR L. CHAPMAN, SECRETARY

DEFENSE MINERALS ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMA-1646X, Viking Talc Mine

Inyo County, Calif.

E. J. Matson, Mining Engineer
U. S. Bureau of Mines

August 3, 1951

DOCKET DMA-1646X

UNITED STATES DEPARTMENT OF THE INTERIOR - BUREAU OF MINES

VIKING TALC MINE
Inyo County, Calif.

SUMMARY

The Viking talc property is in the North Coso Mining District, Inyo County, Calif., about 11½ miles northwest from Darwin. The property has been operated mostly by lessees. Very little development has been accomplished in regard to blocking out ore. The talc produced has been sold locally to the Sierra Talc Co. of Calif., who operate nearby talc mines and have milling facilities at Keeler, 17½ miles northwesterly from the property.

Talc ore has been mined from two places on the property, namely, the Red Talc mine and Viking mine, about one third mile apart, both from shallow shafts. The owner plans to concentrate on exploration work on the Viking mine by driving an adit into the hillside to intersect the mineralized zone.

The talc appears to be associated or replaced in a white siliceous formation which is bounded by dolomite.

A well equipped camp has been established by the owner on the property.

INTRODUCTION

The Viking talc mine was examined by an engineer[1] of the Bureau of Mines in connection with an application for exploration assistance. The property is owned by Mrs. Edith Lockhart, 346 N. Vermont Ave., Los

1/ N. J. Matson.

Angeles, Calif.

LOCATION

The Viking talc property is located in sec. 23, 24 and 25 of T. 16 S., R. 39 E., in Inyo County, Calif. It is reached by driving 16 miles southeasterly from Keeler, Calif. on state highway 190 to the Saline Valley road fork; thence 1 mile northerly on the Saline Valley road to a road fork with sign reading Viking Mine, and thence northwesterly on the Viking mine road about 1/2 mile to the Talc Queen (Viking mine) camp. Total distance from Keeler to the mine camp is 17½ miles. It is also 10 miles northwesterly from Darwin to the same Saline Valley road fork and thence 1½ miles over same road to camp or a total distance of 11½ miles from Darwin, Calif. The Keeler-Darwin highway is paved and the mine camp road is over a good gravel-dirt road.

HISTORY AND OWNERSHIP

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The claims were first located by Mrs. Edith Lockhart and George Keast of Darwin in 1937 who built the camp site and roads to the property. They sank the Red Talc shaft and also the Viking shaft to a depth of 50 feet.

The property later was leased out at numerous times on royalty basis from 1939 to 1949.

In 1959 Mrs. Lockhart obtained sole controll of the property and it has been idle since except for the required assessment work.

HOUSING AND LIVING ACCOMMODATIONS

A well equipped campsite has been established by the applicant; it consists of six cabins including a bunk house and cook house and four furnished houses (fig. 4). A Delco light plant furnishes electricity to all the cabins and each cabin is furnished with butane gas stoves for cooking and fuel oil stoves for heating. Water is hauled in from Lone Pine for mining and domestic purposes. Groceries and local supplies are obtained from Darwin, nearest trading center, a distance of 11½ miles.

MINE DEVELOPMENT

The Viking mine has been developed by an almost vertical shaft (fig. 3) down to a depth of 75 feet, thence inclined for another 35 feet, not accessible below 75 foot level. Two small levels have been established on the 50 and 75 foot depths, respectively. The Red Talc mine on the opposite end of the zone (fig. 5) is developed by two shafts 80 feet apart and 40 and 55 feet deep respectively, connected by a drift.

The Silver Dollar mine located on the Silver Dollar claim, 2½ miles east of the Viking group has been worked through a steeply dipping shaft and several hundred feet of underground workings. The shaft is reported to be inclined at 80 degrees for 100 feet and vertical for the remainder of the distance with no landings from the collar to the bottom. The Silver Dollar shaft was not entered due to unsafe conditions.

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DESCRIPTION OF THE DEPOSITS

The chief geologic feature in the vicinity is a silicified belt of white rock resembling quartzite with a regional strike of N. 50° W. and dipping about 45° to the northeast. This silicified belt apparently

forms the ridge and is banded on both sides by dolomite. Numerous strong fractures or slip planes occur roughly paralleling the dip of the bedding.

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"These samples are light green, massive, with tendency to foliation. The iron content is greater than 1 percent by spectroscopic determination. Minor impurities are hematite, calcite, dolomite, opaques, tremolite, rutile and goethite. Hematite and rutile occur as minute inclusions in the talc. Blocks of sufficient size (specifications 2"x2"x2") and purity for steatite insulators could not be cut from these samples."

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ore. However, it can be assumed, several hundred tons of talc is indicated at the Viking Mine. Inferred ore reserves can be large, especially if continuity is established between the Viking and Red Talc mines. Indications are that both workings are on the same belt and talc replacement can be expected along the contacts of the dolomite and siliceous quartzite-looking formations which extend between both workings.

PROPOSED EXPLORATION

The applicant proposes to drive an adit (fig. 1) to intersect the talc mineralized zone at the Viking Mine area. The adit would be about 250 feet in length, possibly less, depending where talc is encountered. If the adit is less than 250 feet, then a crosscut northeast would be in order, so as to get the width of the zone. The adit would be approximately at the same level as the bottom of the old Viking Shaft. The adit would eliminate hoisting and reduce mining costs. Rehabilitating the old shaft would be costly.

CONCLUSIONS

The talc does not measure up to strategic steatite (block) grade and it is unlikely that exploration assistance is warranted. Therefore, a loan is not recommended.

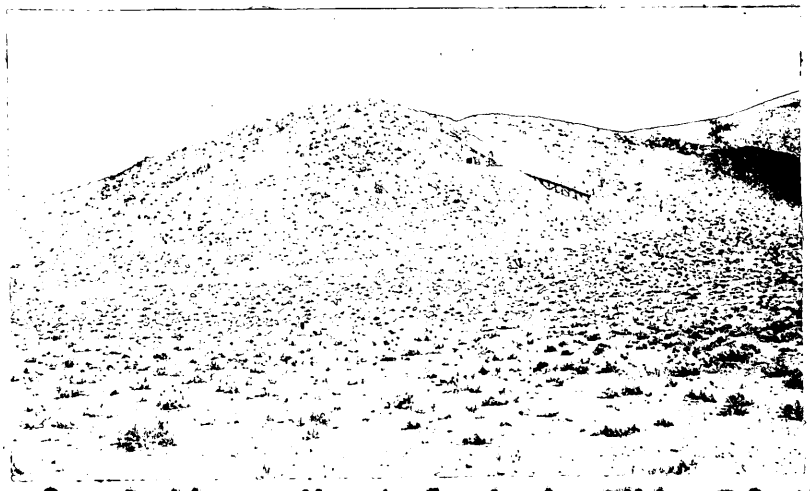

Fig. 2. - Looking northwesterly showing Viking Talc Mine. Red Talc Mine is at opposite slope of ridge and not visible.

Fig. 5. - Red Talc Mine surface workings. Shaft is at upper left. Chutes are for transporting ore down to road for loading into trucks.

Fig. 3. - Close-up showing Viking Talc Mine shaft.

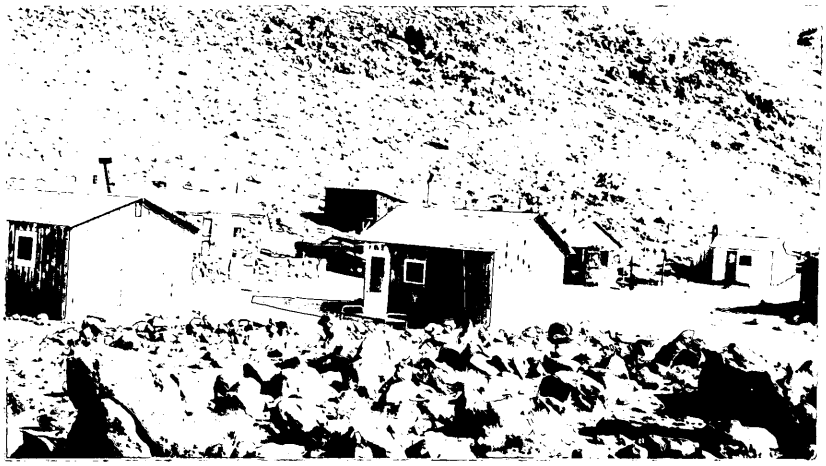

Fig. 4. - Showing portion of camp buildings on Talc Queen claim.

DMA-1646X, Viking Talc

Answers to questions on Form MF-103

1. Individual

2. None

3. None

4. Associated with mining for 14 years. Husband was a mining man in California and Nevada. (b) James McNeil, former superintendent of Sierra Talc Company of California.

5. Owner

6. None

7. None needed

8. See financial statement

9. $1,700. Yes.

10. (a) Viking Talc mine, six claims (see map).
(b) Unpatented claims in secs. 23, 24, & 25, T. 18 S., R. 39 E.

11. Viking talc mine

12. Two miles north on Saline Valley Road from road fork on Keeler-Death Valley Road. Two miles from paved highway - good gravel road; 11½ miles from Darwin, Calif.; shipping point Keeler - 17½ miles; groceries at Darwin; mine supplies delivered from Lone Pine, 80 miles.

13. Water hauled in by tank truck from Lone Pine - nominal rates. Gasoline driven air compressor.

14. See camp.

15. Ore bought at mine by talc buyers @ $12 a ton; they mill the ore at Keeler or Los Angeles.

16. History: (a) First located by Mrs. Edith Lockhart and George Koest in 1937 who built campsite and furnishing six buildings; blacksmith shop, garage and tool house; built all roads to the property from the Saline Valley Road; sunk Red Talc shaft and Viking shaft to the 50-foot level. The property was leased to numerous parties on royalty basis from 1939 to 1949. About 2,000 tons shipped.

In 1949 Mrs. Lockhart obtained sole control of the property. The property has since been idle except for required assessment work. Lessees would not do any development or give property proper care was reason for suspension since 1949.

(b) Sierra Talc Company has been operating for past 35 years. Their property is located about 3 miles southeast of the Viking Talc.

(c) Have none.

17. Not in production at present.

18. (a) See report.
(b) No assays made.
(c) See report.

19. See report.

20. Talc.

21. Drive 500-foot tunnel below cellar of old shaft to explore for extensions of ore body. Estimated 9 months to complete the project.

22. Outcrops on surface and possible extension on depth to proposed tunnel level.

23. Requirements and Costs:

(a)	2 miners @ $12 day, 6 day week, time and a half for Saturday, 39 weeks @ $186/week	$ 6,084.00
(b)	Supervision @ $400/month	3,600.00
(c)	Repairs to roof of cookhouse, and misc.	500.00
(d)	Construction of buildings, etc.	---
(e)	Pick-up truck for transporting men & supplies	900.00
(f)	Rental mine car, 1 105-cu.ft. compressor, 1 jackhammer and hose and sundry tools @ $175/mo.	1,575.00
(g)	Rental of camp buildings, equipment, light plant, etc. at $150/mo.	1,350.00
(h)	Powder - $600., caps and fuse - $100., oil and gasoline $700., mine timber - $700., rail - $100., carbide - $100	2,300.00
(i)	Insurance - $775., water $50.00., misc. - $66	891.00
		$17,000.00

Summary

Rehabilitation	$ 300.00
500 feet drifting @ $25/ft	12,500.00
Equipment	3,725.00
Miscellaneous	475.00
	$17,000.00

DMA-1646X, Viking Talc

Answers to questions on Form MF-103

1. Individual

2. None

3. None

4. Associated with mining for 14 years. Husband was a mining man in California and Nevada. (b) James McNeil, former superintendent of Sierra Talc Company of California.

5. Owner

6. None

7. None needed

8. See financial statement

9. $1,700. Yes.

10. (a) Viking Talc mine, six claims (see map).
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13. Water hauled in by tank truck from Lone Pine - nominal rates. Gasoline driven air compressor.

14. See camp.

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16. History: (a) First located by Mrs. Edith Lockhart and George Keest in 1937 who built campsite and furnishing six buildings; blacksmith shop, garage and tool house; built all roads to the property from the Saline Valley Road; sunk Red Talc shaft and Viking shaft to the 50-foot level. The property was leased to numerous parties on royalty basis from 1939 to 1949. About 2,000 tons shipped.

In 1949 Mrs. Lockhart obtained sole control of the property. The property has since been idle except for required assessment work. Lessees would not do any development or give property proper care was reason for suspension since 1949.

(b) Sierra Talc Company has been operating for past 35 years. Their property is located about 5 miles southeast of the Viking Talc.

(c) Have none.

17. Not in production at present.

18. (a) See report.
(b) No assays made.
(c) See report.

19. See report.

20. Talc.

21. Drive 500-foot tunnel below collar of old shaft to explore for extensions of ore body. Estimated 9 months to complete the project.

22. Outcrops on surface and possible extension on depth to proposed tunnel level.

23. Requirements and Costs:

(a)	2 miners @ $12 day, 6 day week, time and a half for Saturday, 39 weeks @ $156/week	$ 6,084.00
(b)	Supervision @ $400/month	3,600.00
(c)	Repairs to roof of cookhouse, and misc.	300.00
(d)	Construction of buildings, etc.	---
(e)	Pick-up truck for transporting men & supplies	900.00
(f)	Rental mine car, 1 105-cu.ft. compressor, 1 jackhammer and hose and sundry tools @ $175/mo.	1,575.00
(g)	Rental of camp buildings, equipment, light plant, etc. at $150/mo.	1,350.00
(h)	Powder - $600., caps and fuse - $100., oil and gasoline $700., mine timber - $700., rail - $100., carbide - $100.	2,300.00
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		$17,000.00

Summary

Rehabilitation	$ 300.00
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Equipment	3,725.00
Miscellaneous	475.00
	$17,000.00

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

JUN 26 1951

Mr. H.C. Miller
1415 Appraisers Building
San Francisco, California

Dear Sir:

We attach "Review of Application for Exploration Assistance" on:

Docket No. DMA-1646X

Commodity Talc (Steatite)

Applicant Edith Lackhart P.O. Box 75, Darwin, California.

Please expedite the consideration of this application with particular reference to the points set out in the attached "Review."

Very truly yours,

Tom Lyon, Chairman
Coordinating Committee

For Bureau of Mines

For Geological Survey

mr Bart

6/5/51

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. DMA-1646X

Commodity Talc (Steatite)

Total Amount 17,000.00

Govt. Participation 90%

1. Name and Address of Applicant Edith Lockhart
P.O. Box 75, Darwin, California

2. Location of Property 6 miles from Darwin, California.
Inyo County, Calif.

3. Mineral or metal Talc (Steatite) Is it listed in Section 9 of MO-5? Yes

If not, application will be rejected.

4. Geologic probability of discovery—based on data in application (question #16, 17, 18, 20 and 22)*

Mines or Survey reports, etc., do you rate chances:

a) Good

b) Poor

c) None No information

d) Don't know—needs field examination Yes - Field examination

e) Is there an alternative and favorable project? JAR 6/14/51
(If so, attach an explanation)

5. Is the applicant's right to the property clearly stated? Yes, owner
(question 5, 6, 7)*

6. If applicant is a lessee, is a copy of the lease attached? —

Does the lease have sufficient time to run to cover a future productive period? —

*question numbers are those of MF-103

1646-R

7. Are subordination agreements necessary? NO

   a) MF-201? _____

   b) MF-202 _____

8. From the data presented, does the proposed project appear feasible from the point of view of:

   a) Available manpower yes

   b) Equipment and supplies yes
      (Question 14 plus general knowledge of availability)*

   c) Accessibility (question 12)* yes

   d) Water (question 13)* yes

   e) Power (question 13)* yes

   Is a field check needed on any of these points? NO

9. Does the experience of the applicant appear to be adequate to assure that he can properly conduct the proposed project? (question 4)* NO

   Is a field check needed on this point? yes

10. Exhibit A. (questions 21 and 22)*

   a) Is the project adequately described? No

      If not, are there sufficient data given so that you can describe the project? No If so, attach a draft.

   b) Is there an adequate map or sketch of the proposed work? No

   c) Is the proposed work "exploration" under the definition of Section 8, MO-5? Don't Know. Probably. JWR 6/14/81

      If not, what part of it is? The application contains no specific program - Applicant should outline exactly what Exploration is proposed -

1646-T

Is this part a worthwhile exploration project? Insufficient data

d) Are the cost estimates detailed? NO

Can they be summarized, as on page 2 of Procedural Instruction 5-A, from the available data? NO If so, attach a draft.

e) Are the cost estimates reasonable? Insufficient data

f) Should more information be requested from applicant? Yes

g) Is a field examination necessary to complete Exhibit A? Yes

11. Exhibit B (question 23-d)*

a) Is it applicable? Insufficient data

b) If so, are sufficient data furnished? NO If so, attach a draft.

c) Is a field check needed? Yes

12. Exhibit C (question 23-e, f and g)*

a) Is it applicable? Yes

b) Sufficient data? NO If so, attach a draft.

c) Are rents and charges reasonable? Insufficient data

d) Is a field check needed? Yes

13. Exhibit D (question 23-a, b)*

a) Are there sufficient data? NO

b) Is the schedule adequate for the work proposed? Insufficient data

c) Is the schedule excessive for the work proposed? ✓ ✓

d) Are the proposed wages and salaries reasonable? ✓ ✓

e) Is a field check needed? Yes

14. Exhibit E (question 23-c)*

a) Is it applicable? Apparently Not Applicable

b) Sufficient data? NO

c) Reasonable? Unknown

d) Field check needed? Yes

15. In your judgment, can the proposed work be done in the proposed time? Insufficient data

(All exploration must be completed within two years)

16. If field examination is not needed, attach your recommendation.

17. If field examination is needed, do you have any special instructions for the field team not indicated by your answers to the foregoing question? If Steatite is indicated in quantity & grade to justify Exploration then Assist Applicant to prepare a proposal with sufficient detail to enable a contract to be drawn - All questions on MF-103 must be fully answered - The original application as forwarded to Washington by Field Team is so incomplete as to be Practically worthless in evaluating the property for Exploration and furnishes no basis for completion of the necessary Contract Exhibits -

Reviewed by: R. [illegible]

Date 6/16/51

97692

Defense Minerals Administration
Reference Slip

Date 6-12-51

To: 1. Mr. Barr
2. Hadley
3.
4.

DMA 1646X

For Action ✓
Reply
Information
Remarks:

Sender Strobel (WG)

3
Mr. Strobel DMA
Forwarded to

Branch

Date

Sender

2
Mr. Strobel DMA
Forwarded to

Branch

Date

Sender

1
Mr. Strobel DMA
Forwarded to

Branch

Date

Sender

92758

dma 1646X

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
Region III

1415 Appraisers Bldg.
630 Sansome Street
San Francisco 11, Calif.

May 31, 1951

Memorandum

To: Defense Minerals Administration, Washington, D. C.

From: Executive Officer, DMA Field Team, Region III

Subject: Application for Aid for an Exploration Project

The attached application was received in this office on May 31, 1951.

Applicant: Edith Lockhart
P. O. Box 75
Darwin, California

Date of Application: May 29, 1951

Estimated Cost: $17,000.00

Mineral or Metal: talc (steatite)

Percentage of Government Participation: 90%

Location of Mine: Between Darwin and Keeler, Inyo County, Calif.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 6 - 1951
LANDON F. STROBEL
Executive Secretary

Postmarked May 31-1951

H. C. Miller

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

DMA-1646X, Viking Talc

Answers to questions on Form MF-103

1. Individual

2. None

3. None

4. Associated with mining for 14 years. Husband was a mining man in California and Nevada. (b) James McNeil, former superintendent of Sierra Talc Company of California.

5. Owner

6. None

7. None needed

8. See financial statement

9. $1,700. Yes.

10. (a) Viking Talc mine, six claims (see map).
(b) Unpatented claims in secs. 23, 24, & 25, T. 18 S., R. 39 E.

11. Viking talc mine

12. Two miles north on Saline Valley Road from road fork on Keeler-Death Valley Road. Two miles from paved highway - good gravel road; 11½ miles from Darwin, Calif.; shipping point Keeler - 17½ miles; groceries at Darwin; mine supplies delivered from Lone Pine, 30 miles.

13. Water hauled in by tank truck from Lone Pine - nominal rates. Gasoline driven air compressor.

14. See camp.

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(c) Have none.

17. Not in production at present.

18. (a) See report.
(b) No assays made.
(c) See report.

19. See report.

20. Talc.

21. Drive 500-foot tunnel below collar of old shaft to explore for extensions of ore body. Estimated 9 months to complete the project.

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(c)	Repairs to roof of cookhouse, and misc.	300.00
(d)	Construction of buildings, etc.	---
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(i)	Insurance - $775., water $50.00., misc. - $66	891.00
		$17,000.00

Summary

Rehabilitation	$ 300.00
500 feet drifting @ $25/ft	12,500.00
Equipment	3,725.00
Miscellaneous	475.00
	$17,000.00

UNITED STATES
DEPARTMENT OF THE INTERIOR
OSCAR L. CHAPMAN, SECRETARY

DEFENSE MINERALS ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMA-1646X, Viking Talc Mine

Inyo County, Calif.

E. J. Watson, Mining Engineer
U. S. Bureau of Mines

August 3, 1951

DOCKET DMA-1646X

UNITED STATES DEPARTMENT OF THE INTERIOR - BUREAU OF MINES

VIKING TALC MINE
Inyo County, Calif.

SUMMARY

The Viking talc property is in the North Coso Mining District, Inyo County, Calif., about 11½ miles northwest from Darwin. The property has been operated mostly by lessees. Very little development has been accomplished in regard to blocking out ore. The talc produced has been sold locally to the Sierra Talc Co. of Calif., who operate nearby talc mines and have milling facilities at Keeler, 17½ miles northwesterly from the property.

Talc ore has been mined from two places on the property, namely, the Red Talc mine and Viking mine, about one third mile apart, both from shallow shafts. The owner plans to concentrate on exploration work on the Viking mine by driving an adit into the hillside to intersect the mineralized zone.

The talc appears to be associated or replaced in a white siliceous formation which is bounded by dolomite.

A well equipped camp has been established by the owner on the property.

INTRODUCTION

The Viking talc mine was examined by an engineer[1] of the Bureau of Mines in connection with an application for exploration assistance. The property is owned by Mrs. Edith Lockhart, 346 S. Vermont Ave., Los

1/ E. J. Matson.

Angeles, Calif.

LOCATION

The Viking talc property is located in sec. 23, 24 and 25 of T. 18 S., R. 39 E., in Inyo County, Calif. It is reached by driving 16 miles southeasterly from Keeler, Calif. on state highway 190 to the Saline Valley road fork; thence 1 mile northerly on the Saline Valley road to a road fork with sign reading Viking Mine, and thence northwesterly on the Viking mine road about 1/2 mile to the Talc Queen (Viking mine) camp. Total distance from Keeler to the mine camp is 17½ miles. It is also 10 miles northwesterly from Darwin to the same Saline Valley road fork and thence 1½ miles over same road to camp or a total distance of 11½ miles from Darwin, Calif. The Keeler-Darwin highway is paved and the mine camp road is over a good gravel-dirt road.

HISTORY AND OWNERSHIP

The Viking talc property consists of six lode claims known as the Talc Queen, Talc Queen No. 1, Talc Queen No. 2, Talc Queen No. 3, Talc Queen Camp and Viking No. 18, all in one group (fig. 1). The Silver Dollar claim also owned by the applicant is about 2½ miles (airline) east from the Viking group. The Silver Dollar claim is not shown.

The claims were first located by Mrs. Edith Lockhart and George Koest of Darwin in 1937 who built the camp site and roads to the property. They sank the Red Talc shaft and also the Viking shaft to a depth of 50 feet.

The property later was leased out at numerous times on royalty basis from 1938 to 1949.

In 1939 Mrs. Lockhart obtained sole controll of the property and it has been idle since except for the required assessment work.

HOUSING AND LIVING ACCOMMODATIONS

A well equipped campsite has been established by the applicant; it consists of six cabins including a bunk house and cook house and four furnished houses (fig. 4). A Delco light plant furnishes electricity to all the cabins and each cabin is furnished with butane gas stoves for cooking and fuel oil stoves for heating. Water is hauled in from Lone Pine for mining and domestic purposes. Groceries and local supplies are obtained from Darwin, nearest trading center, a distance of 11½ miles.

MINE DEVELOPMENT

The Viking mine has been developed by an almost vertical shaft (fig. 5) down to a depth of 75 feet, thence inclined for another 25 feet, not accessible below 75 foot level. Two small levels have been established on the 50 and 75 foot depths, respectively. The Red Talc mine on the opposite end of the zone (fig. 5) is developed by two shafts 60 feet apart and 40 and 55 feet deep respectively, connected by a drift.

The Silver Dollar mine located on the Silver Dollar claim, 2½ miles east of the Viking group has been worked through a steeply dipping shaft and several hundred feet of underground workings. The shaft is reported to be inclined at 60 degrees for 100 feet and vertical for the remainder of the distance with no landings from the collar to the bottom. The Silver Dollar shaft was not entered due to unsafe conditions.

Due to the fact that the properties were operated by lessees and under little or no supervision by the owner, no attempts were made to properly block out ore in advance of mining. Unsystematic exploitation seems prevalent in most steatite-talc mining by lessees and usually after the lessees are through, the underground workings are in such bad condition that their rehabilitation is unprohibitive. The Viking and Red talc workings however, are in better condition than most small talc properties.

PRODUCTION

The owner states that about 2,000 tons of talc ore has been mined and shipped from the properties. The lessees received $12 per ton at the mine ore bins. The owner received a royalty for each ton shipped. All talc ore was bought by the Sierra Talc Company of California, who milled the ore at Keeler, Calif.

PHYSICAL FEATURES

The Viking and Red talc mines are at the southern end of the Inyo Mountains at an altitude of about 5,000 feet. The deposits are on a long southerly protruding ridge. Drainage from the area is northwesterly towards Owens Lake which is about 10 miles (airline) distant. No vegetation except desert sage grows in the area (fig. 2). The locality is typical of the desert regions, consisting of dry, hot summers with little or no precipitation. Winters, however, are mild and pleasant.

DESCRIPTION OF THE DEPOSITS

The chief geologic feature in the vicinity is a silicified belt of white rock resembling quartzite with a regional strike of N. 60° W. and dipping about 45° to the northeast. This silicified belt apparently

forms the ridge and is banded on both sides by dolomite. Numerous strong fractures or slip planes occur roughly paralleling the dip of the bedding.

The talc appears to be a replacement in the white quartzite-looking formation relatively near the contact with the dolomite. The talc occurs in irregular replacement bodies. It appears to be a white talc with some slight limonite stain on the slippage planes. The talc is not uniformly massive but in thin laminated bands caused by pressure.

SAMPLING

Two character samples were taken at the Viking mine.

No. 1 sample was taken across the face of the 75-foot level and No. 2 was taken from material in the ore chute. Figure 1 shows location of samples. Both samples were sent to the Bureau of Mines Laboratory at College Park, Maryland, for analyses to determine if the talc is of steatite grade.

The petrographic and spectroscopic tests made on the above samples at College Park showed that they could not be classified as a high grade steatite. The report states:

"These samples are light green, massive, with tendency to foliation. The iron content is greater than 1 percent by spectroscopic determination. Minor impurities are hematite, calcite, dolomite, opaques, tremolite, rutile and goethite. Hematite and rutile occur as minute inclusions in the talc. Blocks of sufficient size (specifications 2"x2"x3") and purity for steatite insulators could not be cut from these samples."

ORE RESERVES

No ore has been blocked out from which reserves can be estimated. Due to irregularities of talc replacement deposits, it is difficult to calculate ore reserves especially where lessees have been extracting

ore. However, it can be assumed, several hundred tons of talc is indicated at the Viking Mine. Inferred ore reserves can be large, especially if continuity is established between the Viking and Red Talc mines. Indications are that both workings are on the same belt and talc replacement can be expected along the contacts of the dolomite and siliceous quartzite-looking formations which extend between both workings.

PROPOSED EXPLORATION

The applicant proposes to drive an adit (fig. 1) to intersect the talc mineralized zone at the Viking Mine area. The adit would be about 250 feet in length, possibly less, depending where talc is encountered. If the adit is less than 250 feet, then a crosscut northeast would be in order, so as to get the width of the zone. The adit would be approximately at the same level as the bottom of the old Viking Shaft. The adit would eliminate hoisting and reduce mining costs. Rehabilitating the old shaft would be costly.

CONCLUSIONS

The talc does not measure up to strategic steatite (block) grade and it is unlikely that exploration assistance is warranted. Therefore, a loan is not recommended.

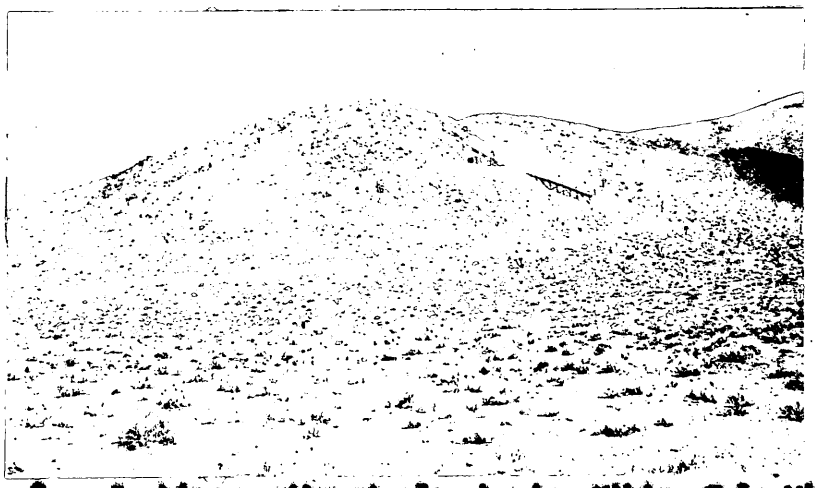

Fig. 2. - Looking northwesterly showing Viking Talc Mine. Red Talc Mine is at opposite slope of ridge and not visible.

Fig. 5. - Red Talc Mine surface workings. Shaft is at upper left. Chutes are for transporting ore down to road for loading into trucks.

Fig. 3. - Close-up showing Viking Talc Mine shaft.

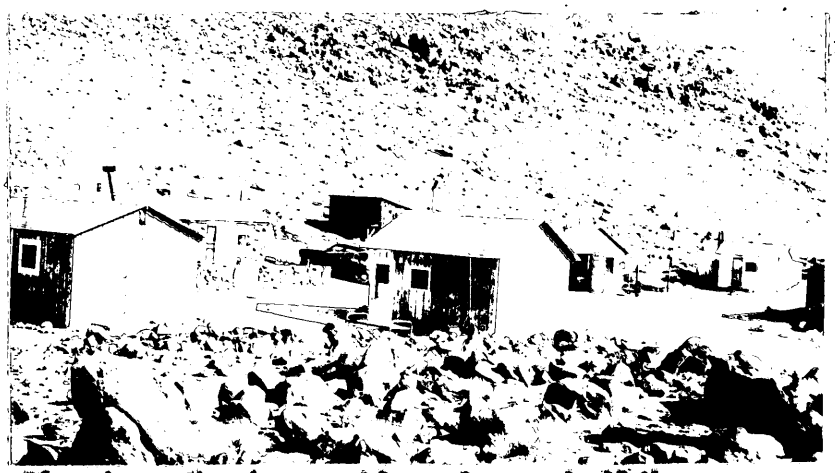

Fig. 4. - Showing portion of camp buildings on Talc Queen claim.

Refer to	Noted	Date
Answered		

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

JUN 26 1951

DEPARTMENT OF INTERIOR
BUREAU OF MINES
REGION III
RECEIVED
JUN 29 1951
SAN FRANCISCO, CALIFORNIA

Mr. H.C. Miller
1415 Appraisers Building
San Francisco, California

Dear Sir:

We attach "Notice of Application for Exploration Assistance" on:

Docket No. DMA-1646X

Commodity Talc (Steatite)

Applicant: Edith Lackhart P.O. Box 75, Darwin, California.

Please expedite the consideration of this application with particular reference to the points set out in the attached "Notice."

Very truly yours,

Tom Lyon

Tom Lyon, Chairman
Coordinating Committee

Lowell B. Moon
For Bureau of Mines

Edwin T. McKnight
For Geological Survey

6/5/51

Defense Minerals Administration

Review of Application for Exploration Assistance

Docket No. DMA-1648 X

Commodity Talc (Steatite)

Total Amount 17,000.00

Govt. Participation 50%

1. Name and Address of Applicant Edith Lockhart
P.O. Box 75, Darwin, California

2. Location of Property 6 miles from Darwin [illegible]
Inyo County, Calif.

3. Mineral or metal Talc (Steatite) Is it listed in Section 9 of MO-5? Yes

If not, application will be rejected.

4. Geologic probability of discovery—based on data in application (question #16, 17, 18, 20 and 22)*

Mines or Survey reports, etc., do you rate chances:

a) Good

b) Poor

c) None No information

d) Don't know—needs field examination Yes - Field examination

e) Is there an alternative and favorable project? Yes (Talc)
(If so, attach an explanation)

5. Is the applicant's right to the property clearly stated? Yes, owner
(question 5, 6, 7)*

6. If applicant is a lessee, is a copy of the lease attached? —

Does the lease have sufficient time to run to cover a future

productive period? —

*question numbers are those of MF-103

1645-A

7. Are subordination agreements necessary? NO

   a) MF-201? _____

   b) MF-202 _____

8. From the data presented, does the proposed project appear feasible from the point of view of:

   a) Available manpower Yes

   b) Equipment and supplies Yes
      (Question 14 plus general knowledge of availability)*

   c) Accessibility (question 12)* yes

   d) Water (question 13)* Yes

   e) Power (question 13)* Yes

   Is a field check needed on any of these points? NO

9. Does the experience of the applicant appear to be adequate to assure that he can properly conduct the proposed project? (question 4)* NO

   _____

   Is a field check needed on this point? Yes

10. Exhibit A. (questions 21 and 22)*

   a) Is the project adequately described? No

      If not, are there sufficient data given so that you can describe the project? No If so, attach a draft.

   b) Is there an adequate map or sketch of the proposed work? No

      _____

   c) Is the proposed work "exploration" under the definition of Section 8, MO-5? Don't Know. Probably. Just Guess

      If not, what part of it is? The application contains no specific program. Applicant should outline exactly what Exploration is proposed.

16lb-8

Is this part a worthwhile exploration project? Insufficient data

d) Are the cost estimates detailed? NO

Can they be summarized, as on page 2 of Procedural Instruction 5-A, from the available data? NO If so, attach a draft.

e) Are the cost estimates reasonable? Insufficient data

f) Should more information be requested from applicant? Yes

g) Is a field examination necessary to complete Exhibit A? Yes

11. Exhibit B (question 23-d)*

a) Is it applicable? Insufficient data

b) If so, are sufficient data furnished? NO If so, attach a draft.

c) Is a field check needed? Yes

12. Exhibit C (question 23-e, f and g)*

a) Is it applicable? Yes

b) Sufficient data? NO If so, attach a draft.

c) Are rents and charges reasonable? Insufficient data

d) Is a field check needed? Yes

13. Exhibit D (question 23-a, b)*

a) Are there sufficient data? NO

b) Is the schedule adequate for the work proposed? Insufficient data

c) Is the schedule excessive for the work proposed? ✓ ✓

d) Are the proposed wages and salaries reasonable? ✓ ✓

e) Is a field check needed? Yes

14. Exhibit E (question 23-c)*

a) Is it applicable? Apparently Not Applicable

b) Sufficient data? NO

c) Reasonable? Unknown

d) Field check needed? Yes

15. In your judgment, can the proposed work be done in the proposed time? Insufficient data

(All exploration must be completed within two years)

16. If field examination is not needed, attach your recommendation.

17. If field examination is needed, do you have any special instructions for the field team not indicated by your answers to the foregoing question? If Gravite is authented in quantity & grade to justify Exploration then Assist Applicant to prepare a proposal with sufficient detail to enable a contract to be drawn - All questions on Merits must be fully answered - The original application as forwarded to Washington by that Team is so incomplete as to be Practically worthless in evaluating the property for Exploration and furnishes no basis for completion of the necessary Contract Exhibits -

Reviewed by: R. Mackey

Date 6/16/71

97692

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

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

DO NOT FILL IN THIS BLOCK

Docket No. dma 1646X

Date received 6-6-51

Participation

DEPARTMENT OF INTERIOR
BUREAU OF MINES
REGION III
RECEIVED
JUN 29 1951
SAN FRANCISCO, CALIFORNIA

DEPARTMENT OF INTERIOR
BUREAU OF MINES
REGION III
RECEIVED
MAY 31 1951
SAN FRANCISCO, CALIFORNIA

Name and address of applicant

Edith Lockhart
P.O. Box 75
Darwin, California

Date May 29, 1951

FILL IN THIS BLOCK

Date of application May 29, 1951

Estimated cost $17,000.00

Mineral or metal Gale (stibnite)

Percentage of Government participation 90%

Location of mine Darwin Borax and Cooler
Inyo County, Calif.

Date of filing MF-100

DMA Docket Number, if available

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four signed copies of the application to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive officer thereof, with your name and address on each sheet of the application and all accompanying papers. If any question is inapplicable, or if you cannot answer it, so state on the form. Where the space provided for answer is insufficient, answer on a separate sheet, annex it to the application form, and refer to it in space for answer. If the application is approved, you will be presented with an exploration project contract on Form MF-200, for your signature.

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation?
*2. If a partnership, state names and addresses of partners.
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.
*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project.
*5. Are you the owner or the lessee of the property?
6. If owner, state what claims, liens, or encumbrances, if any, are against the property.
7. If lessee, attach a copy of the lease and state if it is in good standing.

NOTE.—It will be necessary to procure and attach to the exploration project contract agreements of claimants, lienors, encumbrances and lessors subordinating their interests in the property to the interest of the Government under the contract.

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.
9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)?

*If you have already answered these questions on MF-100, you are not required to answer the questions for this application.

16—64067-1

REPRODUCED BY LOS ANGELES CHAMBER OF COMMERCE

REPRODUCED BY THE LOS ANGELES CHAMBER OF COMMERCE

THE PROPERTY

10. (*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.
    (*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

    NOTE.—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 (*b*) 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.

*11. State the present and former names of the property, if any.
*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.
*13. State source and quantity of water available for operations and its sufficiency at all seasons.
State amount of power to be used, rate per hour or other cost, and source.
*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.
15. State in detail how the ore could be shipped and how and where milled.
*16. History:
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
    (*b*) State briefly the known history and production of adjoining and neighboring properties.
    (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.
*17. Production:
    (*a*) If mine is in production, furnish the following information:

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
(1) Mining				
(2) Milling				
(3) Shipped or sold				

*18. Ore or mineral reserves: (If property is or has been operating.)
    (*a*) Describe the ore or mineral deposits briefly.
    (*b*) Submit available maps and assay data.
    (*c*) Give estimated tonnage and grade of each class of ore reserves.
19. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?
21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.

    NOTE.—The Government will not participate in a project that will require more than 2 years to complete.

22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data.

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:
    (*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.
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    (*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.
    (*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.
    (*i*) Cost of power, water, utilities, and any other items not provided for above.
24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent.

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.

Mrs Edith Lockhart By _____
(~~Name of company~~) (Signature of authorized official)

Darwin Calif Box 75
(Date) (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.

*Same as footnote on page 1.

IN RE: MINERAL ORDER 5 UNDER DEFENSE PRODUCTION ACT OF 1950

FORM TO BE ATTACHED TO APPLICATION FOR AID FOR EXPLORATION PROJECT.

MINERAL INVOLVED. TALC (Steatite)

PROPERTY - This property consists of seven full claims known as Viking Talc mines located about six miles from Darwin between Keeler and Darwin and one full claim known as Silver Dollar No. 2 about four miles from the Viking Group and a short distance from Talc City. All of these claims are free and clear of all encumbrances or liens, and located in Inyo County, California.

OWNER - The applicant here is an individual; Mrs. Edith Lockhart, Box 75 Darwin, California.

ACCESSIBILITY - Good gravel roads lead directly to this property from paved highways: 2 miles on Saline Valley Road, from Keeler-Darwin Highway

DEVELOPMENT * This property has been opened up to a very limited extent through small leases during the past few years, and applicant believes it can be placed on production very quickly and with a comparatively small investment, probably not to exceed Seventeen thousand ($17,000.00) Dollars.

CAMP - A good, workable camp is available on the property, consisting of six furnished houses and other accessible out-buildings, electricity; fuel oil for heat, butane gas; gravity water from tanks on nearby promontory.

EQUIPMENT - There is immediate accessible equipment near the property which can be had for a very reasonable rental value for all mining and exploration purposes.

MANAGEMENT - The owner has had more than twelve years experience working with talc property and has secured as manager of this project, Mr. James McNeil, an experienced and reliable mining man with a fine background.

GEORGE M. PIERSON
ATTORNEY AT LAW
LOS ANGELES

LABOR - Adequate labor for all purposes is available at all times.

FINANCIAL - Applicant is financially able at all times to furnish her ten percentage of costs and refers to the Security First National Bank of Los Angeles, 958 So. LaBrea Street, for particulars.

HISTORY and ASSAYS - The present owner is one of the original locators and the property has never been out of her name. She has acquired all interests of the other locators. All claims are duly recorded at Independence, County seat of Inyo County. So far all talc removed has been handled through the Talc mill at Keeler, 18 miles from the property at $12.00 per ton. Applicant believes exploration operations can be adequately carried out, at a cost not to exceed $1000.00 per month. The talc on this property has been proven to be very free from lime and other impurities.

GEORGE M. PIERSON
ATTORNEY AT LAW
LOS ANGELES

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 6 - 1961
LANDON F. STROBEL
Executive Secretary

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

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

DO NOT FILL IN THIS BLOCK

Docket No. dma 1646 X

Date received 6-6-51

Participation

Edith Lockhart
P.O. Box 75
Darwin, California

DEPARTMENT OF INTERIOR
BUREAU OF MINES
REGION III
RECEIVED
MAY 31 1951
SAN FRANCISCO, CALIFORNIA

Name and address of applicant

Date May 29, 1951

FILL IN THIS BLOCK

Date of application May 29, 1951

Estimated cost $17,000.00

Mineral or metal talc (steatite)

Percentage of Government participation 90%

Location of mine Between Darwin and Keeler
Inyo County, Calif.

Date of filing MF-100

DMA Docket Number, if available

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16—64067-1

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(Name of company)

By _____
(Signature of authorized official)

Darwin Calif Box 757
(Date)

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DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
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LANDON F. STROBEL
Executive Secretary

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

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

DO NOT FILL IN THIS BLOCK

Docket No. DMA 1646X

Date received 6-6-51

Participation

DEPARTMENT OF INTERIOR
BUREAU OF MINES
REGION III
RECEIVED
MAY 31 1951
SAN FRANCISCO, CALIFORNIA

Name and address of applicant

Edith Lockhart
P.O. Box 75
Darwin, California

Date May 29, 1951

FILL IN THIS BLOCK

Date of application May 29, 1951

Estimated cost $17,000.00

Mineral or metal Gold (placer)

Percentage of Government participation 90%

Location of mine Coburn Darwin and Keeler
Inyo County, Calif.

Date of filing MF-100

DMA Docket Number, if available

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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.

Mrs Edith Lockhart By _____
(Name of company) (Signature of authorized official)

Darwin Calif Oct 75 _____
(Date) (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.

*Same as footnote on page 1.

IN RE: MINERAL ORDER 5 UNDER DEFENSE PRODUCTION ACT OF 1950

FORM TO BE ATTACHED TO APPLICATION FOR AID FOR EXPLORATION PROJECT.

MINERAL INVOLVED. TALC (Steatite)

PROPERTY - This property consists of seven full claims known as Viking Talc mines located about six miles from Darwin between Keeler and Darwin and one full claim known as Silver Dollar No. 2 about four miles from the Viking Group and a short distance from Talc City. All of these claims are free and clear of all encumbrances or liens, and located in Inyo County, California.

OWNER - The applicant here is an individual; Mrs. Edith Lockhart, Box 75 Darwin, California.

ACCESSIBILITY - Good gravel roads lead directly to this property from paved highways, 2 miles on Saline Valley Road, from Keeler-Darwin Highway

DEVELOPMENT - This property has been opened up to a very limited extent through small leases during the past few years, and applicant believes it can be placed on production very quickly and with a comparatively small investment, probably not to exceed Seventeen thousand ($17,000.00) Dollars.

CAMP. - A good, workable camp is available on the property, consisting of six furnished houses and other accessible out-buildings, electricity; fuel oil for heat, butane gas; gravity water from tanks on nearby promontory.

EQUIPMENT - There is immediate accessible equipment near the property which can be had for a very reasonable rental value for all mining and exploration purposes.

MANAGEMENT - The owner has had more than twelve years experience working with talc property and has secured as manager of this project, Mr. James McNeil, an experienced and reliable mining man with a fine background.

GEORGE M. PIERSON
ATTORNEY AT LAW
LOS ANGELES

LABOR - Adequate labor for all purposes is available at all times.

FINANCIAL - Applicant is financially able at all times to furnish her ten percentage of costs and refers to the Security First National Bank of Los Angeles 958 So. LaBrea Street, for particulars.

HISTORY and ASSAYS - The present owner is one of the original locators and the property has never been out of her name. She has acquired all interests of the other locators. All claims are duly recorded at Independence, County seat of Inyo County. So far all talc removed has been handled through the Talc mill at Keeler, 18 miles from the property, at $12.00 per ton. Applicant believes exploration operations can be adequately carried out, at a cost not to exceed $1000.00 per month. The talc on this property has been proven to be very free from lime and other impurities.

GEORGE M. PIERSON
ATTORNEY AT LAW
LOS ANGELES

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
Postmarked May 31-1951
JUN 6 - 1951
LANDON F. STROBEL
Executive Secretary

FILE COPY
SURNAME:

Baw
Moon
McKnight for Rove

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

June 19, 1951

docket mailed 6/26/51

Edith Lackhart
P.O. Box 75
Darwin, California

Subject: DMA-1646X
Talc (Steatite)

Dear Madam:

Your application is being referred to Mr. H.C. Miller 1415 Appraisers Building, San Francisco, Californis, Executive Officer of the Field Team, Region III, for further information.

Sincerely yours,

Tom Lyon

Tom Lyon, Director
Supply Division

RW:mas

cc: Administrator's Reading File
Mr. Strobel
Field Team
Mr. Barr
DMA Files

DMA 1646

258

FILE COPY
SURNAME:

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

June 19, 1951

Miss Edith Lockhart
P. O. Box 75
Darwin, California

Subject: DMA-1646
Re: Exploration loan
Viking Talc Mines

My dear Miss Lockhart:

Receipt is acknowledged of your application and attachments of May 29, 1951 for an exploration loan under the Defense Production Act of 1950.

The application was assigned Docket Number DMA-1646X and was referred to Mr. James A. Barr, Chief, Industrial Minerals Branch on June 12, 1951.

In any future correspondence relating to your application, kindly refer to DMA-1646X.

Sincerely yours,

LANDON F. STROBEL

Landon F. Strobel
Executive Secretary

LFSTROBEL:Jeb
cc: Strobel-2
Files
Barr
Lyon

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

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

DO NOT FILL IN THIS BLOCK

Docket No. dma 1646 X

Date received 6-6-51

Participation

Edith Lockhart
P.O. Box 75
Darwin, California

DEPARTMENT OF INTERIOR
BUREAU OF MINES
REGION III
RECEIVED
MAY 31 1951
SAN FRANCISCO, CALIFORNIA

Name and address of applicant

Date May 29, 1951

FILL IN THIS BLOCK

Date of application May 29, 1951

Estimated cost $17,000.00

Mineral or metal talc (steatite)

Percentage of Government participation 90%

Location of mine Between Darwin and Keeler
Inyo County, Calif.

Date of filing MF-100

DMA Docket Number, if available

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four signed copies of the application to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive officer thereof, with your name and address on each sheet of the application and all accompanying papers. If any question is inapplicable, or if you cannot answer it, so state on the form. Where the space provided for answer is insufficient, answer on a separate sheet, annex it to the application form, and refer to it in space for answer. If the application is approved, you will be presented with an exploration project contract on Form MF-200, for your signature.

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation?
*2. If a partnership, state names and addresses of partners.
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.
*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project.
*5. Are you the owner or the lessee of the property?
6. If owner, state what claims, liens, or encumbrances, if any, are against the property.
7. If lessee, attach a copy of the lease and state if it is in good standing.

NOTE.—It will be necessary to procure and attach to the exploration project contract agreements of claimants, lienors, encumbrances and lessors subordinating their interests in the property to the interest of the Government under the contract.

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.
9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)?

*If you have already answered these questions on MF-100, you are not required to answer the questions for this application.

16—64067-1

REPRODUCED BY LOS ANGELES CHAMBER OF COMMERCE

REPRODUCED BY THE LOS ANGELES CHAMBER OF COMMERCE

THE PROPERTY

10. (*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.
    (*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

    NOTE.—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 (*b*) 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.

*11. State the present and former names of the property, if any.

*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.

*13. State source and quantity of water available for operations and its sufficiency at all seasons.
State amount of power to be used, rate per hour or other cost, and source.

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.

15. State in detail how the ore could be shipped and how and where milled.

*16. History:
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
    (*b*) State briefly the known history and production of adjoining and neighboring properties.
    (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

*17. Production:
    (*a*) If mine is in production, furnish the following information:

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
(1) Mining				
(2) Milling				
(3) Shipped or sold				

*18. Ore or mineral reserves: (If property is or has been operating.)
    (*a*) Describe the ore or mineral deposits briefly.
    (*b*) Submit available maps and assay data.
    (*c*) Give estimated tonnage and grade of each class of ore reserves.

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

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?

21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.

    NOTE.—The Government will not participate in a project that will require more than 2 years to complete.

22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data.

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:
    (*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.
    (*b*) Supervisors, by numbers and positions, with salaries of each.
    (*c*) Cost of necessary repairs to existing facilities, structures, and buildings.
    (*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.
    (*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.
    (*f*) Cost of rental for equipment which the operator proposes to rent.
    (*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.
    (*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.
    (*i*) Cost of power, water, utilities, and any other items not provided for above.

24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent.

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(Date) (Title)

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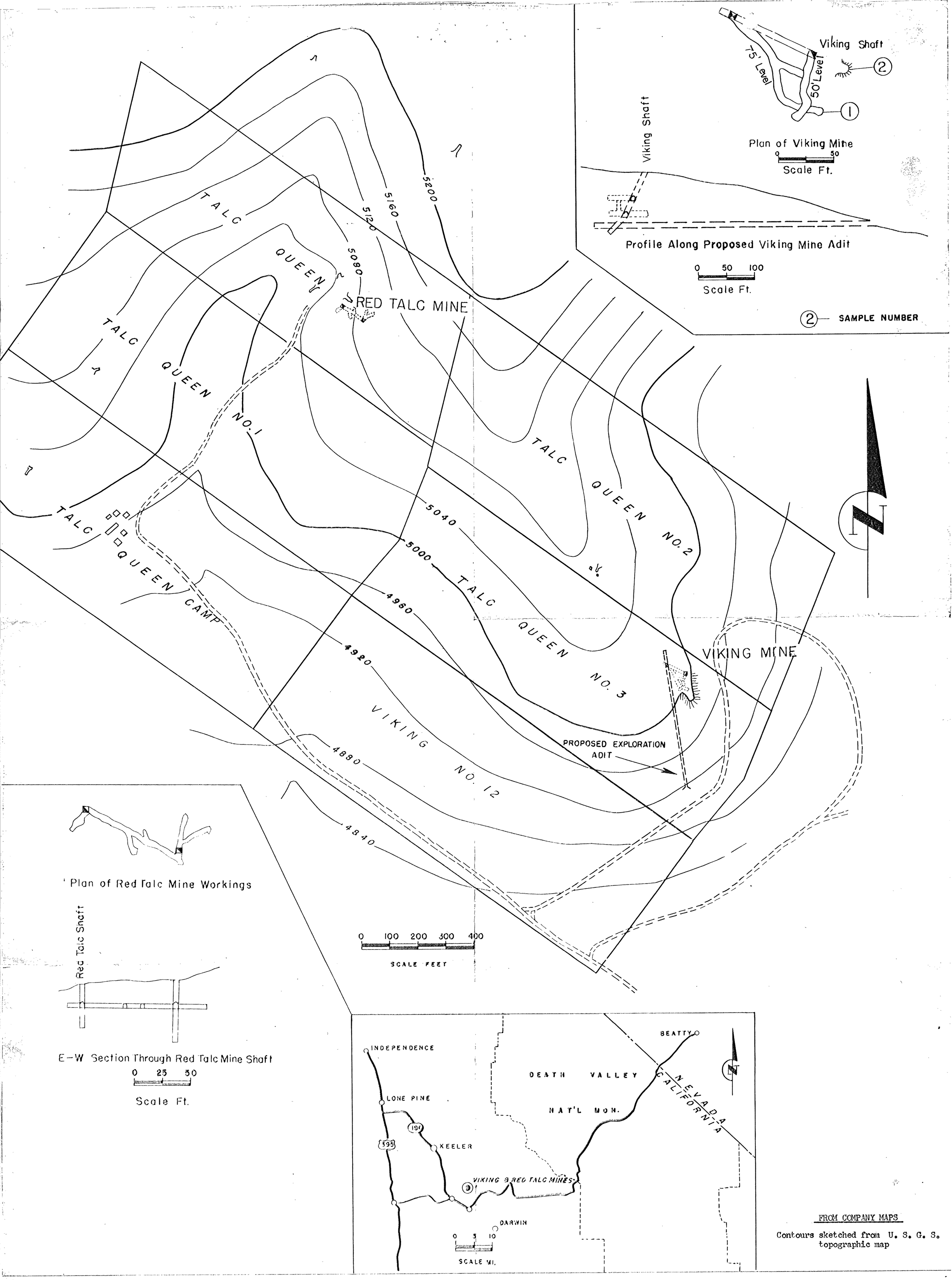
ATTORNEY AT LAW
LOS ANGELES

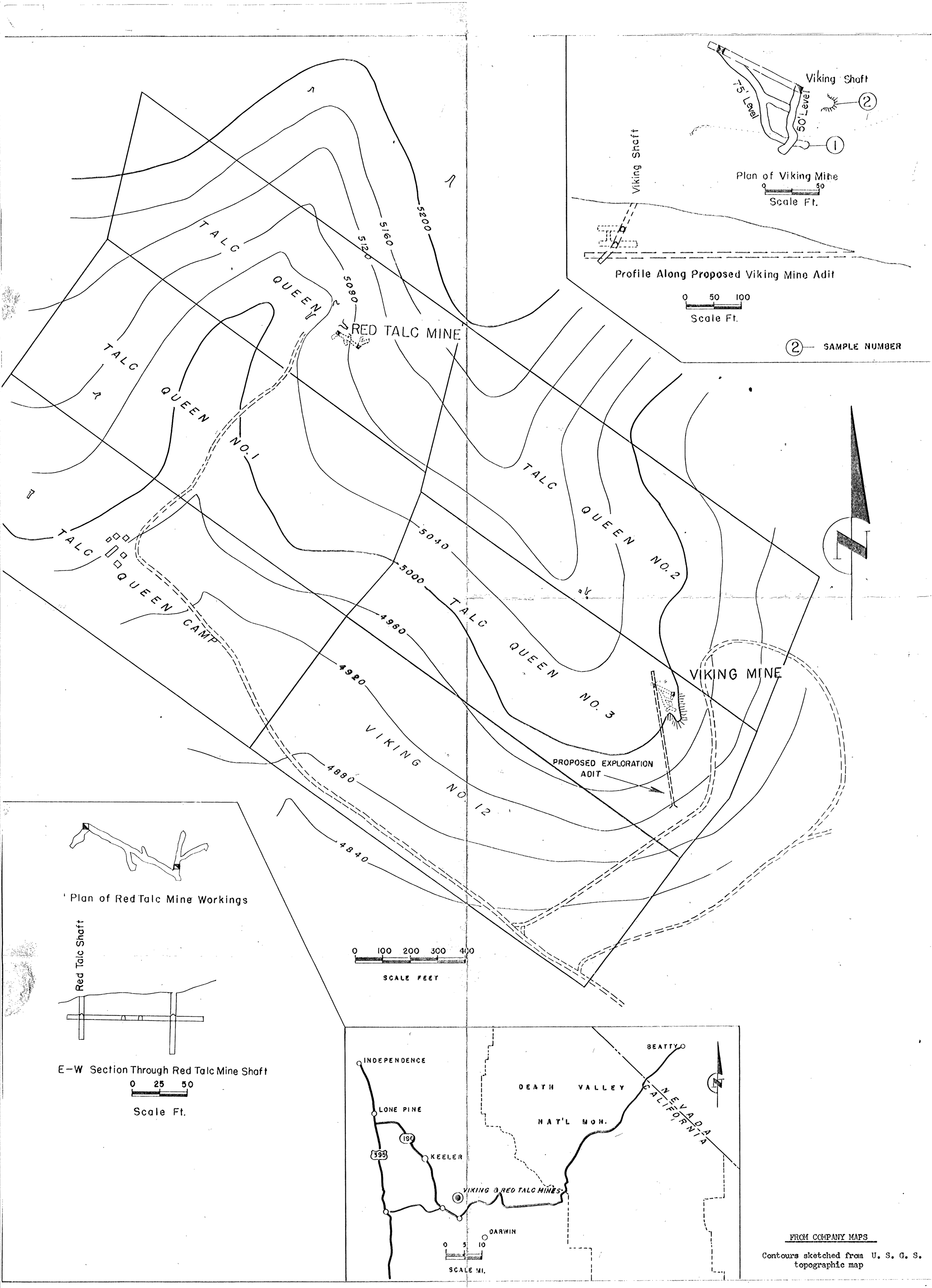
DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUN 6 - 1951
LANDON F. STROBEL
Executive Secretary



FROM COMPANY MAPS

Contours sketched from U. S. G. S. topographic map

FIG. 1 VIKING AND RED TALC MINES INYO COUNTY, CALIFORNIA



FROM COMPANY MAPS

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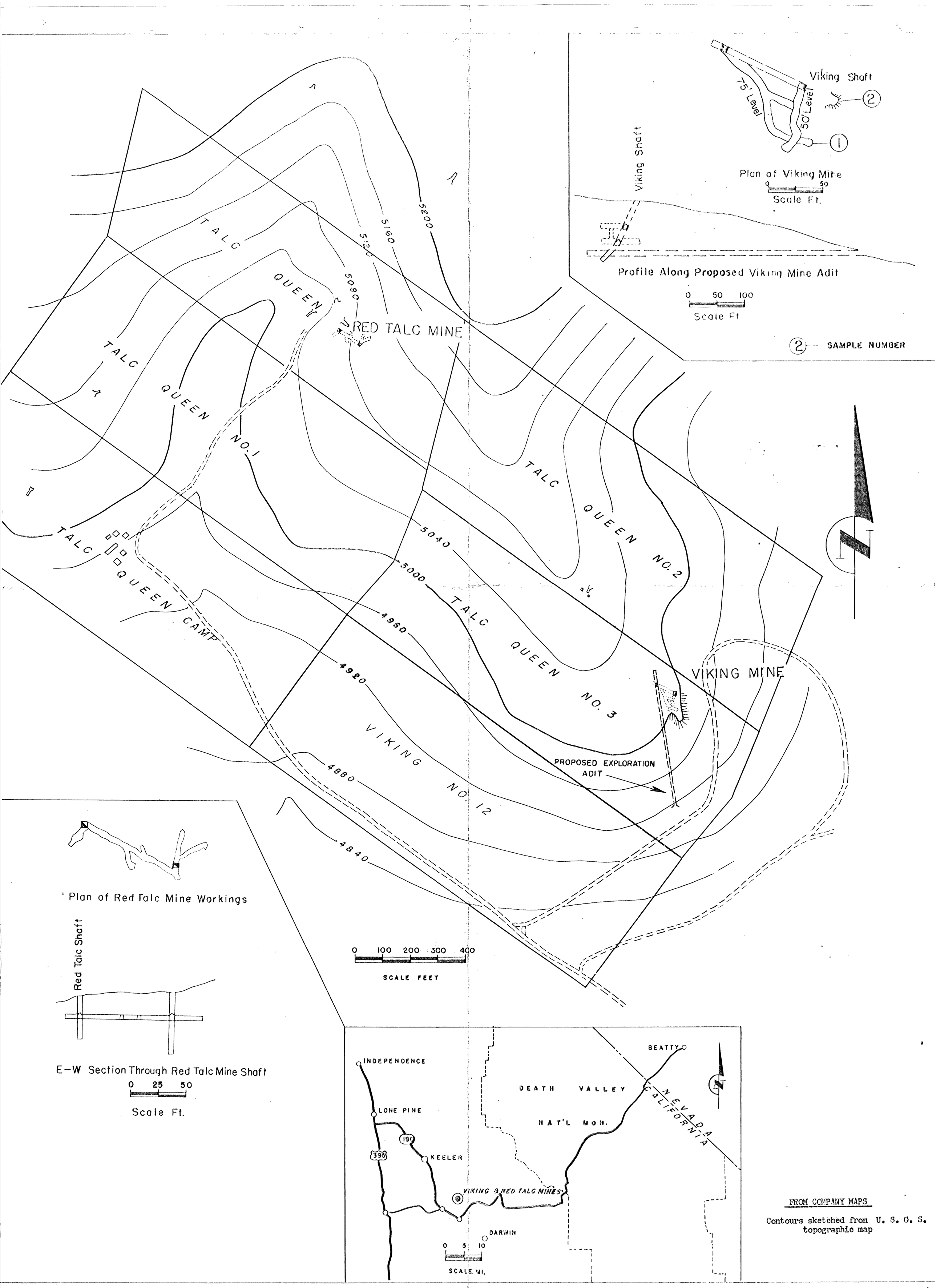
FIG. I VIKING AND RED TALC MINES INYO COUNTY, CALIFORNIA



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