Administrator, DMEA

3/20/53

Iron and Ferro-Alloys Division, DMEA

Denial of application by Field Team, Region IV
Docket No. DMEA 2845 - Manganese
Joshua Sylvester Robinson
Pink Lady Claims
Juab County, Utah

The applicant requested exploration assistance in the amount of $22,019.00 to explore a manganese occurrence on the Pink Lady claims.

The manganese mineralization occurs along a north-striking fault in tuffs. Rocks in the vicinity are mainly coarse clastics and extrusives of Tertiary age. The ore body on which the exploration program was requested is about 30 feet long and averages 1.5 feet in thickness. Present workings consist of an eleven-foot shaft and several trenches.

Three samples were taken at four-foot intervals in the shaft and one sample from a trench 18 feet north of the shaft. The average of the four samples is 13.1 percent manganese, 38.4 percent silica, 1.1 percent iron, and 0.084 percent sulfur.

The Field Team has inferred ore reserves of 90 tons. While there is an increase in width of the vein with depth in the present exposures, the vein narrows noticeably along the strike and almost disappears within a short distance from the shaft.

The Field Team concludes that the manganese mineralization exposed on the claims is too small and low-grade for further consideration, and that there is insufficient geologic merit to warrant Government participation.

The application was denied by the Field Team and Mr. Robinson was advised of this action by letter of March 5, 1953.

We concur in the denial.

W. S. Martin

FARutledge/ls
3/20/53

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

cc: Docket
Admn. Read. File
Code 400
N. B. Melcher, USBM
M. D. Crittenden, USGS

400 copy

400

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

224 New Customhouse
Denver 2, Colorado

March 5, 1953.

Mr. Joshua Sylvester Robinson
Fillmore
Utah

Re: DMEA Docket 2845

Dear Mr. Robinson:

Reference is made to your application for Government aid on the Pink Lady claims.

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

A careful study of your property and data available to this agency, reveals that the probability of disclosing mineable reserves of manganese by your proposed exploration program is not considered sufficiently promising to justify Government participation. Under these circumstances, we regret to advise that your application for exploration aid is denied.

Very truly yours,

W. H. King
W. H. King
Field Team, Region IV

A. H. Koschmann
A. H. Koschmann
Field Team, Region IV

HMConnors:cwm

cc: Administrator (DMEA)
SRWilson
Subject
Chron.
Koschmann (2)

Reviewed by
DMEA OPERATING COMMITTEE
3-13-53
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Code 400

Mining Division
Region IV

March 5, 1953.

Memorandum

To: Field Team, Region IV

From: Chief, Mining Division, Region IV

Subject: Final Report, DMEA Docket 2845 (Manganese), Joshua Sylvester Robinson, Pink Lady claims, Juab County, Utah.

Enclosed are nine copies of a joint engineering and geologic report on the subject docket.

The applicant requested exploration aid in the amount of $22,019.00.

The field examiners recommend that the application be denied because the weak exposures of manganese mineralization suggest that bodies of appreciable size will not be found by further exploration work.

We concur in this recommendation.

W. H. King
W. H. King

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
3-13-53
(Date)

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

February 25, 1953

Memorandum

To: W. H. King, Chief, Mining Division, Region IV

From: Chief, Minerals Development Branch, Mining Division, Region IV

Subject: DMEA 2845, Joshua Sylvester Robinson, Pink Lady claims, Juab County, Utah

Enclosed are the original and eight copies of a joint engineering and geologic report covering examination of the subject property by personnel from this office and the office of the Geological Survey. A section on Summary, Conclusions and Recommendations is also enclosed.

Manganese mineralization on the Pink Lady claims occurs in a north-striking fault zone in volcanic rocks. An ore body approximately 30 feet in strike length and 1½ feet in thickness is exposed in the mineralized zone. Because of the small size of the mineralized section and the low grade of manganese, it is believed that the property does not have sufficient merit to warrant approval of an exploratory loan. It is therefore recommended that the loan request be denied. I concur with the recommendations of the examining personnel.

The original brochure is attached.

Stephen R. Wilson
Stephen R. Wilson

Enclosures 3

Reviewed by
DMEA Quality Control Officer
3-13-53
(date)

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

By John F. Haynes, John F. Powers and C. Ronald Willden

The Pink Lady manganese claims in Juab County, Utah, were examined by DMEA personnel during January 1953 for appraisal of a DMEA loan application under docket 2845. The applicant has requested a loan of $22,019 to explore a small body of manganese ore along a fault.

The rocks in the vicinity of the Pink Lady claims are mainly coarse clastics and extrusives of Tertiary age. The manganese mineralization is in a vein that follows a north-striking fault in tuffs. The ore body appears to be lenticular and is about 30 feet long and averages 1.5 feet in thickness. The ore minerals are psilomelane and pyrolusite. The inferred ore reserves are 90 tons.

It is believed that the Pink Lady claims have insufficient geologic merit to warrant Government participation in an exploratory program. Manganese mineralization exposed on the claims is too small and low-grade for further consideration. It is, therefore, recommended that the requested loan be denied.

Reviewed by
DMEA OPERATING COMMITTEE
3-13-53
(date)

JOSHUA SYLVESTER ROBINSON
PINK LADY CLAIMS
JUAB COUNTY, UTAH
Manganese
DMEA-2845

Engineering and Geologic Report

By John F. Haynes,
Mining engineer
Bureau of Mines

and

John F. Powers and
C. Ronald Willden,
Geologists
Geological Survey

Reviewed by
DMEA OPERATING COMMITTEE
3-13-53
(date)

JOSHUA SYLVESTER ROBINSON,
PINK LADY CLAIMS,
JUAB COUNTY, UTAH

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Ownership and extent	3
Past production	3
Present status	4
Geology	4
Minable ore reserves	6
Conclusions and recommendations	6

ILLUSTRATIONS

Fig. 1 Location map, Pink Lady claims, Juab County, Utah
Fig. 2 Geologic map of the Pink Lady claims

INTRODUCTION

An examination of Joshua Sylvester Robinson's Pink Lady claims in Juab County, Utah, was made on January 22, 1953, by John F. Haynes of the Bureau of Mines and John F. Powers and C. Ronald Willden of the Geological Survey. The owners were not available to accompany the examining personnel to the property.

The purpose of the examination was the evaluation of the claims for a DMEA exploratory loan application. The estimated cost of the proposed exploratory program is $22,019.

LOCATION AND PHYSICAL FEATURES

The Pink Lady claims are located in the SW 1/4 Sec. 32, T. 16 S., R. 1 W., in a low range of hills on the east side of the Sevier Bridge Reservoir, 13 miles south of Levan, Utah. The claims are approximately 1.5 miles west of Highway 28. The road from the highway to the property is a poor, unimproved, dirt road, but it is passable by cars and trucks except during extremely wet weather.

The area in the vicinity of the claims is of low relief, and altitudes on the property do not vary more than 200 feet. The altitude at the mine is approximately 6,100 feet. The claims lie in the trough of a small valley.

Vegetation in the area is sparse and consists principally of scattered juniper trees and brush. Timber for mining purposes will require importation. No water is present in the immediate vicinity,

but sufficient water for mining purposes can be obtained from the Sevier Bridge Reservoir, approximately 2 miles south of the prospect.

OWNERSHIP AND EXTENT

The Pink Lady property consists of five unpatented lode mining claims which are located in the SW 1/4 Sec. 32, T. 16 S., R. 1 W. The owners are Joshua Sylvester Robinson and Glenn Lyman, of Fillmore, Utah. The claims are recorded in the office of the County Recorder in Nephi, Juab County, Utah, as follows:

Claim	Recording Date	Book	Page
Pink Lady No. 1	July 1, 1952	150	401
Pink Lady No. 2	July 1, 1952	150	400
Pink Lady No. 3	August 18, 1952	151	192
Pink Lady No. 4	August 13, 1952	151	163
Pink Lady No. 5	August 13, 1952	151	164

PAST PRODUCTION

No manganese properties in the area are producing at the present time, and production has been very limited in the past. Three cars of manganese ore assaying 10 to 15 percent manganese were reported to have been shipped in 1917. Fred Staats of Salt Lake City is reported to have shipped 100 tons of ore of unknown grade in 1938. The ores shipped during past years were mined from scattered workings on the east ends of the claims now known as Pink Lady Nos. 4 and 5. No other production has been reported from the area.

PRESENT STATUS

The present workings on the Pink Lady claims consist of an 11-foot vertical shaft and several prospect trenches. Old workings on the property consist of a short tunnel, a shallow, inclined shaft, and several shallow trenches. These workings are no longer active, and the new work is confined to the vein exposed in the valley floor to the west.

The shaft has been started on a small vein of manganese ore exposed in a fault. The fault strikes north-south and dips 75° to 85° to the west. The width of the vein increases in depth from approximately 1 foot near the collar of the shaft to 1.8 feet at the bottom of the shaft. The vein narrows to a width of 9 inches in a trench 18 feet north of the shaft. No manganese minerals were seen in place along the strike of the fault, although pieces of float were found.

There is no mining equipment on the property. The shaft and trench work was done with picks and shovels, and the broken rock from the shaft was hoisted with a small hand windlass. The owner states in his application, however, that he has all equipment needed to complete the proposed work.

GEOLOGY

The rocks in the area of the Pink Lady claims are mainly coarse clastics and extrusives of Tertiary age (fig. 2). The rocks are displaced by nearly vertical faults striking north-south, and form low

cuesta-like hills tilted to the west. The ore is concentrated in a vein along one of the faults.

Two distinct lithologic units occur in the immediate area (fig. 2); the lower unit consists of interbedded tuffs, sandstones, conglomerates, and rhyolitic flows; the upper unit is composed of about 250 feet of pumice tuff breccia. The sandstone and conglomerates are mainly volcanic material. The tuffs along the east side of the fault are dark grey; on the west side they are locally altered to a pink color. The pink color may be the result of argillic alteration. The pumice tuff breccia is 20 to 70 percent pumice. The higher content of pumice is at the top of the unit.

The rocks are displaced by a fault that strikes north and dips steeply west. Apparently, the fault has had a reverse movement. This fault has been mineralized and contains the small ore body that the applicant is exploring.

The ore body is a vein along a reverse fault that strikes north and dips 75° to 85° west. The vein is about 30 feet long and averages 1.5 feet in thickness, and has been explored to a depth of 12 feet (fig. 2).

The ore minerals are psilomelane and pyrolusite in a gangue of massive calcite and opal. To date no ore has been shipped from the Pink Lady workings.

MINABLE ORE RESERVES

Four samples were taken on the Pink Lady claims during the examination. Three shaft samples were taken at 4-foot intervals beginning 2 feet below the collar of the shaft, and one sample was taken from a trench 18 feet north of the shaft. The average width of the vein in the shaft is 1.5 feet and the width in the trench is 0.8 feet. The combined results of the samples indicates an average grade of 13.1 percent manganese, 38.4 percent silica, 1.1 percent iron, and 0.085 percent sulfur.

Showings of ore on the Pink Lady claims do not indicate that bodies of appreciable size will be found. Only 30 feet of manganese mineralization is exposed along the strike of the fault, and the vein has been opened to a depth of 12 feet. A slight increase in width of the vein with depth was noted, but the vein narrows noticeably along the strike and almost disappears within a short distance from the shaft. It is improbable that the occurrence is more than a local concentration of manganese minerals along a fault, and it is doubtful that ore will persist more than a few feet from the present workings. Ore reserves of all classifications probably do not exceed 90 tons.

CONCLUSIONS AND RECOMMENDATIONS

A few sporadic attempts have been made in the past to mine manganese ores in the vicinity of the present workings on the Pink Lady claims. Such attempts have not been profitable because of the size

and grade of the ore bodies, and operations have been suspended after a few shipments of ores. The total recorded production from the district is probably no more than 200 tons of manganese ores of unknown grade. No commercial ores have been mined from the present workings on the Pink Lady claims.

The weak exposures of manganese mineralization on the Pink Lady claims suggest that bodies of appreciable size will not be found by further exploratory work. Exploration would have to be more successful than could reasonably be expected in order to offset several disadvantages of an engineering nature. The principal disadvantages apparent at the present time are related to the narrow width and the low grade of the exposed vein and the weakness of the walls. In view of the limited reserves and the combined importance of the disadvantages mentioned previously, it is believed by the examining personnel that the Government should not participate in an exploratory program on the Pink Lady claims.

On the basis of the above conclusions, it is recommended that the requested loan be denied.

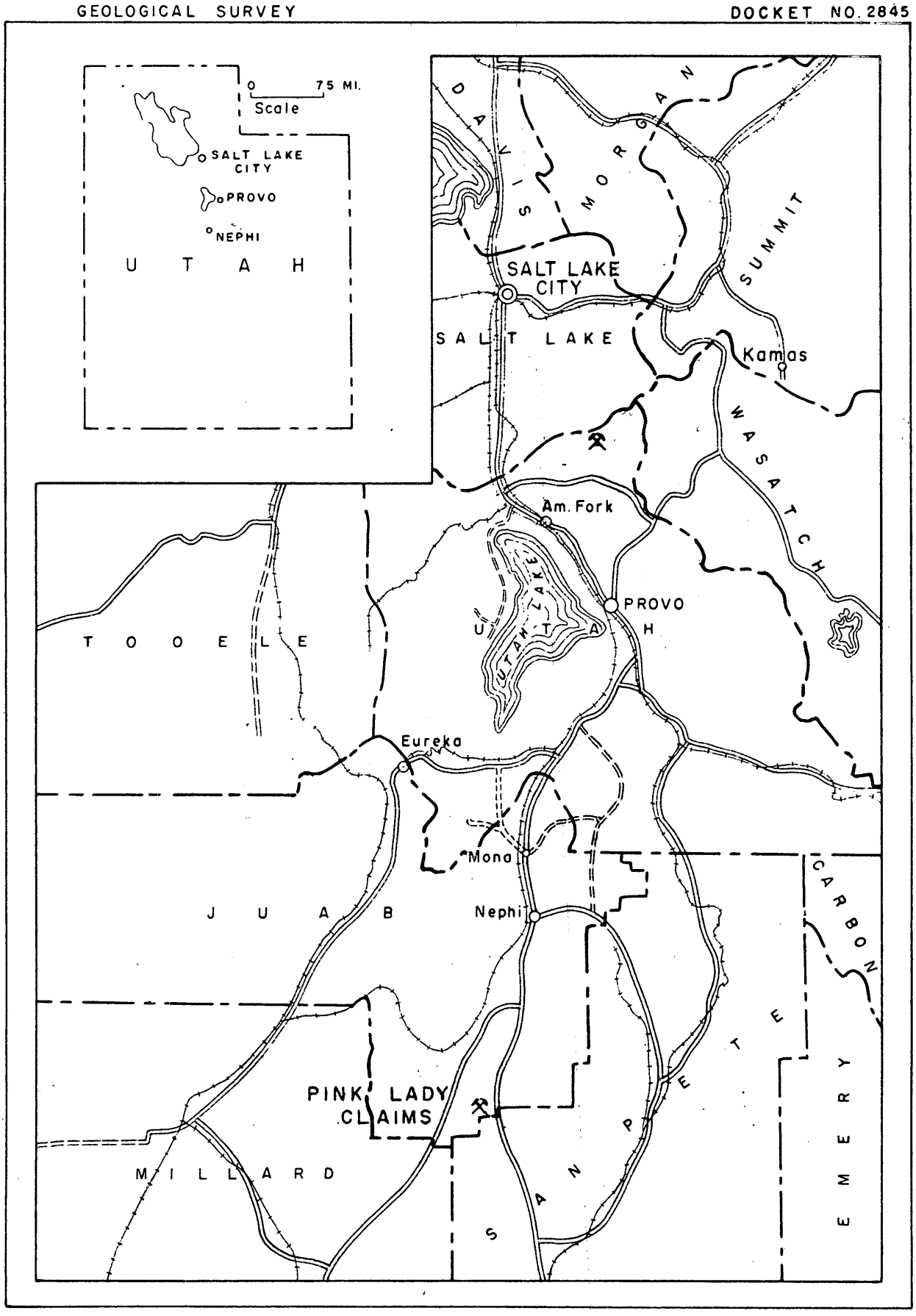

FIG. 1 INDEX MAP OF CENTRAL UTAH

0 5 10 15 20 MILES
Scale

14. Exhibit E (question 23-c)*

a) Is it applicable?_____

b) Sufficient data?_____

c) Reasonable?_____

d) Field check needed?_____

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

(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?_____

Reviewed by:_____

Date_____

STANDARD FORM NO. 64

402

Office Memorandum • UNITED STATES GOVERNMENT

TO : Administrator, DMEA

DATE: 3/20/53

FROM : Iron and Ferro-Alloys Division, DMEA

Noted
C. D. Mittendorf (for)

SUBJECT: Denial of application by Field Team, Region IV
Docket No. DMEA 2845 - Manganese
Joshua Sylvester Robinson
Pink Lady Claims
Juab County, Utah

The applicant requested exploration assistance in the amount of $22,019.00 to explore a manganese occurrence on the Pink Lady claims.

The manganese mineralization occurs along a north-striking fault in tuffs. Rocks in the vicinity are mainly coarse clastics and extrusives of Tertiary age. The ore body on which the exploration program was requested is about 30 feet long and averages 1.5 feet in thickness. Present workings consist of an eleven-foot shaft and several trenches.

Three samples were taken at four-foot intervals in the shaft and one sample from a trench 18 feet north of the shaft. The average of the four samples is 13.1 percent manganese, 38.4 percent silica, 1.1 percent iron, and 0.084 percent sulfur.

The Field Team has inferred ore reserves of 90 tons. While there is an increase in width of the vein with depth in the present exposures, the vein narrows noticeably along the strike and almost disappears within a short distance from the shaft.

The Field Team concludes that the manganese mineralization exposed on the claims is too small and low-grade for further consideration, and that there is insufficient geologic merit to warrant Government participation.

The application was denied by the Field Team and Mr. Robinson was advised of this action by letter of March 5, 1953.

We concur in the denial.

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

FILE COPY
SURNAME:

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

3/20/53 Rutledge
Martin

Administrator, DMEA

Iron and Ferro-Alloys Division, DMEA

BL

Denial of application by Field Team, Region IV
Docket No. DMEA 2845 - Manganese
Joshua Sylvester Robinson
Pink Lady Claims
Juab County, Utah

n.s. in R. v R.

The applicant requested exploration assistance in the amount of $22,019.00 to explore a manganese occurrence on the Pink Lady claims.

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The Field Team concludes that the manganese mineralization exposed on the claims is too small and low-grade for further consideration, and that there is insufficient geologic merit to warrant Government participation.

The application was denied by the Field Team and Mr. Robinson was advised of this action by letter of March 5, 1953.

We concur in the denial.

W. S. Martin

FARutledge/ls
3/20/53

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

cc: Docket
Admn. Read. File
Code 400
N. B. Melcher, USBM
M. D. Crittenden, USGS

Docket

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

224 New Customhouse
Denver 2, Colorado

March 5, 1953.

FAR: For review and concurrence, if indicated WSM 3-17-53

Memorandum

To: Administrator, Defense Minerals Exploration Administration
Attention: 200

From: Field Team, Region IV

Subject: Final Report, DMEA Docket 2845 (Manganese), Joshua Sylvester Robinson, Pink Lady claims, Juab County, Utah.

Enclosed are four copies of the final report on the subject docket, the original and one copy of Form 3b, and a copy of the letter of denial to the applicant.

W. H. King

A. H. Koschmann

Enclosures

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
MAR 9 1953

Reviewed by
DMEA OPERATING COMMITTEE
3-13-53
(date)

2845

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

BW

224 New Customhouse
Denver 2, Colorado

March 5, 1953.

Memorandum

To: Administrator, Defense Minerals Exploration Administration
Attention: 200

From: Field Team, Region IV

Subject: Final Report, DMEA Docket 2845 (Manganese), Joshua Sylvester Robinson, Pink Lady claims, Juab County, Utah.

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W. H. King
W. H. King

A. H. Koschmann
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Enclosures

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
MAR 6 1953

Reviewed by
DMEA OPERATING COMMITTEE
3-13-53
(Date)

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

COPY

224 New Customhouse
Denver 2, Colorado

March 5, 1953.

Mr. Joshua Sylvester Robinson
Fillmore
Utah

Dear Mr. Robinson:

Re: DMEA Docket 2845

Reference is made to your application for Government aid on the Pink Lady claims.

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

A careful study of your property and data available to this agency, reveals that the probability of disclosing mineable reserves of manganese by your proposed exploration program is not considered sufficiently promising to justify Government participation. Under these circumstances, we regret to advise that your application for exploration aid is denied.

Very truly yours,

/s/ W. H. King
Field Team, Region IV

/s/ A. H. Koschmann
Field Team, Region IV

HMConnors;cwm

cc: Administrator (DMEA)
SRWilson
Subject
Chron.
Koschmann (2)

Reviewed by
DMEA OPERATING COMMITTEE
3-18-53
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Mining Division
Region IV

March 5, 1953.

Memorandum

To: Field Team, Region IV

From: Chief, Mining Division, Region IV

Subject: Final Report, DMEA Docket 2845 (Manganese), Joshua Sylvester Robinson, Pink Lady claims, Juab County, Utah.

Enclosed are nine copies of a joint engineering and geologic report on the subject docket.

The applicant requested exploration aid in the amount of $22,019.00.

The field examiners recommend that the application be denied because the weak exposures of manganese mineralization suggest that bodies of appreciable size will not be found by further exploration work.

We concur in this recommendation.

W. H. King

W. H. King

Enclosures

Reviewed by
DMEA [illegible] COMMITTEE
3-13-53
(Date)

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

February 25, 1953

Memorandum

To: W. H. King, Chief, Mining Division, Region IV

From: Chief, Minerals Development Branch, Mining Division, Region IV

Subject: DMEA 2245, Joshua Sylvester Robinson, Pink Lady claims, Juab County, Utah

Enclosed are the original and eight copies of a joint engineering and geologic report covering examination of the subject property by personnel from this office and the office of the Geological Survey. A section on Summary, Conclusions and Recommendations is also enclosed.

Manganese mineralization on the Pink Lady claims occurs in a north-striking fault zone in volcanic rocks. An ore body approximately 30 feet in strike length and 1½ feet in thickness is exposed in the mineralized zone. Because of the small size of the mineralized section and the low grade of manganese, it is believed that the property does not have sufficient merit to warrant approval of an exploratory loan. It is therefore recommended that the loan request be denied. I concur with the recommendations of the examining personnel.

The original brochure is attached.

Stephen R. Wilson
Stephen R. Wilson

Enclosures 3

Returned to
DMEA CONTRACT COORDINATOR
3-13-53
(Date)

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

By John F. Haynes, John F. Powers and C. Ronald Willden

The Pink Lady manganese claims in Juab County, Utah, were examined by DMEA personnel during January 1953 for appraisal of a DMEA loan application under docket 2845. The applicant has requested a loan of $22,019 to explore a small body of manganese ore along a fault.

The rocks in the vicinity of the Pink Lady claims are mainly coarse clastics and extrusives of Tertiary age. The manganese mineralization is in a vein that follows a north-striking fault in tuffs. The ore body appears to be lenticular and is about 30 feet long and averages 1.5 feet in thickness. The ore minerals are psilomelane and pyrolusite. The inferred ore reserves are 90 tons.

It is believed that the Pink Lady claims have insufficient geologic merit to warrant Government participation in an exploratory program. Manganese mineralization exposed on the claims is too small and low-grade for further consideration. It is, therefore, recommended that the requested loan be denied.

Reviewed by
DMEA OPERATING COMMITTEE
3-13-53
(date)

JOSHUA SYLVESTER ROBINSON
PINK LADY CLAIMS
JUAB COUNTY, UTAH
Manganese
DMEA-2845

Engineering and Geologic Report

By John F. Haynes,
Mining engineer
Bureau of Mines

and

John F. Powers and
C. Ronald Willden,
Geologists
Geological Survey

Reviewed by
DMEA OPERATING COMMITTEE
3-13-53
(date)

JOSHUA SYLVESTER ROBINSON,
PINK LADY CLAIMS,
JUAB COUNTY, UTAH

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Ownership and extent	3
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Present status	4
Geology	4
Minable ore reserves	6
Conclusions and recommendations	6

ILLUSTRATIONS

Fig. 1 Location map, Pink Lady claims, Juab County, Utah
Fig. 2 Geologic map of the Pink Lady claims

Reviewed by
DMEA OPERATING COMMITTEE
3-13-53
(date)

INTRODUCTION

An examination of Joshua Sylvester Robinson's Pink Lady claims in Juab County, Utah, was made on January 22, 1953, by John F. Haynes of the Bureau of Mines and John F. Powers and C. Ronald Willden of the Geological Survey. The owners were not available to accompany the examining personnel to the property.

The purpose of the examination was the evaluation of the claims for a DMEA exploratory loan application. The estimated cost of the proposed exploratory program is $22,019.

LOCATION AND PHYSICAL FEATURES

The Pink Lady claims are located in the SW 1/4 Sec. 32, T. 16 S., R. 1 W., in a low range of hills on the east side of the Sevier Bridge Reservoir, 13 miles south of Levan, Utah. The claims are approximately 1.5 miles west of Highway 28. The road from the highway to the property is a poor, unimproved, dirt road, but it is passable by cars and trucks except during extremely wet weather.

The area in the vicinity of the claims is of low relief, and altitudes on the property do not vary more than 200 feet. The altitude at the mine is approximately 6,100 feet. The claims lie in the trough of a small valley.

Vegetation in the area is sparse and consists principally of scattered juniper trees and brush. Timber for mining purposes will require importation. No water is present in the immediate vicinity,

but sufficient water for mining purposes can be obtained from the Sevier Bridge Reservoir, approximately 2 miles south of the prospect.

OWNERSHIP AND EXTENT

The Pink Lady property consists of five unpatented lode mining claims which are located in the SW 1/4 Sec. 32, T. 16 S., R. 1 W. The owners are Joshua Sylvester Robinson and Glenn Lyman, of Fillmore, Utah. The claims are recorded in the office of the County Recorder in Nephi, Juab County, Utah, as follows:

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PAST PRODUCTION

No manganese properties in the area are producing at the present time, and production has been very limited in the past. Three cars of manganese ore assaying 10 to 15 percent manganese were reported to have been shipped in 1917. Fred Staats of Salt Lake City is reported to have shipped 100 tons of ore of unknown grade in 1938. The ores shipped during past years were mined from scattered workings on the east ends of the claims now known as Pink Lady Nos. 4 and 5. No other production has been reported from the area.

PRESENT STATUS

The present workings on the Pink Lady claims consist of an 11-foot vertical shaft and several prospect trenches. Old workings on the property consist of a short tunnel, a shallow, inclined shaft, and several shallow trenches. These workings are no longer active, and the new work is confined to the vein exposed in the valley floor to the west.

The shaft has been started on a small vein of manganese ore exposed in a fault. The fault strikes north-south and dips 75° to 85° to the west. The width of the vein increases in depth from approximately 1 foot near the collar of the shaft to 1.8 feet at the bottom of the shaft. The vein narrows to a width of 9 inches in a trench 18 feet north of the shaft. No manganese minerals were seen in place along the strike of the fault, although pieces of float were found.

There is no mining equipment on the property. The shaft and trench work was done with picks and shovels, and the broken rock from the shaft was hoisted with a small hand windlass. The owner states in his application, however, that he has all equipment needed to complete the proposed work.

GEOLOGY

The rocks in the area of the Pink Lady claims are mainly coarse clastics and extrusives of Tertiary age (fig. 2). The rocks are displaced by nearly vertical faults striking north-south, and form low

cuesta-like hills tilted to the west. The ore is concentrated in a vein along one of the faults.

Two distinct lithologic units occur in the immediate area (fig. 2); the lower unit consists of interbedded tuffs, sandstones, conglomerates, and rhyolitic flows; the upper unit is composed of about 250 feet of pumice tuff breccia. The sandstone and conglomerates are mainly volcanic material. The tuffs along the east side of the fault are dark grey; on the west side they are locally altered to a pink color. The pink color may be the result of argillic alteration. The pumice tuff breccia is 20 to 70 percent pumice. The higher content of pumice is at the top of the unit.

The rocks are displaced by a fault that strikes north and dips steeply west. Apparently, the fault has had a reverse movement. This fault has been mineralized and contains the small ore body that the applicant is exploring.

The ore body is a vein along a reverse fault that strikes north and dips 75° to 85° west. The vein is about 30 feet long and averages 1.5 feet in thickness, and has been explored to a depth of 12 feet (fig. 2).

The ore minerals are psilomelane and pyrolusite in a gangue of massive calcite and opal. To date no ore has been shipped from the Pink Lady workings.

and grade of the ore bodies, and operations have been suspended after a few shipments of ores. The total recorded production from the district is probably no more than 200 tons of manganese ores of unknown grade. No commercial ores have been mined from the present workings on the Pink Lady claims.

The weak exposures of manganese mineralization on the Pink Lady claims suggest that bodies of appreciable size will not be found by further exploratory work. Exploration would have to be more successful than could reasonably be expected in order to offset several disadvantages of an engineering nature. The principal disadvantages apparent at the present time are related to the narrow width and the low grade of the exposed vein and the weakness of the walls. In view of the limited reserves and the combined importance of the disadvantages mentioned previously, it is believed by the examining personnel that the Government should not participate in an exploratory program on the Pink Lady claims.

On the basis of the above conclusions, it is recommended that the requested loan be denied.

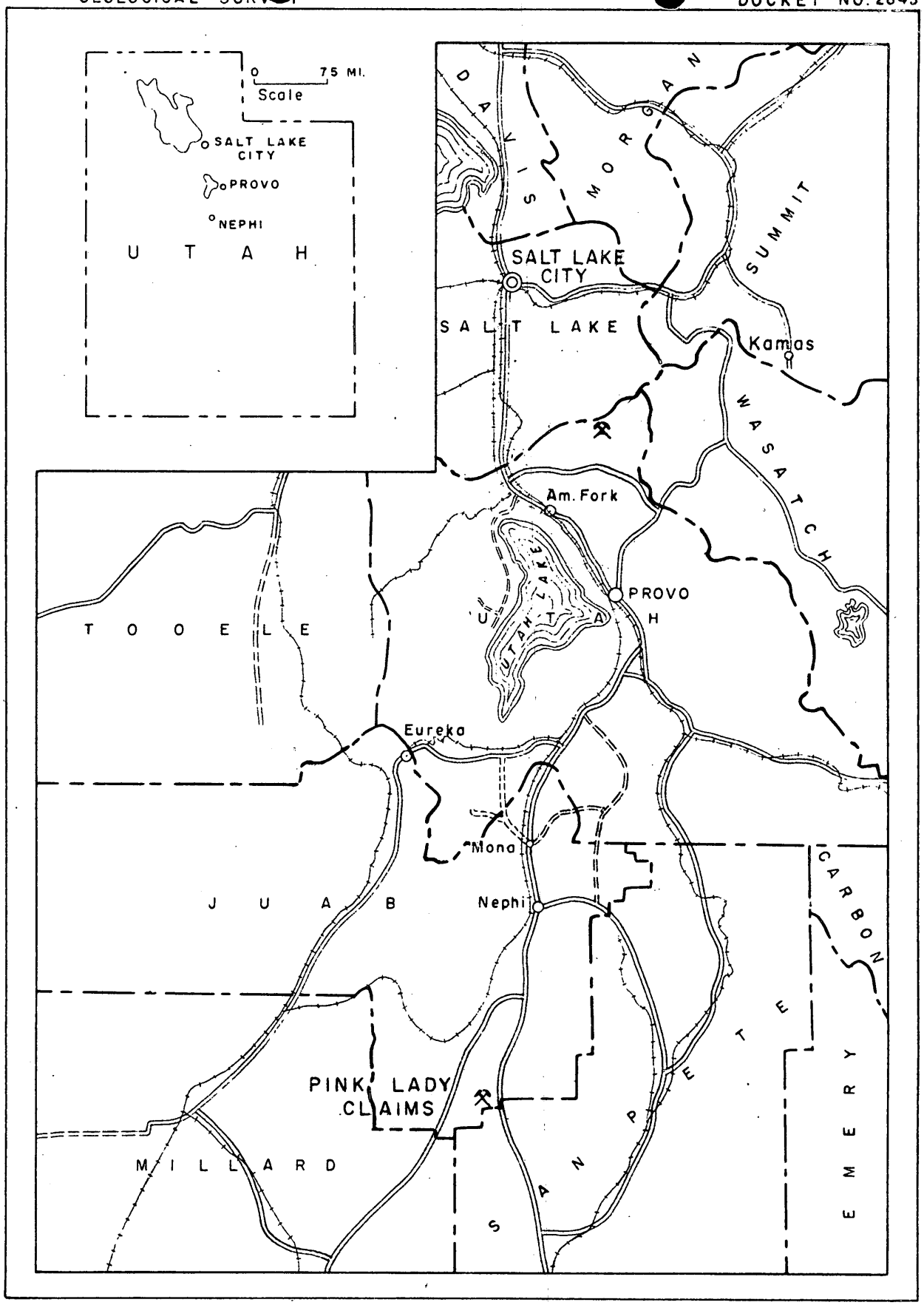


FIG. 1 INDEX MAP OF CENTRAL UTAH

0 5 10 15 20 MILES
Scale

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 8 1953

Not to be filled in by applicant

Docket No. DMEA-2845
Metal or Mineral
Date Received 1/8/53
Estimated Cost
Participation (Government %)

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

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: Joshua Sylvester Robinson
Fillmore, 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 Section 32-16 South-Range 1 West
Juab County, Utah

(*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 Owner

(*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. Pink Lady #1 -7/1/52 Bk.150 P.400 - Pk.Ldy.#2 -7/1/52 B.150 P.401
Pk.Ldy.#3 8/18/52 B 151 P.192 - Pk.Ldy.#4 8/13/42 Bk 151 P.163 - PkLdy#5 8/13/51 B151 P164

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.

5. *The exploration project.*—(*a*) State [redacted] mineral or minerals for which you wish to [redacted]ore Manganese

(*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 12 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?

☐ Money ☐ Use of equipment owned by you ☐ Other

Explain in detail on accompanying 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

SUPPLEMENT TO Form MF-103

1: (D) Glenn Lyman, Fayette, Utah

4: (a) 1917 there were three car loads of ore shipped ranging from 10-15%. See attached map for new discovery of ore ranging from 20 to 40%.

(b) Answered in item (a) above.

(c) This deposit lays between two rylight ledges in a highly mineralized region. The vein on the new ore is two feet wide at present. Believe there is a large body of ore nearby. Also having uncovered small vein of ore for approximately 600 ft.

(d) Oil roads, one mile. Rail center, 15 miles. Supply and residence points 45 miles.

(e) Have sufficient manpower, materials, supplies, equipment, water and power. All we need is sufficient amount of money to develop the property.

5: (b) Sink a 100 foot shaft and run a drift parallel to vein of ore approximately 300 feet. Believe this will open up considerable amount of high-grade manganese.

(d) 5 years of mining experience, both on timbering and equipment operation. Ray Spor, mining engineer, ten years experience.

6: (a) Independent contracts — none

(b) Labor, supervision, consultants:

2 Miners - - -	- - -	$ 15.00 p.d.
2 Muckers - - -	- - -	12.00 p.d.
1 Hoistman - -	- - -	14.00 p.d.
2 Carpenters -	- - -	12.50 p.d.
1 Foreman* -	- - -	17.00 p.d.

*Working foreman.

(f) New buildings, equipment, improvements, installations:

1 hoist house 10 X 12 feet	
1 kitchen 12 X 14 feet	
1 bunk house 14 X 18 feet	
3000 feet of lumber - - - - - - - - - - -	$ 425.00
Labor	300.00

(g) Miscellaneous:

Acctg., workman's compensation, employer's liability insurance, payroll taxes, estimate- - - - - - -	500.00

(h) Contingencies - 100.00

7: (a) Yes.

(b) Have $500.00 cash, Equipment: 2 trucks, 1 water wagon, 4 experienced men, 2 laborers.

6: Estimate of costs - see attached sheet.

Attachment for Item 6 (a) on supplemental sheet.

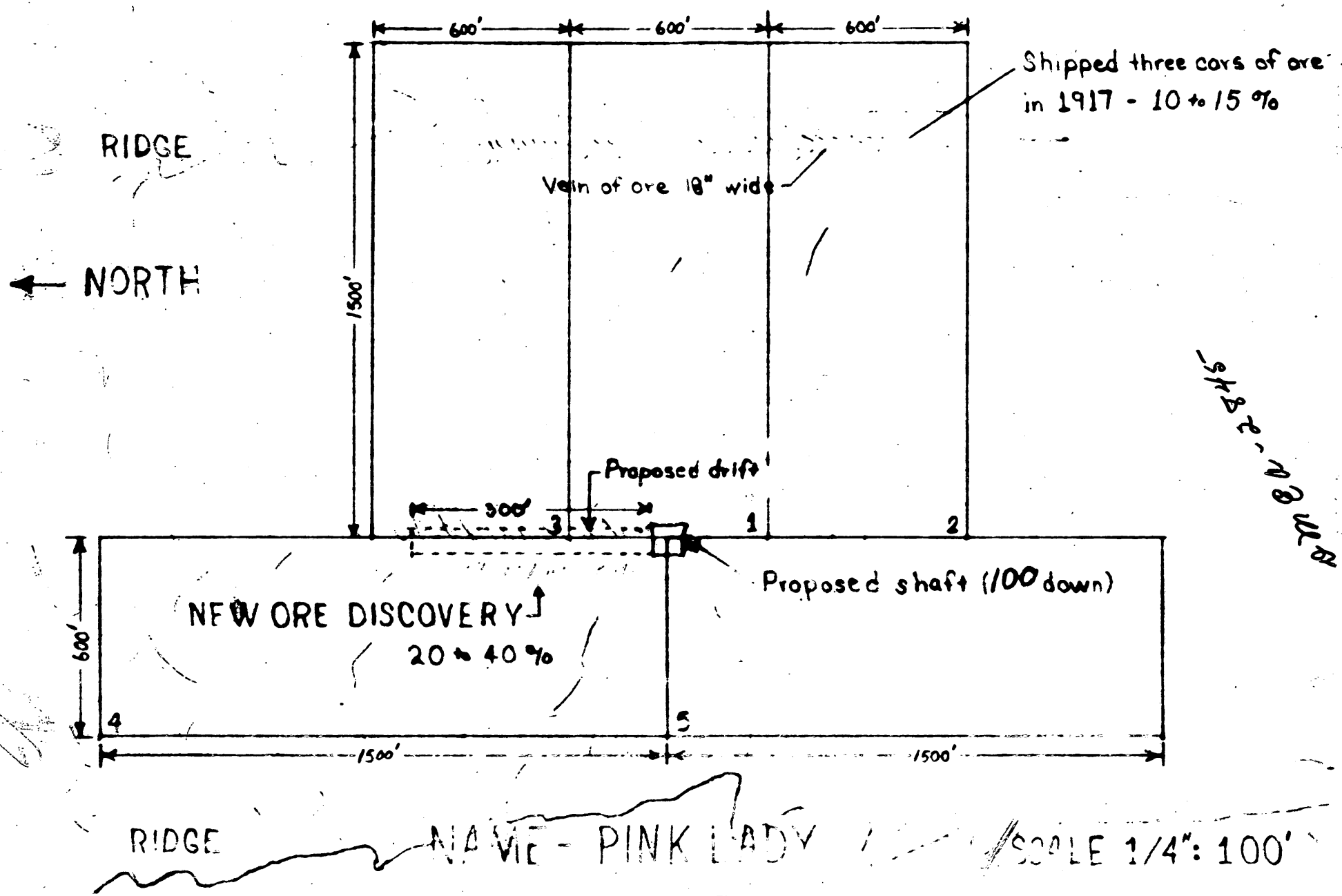
Sinking of shaft . . . . . at $38.00 per ft.		$3800.00
Estimated time . . . . 3 months.		
Driving of drift . . . . . $30.00 per ft.		9000.00
Material:		
Mine rails (3 ton)	$540.00	
Ties (3 hundred).70 each)	210.00	
Rail spikes (100 lbs.)	25.00	
Gas & Oil	$150.00	
Culverts for road . . .	125.00	
Total:		1050.00
Equipment:		
Rental on bulldozer 24 hrs. at $10.00 per hour . . .	240.00	
Rental on compressor and hammer, $300.00 per mo. for 12 months	3600.00	
Rental on tugger or hoist $50. per mo. 12 months .	600.00	
Rental on trucks for hauling water and lumber, and misel.	850.00	
Purchase of mine car . .	125.00	
Lighting plant	300.00	
Drill Steel and bits . .	100.00	
Powder . . . 32 boxes ..	384.00	
Fuses & Caps	125.00	
200 lbs. carbide	20.00	
Mat'l & Labor on bldgs.	725.00	
Misel., acctg., workman's compensation, employer's liability insur., payroll taxes, . . estimate . . .	500.00	
Contingencies	100.00	
Total:		8169.00
Mine timber	500.00	
Grand Total:		$22,019.00

Mining Division
Date Rec'd.

DEC 23 1952

BUREAU OF MINES
Denver, Colorado

FIVE CLAIMS of PROPERTY



1 cy of map enclosed

1/9/53

224 NEW CUSTOMHOUSE
DENVER 2, COLORADO

OFFICIAL BUSINESS

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

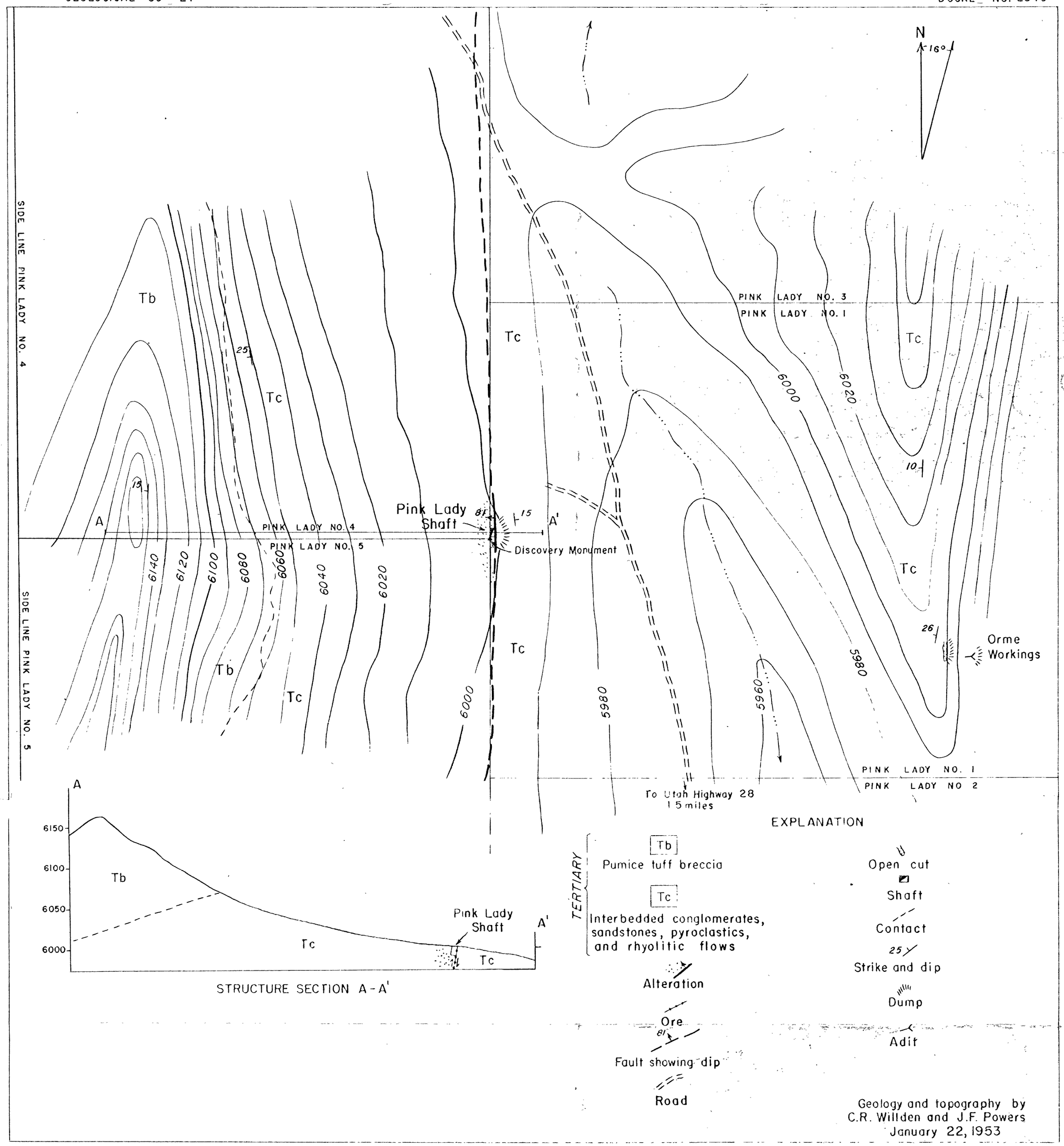


FIG. 2

GEOLOGIC MAP OF THE PINK LADY CLAIMS
JUAB CO. UTAH

0 100 200 FT.
SCALE

Datum plane assumed
Claim locations are approximate

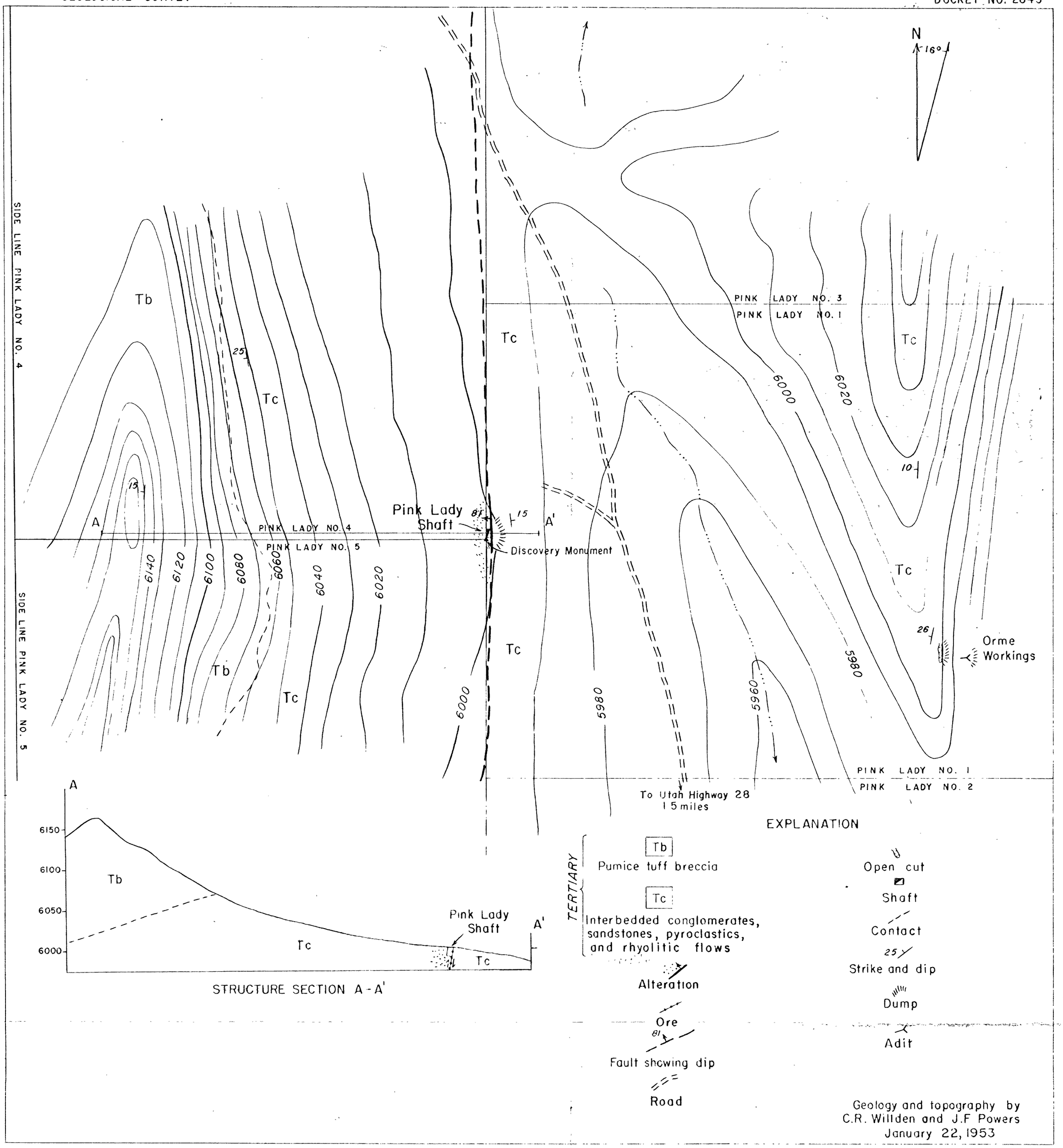


FIG. 2

GEOLOGIC MAP OF THE PINK LADY CLAIMS
JUAB CO. UTAH

0 100 200 FT.
SCALE

Datum plane assumed
Claim locations are approximate