400

DEC - 6 1955

Mr. Thomas Waggoner
236 South Main Street
St. George, Utah

Re: Docket No. DMEA 3951 - Mercury
Scarlet Lady Claim
Washington County, Utah

Dear Mr. Waggoner:

Your application for aid for an exploration project and other data available to us in Washington concerning the above-referenced property have been reviewed.

Projects approved by the Defense Minerals Exploration Administration must, in its judgment, show definite promise of yielding materials of acceptable grade in quantities that will significantly improve the mineral supply position for the National Defense Program.

Careful study of our information, although noting a small amount of mercury mineralization on the Scarlet Lady claim, indicates to us that the probability of disclosing minable mercury ore reserves by your proposed program is not sufficiently promising to justify Government participation. Under these circumstances, we regret to advise you that your application is denied.

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

Sincerely yours,

Oscar L. Chapman

Acting Administrator

cc: Docket
Code 400
Oper. Committee
Adm. Read, File
Helena Meyer, USBM
Thor Kiilsgaard, USGS
FT, Reg. 3

TLChapman/ls
12/2/55

denied

400

December 2, 1955

MEMORANDUM

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division, DMEA

Subject: Denial of request for exploration assistance to the amount of $7,599.80
Docket No. DMEA-3951, Mercury
Thomas Waggoner
Scarlet Lady Claim
Washington County, Utah

Denial of the subject application is recommended by this Division based on the following information:

(1) The applicant, Thomas Waggoner, 236 South Main St., St. George, Utah, requested exploration assistance in the amount of $7,599.80, Government participation at 75 percent - $5,699.85, for 150 feet of drifting and crosscutting.

(2) The applicant owns, by right of location, the Scarlet Lady claim, an unpatented lode mining claim, in Washington County, Utah.

(3) The proposed program is to explore a broken limestone bed by drifting and crosscutting for mercury ores.

(4) The property shows some weak mercury mineralization, but shows little or no promise of developing any significant and minable ore bodies. Grab samples taken by the examining engineer from the three pits in a broken, iron-stained zone about 40-feet wide, assayed less than 0.01 percent mercury.

(5) The Field Team concludes that the application for exploration assistance should be denied. The Commodity Divisions of the Geological Survey and the Bureau of Mines concur in this recommendation.

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

cc: Docket
Code 400
Adm. Read. File
Oper. Committee
TLChapman/ls

400

IN REPLY REFER TO:

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

November 23, 1955

Copy retained 400

Re: DMEA 3951
Thomas Waggoner
Scarlet Lady claim
Washington Co., Utah
$7,599.80 - Mercury

Memorandum

To: W. S. Martin, Defense Minerals Exploration Administration

From: N. E. Nelson, U. S. Geological Survey

Subject: Review of Field Team report.

The applicant requested assistance in the driving of 150 feet of drift and crosscut to explore a broken zone in limestone claimed to be mercury-bearing.

The examiners found that the best material taken from the pits assayed less than 0.01 percent mercury. Subgrade material has been found on a property about 1 mile northeast of this showing (Whitehead and Whitehead, DMEA 3828). An application for assistance in exploring the Whitehead property was denied.

I concur with the recommendation of denial of the examiners and the Field Team.

N. E. Nelson

N. E. Nelson

NENelson:iml
G-11/23/55
cc: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
M. M. Meyer, 3623

RECEIVED
NOV 25 1955

Copy retained

RECEIVED 400
NOV

November 22, 1955

Memorandum

To: W. S. Martin, Defense Minerals Exploration Administration

From: J. W. Pennington, Branch of Base Metals

Subject: Review of Engineering and Geologic Report of Examination Docket No. DMEA 3951 (mercury) Thomas Waggoner, Scarlet Lady Claim, Washington County, Utah, $7,599.80

The grab samples taken from the pits in the applicant's claim assayed less than 0.01 percent mercury. No mercury minerals are detected, and the pinkish colored material termed cinnabar by the applicant is believed to be iron oxide.

In addition, there is little evidence that sufficient mercury mineralization will be encountered to warrant the proposed exploration.

I concur with the recommendation of the Field Team that the applicant's request for Government assistance to explore the Scarlet Lady Claim be denied.

J. W. Pennington

J. W. Pennington

Copy to: Division of Minerals
Branch of Base Metals
J. W. Pennington
R. W. Geehan
Thor Kiilsgaard, U.S.G.S.
F i l e s

400

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

RECEIVED NOV 1

November 10, 1955

224 New Customhouse
Denver 2, Colorado

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Field Team, Region III

Subject: Engineering and Geologic Report of Examination, DMEA Docket 3951 (Mercury), Thomas Waggoner, Scarlet Lady Claim, Washington County, Utah

Enclosed are the original and three copies of the report pertaining to the above application.

The examiners conclude that Government participation in the exploration of this claim is not warranted. We concur with their recommendation that the application be denied.

W. H. Trexler

By J. W. Townsend

E. H. Harshman

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE

(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 1, UTAH

RECEIVED
NOV 17 1955
DMEA
Rec'd.

400

November 4, 1955

BUREAU OF MINES
Denver, Colorado

TRANSMITTED
NOV 10 1955

Memorandum

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

From: Stephen R. Wilson

Subject: Docket No. DMEA-3951 (Mercury), Thomas Waggoner, Scarlet Lady claim, Washington County, Utah.

Enclosed are original and eight copies of an engineering report pertaining to DMEA examination of the Scarlet Lady claim, Washington County, Utah. The report was prepared by M. M. Gilkey. Also included are copies of a separate section, Summary, Conclusions and recommendations, and a copy of the brochure.

The applicant has requested a loan of $7,599.80 to perform 150 feet of drifting and crosscutting. Rocks exposed in this area consist primarily of the Kaibab limestone formation of Permian age. A shattered zone in this formation, approximately 40 feet wide, is reported by the applicant to contain appreciable mercury. Three shallow exploratory pits have been excavated in the zone. No mercury minerals are visible. Samples taken by the examining engineer assayed less than 0.01 percent mercury.

The examining engineer concludes that Government participation in exploration proposed by the applicant is not warranted. The mercury mineralization is weak and little chance exists that improvement may be expected laterally or vertically. The examining engineer recommends that the request for Government assistance be denied. I concur in this recommendation.

Stephen R Wilson
Stephen R. Wilson

Enclosure

cc: J. B. Clemmer

Reviewed by
DMEA OPERATING COMMITTEE

(date)

RECEIVED
NOV 17 1955
TRANSMITTED
NOV 10 1955

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

By E. W. Osterstock and M. M. Gilkey

An application for Government assistance in exploring the Scarlet Lady mercury property, Washington County, Utah, was submitted by Thomas Waggoner during August 1955. The applicant has requested a loan of $7,[illegible].20 to perform 150 feet of drifting and crosscutting. The property was examined by DMEA personnel during September 1955.

Rocks exposed in the area of the Scarlet Lady property belong to the Permian Kaibab limestone formation. This formation consists of light-tan to grey, cherty limestone. Northwest of the Scarlet Lady area, the Kaibab formation is overlain by the Triassic Moenkopi formation. A broken zone in the Kaibab limestone on the Scarlet Lady claim is approximately 40 feet wide, and may be related to the Hurricane fault system a short distance to the west of the property.

The applicant has reported mercury mineralization in the broken zone. Three shallow exploratory pits have been excavated in the zone. No mercury minerals are visible. Grab samples taken from the pits by the examining engineer assayed less than 0.01 percent mercury. Calcite is present in some of the open spaces in the zone.

It is concluded by the examining team that Government participation in exploration proposed by the applicant is not warranted. Mercury

mineralization in the proposed exploratory area is weak, with little chance that improvement may be expected laterally or vertically. It is recommended that the loan request be denied.

RECEIVED
NOV 17 5

THOMAS WAGGONER
SCARLET LADY CLAIM
WASHINGTON COUNTY, UTAH
DMEA-3061
Mercury

TRANSMITTED
NOV 10 1955

Engineering Report

By M. M. Gilkey
Mining Engineer
Bureau of Mines

THOMAS WAGGONER
SCARLET LADY CLAIM
WASHINGTON COUNTY, UTAH

CONTENTS

	Page
Engineering report	
Summary	2
Introduction	3
Location, topography and climate	3
Ownership and extent	4
History, production and ore reserves	4
Description of the deposit	4
Proposed exploration and costs	5
Conclusions and recommendations	6

ILLUSTRATIONS

Fig. 1 Location map, Thomas Waggoner, Scarlet Lady claim, Washington County, Utah

Fig. 2 Sketch map, Scarlet Lady claim

SUMMARY

Thomas Waggoner applied in August 1955 for Government assistance in exploring mercury property in Washington County, Utah. The property was examined in September 1955 by Geological Survey and Bureau of Mines personnel.

The property consists of one unpatented lode claim owned by the applicant. It is situated in an arid area, at an altitude of about 3,000 feet, and is easily accessible. Washington, Utah, the nearest town, is 6.1 miles by road to the northwest.

No work has been done on the claim other than excavation of three small prospect pits. There are no ore reserves in any classification.

The claim lies on the northwest flank of the southwest-plunging nose of the Virgin anticline. Permian Kaibab limestone is the only rock exposed in the vicinity of the prospect pits.

Mercury mineralization was reported by the applicant to have been found in a broken, iron-stained zone about 40 feet wide. Grab samples taken from the three pits in the zone assayed less than 0.01 percent mercury.

Exploratory work proposed by the applicant consists of 150 feet of drifting and crosscutting in the reportedly mineralized zone, at a total cost of $7,599.80, or a unit cost of $50.67 a foot. The estimated cost is high; the work would probably cost $30 to $35 a foot.

In view of the low mercury content and the lack of a geologic objective, it is recommended that the loan request be denied.

INTRODUCTION

An application by Thomas Waggoner for Government aid in an exploratory project on the Scarlet Lady mercury claim in Washington County, Utah, was submitted in August 1955. The property was examined September 15, 1955, by M. M. Gilkey of the Bureau of Mines, and September 23, 1955, by R. W. Osterstock of the Geological Survey. The examiners were accompanied by Thomas Waggoner. Assays of samples taken from the structure reported to be mineralized show that the mercury content is too low to warrant an exploratory project.

LOCATION, TOPOGRAPHY AND CLIMATE

The property is located 6.1 miles by road southeast of the town of Washington, Washington County, Utah, in Sec. 25, T. 42 S., R. 15 W., S.L.B. and M. (fig. 1). Washington, on U. S. Highway 91, is 5 miles east of St. George, population 4,545, the largest town in the area and source of supply.

In driving to the property, a graded, county road (Utah Highway 212) is followed to a point 4.5 miles southeast of Washington, from which point 1.6 miles of unimproved side road leads northerly to the claim area.

The Waggoner property is located approximately 1 mile southwest of the Whitehead and Whitehead Yellow King mercury claims, docket No. DMEA-3828. A loan request covering this property was recently denied.

Altitude in the immediate vicinity is approximately 3,000 feet. To the north of the proposed project area the relief is moderate. A flat valley extends 5 or 6 miles to the south.

Temperatures are high during the summer. Winters are short and mild. Vegetation in the area consists mainly of sparse desert brush. Water is available at a distance of about one-half mile from the property.

OWNERSHIP AND EXTENT

The property involved in the proposed project is owned by the applicant, and consists of one 600- by 1,500-foot, unpatented lode claim. The applicant states that the claim is recorded in the Washington County Recorder's office, St. George, Utah.

HISTORY, PRODUCTION AND ORE RESERVES

Work done to date on the property consists of three small prospect pits at the locations shown on figure 2. There are no known ore reserves.

DESCRIPTION OF THE DEPOSIT

The Scarlet Lady claim lies on the northwest flank of the southwest-plunging nose of the Virgin anticline. In the vicinity of the prospect pits, erosion has removed the once-overlying Triassic Moenkopi formation and exposed the Permian Kaibab limestone (fig. 2). The latter is light grey, cherty and regularly bedded.

In the limestone, a broken, lightly iron-stained zone about 40 feet wide was reported by the applicant to contain significant amounts of

mercury. No mercury mineralization is visible. Grab samples taken from the three small prospect pits assayed less than 0.01 percent mercury. Some of the open spaces in the zone are filled with calcite. The zone has no well-defined walls.

PROPOSED EXPLORATION AND COSTS

Exploratory work proposed by the applicant consists of a 100-foot drift and a total of 50 feet of crosscutting, to be completed in 6 months.

It is proposed that the drift be driven northeasterly into the broken zone as shown on figure 2, and that the crosscutting be done as indicated by geologic conditions. The drift has no geologic objective. The nature of the ground is such that some drilling difficulty is to be expected, and supporting timber would probably be required.

The applicant estimates the cost of the proposed 150 feet of drifting and crosscutting at $7,599.80, or $50.67 a foot. This includes total cost of equipment to be purchased; no deduction is made for estimated salvage value. Some of the listed items of equipment such as the crusher and retort are not allowable. The outright purchase of a truck would not be necessary. The estimated cost of labor is not definitely stated as a separate item.

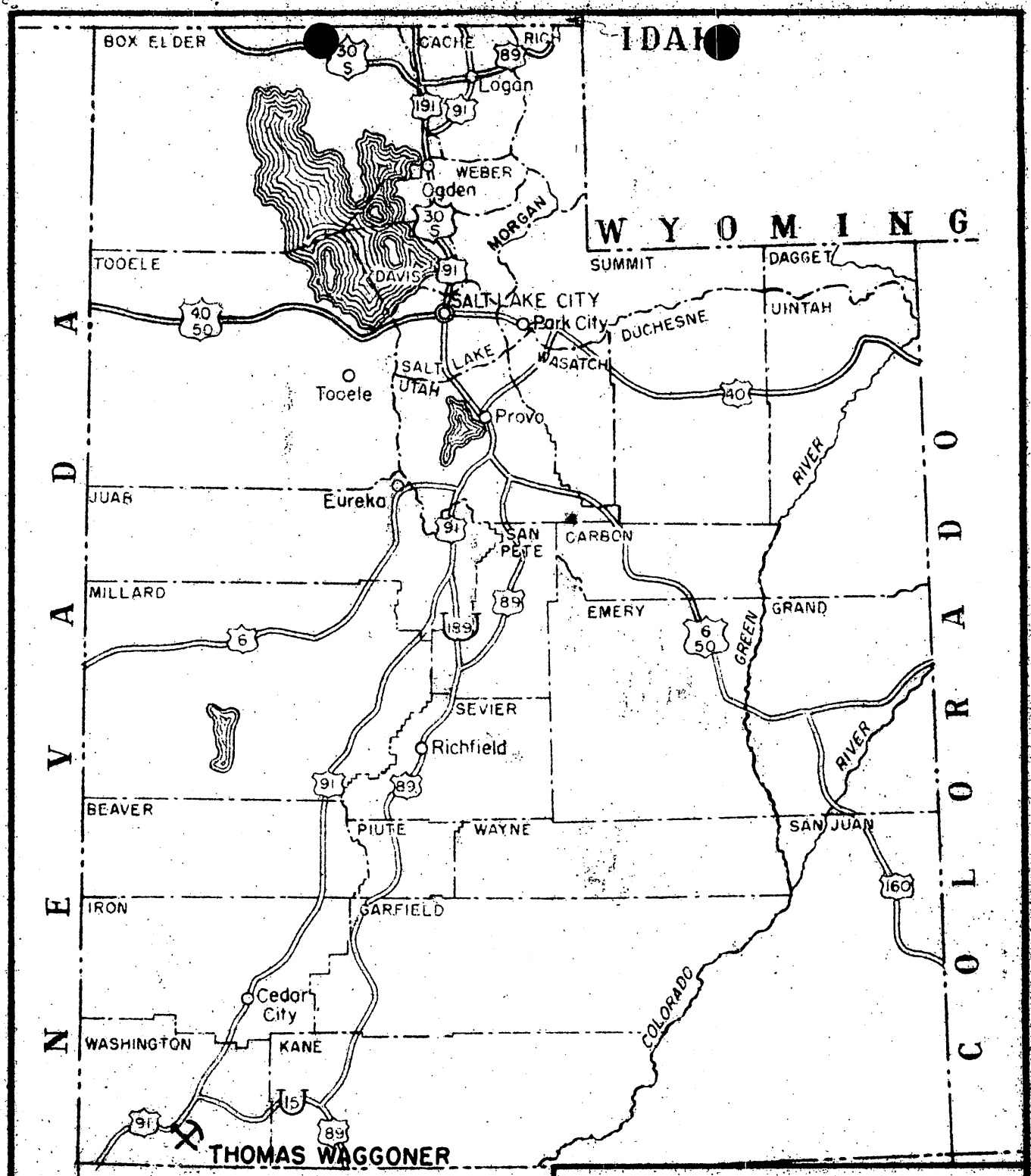
Under the existing conditions, as to accessibility, nature of the ground, and prevailing wage rates, the cost should not exceed $30 to $35 a foot. Inasmuch as the samples taken from the mineralized zone

by the examining team assayed less than 0.01 percent mercury, a complete re-estimation of costs appears to be unwarranted.

CONCLUSIONS AND RECOMMENDATIONS

Weak mercury mineralization is present in Permian Kaibab limestone about 1 mile northeast of the applicant's property. The applicant reported a significant quantity of mercury in a 40-foot, broken, iron-stained zone in limestone on the Scarlet Lady claim. No mercury mineralization was observed by the examiners, and grab samples taken across the zone by the examining team assayed less than 0.01 percent mercury.

It is concluded that the proposed exploratory work is not warranted, and it is recommended that the loan request be denied.



0 50 100
SCALE OF MILES

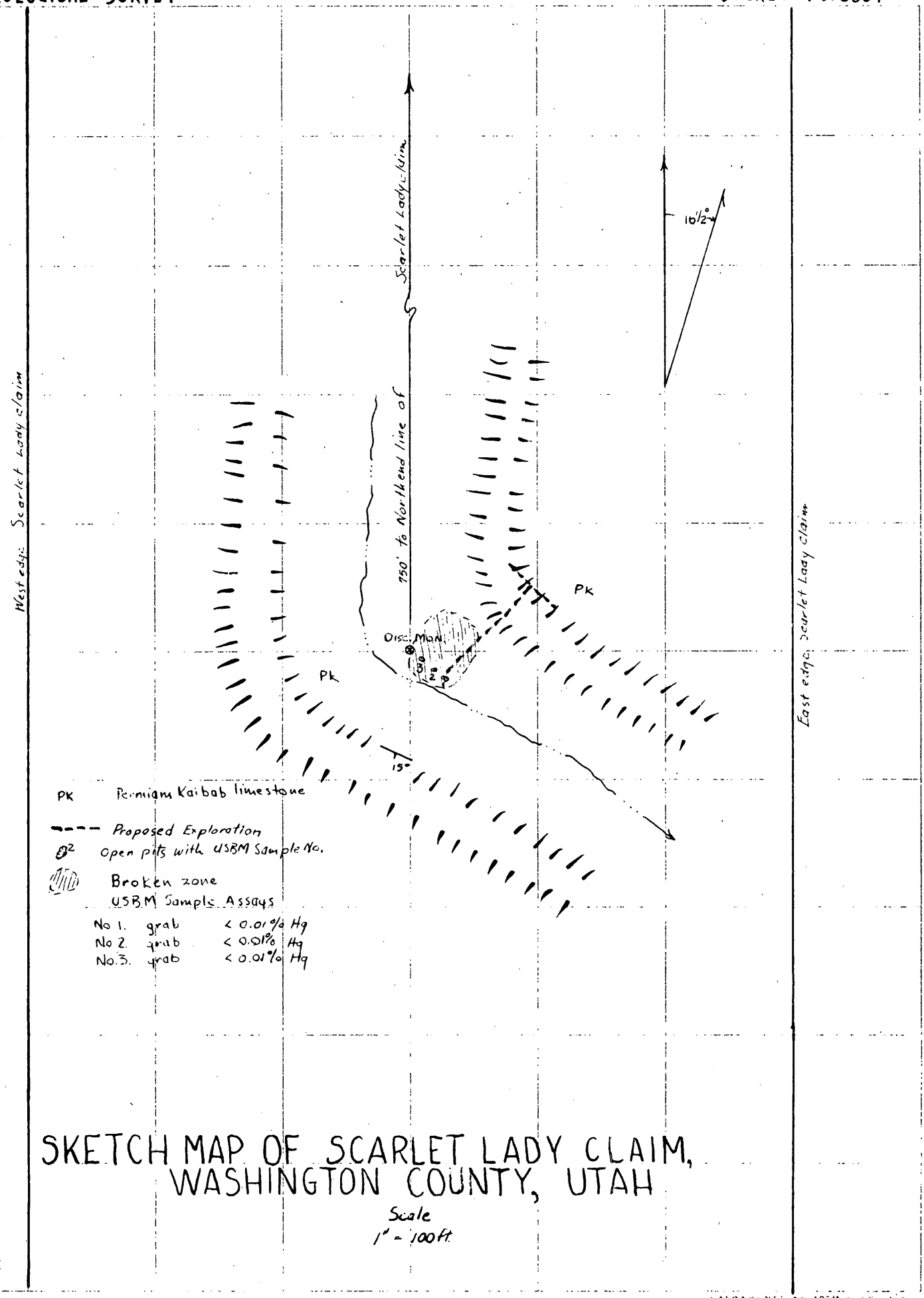
U. S DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Fig. 1 DMEA Docket No. 3951

Location Map
OF
THOMAS WAGGONER
SCARLET LADY CLAIMS
WASHINGTON COUNTY, UTAH

ENGINEER *Millard M. GILKEY* DATE: NOV. 3, 1955
TRACED: NOV., 1955; A.P.T.S.
CHECKED:

300 - 112 - E



SKETCH MAP OF SCARLET LADY CLAIM, WASHINGTON COUNTY, UTAH

Scale
1" = 100 ft.

FIG 2

300 - 113 - E

RECEIVED
NOV 17 1955

MINERAL DEPOSITS
DMEA
RECEIVED
OCT 1955
U.S.
GEOLOGICAL SURVEY
DENVER, COLORADO

Room 208, 222 So. West Temple
Salt Lake City 1, Utah
October 28, 1955

Memorandum

TRANSMITTED
NOV 10 1955

To: E. N. Kershaw

From: R. W. Osterstock

Subject: DMEA Docket 3951 (Mercury) Thomas Waggoner, Scarlet Lady Claim, Washington County, Utah.

Enclosed are 9 copies of a geologic report on the Scarlet Lady Claim. The owner, Thomas Waggoner, applied for government assistance in a program designed to explore for mercury. The program was estimated to cost $7599.80.

Field examination and sampling of the subject property revealed that no measurable amounts of mercury exist in the workings and there are no structures or zones which are projectable into areas which might provide higher grade mercury mineralization. It is recommended, therefore, that the application for government assistance be denied.

R. W. Osterstock

R. W. Osterstock

cc: S. R. Wilson

Reviewed by
DMEA OPERATING COMMITTEE

(date)

RECEIVED
NOV 17 1955

THOMAS WAGGONER, SCARLET LADY CLAIM

WASHINGTON COUNTY, UTAH

TRANSMITTED
NOV 10 1955

DMEA DOCKET 3951

Initial Geologic Report

By R. W. Osterstock
U. S. Geological Survey

Reviewed by
DMEA OPERATING COMMITTEE

(date)

CONTENTS

	Page
Summary	1
Introduction	2
Location and accessibility	2
History and production	2
Geology	3
Ore deposits	4
Ore reserves	4
Proposed exploration	4
Conclusions and recommendations	5

ILLUSTRATIONS

Figure 1. Index Map of Utah

Figure 2. Sketch Map of Soviet Lady Claim.

SUMMARY

The Scarlet Lady Claim situate in Washington County, Utah and owned by Thomas Waggoner was examined by BMEA personnel during Sept. 1955 relative to an application for government aid in the exploration for mercury ores.

A broken zone in the Permian Kaibab limestone contains calcite, aragonite and iron stain, however, no measurable amounts of mercury were noted on the subject property. There is no target area with potentially productive mercury deposits and it is therefore recommended that this loan application be denied.

INTRODUCTION

On August 15, 1955, Thomas Waggoner of St. George, Utah, applied for a DMEA loan (Docket 3951) to aid in exploration for mercury ores on his Scarlet King claim in Washington County, Utah. At the request of the DMEA Region III Field Team and examination of the subject property was conducted by M. M. Gilkey (USBM) and R. W. Caterstock (USGS) on Sept. 15 and Sept. 23 respectively. In each case the examiners were accompanied by Mr. Waggoner.

The estimated cost of the proposed exploration project is $7599.80.

Location and Accessibility

The Scarlet Lady claim is situate in Section 25, T. 42 S., R. 15 W., SLB and M, in Washington County, Utah.

The claim area is one of subdued hills near their juncture with the relatively flat alluvial filled valley floor.

The property may be reached by travelling easterly on paved U. S. Highway 91 five miles from St. George, Utah to Washington, Utah. Thence turn right (south) on graded dirt road (Utah 212) for 1.1 miles to bridge across Virgin River thence bear right for 3.0 miles thence turn sharp left on old oiled road and enter dry wash in 0.4 mile and leave wash in 0.7 mile near drift fence on primitive dirt road about 0.5 mile below claims. Open cuts on the claim may be seen from the road. With the exception of the last 1.5 miles the roads are maintained and the property should remain accessible year round barring heavy rainfall.

History and Production

The Scarlet Lady claim is a 1500 x 600 foot lode mining claim held by right of location by the applicant. The property is developed by three small (less than 3 feet deep) prospect pits. There is no record of production from the claim.

The claim lies about 1 mile southwest of the Whitehead and Whitehead Yellow King Claims on which sub-ore grade mercury mineralization has been noted. The Whitehead property under DMEA Docket 3828 was recently denied government assistance.

GEOLOGY

The Scarlet Lady Claim lies in an area of subdued topography near the southwesterly plunging nose of an elongate dome on the Virgin anticline. This structure, breached by erosion, has exposed Permian and Triassic sediments.

The only rocks exposed in the vicinity of the prospect pits on the Scarlet lady claim is Permian Kaibab limestone. This formation is a light tan to grey, dense, cherty limestone exhibiting regular bedding planes. To the north and west of the prospect area the Kaibab is overlain by the Triassic Moenkopi formation, a red silty shale which weathers down very rapidly.

Tertiary and later basaltic flows cap some of the nearby highlands although none is exposed in the vicinity of the claim area. Trachyte porphyry is also reported in the region.

Structurally, the Scarlet Lady claim lies in a region of broad NE trending folds which are roughly parallel to the Hurricane fault system. The most prominent structural element in the region is the persistent N-S trending Hurricane fault and related fault structures of lesser displacement. The beds in the claim area are of a homoclinal nature and are essentially undisplaced by faulting.

There is, however, near the prospect area a broken zone with no well defined fault walls or great degree of lateral persistence, that may be ascribed to adjustments related to folding or movement along the Hurricane fault system. C. E. Dobbin (U. S. Geological Survey, Open File Map of the St. George District, Washington County, Utah) has shown a northwesterly trending structure termed the Washington fault about 3/4 mile west of the claim area.

ORE DEPOSITS

The prospected area on the Scarlet Lady claim is developed by three small pits, none more than 3 feet deep. These pits are in a broken zone in the cherty Redwall limestone. No persistent fault structures are in evidence in the prospect area. That the broken zone has provided increased permeability is evidenced by the many open spaces some of which are filled or partially filled with calcite and aragonite crystals. Alteration and removal of the broken limestone has resulted locally in the development of a friable white product which may be gypsiferous thus indicating downward leeding action on once overlying Moenkopi beds.

There are no visible mercury minerals on the property nor was any mercury found in the samples taken by the U. S. Bureau of Mines engineer. Pinkish colored material termed cinnabar by the applicant is believed to be iron oxide.

ORE RESERVES

The property has no assayable amounts of mercury exposed at the present and therefore has no ore reserves of any classification.

PROPOSED EXPLORATION

The applicant has proposed an exploration program costing $7,999.00 to be used for driving 100 feet of drift into the hill in a northeasterly direction with 50 feet of crosscutting to be accomplished as indicated by geologic conditions.

This proposal has no specific objective inasmuch as there are no projectable structures in the prospect area nor are there any zones of mineralization which might provide target areas.

CONCLUSIONS AND RECOMMENDATIONS

The Scarlet Lady claims in Washington County, Utah, owned by Thomas R. Waggoner, is in an area of Permian limestone near the southwest nose of an elongated dome on the Virgin anticline. The rocks in the claim area are broken and show some alteration although no persistent structural elements are noted. Samples taken in each of the pits in the most disturbed zone contained less than 0.02 percent mercury. It is concluded that the claim area has not undergone sufficiently intense mineralizing conditions to have provided an economic mercury deposit.

It is recommended that this application for government assistance be denied inasmuch as the property holds little promise of containing enough mercury to materially add to the national reserves.

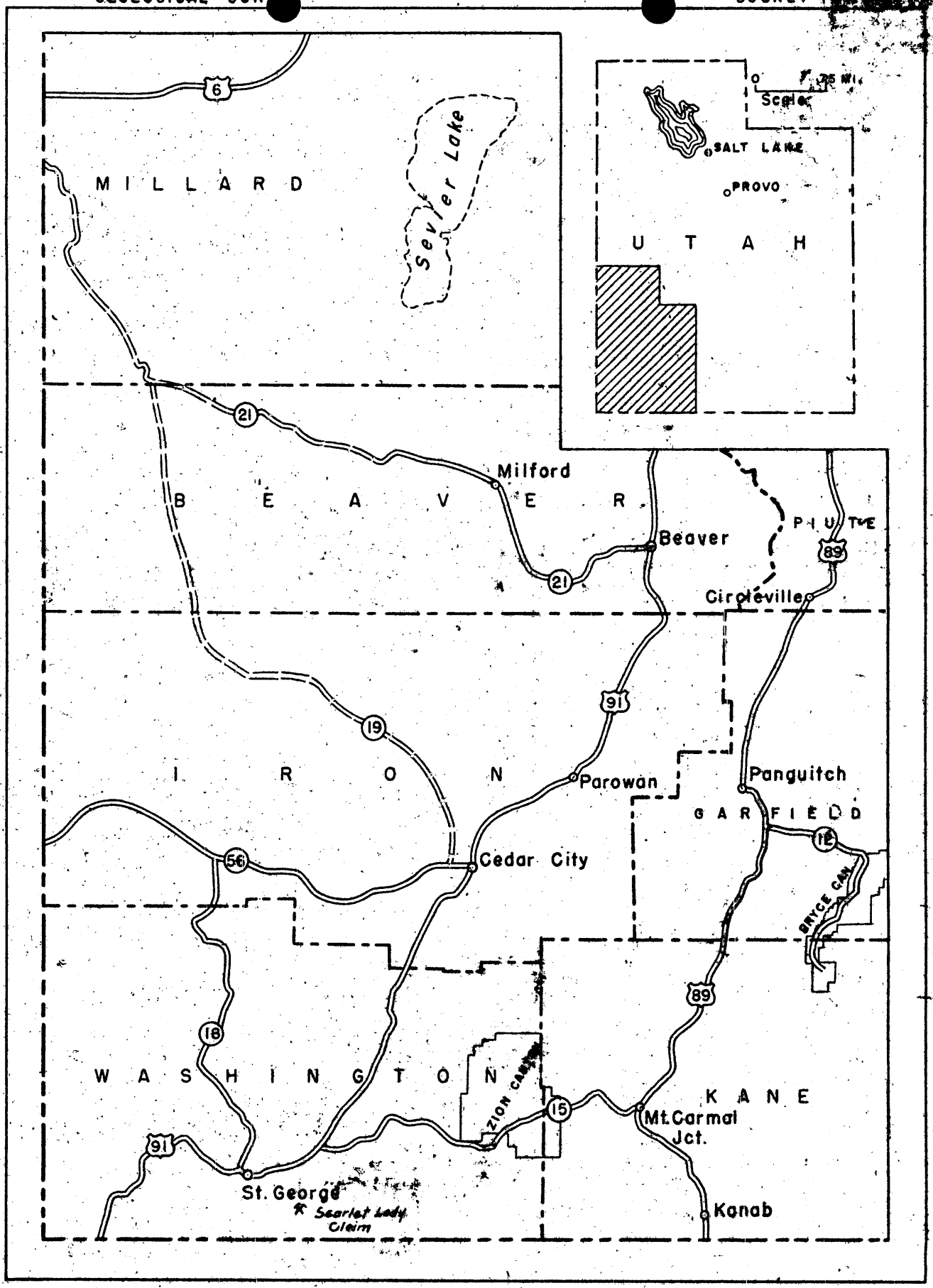
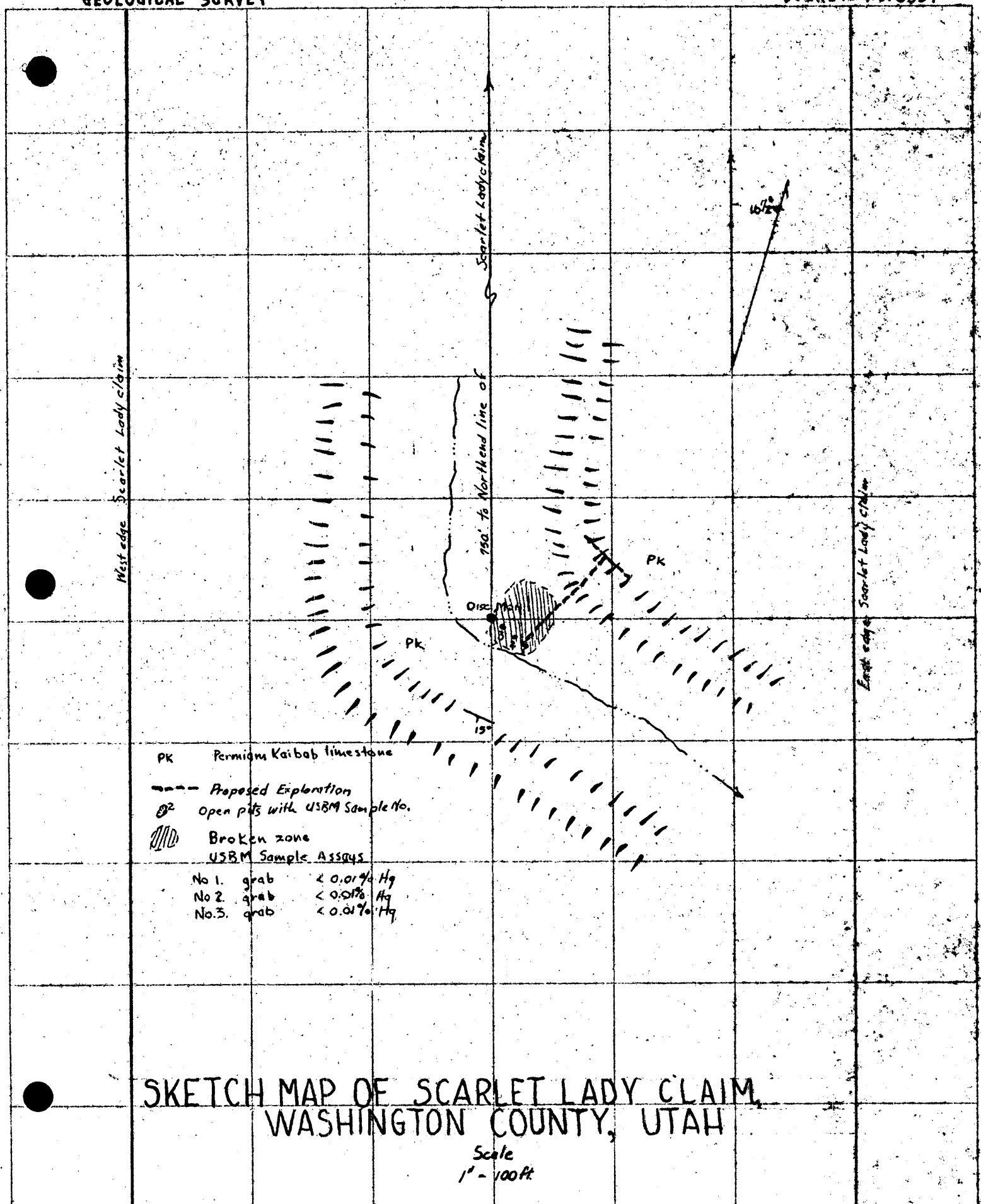


FIG. 1 INDEX MAP OF UTAH

U. S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
DOCKET NO. 3951



SKETCH MAP OF SCARLET LADY CLAIM, WASHINGTON COUNTY, UTAH

Scale
1" - 100 ft

FIG 2

400

SEP 21 1955

Mr. Thomas Waggoner
236 South Main Street
St. George, Utah

Re: Docket No. DMEA 3951 - Mercury
Scarlet Lady Claim
Washington County, Utah

Dear Mr. Waggoner:

Thank you for your communication, received September 19, 1955, forwarding to us your Notice of Location for the Scarlet Lady claim, Washington County, Utah.

We have made a copy of the recording data for our file and are returning your Notice of Location herewith. We appreciate your supplying us with this information.

Sincerely yours,

Frank E. Johnson

ACTING Administrator

Enclosure

cc: Docket
Adm. Read. File
Code 400
H. M. Meyer, USBM
T. H. Kiilsgaard, USGS
FT, Region 3

WSMartin/ls
9/20/55

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

400

RECEIVED
SEP - 6 1955

September 1, 1955

224 New Customhouse
Denver 2, Colorado

Copy retained 400

Memorandum

To: W. H. King (With brochure)
R. W. Osterstock

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 3951 (Mercury), Thomas Waggoner, Scarlet Lady Claim, Washington County, Utah

Enclosed is the subject application in the amount of $7,599.80. Also enclosed is a copy of a letter from the Chairman of the Operating Committee and attached memoranda from the members of the Branch of Base Metals.

A field examination and suitable report are requested.

W. M. Traver
W. M. Traver

Enclosures

HMC:ab
cc: Sec. Opr. Comm. (2)
Harshman
Docket 3951
Chron.

AUG 2 9 1955

Mr. W. M. Traver, Executive Officer
DMEA Field Team, Region III
224 New Custom House
Denver 2, Colorado

Re: Docket No. DMEA 3951 - Mercury
Thomas Waggoner
Scarlet Lady Claim
Washington County, Utah

Dear Mr. Traver:

The above-docketed application for exploration assistance is being referred to your office for a review or field examination of the property.

In reviewing the subject application it was noted that very little information on the occurrence of mercury in the area was given in the application, and no report on the area was available.

The applicant states in his application that his property is near that of W. A. Whitehead, whose application (Docket No. DMEA 3828), was referred to the Field Team about June 1, 1955.

Perhaps the report on the Whitehead application will cover both properties or give information necessary to make a Field Team appraisal on this application without further field work.

Two copies each of relevant memoranda by N. E. Nelson, Geological Survey, dated August 22, 1955, and James W. Pennington, Bureau of Mines, dated August 23, 1955, are enclosed for your information.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Enclosure

8/25/55 SPHOLT/foc
cc to: Docket
Code 400
Adm. Read. File
Operating Comm.
FT. REG. III
H. M. Meyer, USBM
T. H. Kiilsgaard, USGS

APPROVED:

P. F. Yopes
Member, Bureau of Mines

Thor H. Kiilsgaard
Member, Geological Survey

AUG 2 9 1955

Mr. Thomas Waggoner
236 South Main Street
St. George, Utah

Re: Docket No. DMEA 3951 - Mercury
Scarlet Lady Claim
Washington County, Utah

Dear Mr. Waggoner:

The above-docketed application for exploration assistance has been reviewed by the Defense Minerals Exploration Administration and referred to Mr. W. M. Traver, Executive Officer, DMEA Field Team, Region III, 224 New Custom House, Denver 2, Colorado, for a field examination of the property.

Any assistance that you can give members of the Field Team will be appreciated.

Sincerely yours,

C. O. Mittendorf

Administrator

8/25/55 - SPHOLT/foc

cc to: Docket
Code 400
Adm. Read. File
Operating Comm.
FT. REG. III
H. M. Meyer, USBM
T. H. Kiilsgaard, USGS

400

Copy retained 400

August 23, 1955

Memorandum

To: W. S. Martin, Defense Minerals Exploration Administration

From: James W. Pennington, Branch of Base Metals

Subject: Review of DMEA application, Docket No. 3951 (mercury)
Thomas Waggoner, Washington County, Utah

The exploration proposed for this property consists of a 50-foot crosscut and a 100-foot drift.

Very little information on the occurrence of mercury in the area is given in the application and no report on the area is available.

It is recommended that a Field Team examination be made of the property to obtain the necessary information.

Signed

James W. Pennington

JWPennington/vr

copy to: Division of Minerals
Branch of Base Metals
H. M. Meyer
F i l e s
Thor Kiilsgaard, U.S.G.S.

IN REPLY REFER TO:

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

402

August 22, 1955

Re: DMEA 3951
Thos. Waggoner
Unpatented Claims
Washington Co., Utah
$7,599.80 - Mercury

Memorandum

To: W. S. Martin, Defense Minerals Exploration Administration

From: N. E. Nelson, U. S. Geological Survey

Subject: Review of Application.

According to the applicant, the ground he desires to explore with 50 feet of crosscut and 100 feet of drift is near that of W. A. Whitehead, whose application, Docket 3828, was referred to the field about June 1, 1955.

No Field Team report has been received. Perhaps the report will cover both prospects or at least give information which will permit a Field Team appraisal of this application without further field work.

Referral to the Field Team is indicated and so recommended.

N. E. Nelson

N. E. Nelson

NENelson:iml
G-8/22/55

cc: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
H. M. Meyer, 3623

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

RECEIVED
SEP 17 1956

224 New Customhouse
Denver 2, Colorado

September 14, 1956

Mr. Thomas Waggoner
General Delivery
Gold Beach, Oregon

Re: Docket DMEA 3951 (Mercury)
Thomas Waggoner
(Scarlet Lady claim)
Washington County, Utah

Dear Mr. Waggoner:

Your undated letter addressed to Mr. E. N. Marshman, received September 12, 1956, requesting copies of the examination reports made covering the captioned application on the Scarlet Lady claim, which was prepared in response to your request for DMEA assistance on that property, is acknowledged and has been referred to me for reply.

Reports made by our field examiners are for the exclusive use of the Defense Minerals Exploration Administration in their evaluation of applications for exploration assistance. Since they are not available for use by persons outside the Federal Government, I am unable to furnish you a copy of the reports as requested.

Very truly yours,

W. M. TRAVER

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

WMT:prl

cc: Secretary, Op. Comm. (2)
Marshman (2)
Wilson
Docket 3951
Chron.

400

DOCKET
Surname:
Chapman
Martin
Kilsgaard
Yoder
Selfridge

DEC - 6 1955

Mr. Thomas Waggoner
236 South Main Street
St. George, Utah

Re: Docket No. DMEA 3951 - Mercury
Scarlet Lady Claim
Washington County, Utah

Dear Mr. Waggoner:

Your application for aid for an exploration project and other data available to us in Washington concerning the above-referenced property have been reviewed.

Projects approved by the Defense Minerals Exploration Administration must, in its judgment, show definite promise of yielding materials of acceptable grade in quantities that will significantly improve the mineral supply position for the National Defense Program.

Careful study of our information, although noting a small amount of mercury mineralization on the Scarlet Lady claim, indicates to us that the probability of disclosing minable mercury ore reserves by your proposed program is not sufficiently promising to justify Government participation. Under these circumstances, we regret to advise you that your application is denied.

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

Sincerely yours,

Frank E. Johnson (by 257)
ACTING Administrator

cc: Docket
Code 400
Oper. Committee
Adm. Read. File
Helena Meyer, USBM
Thor Kiilsgaard, USGS
FT, Reg. 3

TLChapman/ls
12/2/55

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

December 2, 1955

MEMORANDUM

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division, DMEA

Subject: Denial of request for exploration assistance to the amount of $7,599.80
Docket No. DMEA-3951, Mercury
Thomas Waggoner
Scarlet Lady Claim
Washington County, Utah

Denial of the subject application is recommended by this Division based on the following information:

(1) The applicant, Thomas Waggoner, 236 South Main St., St. George, Utah, requested exploration assistance in the amount of $7,599.80, Government participation at 75 percent - $5,699.85, for 150 feet of drifting and crosscutting.

(2) The applicant owns, by right of location, the Scarlet Lady claim, an unpatented lode mining claim, in Washington County, Utah.

(3) The proposed program is to explore a broken limestone bed by drifting and crosscutting for mercury ores.

(4) The property shows some weak mercury mineralization, but shows little or no promise of developing any significant and minable ore bodies. Grab samples taken by the examining engineer from the three pits in a broken, iron-stained zone about 40-feet wide, assayed less than 0.01 percent mercury.

(5) The Field Team concludes that the application for exploration assistance should be denied. The Commodity Divisions of the Geological Survey and the Bureau of Mines concur in this recommendation.

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

DOCKET
Surname:
Chapman
Martin

December 2, 1955

MEMORANDUM

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division, DMEA

Subject: Denial of request for exploration assistance to the amount of $7,599.80
Docket No. DMEA-3951, Mercury
Thomas Waggoner
Scarlet Lady Claim
Washington County, Utah

Denial of the subject application is recommended by this Division based on the following information:

(1) The applicant, Thomas Waggoner, 236 South Main St., St. George, Utah, requested exploration assistance in the amount of $7,599.80, Government participation at 75 percent - $5,699.85, for 150 feet of drifting and crosscutting.

(2) The applicant owns, by right of location, the Scarlet Lady claim, an unpatented lode mining claim, in Washington County, Utah.

(3) The proposed program is to explore a broken limestone bed by drifting and crosscutting for mercury ores.

(4) The property shows some weak mercury mineralization, but shows little or no promise of developing any significant and minable ore bodies. Grab samples taken by the examining engineer from the three pits in a broken, iron-stained zone about 40-feet wide, assayed less than 0.01 percent mercury.

(5) The Field Team concludes that the application for exploration assistance should be denied. The Commodity Divisions of the Geological Survey and the Bureau of Mines concur in this recommendation.

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

cc: Docket
Code 400
Adm. Read. File
Oper. Committee
TLChapman/ls

Docket

IN REPLY REFER TO:

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

November 23, 1955

Re: DMEA 3951
Thomas Waggoner
Scarlet Lady claim
Washington Co., Utah
$7,599.80 - Mercury

Copy retained 400

WSM

Memorandum

To: W. S. Martin, Defense Minerals Exploration Administration

From: N. E. Nelson, U. S. Geological Survey

Subject: Review of Field Team report.

The applicant requested assistance in the driving of 150 feet of drift and crosscut to explore a broken zone in limestone claimed to be mercury-bearing.

The examiners found that the best material taken from the pits assayed less than 0.01 percent mercury. Subgrade material has been found on a property about 1 mile northeast of this showing (Whitehead and Whitehead, DMEA 3828). An application for assistance in exploring the Whitehead property was denied.

I concur with the recommendation of denial of the examiners and the Field Team.

N. E. Nelson

N. E. Nelson

RECEIVED
NOV 25 1955

Copy retained 400

IN REPLY REFER TO:

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

November 23, 1955

Re: DMEA 3951
Thomas Waggoner
Scarlet Lady claim
Washington Co., Utah
$7,599.80 - Mercury

Memorandum

To: W. S. Martin, Defense Minerals Exploration Administration

From: N. E. Nelson, U. S. Geological Survey

Subject: Review of Field Team report.

The applicant requested assistance in the driving of 150 feet of drift and crosscut to explore a broken zone in limestone claimed to be mercury-bearing.

The examiners found that the best material taken from the pits assayed less than 0.01 percent mercury. Subgrade material has been found on a property about 1 mile northeast of this showing (Whitehead and Whitehead, DMEA 3828). An application for assistance in exploring the Whitehead property was denied.

I concur with the recommendation of denial of the examiners and the Field Team.

N. E. Nelson

N. E. Nelson

NENelson:iml
G-11/23/55
cc: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
H. M. Meyer, 3623

RECEIVED
NOV 25 1955

IN REPLY REFER TO:

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

November 23, 1955

Re: DMEA 3951
Thomas Waggoner
Scarlet Lady claim
Washington Co., Utah
$7,599.80 - Mercury

Memorandum

To: W. S. Martin, Defense Minerals Exploration Administration

From: N. E. Nelson, U. S. Geological Survey

Subject: Review of Field Team report.

The applicant requested assistance in the driving of 150 feet of drift and crosscut to explore a broken zone in limestone claimed to be mercury-bearing.

The examiners found that the best material taken from the pits assayed less than 0.01 percent mercury. Subgrade material has been found on a property about 1 mile northeast of this showing (Whitehead and Whitehead, DMEA 3838). An application for assistance in exploring the Whitehead property was denied.

I concur with the recommendation of denial of the examiners and the Field Team.

N. E. Nelson

N. E. Nelson

NENelson:iml
G-11/23/55
cc: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
H. M. Meyer, 3623

RECEIVED
NOV 25 1955

Docket

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

RECEIVED
NOV 23 1955

November 22, 1955

WSM

Memorandum

To: W. S. Martin, Defense Minerals Exploration Administration

From: J. W. Pennington, Branch of Base Metals

Subject: Review of Engineering and Geologic Report of Examination Docket No. DMEA 3951 (mercury) Thomas Waggoner, Scarlet Lady Claim, Washington County, Utah, $7,599.80

The grab samples taken from the pits in the applicant's claim assayed less than 0.01 percent mercury. No mercury minerals are detected, and the pinkish colored material termed cinnabar by the applicant is believed to be iron oxide.

In addition, there is little evidence that sufficient mercury mineralization will be encountered to warrant the proposed exploration.

I concur with the recommendation of the Field Team that the applicant's request for Government assistance to explore the Scarlet Lady Claim be denied.

J W Pennington
J. W. Pennington

Copy to: Division of Minerals
Branch of Base Metals
J. W. Pennington
R. W. Geehan
Thor Kiilsgaard, U.S.G.S.
F i l e s

RECEIVED
NOV 23 1955

November 22, 1955

Memorandum

To: W. S. Martin, Defense Minerals Exploration Administration

From: J. W. Pennington, Branch of Base Metals

Subject: Review of Engineering and Geologic Report of Examination Docket No. DMEA 3951 (mercury) Thomas Waggoner, Scarlet Lady Claim, Washington County, Utah, $7,599.80

The grab samples taken from the pits in the applicant's claim assayed less than 0.01 percent mercury. No mercury minerals are detected, and the pinkish colored material termed cinnabar by the applicant is believed to be iron oxide.

In addition, there is little evidence that sufficient mercury mineralization will be encountered to warrant the proposed exploration.

I concur with the recommendation of the Field Team that the applicant's request for Government assistance to explore the Scarlet Lady Claim be denied.

J. W. Pennington

J. W. Pennington

Copy to: Division of Minerals
Branch of Base Metals
J. W. Pennington
R. W. Geehan
Thor Kiilsgaard, U.S.G.S.
F i l e s

RECEIVED
NOV 23 1955

November 22, 1955

Memorandum

To: W. S. Martin, Defense Minerals Exploration Administration

From: J. W. Pennington, Branch of Base Metals

Subject: Review of Engineering and Geologic Report of Examination
Docket No. DMEA 3951 (mercury) Thomas Waggoner,
Scarlet Lady Claim, Washington County, Utah, $7,599.80

The grab samples taken from the pits in the applicant's claim assayed less than 0.01 percent mercury. No mercury minerals are detected, and the pinkish colored material termed cinnabar by the applicant is believed to be iron oxide.

In addition, there is little evidence that sufficient mercury mineralization will be encountered to warrant the proposed exploration.

I concur with the recommendation of the Field Team that the applicant's request for Government assistance to explore the Scarlet Lady Claim be denied.

J. W. Pennington

J. W. Pennington

Copy to: Division of Minerals
Branch of Base Metals
J. W. Pennington
R. W. Geehan
Thor Kiilsgaard, U.S.G.S.
F i l e s

Docket

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

RECEIVED
NOV 17 1955

November 10, 1955

224 New Customhouse
Denver 2, Colorado

W3A

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Field Team, Region III

Subject: Engineering and Geologic Report of Examination, DMEA Docket 3951 (Mercury), Thomas Waggoner, Scarlet Lady Claim, Washington County, Utah

Enclosed are the original and three copies of the report pertaining to the above application.

The examiners conclude that Government participation in the exploration of this claim is not warranted. We concur with their recommendation that the application be denied.

W. M. Traver

By J. W. Townsend
J. W. Townsend

E. N. Harshman
E. N. Harshman

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
11/21/55
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 1, UTAH

RECEIVED
NOV 17 1955
DMEA
Field Rec'd.
BUREAU OF MINES
Denver, Colorado

November 4, 1955

Memorandum

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

From: Stephen R. Wilson

TRANSMITTED
NOV 10 1955

Subject: Docket No. DMEA-3951 (Mercury), Thomas Waggoner, Scarlet Lady claim, Washington County, Utah.

Enclosed are original and eight copies of an engineering report pertaining to DMEA examination of the Scarlet Lady claim, Washington County, Utah. The report was prepared by M. M. Gilkey. Also included are copies of a separate section, Summary, Conclusions and recommendations, and a copy of the brochure.

The applicant has requested a loan of $7,599.80 to perform 150 feet of drifting and crosscutting. Rocks exposed in this area consist primarily of the Kaibab limestone formation of Permian age. A shattered zone in this formation, approximately 40 feet wide, is reported by the applicant to contain appreciable mercury. Three shallow exploratory pits have been excavated in the zone. No mercury minerals are visible. Samples taken by the examining engineer assayed less than 0.01 percent mercury.

The examining engineer concludes that Government participation in exploration proposed by the applicant is not warranted. The mercury mineralization is weak and little chance exists that improvement may be expected laterally or vertically. The examining engineer recommends that the request for Government assistance be denied. I concur in this recommendation.

Stephen R. Wilson
Stephen R. Wilson

Enclosure

cc: J. B. Clemmer

Reviewed by
DMEA OPERATING COMMITTEE
11/21/55
(Date)

RECEIVED
NOV 17 1955
TRANSMITTED
NOV 10 1955

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

By R. W. Osterstock and M. M. Gilkey

An application for Government assistance in exploring the Scarlet Lady mercury property, Washington County, Utah, was submitted by Thomas Waggoner during August 1955. The applicant has requested a loan of $7,599.80 to perform 150 feet of drifting and crosscutting. The property was examined by DMEA personnel during September 1955.

Rocks exposed in the area of the Scarlet Lady property belong to the Permian Kaibab limestone formation. This formation consists of light-tan to grey, cherty limestone. Northwest of the Scarlet Lady area, the Kaibab formation is overlain by the Triassic Moenkopi formation. A broken zone in the Kaibab limestone on the Scarlet Lady claim is approximately 40 feet wide, and may be related to the Hurricane fault system a short distance to the west of the property.

The applicant has reported mercury mineralization in the broken zone. Three shallow exploratory pits have been excavated in the zone. No mercury minerals are visible. Grab samples taken from the pits by the examining engineer assayed less than 0.01 percent mercury. Calcite is present in some of the open spaces in the zone.

It is concluded by the examining team that Government participation in exploration proposed by the applicant is not warranted. Mercury

Reviewed by
DMEA OPERATING COMMITTEE
11/21/55

mineralization in the proposed exploratory area is weak, with little chance that improvement may be expected laterally or vertically. It is recommended that the loan request be denied.

RECEIVED
NOV 17 1955

THOMAS WAGGONER
SCARLET LADY CLAIM
WASHINGTON COUNTY, UTAH
DMEA-3951
Mercury

TRANSMITTED
NOV 10 1955

Engineering Report

By M. M. Gilkey
Mining Engineer
Bureau of Mines

Reviewed by
DMEA OPERATING COMMITTEE
11/21/55
(date)

THOMAS WAGGONER
SCARLET LADY CLAIM
WASHINGTON COUNTY, UTAH

CONTENTS

	Page
Engineering report	
Summary	2
Introduction	3
Location, topography and climate	3
Ownership and extent	4
History, production and ore reserves	4
Description of the deposit	4
Proposed exploration and costs	5
Conclusions and recommendations	6

ILLUSTRATIONS

Fig. 1 Location map, Thomas Waggoner, Scarlet Lady claim, Washington County, Utah

Fig. 2 Sketch map, Scarlet Lady claim

SUMMARY

Thomas Waggoner applied in August 1955 for Government assistance in exploring mercury property in Washington County, Utah. The property was examined in September 1955 by Geological Survey and Bureau of Mines personnel.

The property consists of one unpatented lode claim owned by the applicant. It is situated in an arid area, at an altitude of about 3,000 feet, and is easily accessible. Washington, Utah, the nearest town, is 6.1 miles by road to the northwest.

No work has been done on the claim other than excavation of three small prospect pits. There are no ore reserves in any classification.

The claim lies on the northwest flank of the southwest-plunging nose of the Virgin anticline. Permian Kaibab limestone is the only rock exposed in the vicinity of the prospect pits.

Mercury mineralization was reported by the applicant to have been found in a broken, iron-stained zone about 40 feet wide. Grab samples taken from the three pits in the zone assayed less than 0.01 percent mercury.

Exploratory work proposed by the applicant consists of 150 feet of drifting and crosscutting in the reportedly mineralized zone, at a total cost of $7,599.80, or a unit cost of $50.67 a foot. The estimated cost is high; the work would probably cost $30 to $35 a foot.

In view of the low mercury content and the lack of a geologic objective, it is recommended that the loan request be denied.

INTRODUCTION

An application by Thomas Waggoner for Government aid in an exploratory project on the Scarlet Lady mercury claim in Washington County, Utah, was submitted in August 1955. The property was examined September 15, 1955, by M. M. Gilkey of the Bureau of Mines, and September 23, 1955, by R. W. Osterstock of the Geological Survey. The examiners were accompanied by Thomas Waggoner. Assays of samples taken from the structure reported to be mineralized show that the mercury content is too low to warrant an exploratory project.

LOCATION, TOPOGRAPHY AND CLIMATE

The property is located 6.1 miles by road southeast of the town of Washington, Washington County, Utah, in Sec. 25, T. 42 S., R. 15 W., S.L.B. and M. (fig. 1). Washington, on U. S. Highway 91, is 5 miles east of St. George, population 4,545, the largest town in the area and source of supply.

In driving to the property, a graded, county road (Utah Highway 212) is followed to a point 4.5 miles southeast of Washington, from which point 1.6 miles of unimproved side road leads northerly to the claim area.

The Waggoner property is located approximately 1 mile southwest of the Whitehead and Whitehead Yellow King mercury claims, docket No. DMEA-3828. A loan request covering this property was recently denied.

Altitude in the immediate vicinity is approximately 3,000 feet. To the north of the proposed project area the relief is moderate. A flat valley extends 5 or 6 miles to the south.

Temperatures are high during the summer. Winters are short and mild. Vegetation in the area consists mainly of sparse desert brush. Water is available at a distance of about one-half mile from the property.

OWNERSHIP AND EXTENT

The property involved in the proposed project is owned by the applicant, and consists of one 600- by 1,500-foot, unpatented lode claim. The applicant states that the claim is recorded in the Washington County Recorder's office, St. George, Utah.

HISTORY, PRODUCTION AND ORE RESERVES

Work done to date on the property consists of three small prospect pits at the locations shown on figure 2. There are no known ore reserves.

DESCRIPTION OF THE DEPOSIT

The Scarlet Lady claim lies on the northwest flank of the southwest-plunging nose of the Virgin anticline. In the vicinity of the prospect pits, erosion has removed the once-overlying Triassic Moenkopi formation and exposed the Permian Kaibab limestone (fig. 2). The latter is light grey, cherty and regularly bedded.

In the limestone, a broken, lightly iron-stained zone about 40 feet wide was reported by the applicant to contain significant amounts of

mercury. No mercury mineralization is visible. Grab samples taken from the three small prospect pits assayed less than 0.01 percent mercury. Some of the open spaces in the zone are filled with calcite. The zone has no well-defined walls.

PROPOSED EXPLORATION AND COSTS

Exploratory work proposed by the applicant consists of a 100-foot drift and a total of 50 feet of crosscutting, to be completed in 6 months.

It is proposed that the drift be driven northeasterly into the broken zone as shown on figure 2, and that the crosscutting be done as indicated by geologic conditions. The drift has no geologic objective. The nature of the ground is such that some drilling difficulty is to be expected, and supporting timber would probably be required.

The applicant estimates the cost of the proposed 150 feet of drifting and crosscutting at $7,599.80, or $50.67 a foot. This includes total cost of equipment to be purchased; no deduction is made for estimated salvage value. Some of the listed items of equipment such as the crusher and retort are not allowable. The outright purchase of a truck would not be necessary. The estimated cost of labor is not definitely stated as a separate item.

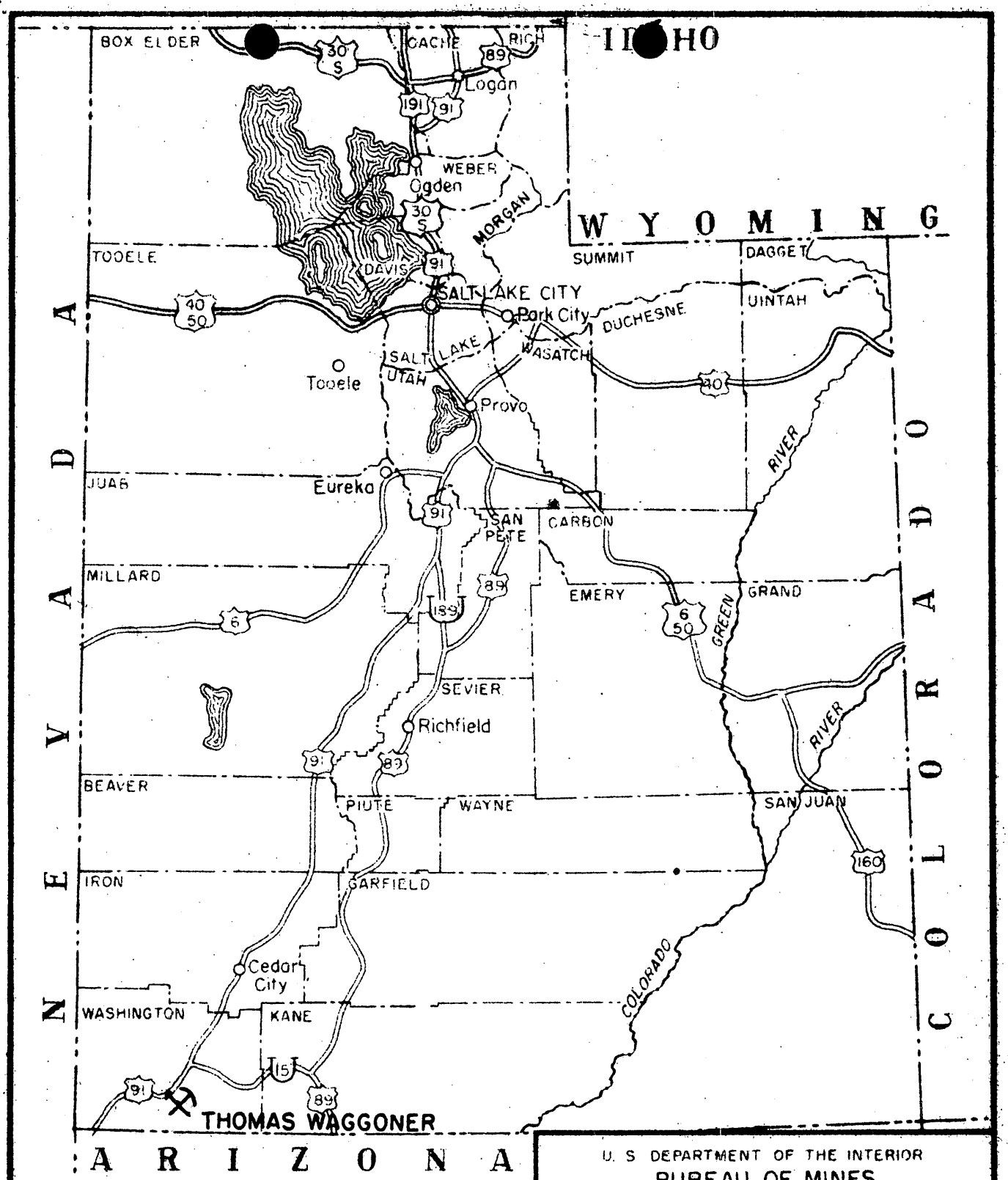
Under the existing conditions, as to accessibility, nature of the ground, and prevailing wage rates, the cost should not exceed $30 to $35 a foot. Inasmuch as the samples taken from the mineralized zone

by the examining team assayed less than 0.01 percent mercury, a complete re-estimation of costs appears to be unwarranted.

CONCLUSIONS AND RECOMMENDATIONS

Weak mercury mineralization is present in Permian Kaibab limestone about 1 mile northeast of the applicant's property. The applicant reported a significant quantity of mercury in a 40-foot, broken, iron-stained zone in limestone on the Scarlet Lady claim. No mercury mineralization was observed by the examiners, and grab samples taken across the zone by the examining team assayed less than 0.01 percent mercury.

It is concluded that the proposed exploratory work is not warranted, and it is recommended that the loan request be denied.



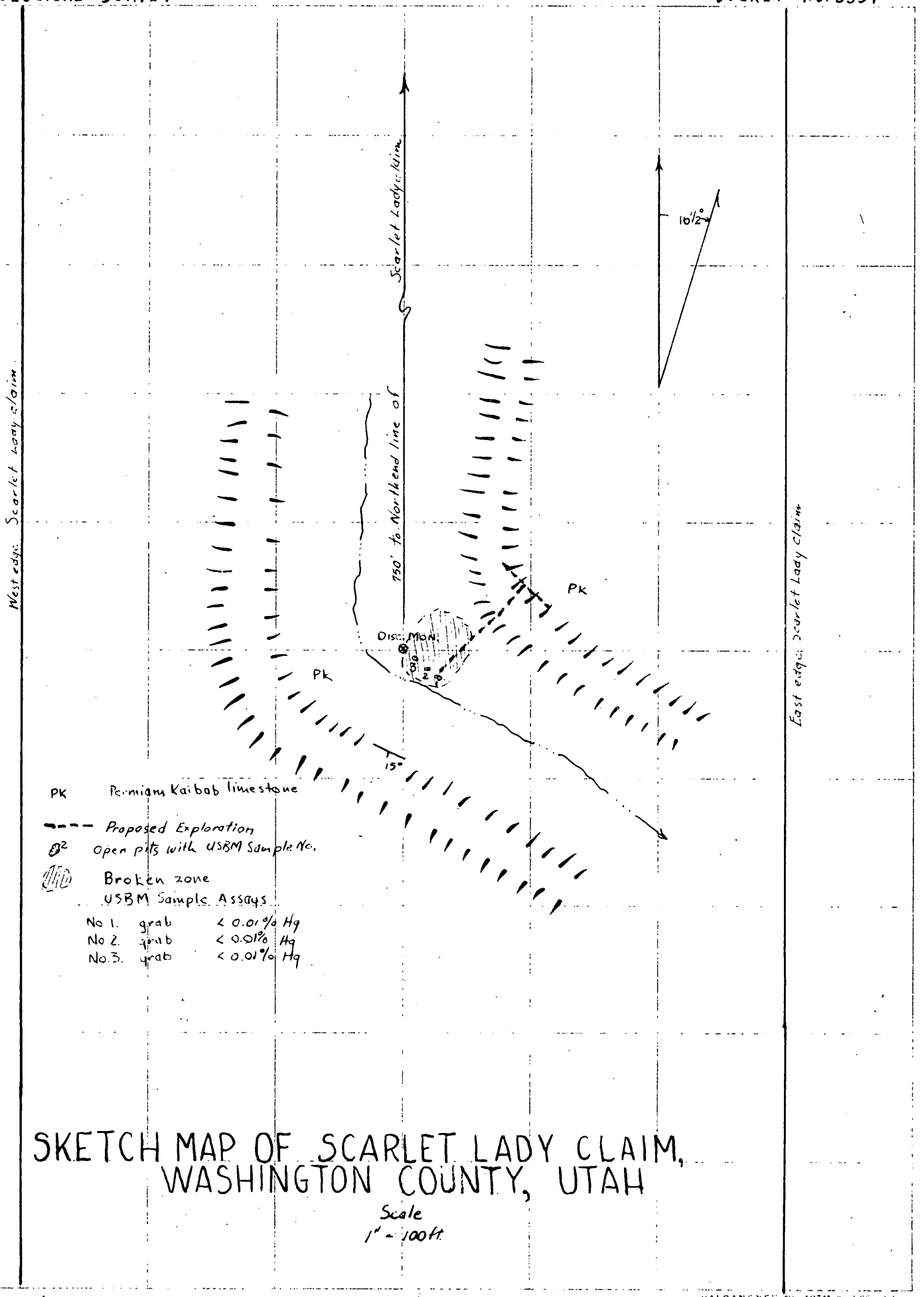
U. S DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Fig. 1 DMEA Docket No. 3951

Location Map
OF
THOMAS WAGGONER
SCARLET LADY CLAIMS
WASHINGTON COUNTY, UTAH

ENGINEER *Millard M. GILKEY* DATE: NOV. 3, 1955
TRACED: NOV., 1955; A.P.T.S.
CHECKED:

300 - 112 - E



SKETCH MAP OF SCARLET LADY CLAIM, WASHINGTON COUNTY, UTAH

Scale
1" = 100 ft.

FIG. 2

300 - 113 - 3

ALBANENE NO. 10EM P & E CO., N.Y.

MINERAL DEPOSITS
DMEA
RECEIVED
OCT 31 1955
U.S.
GEOLOGICAL SURVEY
DENVER, COLORADO

Room 208, 222 So. West Temple
Salt Lake City 1, Utah
October 28, 1955

TRANSMITTED
NOV 10 1955

Memorandum

To: E. N. Harshman

From: R. W. Osterstock

Subject: DMEA Docket 3951 (Mercury) Thomas Waggoner, Scarlet Lady Claim, Washington County, Utah.

Enclosed are 9 copies of a geologic report on the Scarlet Lady Claim. The owner, Thomas Waggoner, applied for government assistance in a program designed to explore for mercury. The program was estimated to cost $7599.80.

Field examination and sampling of the subject property revealed that no assayable amounts of mercury exist in the workings and there are no structures or zones which are projectable into areas which might provide higher grade mercury mineralization. It is recommended, therefore, that the application for government assistance be denied.

R. W. Osterstock

cc: S. R. Wilson

Reviewed by
DMEA OPERATING COMMITTEE

(date)

RECEIVED
NOV 17 1955

THOMAS WAGGONER, SCARLET LADY CLAIM

WASHINGTON COUNTY, UTAH

TRANSMITTED
NOV 10 1955

DMEA DOCKET 3951

Initial Geologic Report

By R. W. Osterstock
U. S. Geological Survey

Reviewed by
DMEA OPERATING COMMITTEE
11/21/55
(date)

CONTENTS

	Page
Summary	1
Introduction	2
Location and accessibility	2
History and production	2
Geology	3
Ore deposits	4
Ore reserves	4
Proposed exploration	4
Conclusions and recommendations	5

ILLUSTRATIONS

Figure 1. Index Map of Utah

Figure 2. Sketch Map of Scarlet Lady Claim.

SUMMARY

The Scarlet Lady Claim situate in Washington County, Utah and owned by Thomas Waggoner was examined by DMEA personnel during Sept. 1955 relative to an application for government aid in the exploration for mercury ores.

A broken zone in the Permian Kaibab limestone contains calcite, aragonite and iron stain, however, no assayable amounts of mercury were noted on the subject property. There is no target area with potentially productive mercury deposits and it is therefore recommended that this loan application be denied.

INTRODUCTION

On August 15, 1955, Thomas Waggoner of St. George, Utah, applied for a DMEA loan (Docket 3951) to aid in exploration for mercury ores on his Scarlet King claim in Washington County, Utah. At the request of the DMEA Region III Field Team and examination of the subject property was conducted by M. M. Gilkey (USBM) and R. W. Osterstock (USGS) on Sept. 15 and Sept. 23 respectively. In each case the examiners were accompanied by Mr. Waggoner.

The estimated cost of the proposed exploration project is $7599.80.

Location and Accessibility

The Scarlet Lady claim is situate in Section 25, T. 42 S., R. 15 W., SLB and M, in Washington County, Utah.

The claim area is one of subdued hills near their juncture with the relatively flat alluvial filled valley floor.

The property may be reached by travelling easterly on paved U. S. Highway 91 five miles from St. George, Utah to Washington, Utah. Thence turn right (south) on graded dirt road (Utah 212) for 1.1 miles to bridge across Virgin River thence bear right for 3.0 miles thence turn sharp left on old oiled road and enter dry wash in 0.4 mile and leave wash in 0.7 mile near drift fence on primitive dirt road about 0.5 mile below claims. Open cuts on the claim may be seen from the road. With the exception of the last 1.5 miles the roads are maintained and the property should remain accessible year round barring heavy rainfall.

History and Production

The Scarlet Lady claim is a 1500 x 600 foot lode mining claim held by right of location by the applicant. The property is developed by three small (less than 3 feet deep) prospect pits. There is no record of production from the claim.

The claim lies about 1 mile southwest of the Whitehead and Whitehead Yellow King Claims on which sub-ore grade mercury mineralization has been noted. The Whitehead property under DMEA Docket 3828 was recently denied government assistance.

GEOLOGY

The Scarlet Lady Claim lies in an area of subdued topography near the southwesterly plunging nose of an elongate dome on the Virgin anticline. This structure, breached by erosion, has exposed Permian and Triassic sediments.

The only rock~~s~~ exposed in the vicinity of the prospect pits on the Scarlet lady claim is Permian Kaibab limestone. This formation is a light tan to grey, dense, cherty limestone exhibiting regular bedding planes. To the north and west of the prospect area the Kaibab is overlain by the Triassic Moenkopi formation, a red silty shale which weathers down very rapidly.

Tertiary and later basaltic flows cap some of the nearby highlands although none is exposed in the vicinity of the claim area. Trachyte porphyry is also reported in the region.

Structurally, the Scarlet Lady claim lies in a region of broad NE trending folds which are roughly parallel to the Hurricane fault system. The most prominent structural element in the region is the persistent N-S trending Hurricane fault and related fault structures of lesser displacement. The beds in the claim area are of a homoclinal nature and are essentially undisplaced by faulting.

There is, however, near the prospect area a broken zone with no well defined fault walls or great degree of lateral persistence, that may be ascribed to adjustments related to folding or movement along the Hurricane fault system. C. E. Dobbin (U. S. Geological Survey, Open File Map of the St. George District, Washington County, Utah) has shown a northwesterly trending structure termed the Washington fault about 3/4 mile west of the claim area.

ORE DEPOSITS

The prospected area on the Scarlet lady claim is developed by three small pits, none more than 3 feet deep. These pits are in a broken zone in the cherty Kaibab limestone. No persistent fault structures are in evidence in the prospect area. That the broken zone has provided increased permeability is evidenced by the many open spaces some of which are filled or partially filled with calcite and aragonite crystals. Alteration and removal of the broken limestone has resulted locally in the development of a friable white product which may be gypsiferous thus indicating downward leading action on once overlying Moenkopi beds.

There are no visible mercury minerals on the property nor was any mercury found in the samples taken by the U. S. Bureau of Mines engineer. Pinkish colored material termed cinnabar by the applicant is believed to be iron oxide.

ORE RESERVES

The property has no assayable amounts of mercury exposed at the present and therefore has no ore reserves of any classification.

PROPOSED EXPLORATION

The applicant has proposed an exploration program costing $7,599.80 to be used for driving 100 feet of drift into the hill in a northeasterly direction with 50 feet of crosscutting to be accomplished as indicated by geologic conditions.

This proposal has no specific objective inasmuch as there are no projectable structures in the prospect area nor are there any zones of mineralization which might provide target areas.

CONCLUSIONS AND RECOMMENDATIONS

The Scarlet Lady claims in Washington County, Utah, owned by Thomas B. Waggoner, is in an area of Permian limestone near the southwest nose of an elongated dome on the Virgin anticline. The rocks in the claim area are broken and show some alteration although no persistent structural elements are noted. Samples taken in each of the pits in the most disturbed zone contained less than 0.01 percent mercury. It is concluded that the claim area has not undergone sufficiently intense mineralizing conditions to have provided an economic mercury deposit.

It is recommended that this application for government assistance be denied inasmuch as the property holds little promise of containing enough mercury to materially add to the national reserves.

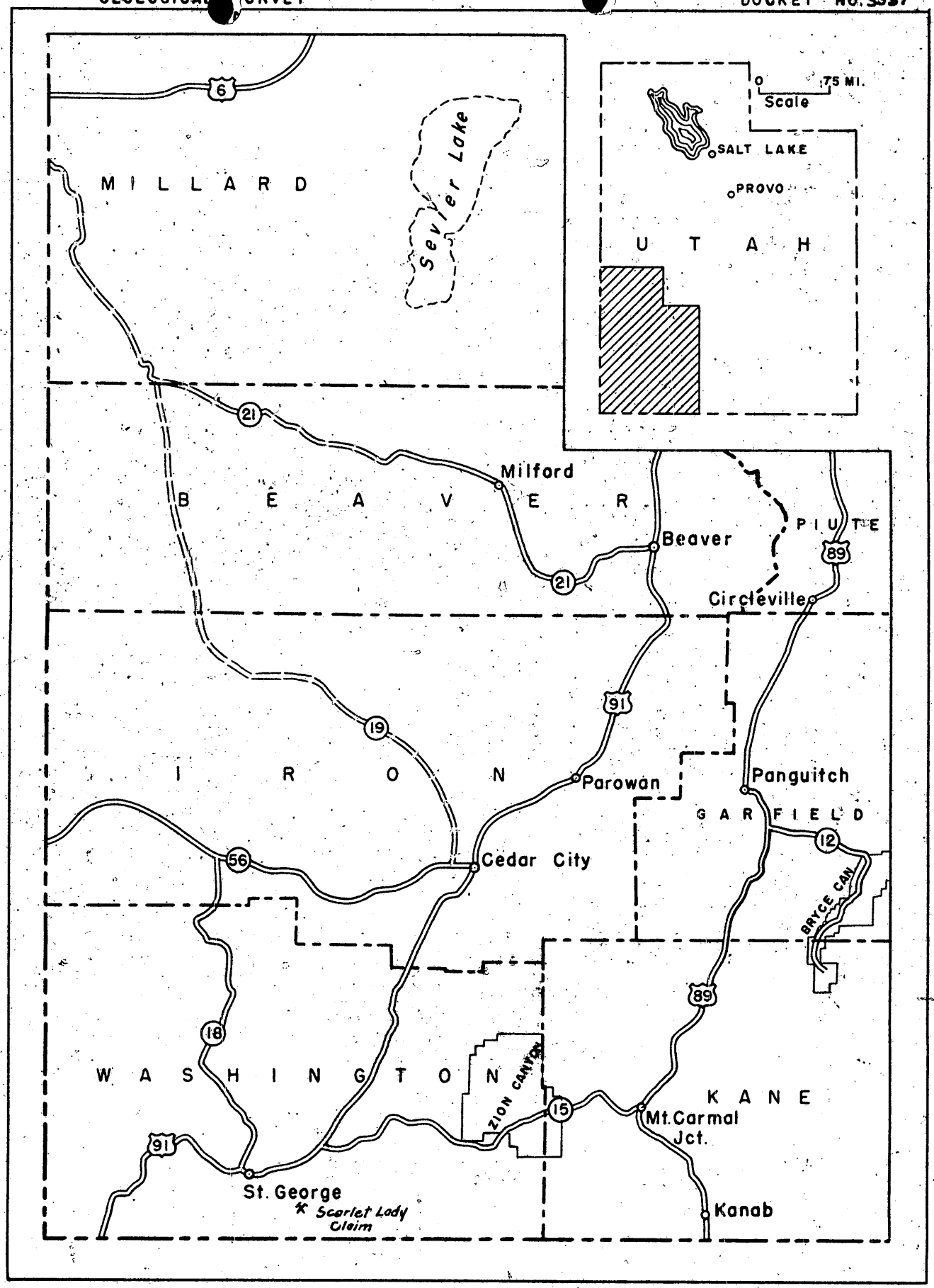


FIG. 1 INDEX MAP OF UTAH

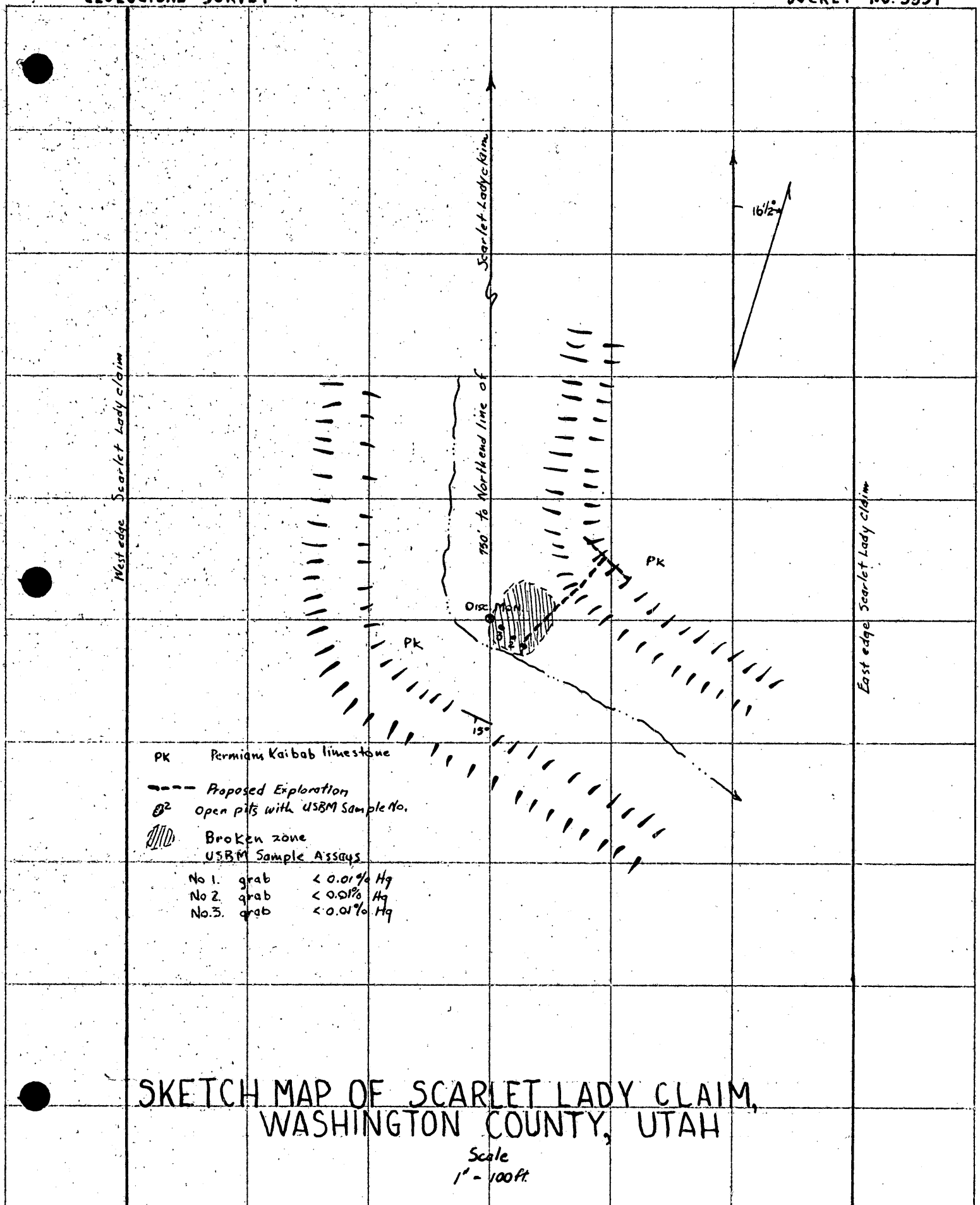
0 5 10 15 20 MILES
Scale

FIG2

"ALBANENE" NO. 195M K&E CO., N.Y.
REG. U.S. PAT. OFF.

U. S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
DOCKET NO. 3951



SKETCH MAP OF SCARLET LADY CLAIM, WASHINGTON COUNTY, UTAH

Scale
1" = 100 ft.

FIG 2

"ALBANENE" REG. U.S. PAT. OFF. No. 195M K&E CO., N.Y.

400

DOCKET
Surname:
Martin

SEP 21 1955

Mr. Thomas Waggoner
236 South Main Street
St. George, Utah

Re: Docket No. DMEA 3951 - Mercury
Scarlet Lady Claim
Washington County, Utah

Dear Mr. Waggoner:

Thank you for your communication, received September 19, 1955, forwarding to us your Notice of Location for the Scarlet Lady claim, Washington County, Utah.

We have made a copy of the recording data for our file and are returning your Notice of Location herewith. We appreciate your supplying us with this information.

Sincerely yours,

Frank E. Johnson

ACTING Administrator

Enclosure

cc: Docket
Adm. Read. File
Code 400
H. M. Meyer, USBM
T. H. Kiilsgaard, USGS
FT, Region 3

WSMartin/ls
9/20/55

Thomas Moggoner
St. Joseph 236 So. M
Utah.
Sub. proof of ownership
Docket No. 3951
Enclosed find location notice

Sincerely
Thos. Moggoner

wsy

RECEIVED
SEP 19 1955

Docket

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

RECEIVED
SEP - 6 1955

September 1, 1955

224 New Customhouse
Denver 2, Colorado

Copy [illegible]

WSM

Memorandum

To: W. H. King (With brochure)
R. W. Osterstock

From: Executive Officer, DMEA Field Team, Region XII

Subject: Docket DMEA 3951 (Mercury), Thomas Waggoner, Scarlet Lady Claim, Washington County, Utah

Enclosed is the subject application in the amount of $7,599.80. Also enclosed is a copy of a letter from the Chairman of the Operating Committee and attached memoranda from the members of the Branch of Base Metals.

A field examination and suitable report are requested.

W. M. Traver
W. M. Traver

Enclosures

HMC:ab
cc: Sec. Opr. Comm. (2)
Harshman
Docket 3951
Chron.

DOCKET
SURNAME
400 Holt
Chapman
Kilsgaard
Yoder
Fudge

AUG 29 1955

Mr. Thomas Waggoner
236 South Main Street
St. George, Utah

Re: Docket No. DMEA 3951 - Mercury
Scarlet Lady Claim
Washington County, Utah

Dear Mr. Waggoner:

The above-docketed application for exploration assistance has been reviewed by the Defense Minerals Exploration Administration and referred to Mr. W. M. Traver, Executive Officer, DMEA Field Team, Region III, 224 New Custom House, Denver 2, Colorado, for a field examination of the property.

Any assistance that you can give members of the Field Team will be appreciated.

Sincerely yours,

C. O. Mittendorf

Administrator

8/25/55 - SPHOLT/foc

cc to: Docket
Code 400
Adm. Read. File
Operating Comm.
FT. REG. III
H. M. Meyer, USBM
T. H. Kiilsgaard, USGS

R.C.J.

DOCKET
SURNAME
400 Hoff
Chapman
Selfridge

AUG 2 9 1955

Mr. W. M. Traver, Executive Officer
DMEA Field Team, Region III
224 New Custom House
Denver 2, Colorado

Re: Docket No. DMEA 3951 - Mercury
Thomas Waggoner
Scarlet Lady Claim
Washington County, Utah

Dear Mr. Traver:

The above-docketed application for exploration assistance is being referred to your office for a review or field examination of the property.

In reviewing the subject application it was noted that very little information on the occurrence of mercury in the area was given in the application, and no report on the area was available.

The applicant states in his application that his property is near that of W. A. Whitehead, whose application (Docket No. DMEA 3828), was referred to the Field Team about June 1, 1955.

Perhaps the report on the Whitehead application will cover both properties or give information necessary to make a Field Team appraisal on this application without further field work.

Two copies each of relevant memoranda by W. E. Nelson, Geological Survey, dated August 22, 1955, and James W. Pennington, Bureau of Mines, dated August 23, 1955, are enclosed for your information.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee (SHB)

Enclosure

8/25/55 SPHOLT/fcc
cc to: Docket
Code 400
Adm. Read. File
Operating Comm.
FT. REG. III
H. M. Meyer, USBM
T. H. Kiilsgaard, USGS

APPROVED:

P. F. Yopes (SHB)
Member, Bureau of Mines

Thor H. Kiilsgaard (SHB)
Member, Geological Survey

R.C.S.

Docket

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

August 23, 1955

Copy retained 400

Memorandum

To: W. S. Martin, Defense Minerals Exploration Administration

From: James W. Pennington, Branch of Base Metals

Subject: Review of DMEA application, Docket No. 3951 (mercury)
Thomas Waggoner, Washington County, Utah

The exploration proposed for this property consists of a 50-foot crosscut and a 100-foot drift.

Very little information on the occurrence of mercury in the area is given in the application and no report on the area is available.

It is recommended that a Field Team examination be made of the property to obtain the necessary information.

James W. Pennington

James W. Pennington

copy to: Division of Minerals
Branch of Base Metals
H. M. Meyer
F i l e s
Thor Kiilsgaard, U.S.G.S.

RECEIVED
AUG 23 1955

Docket

IN REPLY REFER TO:

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

August 22, 1955

Re: DMEA 3951
Thos. Waggoner
Unpatented Claims
Washington Co., Utah
$7,599.80 - Mercury

Copy retained 400

Memorandum

To: W. S. Martin, Defense Minerals Exploration Administration

From: N. E. Nelson, U. S. Geological Survey

Subject: Review of Application.

According to the applicant, the ground he desires to explore with 50 feet of crosscut and 100 feet of drift is near that of W. A. Whitehead, whose application, Docket 3828, was referred to the field about June 1, 1955.

No Field Team report has been received. Perhaps the report will cover both prospects or at least give information which will permit a Field Team appraisal of this application without further field work.

Referral to the Field Team is indicated and so recommended.

N. E. Nelson

N. E. Nelson

RECEIVED
AUG 2 - 1955

August 18, 1955

Memorandum

To: Executive Officer, DMEA Field Team, Region III

From: Chief, Operation's Control and Statistics Division

Subject: Assignment of Docket Number

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

DMEA-3951 Thomas Waggoner

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

August 18, 1955
Subject: DMEA-3951
Re: Exploration Assistance

Mr. Thomas Waggoner
236 South Main Street
Saint George, Utah

Dear Mr. Waggoner:

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

Your application has been assigned Docket Number DMEA-3951 and referred to the Iron and Ferro-Alloys Division.

Kindly identify all future correspondence relating to your application by this docket number.

Sincerely yours,

Robert E. Adams, Chief
Operations Control and
Statistics Division

60932

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

224 New Customhouse
Denver 2, Colorado

August 16, 1955

Memorandum

To: Secretary to the Operating Committee

From: Executive Officer, DMEA Field Team, Region III

Subject: Application for DMEA aid (Mercury), Thomas Waggoner, Scarlet Lady claim, Washington County, Utah

Enclosed are three copies of the subject application in the amount of $7,599.80.

Also attached is one copy of a Notice of Location which accompanied the application.

W. M. Traver

Enclosures

W. M. Traver

RECEIVED
AUG 18 1955

DMEA
Date Rec'd.

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Form Approved.
Budget Bureau No. 42-R1085.2.

AUG 15 1955

BUREAU OF MINES
Denver, Colorado

APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER 1, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

Not to be filled in by applicant

Docket No. 3951
Metal or Mineral Mercury
Date Received 8-18-55
Estimated Cost $7,599.80
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: Thomas Waggoner
236 South Main Street
St. George, Utah

(*b*) If other than an individual, add to your name above whether a corporation, partnership, etc., and the name of the State in which incorporated or otherwise organized.

(*c*) If a corporation, add to above statement, titles, names and addresses of officers.

(*d*) If a partnership, add to the above statement the names and addresses of all partners.

2. *General.*—Read DMEA Order 1, "Government Aid in Defense Exploration Projects," before completing this application. Submit this application and all accompanying papers in quadruplicate (four copies), with your name and address on each sheet of the application and on all accompanying papers. Where sufficient space is not provided on the form for all required information, state it on an accompanying paper, with a reference in each case to the instruction to which it refers by number. Comply with all applicable instructions; or, if not applicable, so state. File the application with Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest field executive officer thereof.

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract

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

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise Unpatented mining claims Washington Co., Utah

(*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.

4. *Physical description.*—(*a*) Describe in detail any mining or exploration operations which have been or now are being conducted upon the land, including existing mine workings and production facilities. State your interest, if any, in such operations. Also describe accessibility of mine workings for examination purposes.

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

(*c*) Describe the geologic features of the property, including mineralization, type of deposit (vein, bedded, etc.), and your reasons for wishing to explore. Illustrate with maps or sketches. Send with your application (but not necessarily as a part of it) any geologic or engineering report, assay maps, or other technologic information you may have, indicating on each whether you require its return to you.

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points.

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

16—66551-1

RECEIVED
AUG 18 1955

5. *The exploration project.*—(*a*) State the mineral or minerals for which you will to explore Mercury

(*b*) Describe fully the proposed work, including a map or sketch of the property showing a plan (and cross sections if needed) of any present mine workings, and the location of the proposed exploration work as related to such features as contacts, veins, ore-bearing beds, etc.

(*c*) The work will start within 30 days and be completed within 6 months from the date of an exploration project contract.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated _____, 195__

_____
(Applicant)

By_____

_____

_____

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

Thomas Waggoner
236 South Main Street
St. George, Utah

4 (A)

W. A. Whitehead has applied for loan on same formation. This has been inspected by you.

4 (B)

None.

4 (C)

Shinrump. Horizon cemented with Calcite and water crystal. The courses indicate the fluids followed a fault app. N-20° E. This is more apparent on the South exposure due to more intense weathering. Pan sampling yeilded poor to rich cinnibar with some float carring values as high as 70%. The "mud slips," in area of the proposed mine site would seem to give evidence of an ore Kidney which perhaps explains the richness of the float. It is my opinion that a drift at this location will uncover a considerable body of ore.

4 (D)

Project 4 miles from town. Located on Highway 91.

4 (E)

Manpower in plentiful supply, water and power within 1/2 mile.

5 (D)

Total of 15 years experience devoted entirely to mining and milling cinnibar, including 2 years as mine superintendent for Empire Mercury at Prineville, Oregon; 5 years leasing, operating my own retort.

COPY

Thomas Waggoner
236 South Main Street
St. George, Utah

6 (A)

None.

6 (B) Labor Super. Consult.

Geologist	$75.00

6 (C) Operating Materials Supplies.

Shovels	25.00
Picks	25.00
Lamps	18.00
Dynamite	418.50
Carbide	12.30
Fuze	10.00
Caps	10.00
Respirators	15.00
First Aid	20.00
Gasoline	396.00
Oil Motor Machine	50.00
	$1074.80

6 (D) Operating Eqpt.

Compressor	$2100.00
Ore Car	200.00
Tracks	450.00
Retort	200.00
Stocking Machine	400.00
Jack Hammer	200.00
Mucking Machine	800.00
Crusher	600.00
Truck	1500.00
	$5450.00

6 (E) Rehab. and Repairs

None.

7,599.80

6 (F)

None.

6 (G)

None.

6 (H) Contingencies

None Anticipated.

7 (A)

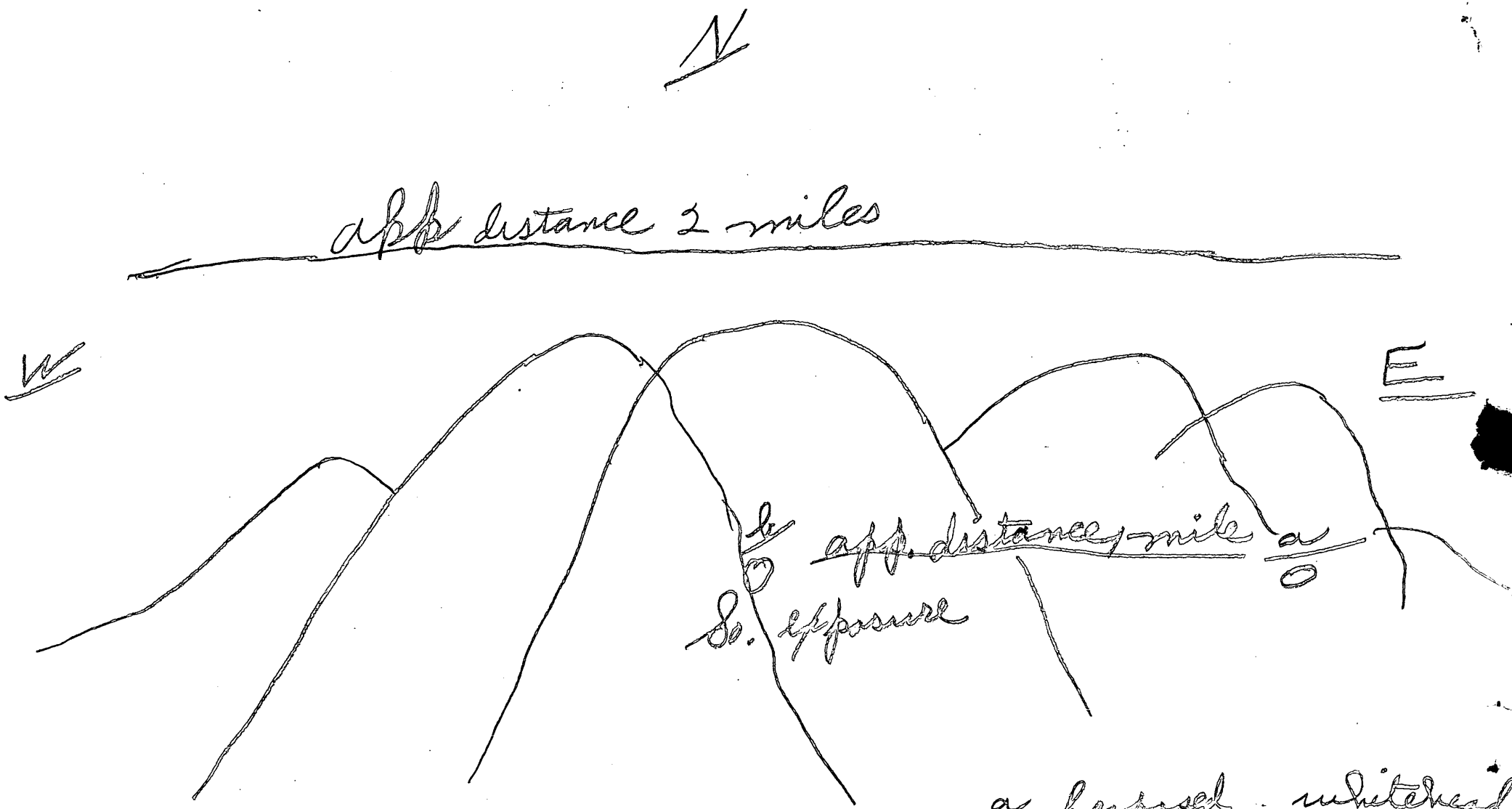
Yes.

7 (B)

I intend to furnish labor, timber, and cash for incidentals, including rail spikes, drift pins for timber and other hard to calculate items, which I will itemise and furnish you a list of in the amount of 25%.

COPY

5 b Thomas Wagoner St. George Utah.



b Calcite fissure which I wish to expose by crosscut 50 ft & 100 ft drift.

a proposed whitehead exploration on N. exposure loan pending on this end.

NOTICE OF LOCATION

NOTICE IS HEREBY GIVEN, That the undersigned, having complied with the requirements of SECTION 2324 of the REVISED STATUTES of the United States, and the Local Laws, Customs and Regulations of this District, ha located Fifteen hundred feet in length by 600 feet in width, on this the Cinibar. CLIMAX Lode, Vein or Deposit, bearing Gold, Silver, Copper, Lead and other valuable minerals, situated IN NORTH FORK OF DRY CANYON, ETC. 1 mile East 4 miles So of Washington in unsurveyed Sec. Township 42 S. Range 15 West

in the unknown SUPERFINE Mining District, Washington POORMANS County, State of Utah,

the location being described and marked on the ground as follows, to-wit:

Beginning 300 feet West SOUTH of this location (Discovery) Monument, at the South end center monument, and running

thence West WEST 300 feet to West SW corner monument No. 1;

thence North NORTH 1500 feet to North NW corner monument No. 2;

thence East EAST 300 feet to North NORTH end center monument;

thence East EAST 300 feet to North East NE corner monument No. 3;

thence South SOUTH 1500 feet to South East SE corner monument No. 4;

thence West WEST 300 feet to place of beginning; including all Dips, Spurs, Angles and Variations

The above described Mining Claim shall be known as the Scarlet Lady

Located this 15th day of July 1955

Note.

*The small type on blank lines is merely a guide for the locator and is no part of this notice.

†DIAGRAM OF CLAIM—The location (discovery point) and corner monuments should be designated on the accompanying diagram to make the Record of claim more perfect.

A mining claim must not exceed 1500 feet in length along the vein or lode, by 600 feet in width, 300 feet on each side of center of vein at surface.

No location of a mining claim can be made until the discovery of the vein or lode within the limits of the ground claimed.

The claim must be distinctly marked on the ground, so its boundaries can be readily traced.

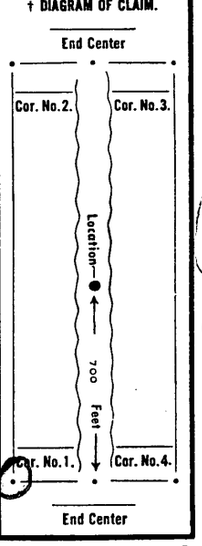
A severe penalty is provided by law for removing or defacing the stakes or monuments of a mining claim.

Claims located on Sunday or holidays are legal.

All valuable mineral deposits in lands of the Government are locatable by citizens of the United States only, and those who have declared their intentions to become such.

This location notice must be filed for Record with the County Recorder of the county in which the claim is located.

† DIAGRAM OF CLAIM.



NAMES OF LOCATORS:

Thomas Waggoner

(the original claim has not filed back as yet.)

Entry No. 98075 Recorded at request of Thomas Waggoner
Date August 11, 1955, at 11:10 a.m., Book X-36, page 10 Fee $1.00
BLANK No. 23—ARROW PRESS, 62 W. SECOND SOUTH, SALT LAKE
/s/ Helen P. Bleak Washington County Recorder, By _____ Deputy.