DMA Form 1

DEFENSE MINERALS ADMINISTRATION
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DMA Docket No. 3674

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Cys to USBM and USGS.

This document has been recorded as

Exploration

Any action taken to change the type of request for assistance must be promptly reported to the Reports and Records Branch. Use DMA Form 2 for submitting these reports.

Routing Slip

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CONTROLLED DOCUMENT

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

224 New Customhouse
Denver 2, Colorado

December 15, 1954

Box 61

Mr. Eugene B. Swanson
408 Clara Street
Oakland 3, California

Re: DMEA application (Uranium) Eugene B. Swanson, Uranium Girl claim, (formerly Emergency claim), Paradox Mining District, Montrose County, Colorado.

Dear Mr. Swanson:

We are returning herewith your application for DMEA assistance in the exploration for uranium on your Uranium Girl claim for your reconsideration and possible revision as outlined below:

(1) Reference to the 17 drill logs of Wagon Drilling performed on the Uranium Girl claim by Vanadium Corporation of America. The drill logs (VCA Holes Nos. 679 to 695 incl.) submitted by you as part of your application indicates an absence of uranium mineralization in all holes drilled. The letter from V. C. A. transmitting these drill logs to you also indicates that the holes drilled are of no value (except as negative information) in establishing the existance of uranium mineralization on your property. We do need to know the exact location of these barren holes however in order to fully evaluate the merits of your proposed program.

(2) Your indicated production of 4 pounds of uranium from 2000 cubic feet (approximately 138 tons) of rim excavation also does not sufficiently establish the fact that good geologic targets exist to warrant an exploration program.

(3) If you still believe your property to have merit and can give additional information as to the possible existance of logical geologic targets on the Uranium Girl claim either from structures or drill holes on the claim itself or from drill hole data in the <u>near</u> vicinity of the claim, please submit a revised application which includes the following:

(a) A full and detailed explanation of your proposed program (Question 5(b) of Form MF-103). This should include the amount of readwork and your estimate of the hours of bulldozing required to accomplish this; the number of drill holes, approximate footage, total footage, and type of drilling required; and the drifting footage requested to explore your property.

(b) A claim map of suitable size upon which you have plotted to scale the locations of the seventeen wagon drill holes which were drilled by V.C.A. and the approximate locations of the drill holes, roadways, and drifting proposed by you. This map should also show the important geologic features such as mineralized outcrops, veins, etc.

(c) Your cost estimate is then to be based on the definite proposals as outlined above.

As soon as your revised application is received, a field examination of your property will be scheduled in order to evaluate the merits of the Uranium Girl claim and your exploration proposals.

Yours very truly,

W. H. King

W. H. King
Executive Officer
DMEA Field Team, Region IV

Enclosures

RDB:dm
cc: Subject
Sec., to Oper. Comm. (2)
RDBerkenkotter
Chron

Surname 700

Murphy
Ellis
Geehan
Kilgaard
Selfridge

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

AUG 2 5 1955

Mr. Eugene B. Swanson
82 Marie Drive
Hayward, California

Re: Docket No. DMEA-3674 (Uranium)
Uranium Girl claim
Montrose County, Colorado

Dear Mr. Swanson:

Your application for aid in an exploration project and other information available to us in Washington concerning your above-named 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 all our information, although noting a small amount of uranium mineralization on your property, indicates to us that the probability of disclosing minable ore reserves by your proposed program is not sufficiently promising to justify Government participation. We regret to advise you, under these circumstances, that your application for exploration assistance is denied.

We wish to thank you for your interest in the Defense Minerals Program and for bringing your property to our attention.

Sincerely yours,

C. O. Mittendorf

Administrator

FMurphy:am
8-22-55
cc to: Admr. Reading File
Operating Committee
Docket
Code 700
Mr. Murphy
DMEA Field Team, Region III(2)

(Docket Copy) Murphy Ellis 700

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

WASHINGTON 25, D. C.

August 22, 1955

SUMMARY OF PROPOSED PROJECT

Object: Denial of application for an exploration project.

Docket No.: DMEA-3674

Commodity: Uranium

Applicant: Eugene B. Swanson
82 - Marie Drive
Hayward, California

Property: One claim the "Uranium Girl" in sec. 14, T. 47N., R. 20W., Montrose County, Colorado

Date of Application: December 6, 1954

Referred to Region III: February 24, 1955

Field Team Report: Received in Washington - August 8, 1955

Work Proposed:
1) Construct access roads and prepare drill sites
2) Diamond drill 7 holes to 300' depth each
3) Diamond drill 2 holes to 450' depth each

Estimated Costs:

Bulldozer 83 1/3 hours @ $18/hr.	$1,500.00
3,000 feet core-drilling @ $4.50/ft.	13,500.00
400 feet drifting @ $30.00/ft.	12,000.00
Allowance for moving equipment on and off property	1,000.00
Construction office, barracks, and storeroom: 400 sq. ft. @ $7.00/ft.	2,800.00
Supervisor, 6 months @ $500/month	3,000.00
Consultants, 10 days @ $50/day	500.00
Geological and assay reports	100.00
Accountants fees	500.00
Liability insurance	125.00
Contingencies	1,000.00
Total	$36,025.00
Government participation @ 75 percent	$27,018.75

Field Team Report and Recommendation (excerpts)

A previous application (DMEA-3145) on the same property was denied in 1945.

Geology

The area that includes the Uranium Girl claim is underlain by the Jurrasic Morrison formation. The rocks that are exposed are those of the lower Brushy Basin member and the uppermost Salt Wash sandstone member. The upper sandstone is as much as 25 feet thick, and is a lenticular channel-type sandstone. In general, the mineralized material is scattered and is the rich, trash-pocket type of deposit.

U. S. Geological Survey exploratory drilling on the bench in the vicinity of the Uranium Girl claim drilled one hole that was slightly mineralized, but other drilling in the area was not encouraging as all of the other holes were barren.

With the exception of the deposits in the Yellow Bird mine, located about a mile northeast of the Uranium Girl claim, the deposits in the area are small and scattered.

The Vanadium Corporation of America and the United States Vanadium Company have thoroughly tested the claims surrounding the subject property and have not discovered ore bodies to warrant further exploration.

The V. C. A. completed 17 holes that averaged 35 feet in depth and penetrated the ore zone in the upper sandstone unit. Each of the 17 holes was barren and was bottomed in red mudstone. The results of this drilling caused the lessee to cancel his lease with the Applicant and advise him to do no further work on the Uranium Girl claim.

Field Team's Conclusions and Recommendations:

Results of drilling and mapping of the area by the U. S. Geological Survey and subsequent drilling by the V. C. A. indicate that any ore bodies discovered in the upper sandstone unit on the Uranium Girl claim would be small, and that deeper drilling through the Salt Wash would likely indicate only semi-favorable sandstone. Targets are small in the area. The Applicant owns only the Uranium Girl claim which, consequently, narrows the chances of finding any large tonnage of ore.

Note: The field examiners and the Field Team concur in recommending that the application be denied.

Commodity Committee Members' Comments

U. S. Geological Survey (excerpts)

W. P. Williams, August 11, 1955

"As I recall, private drilling by the V. C. A. on the Vanadium Girl claim was confined to the shales of the Brushy Basin member of the Morrison, which overlies the main ore host ... the Salt Wash member.

"However other drilling in the vicinity as well as characteristics of the ore bodies in the area lead me to concur with the recommendation that the application be denied."

U. S. Bureau of Mines

John E. Crawford, August 18, 1955

Concurs in Field Team's recommendation for denial.

Rare and Miscellaneous Metals Division

F. M. Murphy, August 19, 1955

A review of the data submitted by the Field Team indicates that the area adjacent to the subject property and also the Uranium Girl claim has been adequately explored, with negative results. Therefore, although some high-grade spots of uranium ore can be found in the proposed porject area, this Division does not believe a significant discovery would result from the proposed exploration work, therefore, we concur in the Field Team's recommendation of denial.

Ernest Wm. Ellis

Ernest Wm. Ellis, Chief
Rare and Miscellaneous
Metals Division

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

August 18, 1955

Memorandum

RECEIVED
AUG 18 1955

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee, Room 4445

From: John E. Crawford, Bureau of Mines Member
Uranium Commodity Committee

Subject: Report of examination, DMEA Docket 3674, Eugene B. Swanson, Uranium Girl Claim, Montrose County, Colorado

I have reviewed the Field Team report of examination, Uranium Girl Claim, DMEA Docket 3674, and I have discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

I note that the Bureau of Mines member of the field group did not participate in the examination of the property, having made such an examination at an earlier date under DMEA Docket 3145.

We agree with the recommendation of the Field Team that the application be denied.

The report is being forwarded to the Chief, Division of Minerals, in accordance with the routing slip attached thereto.

John E Crawford
John E. Crawford

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

August 18, 1955

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee, Room 4445

RECEIVED
AUG 18 1955

From: John E. Crawford, Bureau of Mines Member
Uranium Commodity Committee

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John E. Crawford

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

August 18, 1955

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Uranium Commodity Committee, Room 4445

From: John E. Crawford, Bureau of Mines Member
Uranium Commodity Committee

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We agree with the recommendation of the Field Team that the application be denied.

The report is being forwarded to the Chief, Division of Minerals, in accordance with the routing slip attached thereto.

John E. Crawford

RECEIVED
AUG 18 1955

8/12/55 gla

IN REPLY REFER TO:

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

August 11, 1955

Memorandum

To: E. W. Ellis, Defense Minerals Exploration Administration

From: W. P. Williams, U. S. Geological Survey

Subject: Review of Field Examination Report, DMEA Docket No. 3674 (uranium), Eugene B. Swanson, Uranium Girl Claim, Montrose County, Colorado.

After field examination, Mr. J. W. Hasler, U. S. Geological Survey, concludes that DMEA assistance is not warranted on the subject property.

As I recall, private drilling by Vanadium Corporation of America on the Uranium Girl claim was confined to the shales of the Brushy Basin member of the Morrison which overlies the main ore host--the Saltwash member.

However other drilling in the vicinity as well as characteristics of the ore bodies in the area lead me to concur with the recommendation that the application be denied.

WPWilliams

W. P. Williams

RECEIVED
AUG 12 1955

IN REPLY REFER TO:

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

August 11, 1955

Memorandum

To: E. W. Ellis, Defense Minerals Exploration Administration

From: W. P. Williams, U. S. Geological Survey

Subject: Review of Field Examination Report, DMEA Docket No. 3674 (uranium), Eugene B. Swanson, Uranium Girl Claim, Montrose County, Colorado.

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However other drilling in the vicinity as well as characteristics of the ore bodies in the area lead me to concur with the recommendation that the application be denied.

WPW

W. P. Williams

WPWilliams:iml
G-8/11/55
cc: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
J. E. Crawford, 3641
J. O. Hosted, 3210

RECEIVED
AUG 12 1955

IN REPLY REFER TO:

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

August 11, 1955

Memorandum

To: E. W. Ellis, Defense Minerals Exploration Administration

From: W. P. Williams, U. S. Geological Survey

Subject: Review of Field Examination Report, DMEA Docket No. 3[illegible] (amendment), Eugene E. Swanson, Vanadium Girl Claim, Montrose County, Colorado.

After field examination, Mr. J. W. Hasler, U. S. Geological Survey, concludes that DMEA assistance is not warranted on the subject property.

As I recall, private drilling by Vanadium Corporation of America on the Vanadium Girl claim was confined to the shales of the Brushy Basin member of the Morrison which overlies the main ore host--the Salt Wash member.

However other drilling in the vicinity as well as characteristics of the ore bodies in the area lead me to concur with the recommendation that the application be denied.

WPW

W. P. Williams

WPWilliams:iml
G-8/11/55
cc: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
J. E. Crawford, 3641
J. C. Hosted, 3210

RECEIVED
AUG 12 1955

IN REPLY REFER TO:

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

August 11, 1955

Memorandum

To: E. W. Ellis, Defense Minerals Exploration Administration

From: W. P. Williams, U. S. Geological Survey

Subject: Review of Field Examination Report, DMEA Docket No. 374 (uranium), Eugene B. Swanson, Uranium Girl Claim, Montrose County, Colorado.

After field examination, Mr. J. W. Hazler, U. S. Geological Survey, concludes that DMEA assistance is not warranted on the subject property.

As I recall, private drilling by Vanadium Corporation of America on the Uranium Girl claim was confined to the shales of the Brushy Basin member of the Morrison which overlies the main ore host--the Salt Wash member.

However other drilling in the vicinity as well as characteristics of the ore bodies in the area lead me to concur with the recommendation that the application be denied.

WPW

W. P. Williams

WPWilliams:iml
G-8/11/55
cc: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
J. E. Crawford, 3641
J. O. Hosted, 3210

RECEIVED
AUG 12 1955

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

RECEIVED
AUG - 8 1955

224 New Customhouse
Denver 2, Colorado

July 29, 1955

Memorandum

To: Secretary to the Operating Committee, DMEA

From: DMEA Field Team, Region III

Subject: Report of Examination, DMEA Docket 3674 (Uranium)
Eugene B. Swanson, Uranium Girl Claim,
Montrose County, Colorado

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

The Bureau of Mines did not participate in this examination but did participate in a prior examination of the property.

We concur in the recommendation that the application be denied.

W. M. Traver

E. N. Harshman

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
8-12-55
(date)

IN REPLY REFER TO:
DMEA
Date Rec'd.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Defense Minerals Exploration Administration
Denver Federal Center
Denver, Colorado

RECEIVED
AUG - 8 1955

JUL 27 1955
BUREAU OF MINES
Denver, Colorado

July 27, 1955

TRANSMITTED
JUL 29 1955

Memorandum

To: DMEA Field Team, Region III

From: E. N. Harshman

Subject: DMEA Docket 3576 (Uranium), Eugene E. Swanson, Uranium Girl claim, Montrose County, Colorado

Enclosed are 10 copies of a report of examination by J. William Butler, U. S. Geological Survey, recommending denial of the application for exploration assistance. Since the U. S. Bureau of Mines participated in a prior examination of the property, DMEA Docket 3145, and since it was probable that this examination would result in a recommendation for denial, they did not participate in this examination.

The claim is in an area characterized by scattered uranium deposits which have proven too small to warrant exploration. Exploration by the Vanadium Corporation of America on the Uranium Girl claim failed to discover ore, and their lease on the claim was dropped.

I concur with the recommendation that the application be denied.

E. N. Harshman

E. N. Harshman
Member, Field Team

Enclosures (10)

EHarshman:cwb

Reviewed by
DMEA OPERATING COMMITTEE
8-12-55
(date)

8/8/55 gla

RECEIVED
AUG - 8 1955

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

224 New Customhouse
Denver 2, Colorado

July 29, 1955

Memorandum

To: Secretary to the Operating Committee, DMEA

From: DMEA Field Team, Region III

Subject: Report of Examination, DMEA Docket 3674 (Uranium)
Eugene B. Swanson, Uranium Girl Claim,
Montrose County, Colorado

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

The Bureau of Mines did not participate in this examination but did participate in a prior examination of the property.

We concur in the recommendation that the application be denied.

W. M. Traver

W. M. Traver

E. N. Harshman

E. N. Harshman

Enclosures

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Defense Minerals Exploration Administration
Denver Federal Center
Denver, Colorado

RECEIVED
AUG 8 1955

DMEA
Date Rec'd.
JUL 27 1955

BUREAU OF MINES
Denver, Colorado

July 27, 1955

TRANSMITTED
JUL 29 1955

Memorandum

To: DMEA Field Team, Region III

From: E. N. Hershman

Subject: DMEA Docket 3874 (Uranium), Eugene E. Swenson, Uranium Girl claim, Montrose County, Colorado

Enclosed are 10 copies of a report of examination by J. William Hatler, U. S. Geological Survey, recommending denial of the application for exploration assistance. Since the U. S. Bureau of Mines participated in a prior examination of the property, DMEA Docket 3845, and since it was probable that this examination would result in a recommendation for denial, they did not participate in this examination.

The claim is in an area characterized by scattered uranium deposits which have proven too small to warrant exploration. Exploration by the Vanadium Corporation of America on the Uranium Girl claim failed to discover ore, and their lease on the claim was dropped.

I concur with the recommendation that the application be denied.

E. N. Hershman

E. N. Hershman
Member, Field Team

Enclosures (10)

EHershman:rph

RECEIVED
AUG 8 1955

MINERAL DEPOSITS
DMEA
RECEIVED
JUL 26 1955
U. S.
GEOLOGICAL SURVEY
DENVER, COLORADO

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
COLORADO PLATEAU DISTRICT
P. O. BOX 360
GRAND JUNCTION, COLORADO

July 18, 1955

Memorandum

To: E. N. Harshman, Supervising Geologist, DMEA Field Team, Region III

From: J. William Hasler

Subject: DMEA 3674, Eugene B. Swanson, Uranium Girl claim, Paradox Mining District, Montrose, Colorado

Enclosed are 12 copies of a geologic report on the Eugene B. Swanson, Uranium Girl claim, Paradox Mining District, Montrose County, Colorado, by J. William Hasler.

Mr. Eugene B. Swanson made application to explore for uranium on the Uranium Girl claim in the Paradox Mining District, La Sal Creek area, Montrose County, Colorado. A previous application on the same property, (DMEA 3145) was denied after a cursory examination by W. D. Carter, U. S. Geological Survey, last year. The applicant leased the property to the Vanadium Corporation of America for further drilling and has now reapplied for DMEA assistance since the drilling done by VCA has proven unsuccessful. In view of this additional drilling, a second field examination was made on June 6, 1955, by J. William Hasler and D. W. Carter, accompanied by the applicant, Eugene B. Swanson.

The Uranium Girl claim is underlain by rocks of the Morrison formation of Jurassic age. The rocks in the vicinity of the claim consist of the lower Brushy Basin member and the uppermost Salt Wash sandstone member of the Morrison formation. The rocks are similar to sandstones which were tested on the Hesperus claim northwest of the subject area in La Sal Creek. The sandstone which contains the Hesperus ore body is as much as 25 feet thick and is a lenticular-type sandstone. In general, the mineralized material is scattered and is the rich, trash pocket-type of deposit. The lower sandstone unit is a massive flood-type sandstone 40 to 60 feet thick, but in the vicinity of the Hesperus mine this sandstone was found to be unfavorable for the presence of ore. U. S. Geological Survey drilling on the bench in the vicinity of the Uranium Girl claim was not encouraging. One hole was found to be slightly mineralized and the rest were barren, although the ground was classified as semifavorable.

With the exception of the Yellow Bird mine, located a mile northwest of the Uranium Girl claim, the deposits in the area are small and scattered. The Vanadium Corporation of America and the U. S. Vanadium Company have thoroughly tested the area surrounding the subject property and have not discovered ore bodies to warrant further exploration. It is concluded that even though the area contains several criteria for the location of ore deposits, these deposits would be small, and the fact that the VCA drilling on the property was not satisfactory and that the applicant owns only the Uranium Girl claim, the chances of finding ore of any significant quantity is not good. It is recommended, therefore, that the application for DMEA assistance be denied at this time.

The Atomic Energy Commission was consulted with reference to the appraisal of this property.

J. William Hasler

J. William Hasler,
Geologist

Enclosures

UNITED STATES DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

RECEIVED
AUG - 8 1955

DEFENSE MINERALS EXPLORATION ADMINISTRATION
REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA 3674, Eugene B. Swanson, Uranium Girl claim, Paradox Mining District, Montrose County, Colorado

Uranium

Geologic Report

by

J. William Hasler
U. S. Geological Survey

July 20, 1955

INTRODUCTION

Mr. Eugene B. Swanson made application to explore for Uranium on the Uranium Girl claim (DMEA docket 3674), formerly the Emergency claim in the Paradox Mining District, La Sal Creek area, Montrose County, Colo., (fig. 1).

A previous application on the same property (DMEA 3145) was denied after a cursory examination by W. D. Carter, USGS, last year. The applicant leased the property to the Vanadium Corporation of America for further drilling and has now reapplied for DMEA assistance since the drilling done by the Vanadium Corporation of American has proven unsuccessful.

In view of this additional drilling, a second field examination was made on June 16, 1955, by J. William Hasler and W. D. Carter, geologists, USGS, accompanied by the applicant, Mr. Eugene B. Swanson.

GEOLOGY AND ORE DEPOSITS

Sedimentary rocks of Jurassic and Cretaceous age are exposed in the La Sal Creek area. In descending order, the rocks consist of the following formations: The Jurassic, Navajo, Carmel, Entrada, Summerville and Morrison, and the Cretaceous Burro Canyon and Dakota formations. (Fig. 2)

The area that includes the Uranium Girl claim is underlain by the Jurassic Morrison formation; consequently, the older rocks will not be described in this report.

The Morrison formation is divided into two members: The lowermost, known as the Salt Wash, consists of broadly lenticular sandstone strata interbedded with red and green mudstone. The Salt Wash member is about 350 feet thick in the La Sal Creek area.

The Salt Wash member is overlain by the Brushy Basin member which is composed of variegated red and green shales and clays with interbedded conglomeratic sandstone lenses, and ranges from 325-400 feet thick.

The Salt Wash contains most of the principal uranium-bearing deposits which, in general, are confined to the uppermost, continuous sandstone beds and is known as the "ore-bearing sandstone". Several small deposits occur in a thin, lenticular sandstone bed just above the "ore-bearing sandstone" and a few are in the lower conglomeratic sandstone lenses in the Brushy Basin member. 1/

1/ TEMR 716 "Interim report on exploration in the La Sal Creek area, Paradox district, Montrose County, Colo., and San Juan County, Utah," by W. D. Carter, J. C. Warman, and J. L. Gualtieri, December 1954.

The rocks that are exposed on the Uranium Girl claim are those of the lower Brushy Basin member and the uppermost Salt Wash sandstone member, similar to those exposed across La Sal Creek, northwest in the vicinity of the Hesperus claim. The Salt Wash consists of two light brown- to red-brown sandstone beds separated by 15 to 20 feet of red and green mudstone with thin beds of indurated siltstone. The upper sandstone, which contains the Hesperus ore body, is as much as 25 feet thick, and is a lenticular,

channel-type sandstone. In general, the mineralized material is scattered and is the rich, trash pocket-type of deposit. Abundant carbon and green mudstone seams and pellets are associated with the high-grade ore. The lower sandstone unit is a massive flood-plain type of sandstone, 40 to 60 feet thick, but in the vicinity of the Hesperus mine was found to be unfavorable for the presence of ore. 2/

2/ TEMR 724 "Development drilling on the Hesperus claim, La Sal Creek area, Paradox district, San Juan County, Utah", by W. D. Carter, December 1953

U. S. Geological Survey exploratory drilling on the bench in the vicinity of the Uranium Girl claim drilled one hole that was slightly mineralized, but other drilling in the area was not encouraging as all of the other holes were barren, even though the ground was classified as semi-favorable.

With the exception of the deposits in the Yellow Bird mine, located about a mile northeast of the Uranium Girl claim, the deposits in the area are small and scattered.

The Vanadium Corporation of America and the United States Vanadium Company have thoroughly tested the claims surrounding the subject property and have not discovered ore bodies to warrant further exploration.

The Vanadium Corporation of America completed 17 holes that averaged 35 feet in depth and penetrated the ore zone in the upper sandstone unit. Each of the seventeen holes was barren and was bottomed in red mudstone. The results of this drilling caused the lessee to cancel his lease with the applicant and advise him to do no further work on the Uranium Girl claim.

TRANSMITTED
JUL 29 1955

CONCLUSIONS AND RECOMMENDATIONS

After two field examinations of the Uranium Girl claim, it was found that even though the property possessed several favorable criteria for ore, the possibility of finding ore in any significant quantity was not good.

Results of drilling and mapping of the area by the U. S. Geological Survey and subsequent drilling by the Vanadium Corporation of America indicates that any ore bodies discovered in the upper sandstone unit on the Uranium Girl claim would be small, and that deeper drilling through the Salt Wash would likely indicate only semi-favorable sandstone. Targets are small in the area. The applicant owns only the Uranium Girl claim which, consequently, narrows the chances of finding any large tonnage of ore.

It is recommended, therefore, that because of the small size of ore bodies that may be found, together with the fact that the Salt Wash sandstone has proven only semi-favorable from drilling done in the vicinity of the Uranium Girl claim, that assistance by DMEA be denied at this time.

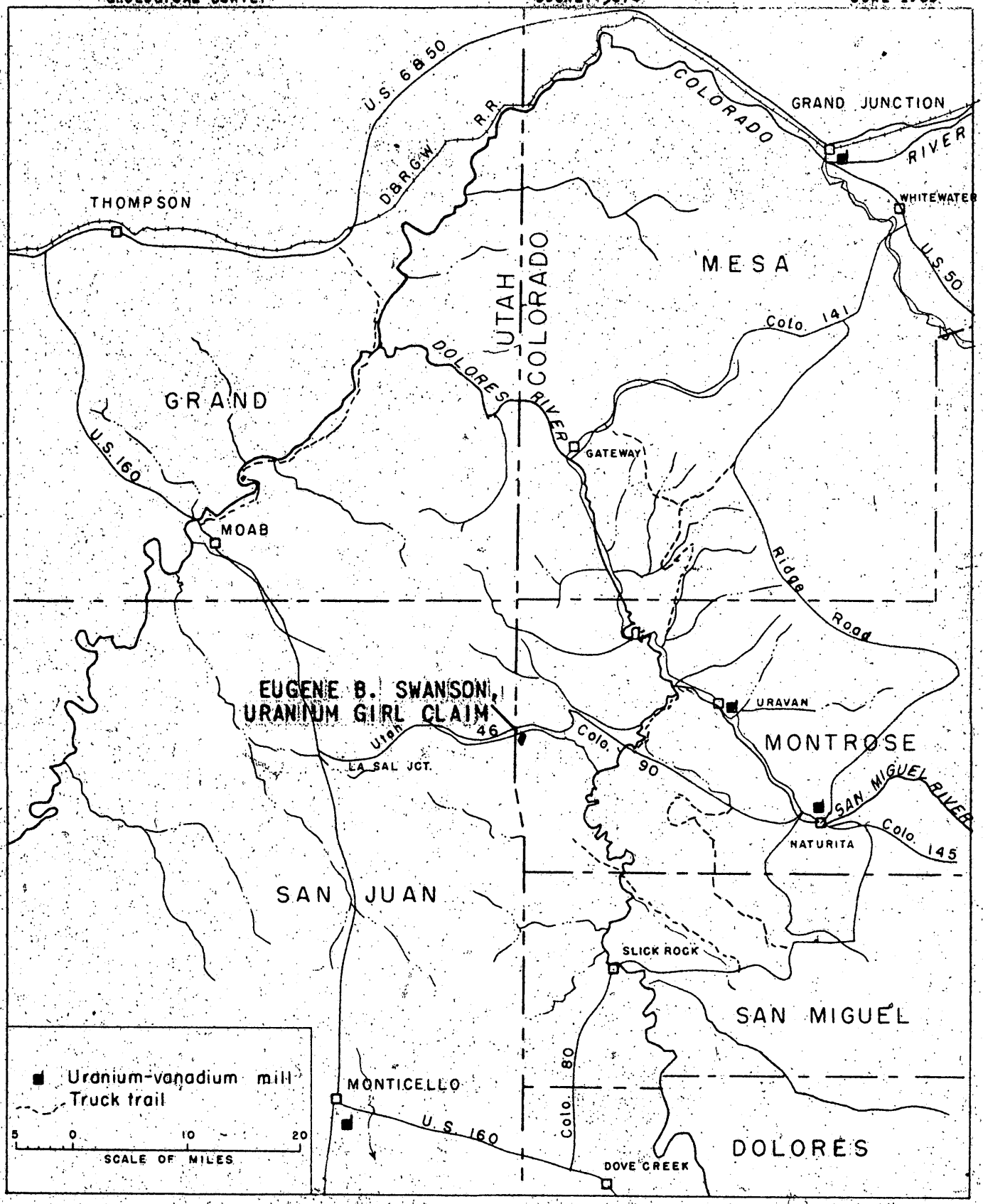


Figure 1. INDEX MAP OF PART OF THE COLORADO PLATEAU SHOWING LOCATION OF URANIUM GIRL CLAIM, EUGENE B. SWANSON, PARADOX MINING DISTRICT, MONTROSE COUNTY, COLORADO

Return TO DMEA

224 New Customhouse
Denver 2, Colorado

Minerals Administration
RECEIVED
FEB 7 1955

February 3, 1955

Memorandum

To: Secretary to the Operating Committee

From: Executive Officer, DMEA Field Team, Region III

Subject: Application for DMEA assistance (Uranium), Eugene B. Swanson, Uranium Girl claim, Paradox Mining District, Montrose County, Colorado

Enclosed are the original and two copies of the subject application which has been revised to an estimated total cost of $36,025.00, and is therefore no longer within the authority delegated to this office. One copy of the application has been retained by us.

All information supplied by the applicant indicates that the Uranium Girl claim has very little merit and it is doubtful whether any exploration work would be approved; however, we believe that a field examination is required to prove or disprove this. As additional information which my be supplied by the applicant will probably add little to the application, we recommend that it be scheduled for a field examination after which it may be denied if the property does not merit an expenditure of Government funds.

W. M. TRAVER

Enclosures

W. M. Traver

RDB:pw

cc: Subject
Chron
Administrator DMEA
Harshman

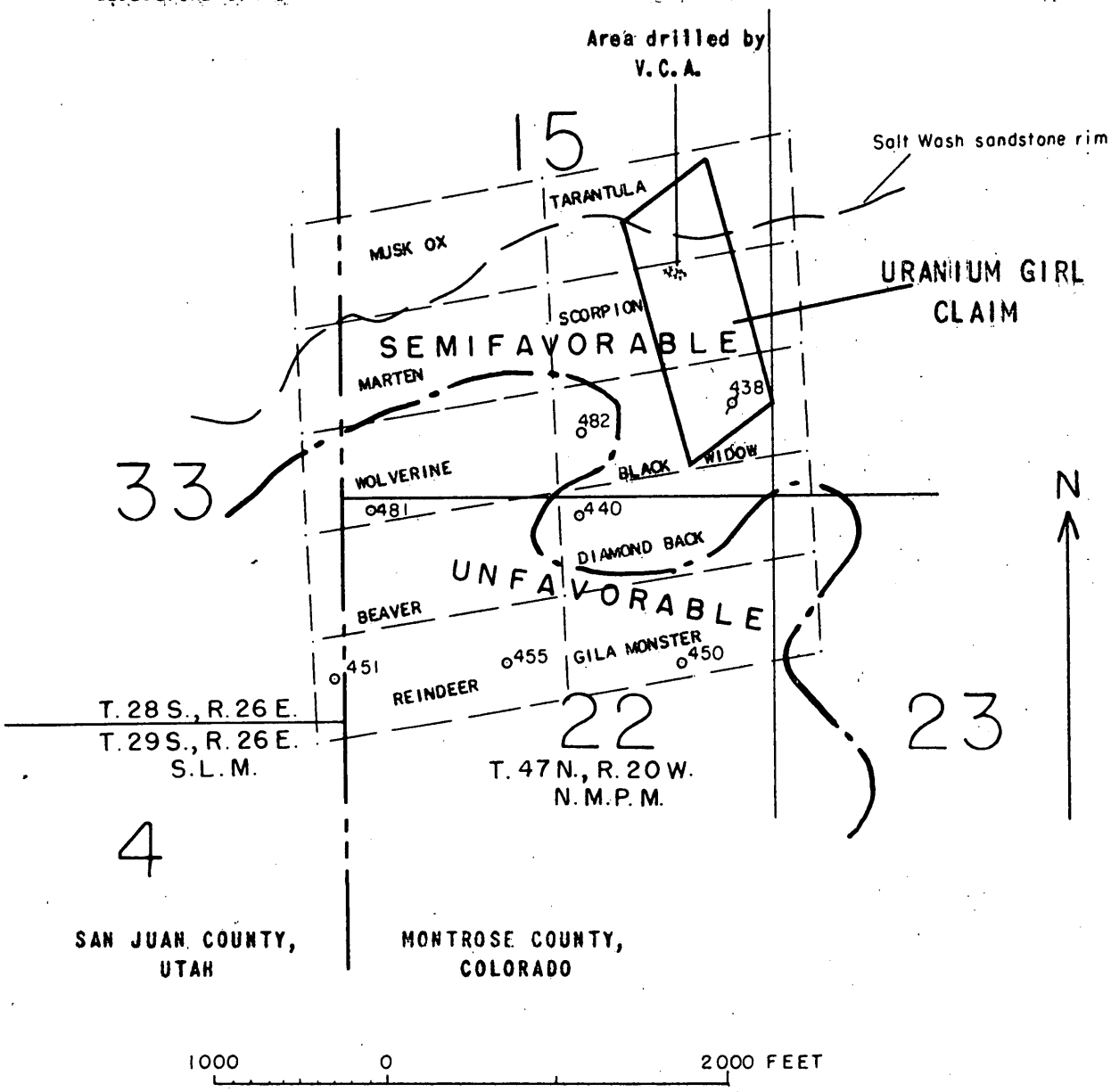


Figure 2. MAP SHOWING APPROXIMATE LOCATION OF URANIUM GIRL CLAIM, EUGENE B. SWANSON, PARADOX MINING DISTRICT, MONTROSE COUNTY, COLORADO

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

Defense Minerals Administration
RECEIVED
FEB 7 1955

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. 3674
Metal or Mineral Uranium
Date Received 2-7-55
Estimated Cost $36,025
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: Eugene B. Swanson, 408 Clara Street, Oakland 3, California
After May 20, 1955 my address will be Wilson's Boarding Home, Paradox, Colorado.

(*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 Claim URANIUM GIRL liesin Sec. 14, T. 47 N., R. 20W., Paradox Mining District, Montrose County, Colorado, on the south rim of La Sal Creek, approximately 1500 feet east of the Utah-Colorado border, in Colorado. 3 & 1/10 miles on the YELLOW BIRD mine road from Utah Highway #46 then left on my road, to rim.

(*b*) State any mine name by which the property is known. URANIUM GIRL, formerly EMERGENCY

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise Sole 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. Book 357, Page 128; Book 213, Page 416; Book 213, Page 420; Book 340, Page 442 & 443; All recordings on same claim, Montrose County Court House, Montrose, Colorado.

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 the mineral or minerals for which you wish to explore URANIUM

(*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 160 days and be completed within 7 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 December 6, 1954

Eugene Bertram Swanson
(Applicant)

By Eugene Bertram Swanson

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

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

224 New Customhouse
Denver 2, Colorado

December 15, 1954

RECEIVED

Mr. Eugene B. Swanson
408 Clara Street
Oakland 3, California

Re: DMEA application (Uranium) Eugene B. Swanson, Uranium Girl claim, (formerly Emergency claim), Paradox Mining District, Montrose County, Colorado.

Dear Mr. Swanson:

We are returning herewith your application for DMEA assistance in the exploration for uranium on your Uranium Girl claim for your reconsideration and possible revision as outlined below:

(1) Reference to the 17 drill logs of Wagon Drilling performed on the Uranium Girl claim by Vanadium Corporation of America. The drill logs (VCA Holes Nos. 679 to 695 incl.) submitted by you as part of your application indicates an absence of uranium mineralization in all holes drilled. The letter from V. C. A. transmitting these drill logs to you also indicates that the holes drilled are of no value (except as negative information) in establishing the existance of uranium mineralization on your property. We do need to know the exact location of these barren holes however in order to fully evaluate the merits of your proposed program.

(2) Your indicated production of 4 pounds of uranium from 2000 cubic feet (approximately 138 tons) of rim excavation also does not sufficiently establish the fact that good geologic targets exist to warrant an exploration program.

(3) If you still believe your property to have merit and can give additional information as to the possible existance of logical geologic targets on the Uranium Girl claim either from structures or drill holes on the claim itself or from drill hole data in the <u>near</u> vicinity of the claim, please submit a revised application which includes the following:

(a) A full and detailed explanation of your proposed program (Question 5(b) of Form MT-103). This should include the amount of roadwork and your estimate of the hours of bulldozing required to accomplish this; the number of drill holes, approximate footage, total footage, and type of drilling required; and the drifting footage requested to explore your property.

(b) A claim map of suitable size upon which you have plotted to scale the locations of the seventeen wagon drill holes which were drilled by V.C.A. and the approximate locations of the drill holes, roadways, and drifting proposed by you. This map should also show the important geologic features such as mineralized outcrops, veins, etc.

(c) Your cost estimate is then to be based on the definite proposals as outlined above.

As soon as your revised application is received, a field examination of your property will be scheduled in order to evaluate the merits of the Uranium Girl claim and your exploration proposals.

Yours very truly,

W. H. King

W. H. King
Executive Officer
DMEA Field Team, Region IV

Enclosures

408 Clara Street
Oakland 3, California
January 21, 1955

W.H. King
Executive Officer
D.M.E.A. Field Team Region 1V
224 New Customhouse
Denver, Colorado

Date Rec'd
JAN 24 1955
BUREAU OF MINES
Denver, Colorado

Re: D.M.E.A. application (Uranium) applicant and owner Eugene B. Swanson of Uranium Girl claim(formerly Emergency Claim) Paradox Miming District, Montrose County Colorado.

Dear Mr. King:

In reply to your request for an explanation on paragraphs 1 - 2 - 3 and subtopics a - b of your enclosed letter of December 15, 1954.

1. Request for drill logs on work done by the V.C.A. November 12, 1953.
(a) I am enclosing a letter from Mr. D.W. Viles of the V.C.A., who has consented to assist me with such a log. However, as yet all I can offer on this topic is that the V.C.A. drilled 17 shallow holes (Reports enclosed) on the northwest corner of my claim within a 10,000 square foot area on the existing campsite. It is my opinion that these blank holes constitute a nuisance value, as they are 200 feet approximately from my outcrop and have hindered me in many ways. My Vanadium outcrop is on the North end of my claim and is centrally located(assay report enclosed). Fifteen feet approximately from the vanadium is the very thin Uranium outcrop. I hope these facts will help me eliminate the expense of a private surveyor if the V.C.A. fails to submit the promiseddrill log you requested. I would appreciate a letter from your office to Mr. Viles requesting the drill log on my claim if the above information is still insufficient.

2. In regards to the 4 pounds of unranium shipped by previous owners, from 2,000 cubic feet of exploration: the 4 pounds of uranium is the amount eligible for bonus payment. There has been an undisclosed number of shipments as far back as the year 1930 of which there is apparently no record. Mr. Lew Couchman of Paradox, Colorado hauled ore from this claim by horse and wagon and this ore was shipped to Pittsburgh, Pennsylvania when ore had to run 10% or better to pay a profit. All ore that could be shipped at that time profitably was removed at that time. The total excavation of 2,000 cubic feet includes all known and unknown shipments of unanium and vanadium since 1930.

3. I believe my property has more merit than any other undeveloped claim which I saw during the two full summers I spent prospecting on the Colorado Plateau. I was financially unable to prove my claim in November 1953 and therefore leased it to the V.C.A. My only other alternative was to sell it to another company for a mere $500. Since that time I have had a full year to work at my trade and also sell my home in California to raise enough capital to permit an exploration program of enough magnitude under my personal supervision without corporation or outside capital from any source other than from the D.M.E.A. My work is to be accomplished by small independent contractors that have equipment available at prices I can afford to pay.

(Continued)

I would appreciate any guidance or assistance from your office to help me in accomplishing my goal. I am attempting to have approval and appropriation from the D.M.E.A, so that I may take advantage of the weather between May 1955 and November 1, 1955 and be permitted to make committments on work to be performed before my arrival. My application is open to your correction and adjustment as you or your agents deem necessary or advisable, all I ask is please approve enough of it to permit me to prove or disprove this claim within the seven months of permitting weather.

(a) additional information on question 5 (b)

My estimate of road building shall constitute approximately 20 hours of bulldozer work, which shall make it possible for me to place the Rotary drill on the job in the desired locations upon my claim. I shall drill 7 holes 300 feet in depth, and 2 holes 450 feet in depth which makes a total of 10 deep drill holes and totals 3,000 feet of drilling with a combination Rotary and core drilling rig. An additional 63½ hours of bulldozer work will be needed at a later date after the drilling has been accomplished and the reports are favorable enough to merit drifting to complete the exploration. In order to drift economically, I will need the above mentioned bulldozer work of 63½ hours to build a road down the face on the rim of my claim. This bulldozer work consists of moving overburden for an overall distance of approximately 2,000 running feet and approximately 15 feet wide in a zig zag or S fashion. This road will permit a compressor and the necessary equipment to be moved in place for economical drifting approximately 350 feet below the rim. A total of 83½ hours of bulldozer work .

The approximate footage of drifting necessary would constitute 400 feet and would be approximately 350 feet below the rim toward a favorable drill hole, providing professional advice and reports approve.

I will be looking forward to hearing from you soon,

Sincerely yours,

Eugene B. Swanson

Eugene B. Swanson
408 Clara Street
Oakland 3, California

VANADIUM CORPORATION OF AMERICA

D. W. VILES
VICE PRESIDENT

DURANGO, COLORADO

December 31, 1954

Mr. Eugene B. Swanson
408 Clara Street
Oakland 3, California

Dear Mr. Swanson:

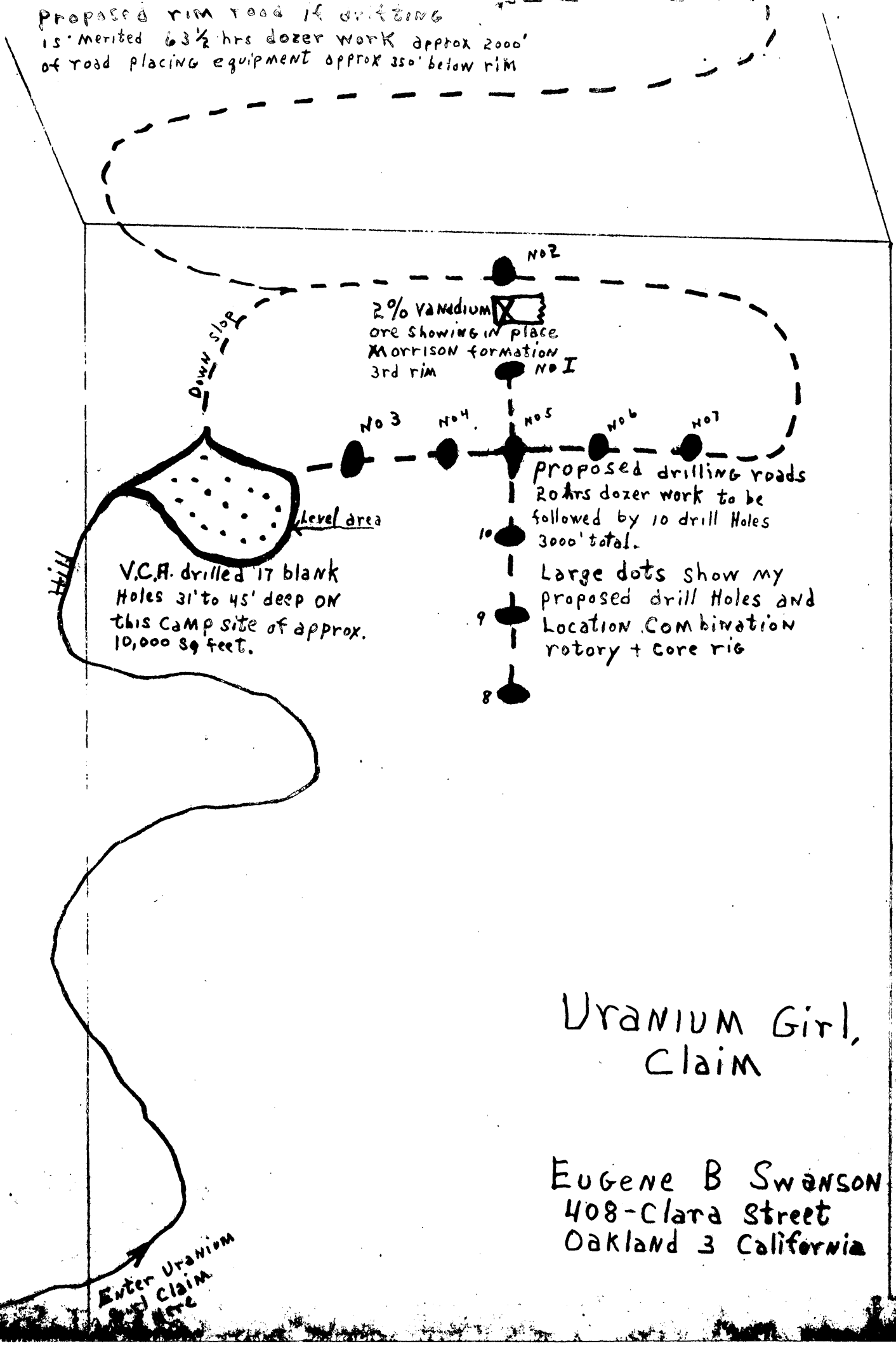
Your letter of December 20th is being forwarded to Mr. Anderson, the Mine Superintendent, who will give you all the information we have and the approximate locations of the drill holes. When you decide definitely to do your drilling, if we can be of any help to you on the ground, we shall be glad to discuss it with you.

Wishing you a happy and prosperous 1955, I am

Yours sincerely,

D. W. Viles, Vice President

DWV:la


Proposed rim road if drifting is merited 63½ hrs dozer work approx 2000' of road placing equipment approx 350' below rim
No 2
2% Vanedium ore showing in place Morrison formation 3rd rim
No I
Down slope
No 3
No 4
No 5
No 6
No 7
Proposed drilling roads 20 hrs dozer work to be followed by 10 drill Holes 3000' total.
Level area
10
9
8
Large dots show my proposed drill Holes and Location Combination rotory + core rig
Hill
V.C.A. drilled 17 blank Holes 31' to 45' deep on this camp site of approx. 10,000 sq feet.
Enter Uranium Girl claim here
Uranium Girl, Claim
Eugene B Swanson
408-Clara Street
Oakland 3 California

VANADIUM CORPORATION OF AMERICA

NATURITA, COLORADO

January 18, 1955

Date Rec'd
JAN 27 1955
BUREAU OF MINES
Denver, Colorado

Mr. Eugene B. Swanson
408 Clara Street
Oakland 3, California

Dear Mr. Swanson:

I have been unable to prepare the map showing the location of the drill holes which you requested in your letter to Mr. Viles. The snow in this area makes it impracticable to do this job now.

I am sure that by the time youare ready to carry on your exploration program I will have this work completed.

Sorry I can't furnish this information foryou at this time.

Sincerely,

VANADIUM CORPORATION OF AMERICA

R. L. Anderson, Mines Supt.

Jan 24, 1955
[illegible] Dick Olsen
E. B. Swanson.

Dear Mr. King,

Please attach this piece of recent information to my R.M.E.H. loan application papers which I mailed to you January 22, 1955.

Sincerely
Eugene B Swanson

UNITED STATES VANADIUM COMPANY

A DIVISION OF UNION CARBIDE AND CARBON CORPORATION

UCC

URAVAN, COLORADO

August 20, 1953

Mr. Eugene B. Swanson
Paradox
Colorado
c/o Mrs. Wilson - boarding house

Dear Mr. Swanson:

The sample of ore that you left here ran 2.01 vanadium, nil uranium.

I would like to meet you at Paradox Monday morning at nine o'clock to go and look at the claim. Will you please let me know if this is not convenient for you.

Very truly yours,

UNITED STATES VANADIUM COMPANY

J. R. Borden

J. R. Borden
Mining Department

JRB/me

Eugene B. Swanson
408 Clara Street
Oakland 3, California

Supplement to DMEA Form MF-103

4. (a) Production records show that 4 pounds of U_3O_8 were produced from this property between April 9, 1948, and February 28, 1951, inclusive. Excavations with hand tools have been made near the rim of the claim about 10 feet wide by 40 feet long and 5 feet deep from the surface. There are no production facilities. Sixteen Wagon Test drill holes were made in November 1953 by the Vanadium Corporation of America, reports of which are enclosed herewith. These drill holes were made approximately 200 fet from the old workings ranging in depth from 31 feet to a maximum of 45 feet. They were made while the claim was under lease to the Vanadium Corporation of America. Lease has since terminated. Copy of lease cancellation is enclosed herewith.

Claim is accessible by road in poor condition.

(b) Production records show that 4 pounds of U_3O_8 were produced from this property between April 9, 1948, and February 28, 1951, inclusive. Confirmation may be had by reference to Certification No. D.U.P.C6-C-336. Ore reserves as of this date are undetermined. Grades unknown.

(c) The property shows uranium ore (carnitite) outcroping from a fault in the Morrison formation. My examination of these outcroppings and the surrounding area lead me to believe that, without doubt, this property is worthy of extensive exploration and immediate development.

(d) Access to this property is from Highway #46 in Utah over the Yellow Bird mine road for a distance of 3 & 1/10 miles from this intersection. At this point the Uranium Girl road leads off to the left to the rim, a distance of approximately 2000 feet. Shipping of ore shall be made by truck to the mill of the Vanadium Corporation of America at a distance of approximately 50 miles, near Uravan, Colorado. Supplies necessary for this type of operation are available at Uravan, Colorado. Present residential points are La Sal, Utah, and Paradox, Colorado.

(e) Manpower, materials, supplies, equipment, water, and power, are all available in sufficient amounts.

5. (b) It is proposed to use a bulldozer to improve the existing road on the property and to extend it the width of the claim to permit the access of rotary and core drilling equipment. Sketch is enclosed herewith.

(d) Applicant has been engaged in all phases of Uranium mining operations in association with Mr. Edward Johansen, mining contractor of Nucla, Colorado; Mr. Richard Weist, Paradox, Colorado; and others over a period of several years. It is proposed that the owner-applicant will supervise personally the proposed exploration work to be done by employing one of bulldozer and combination rotary and core drilling rigs available in the area.

Eugene B. Swanson
408 Clara Street
Oakland 3, California

6. Estimate of costs.

(a)	Bulldozer @ $18.00 per hour - 83 1/3 hrs	$1500.00	
3000'	Rotary & Core drilling @ $4.50 per foot	13500.00	
400	Drifting @ $30.00 per foot	12000.00	
	Allowance for moving heavy equipment on location	1000.00	
	Construction of office, barracks, and storeroom bldg., 400 sq. ft. @ $7.00	2800.00	$30,800.00
(b)	Supervision by owner, 6 months @ $500.00	$3000.00	
	Engineering and Geological consultants fees @ $50.00 per day	500.00	3,500.00
(c)	All operating materials and supllies to furnished by independent contractors. Costs are included in sub-heading (a).		
(d)	None.		
(e)	None.		
(f)	Listed under sub-heading (a).		
(g)	Geological and assay reports	100.00	
	Accountants fees	500.00	
	Liability insurance	125.00	725.00
(h)	Contingencies		1000.00
	TOTAL		$36025.00

7. (a) Yes.
(b) I shall pay 25% of the costs as they become due.

PORTION OF YELLOWBIRD CLAIM GROUP (V.C.A.)

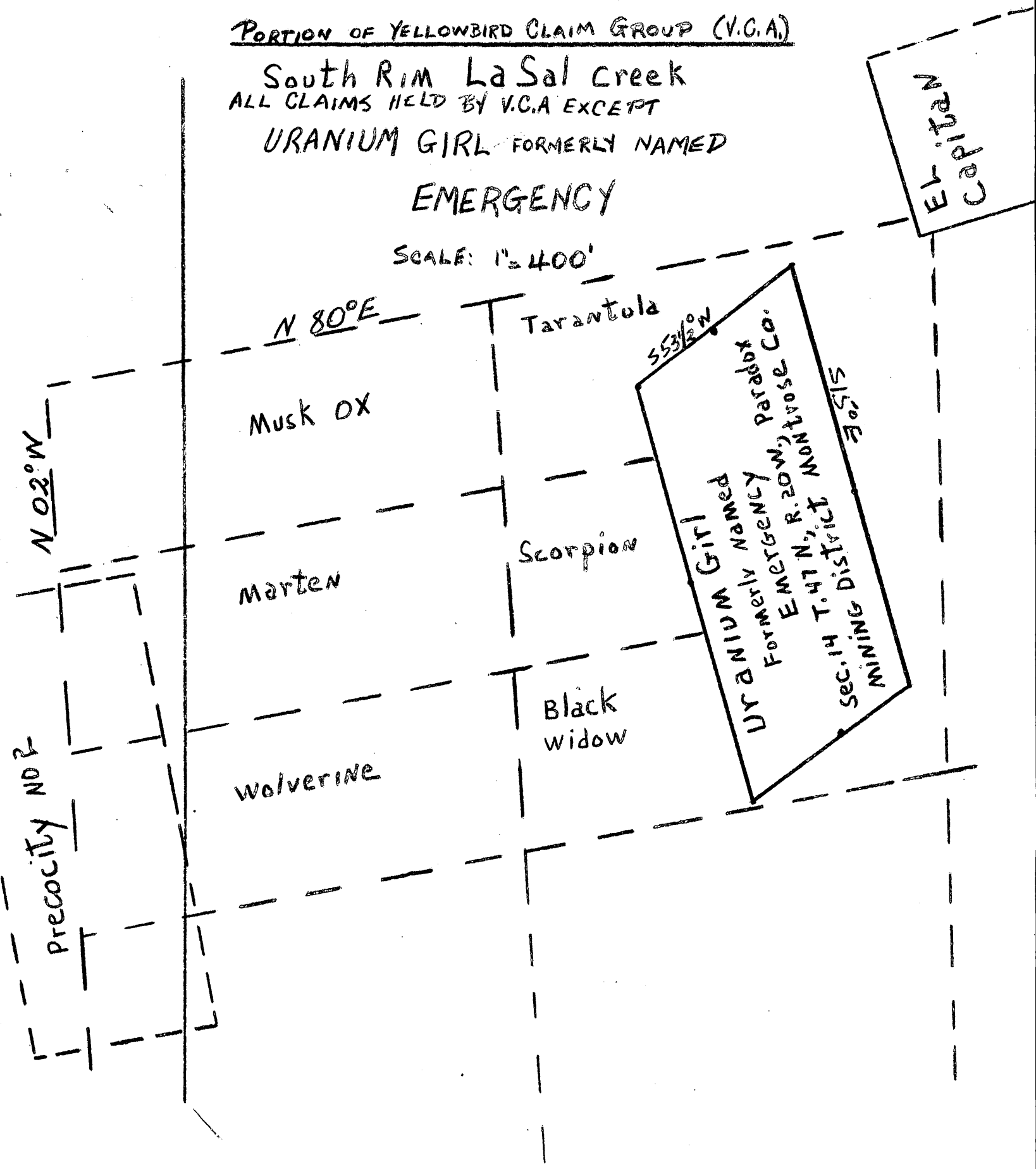
South Rim La Sal Creek

ALL CLAIMS HELD BY V.C.A EXCEPT

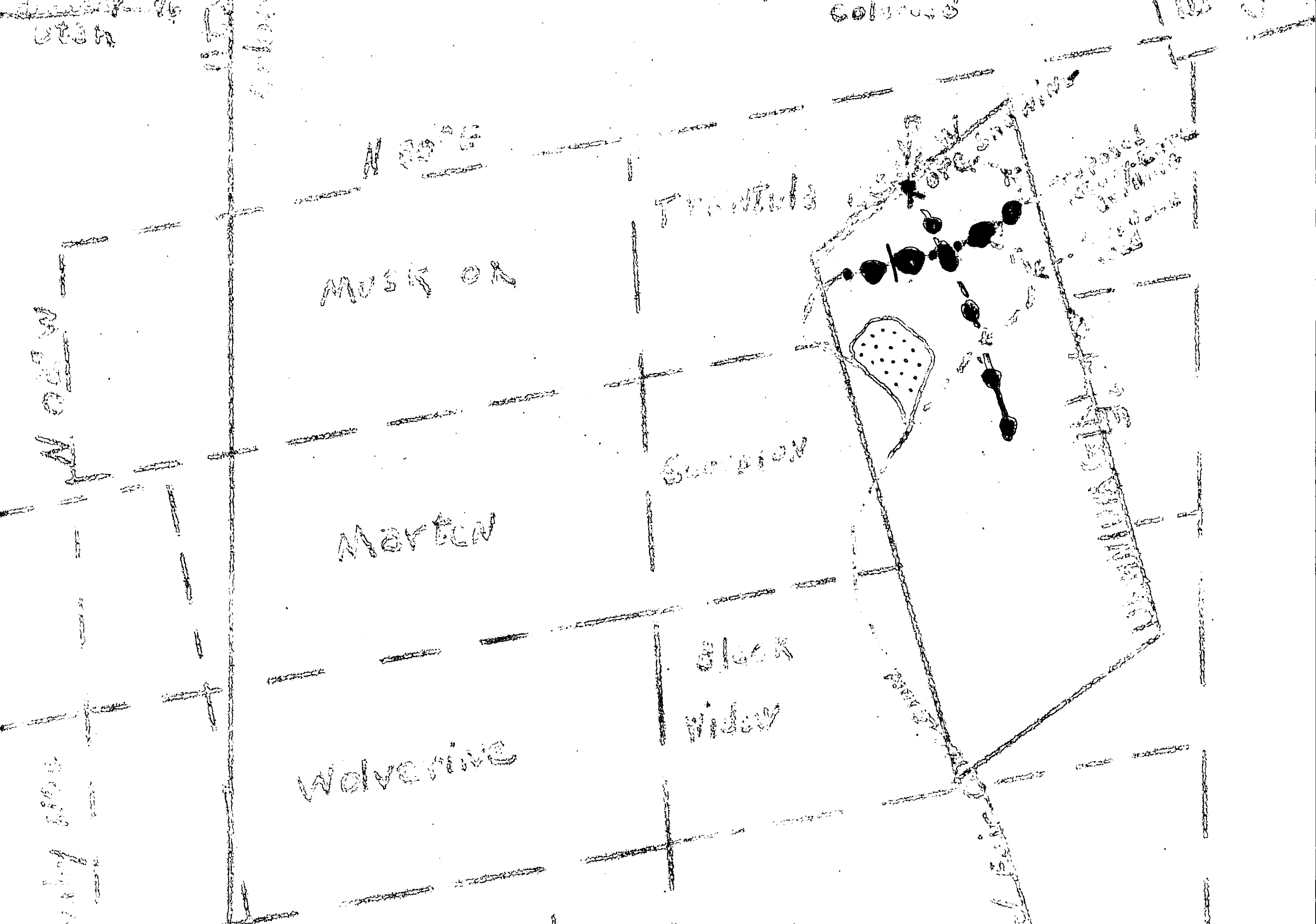
URANIUM GIRL FORMERLY NAMED

EMERGENCY

SCALE: 1" = 400'



Map of Jill Bird Claim Group (VCA)
South Rim Level track
All claims held by V.C.A. except
Uranium Girl formerly named
Emergency



The V.C.A. used my claim and [illegible]
[illegible] drilling for surface ore as noted
in drill reports [illegible]. Deeper drilling on old
and new proposed road will determine claims value
in ore reserves. The ore outcrop is from a fault
with a definite down ward pitch and to drill on
top of the outcrop will require a rim road. The V.C.A.
used my old road which stops aprox. 200' of outcrop.

MINERAL DEPOSITS
DMEA
RECEIVED
JUL 26 1955
U. S.
GEOLOGICAL SURVEY
DENVER, COLORADO

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
COLORADO PLATEAU DISTRICT
P. O. BOX 360
GRAND JUNCTION, COLORADO

RECEIVED
AUG - 8 1955

July 18, 1955

Memorandum

To: E. N. Harshman, Supervising Geologist, DMEA Field Team, Region III

From: J. William Hasler

Subject: DMEA 3674, Eugene B. Swanson, Uranium Girl claim, Paradox Mining District, Montrose, Colorado

Enclosed are 12 copies of a geologic report on the Eugene B. Swanson, Uranium Girl claim, Paradox Mining District, Montrose County, Colorado, by J. William Hasler.

Mr. Eugne B. Swanson made application to explore for uranium on the Uranium Girl claim in the Paradox Mining District, La Sal Creek area, Montrose County, Colorado. A previous application on the same property, (DMEA 3145) was denied after a cursory examination by W. D. Carter, U. S. Geological Survey, last year. The applicant leased the property to the Vanadium Corporation of America for further drilling and has now reapplied for DMEA assistance since the drilling done by VCA has proven unsuccessful. In view of this additional drilling, a second field examination was made on June 6, 1955, by J. William Hasler and D. W. Carter, accompanied by the applicant, Eugene B. Swanson.

The Uranium Girl claim is underlain by rocks of the Morrison formation of Jurassic age. The rocks in the vicinity of the claim consist of the lower Brushy Basin member and the uppermost Salt Wash sandstone member of the Morrison formation. The rocks are similar to sandstones which were tested on the Hesperus claim northwest of the subject area in La Sal Creek. The sandstone which contains the Hesperus ore body is as much as 25 feet thick and is a lenticular-type sandstone. In general, the mineralized material is scattered and is the rich, trash pocket-type of deposit. The lower sandstone unit is a massive flood-type sandstone 40 to 60 feet thick, but in the vicinity of the Hesperus mine this sandstone was found to be unfavorable for the presence of ore. U. S. Geological Survey drilling on the bench in the vicinity of the Uranium Girl claim was not encouraging. One hole was found to be slightly mineralized and the rest were barren, although the ground was classified as semifavorable.

Reviewed by
DMEA OPERATING COMMITTEE
8-12-55
(date)

With the exception of the Yellow Bird mine, located a mile northwest of the Uranium Girl claim, the deposits in the area are small and scattered. The Vanadium Corporation of America and the U. S. Vanadium Company have thoroughly tested the area surrounding the subject property and have not discovered ore bodies to warrant further exploration. It is concluded that even though the area contains several criteria for the location of ore deposits, these deposits would be small, and the fact that the VCA drilling on the property was not satisfactory and that the applicant owns only the Uranium Girl claim, the chances of finding ore of any significant quantity is not good. It is recommended, therefore, that the application for DMEA assistance be denied at this time.

The Atomic Energy Commission was consulted with reference to the appraisal of this property.

J. William Hasler

J. William Hasler,
Geologist

Enclosures

UNITED STATES DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

RECEIVED
AUG - 8 1955

DEFENSE MINERALS EXPLORATION ADMINISTRATION
REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA 3674, Eugene B. Swanson, Uranium Girl claim, Paradox Mining District, Montrose County, Colorado

Uranium

Geologic Report

by

J. William Hasler
U. S. Geological Survey

July 20, 1955

Reviewed by
DMEA OPERATING COMMITTEE
8-12-55
(date)

INTRODUCTION

Mr. Eugene B. Swanson made application to explore for Uranium on the Uranium Girl claim (DMEA docket 3674), formerly the Emergency claim in the Paradox Mining District, La Sal Creek area, Montrose County, Colo., (fig. 1).

A previous application on the same property (DMEA 3145) was denied after a cursory examination by W. D. Carter, USGS, last year. The applicant leased the property to the Vanadium Corporation of America for further drilling and has now reapplied for DMEA assistance since the drilling done by the Vanadium Corporation of American has proven unsuccessful.

In view of this additional drilling, a second field examination was made on June 16, 1955, by J. William Hasler and W. D. Carter, geologists, USGS, accompanied by the applicant, Mr. Eugene B. Swanson.

GEOLOGY AND ORE DEPOSITS

Sedimentary rocks of Jurassic and Cretaceous age are exposed in the La Sal Creek area. In descending order, the rocks consist of the following formations: The Jurassic, Navajo, Carmel, Entrada, Summerville and Morrison, and the Cretaceous Burro Canyon and Dakota formations. (Fig. 2)

The area that includes the Uranium Girl claim is underlain by the Jurassic Morrison formation; consequently, the older rocks will not be described in this report.

The Morrison formation is divided into two members: The lowermost, known as the Salt Wash, consists of broadly lenticular sandstone strata interbedded with red and green mudstone. The Salt Wash member is about 350 feet thick in the La Sal Creek area.

The Salt Wash member is overlain by the Brushy Basin member which is composed of variegated red and green shales and clays with interbedded conglomeratic sandstone lenses, and ranges from 325-400 feet thick.

The Salt Wash contains most of the principal uranium-bearing deposits which, in general, are confined to the uppermost, continuous sandstone beds and is known as the "ore-bearing sandstone". Several small deposits occur in a thin, lenticular sandstone bed just above the "ore-bearing sandstone" and a few are in the lower conglomeratic sandstone lenses in the Brushy Basin member. 1/

1/ TEMR 716 "Interim report on exploration in the La Sal Creek area, Paradox district, Montrose County, Colo., and San Juan County, Utah," by W. D. Carter, J. C. Warman, and J. L. Gualtieri, December 1954.

The rocks that are exposed on the Uranium Girl claim are those of the lower Brushy Basin member and the uppermost Salt Wash sandstone member, similar to those exposed across La Sal Creek, northwest in the vicinity of the Hesperus claim. The Salt Wash consists of two light brown- to red-brown sandstone beds separated by 15 to 20 feet of red and green mudstone with thin beds of indurated siltstone. The upper sandstone, which contains the Hesperus ore body, is as much as 25 feet thick, and is a lenticular,

channel-type sandstone. In general, the mineralized material is scattered and is the rich, trash pocket-type of deposit. Abundant carbon and green mudstone seams and pellets are associated with the high-grade ore. The lower sandstone unit is a massive flood-plain type of sandstone, 40 to 60 feet thick, but in the vicinity of the Hesperus mine was found to be unfavorable for the presence of ore. 2/

2/ TEMR 724 "Development drilling on the Hesperus claim, La Sal Creek area, Paradox district, San Juan County, Utah", by W. D. Carter, December 1953

U. S. Geological Survey exploratory drilling on the bench in the vicinity of the Uranium Girl claim drilled one hole that was slightly mineralized, but other drilling in the area was not encouraging as all of the other holes were barren, even though the ground was classified as semi-favorable.

With the exception of the deposits in the Yellow Bird mine, located about a mile northeast of the Uranium Girl claim, the deposits in the area are small and scattered.

The Vanadium Corporation of America and the United States Vanadium Company have thoroughly tested the claims surrounding the subject property and have not discovered ore bodies to warrant further exploration.

The Vanadium Corporation of America completed 17 holes that averaged 35 feet in depth and penetrated the ore zone in the upper sandstone unit. Each of the seventeen holes was barren and was bottomed in red mudstone. The results of this drilling caused the lessee to cancel his lease with the applicant and advise him to do no further work on the Uranium Girl claim.

TRANSMITTED
JUL 29 1955

RECEIVED
AUG - 8 1955

CONCLUSIONS AND RECOMMENDATIONS

After two field examinations of the Uranium Girl claim, it was found that even though the property possessed several favorable criteria for ore, the possibility of finding ore in any significant quantity was not good.

Results of drilling and mapping of the area by the U. S. Geological Survey and subsequent drilling by the Vanadium Corporation of America indicates that any ore bodies discovered in the upper sandstone unit on the Uranium Girl claim would be small, and that deeper drilling through the Salt Wash would likely indicate only semi-favorable sandstone. Targets are small in the area. The applicant owns only the Uranium Girl claim which, consequently, narrows the chances of finding any large tonnage of ore.

It is recommended, therefore, that because of the small size of ore bodies that may be found, together with the fact that the Salt Wash sandstone has proven only semi-favorable from drilling done in the vicinity of the Uranium Girl claim, that assistance by DMEA be denied at this time.

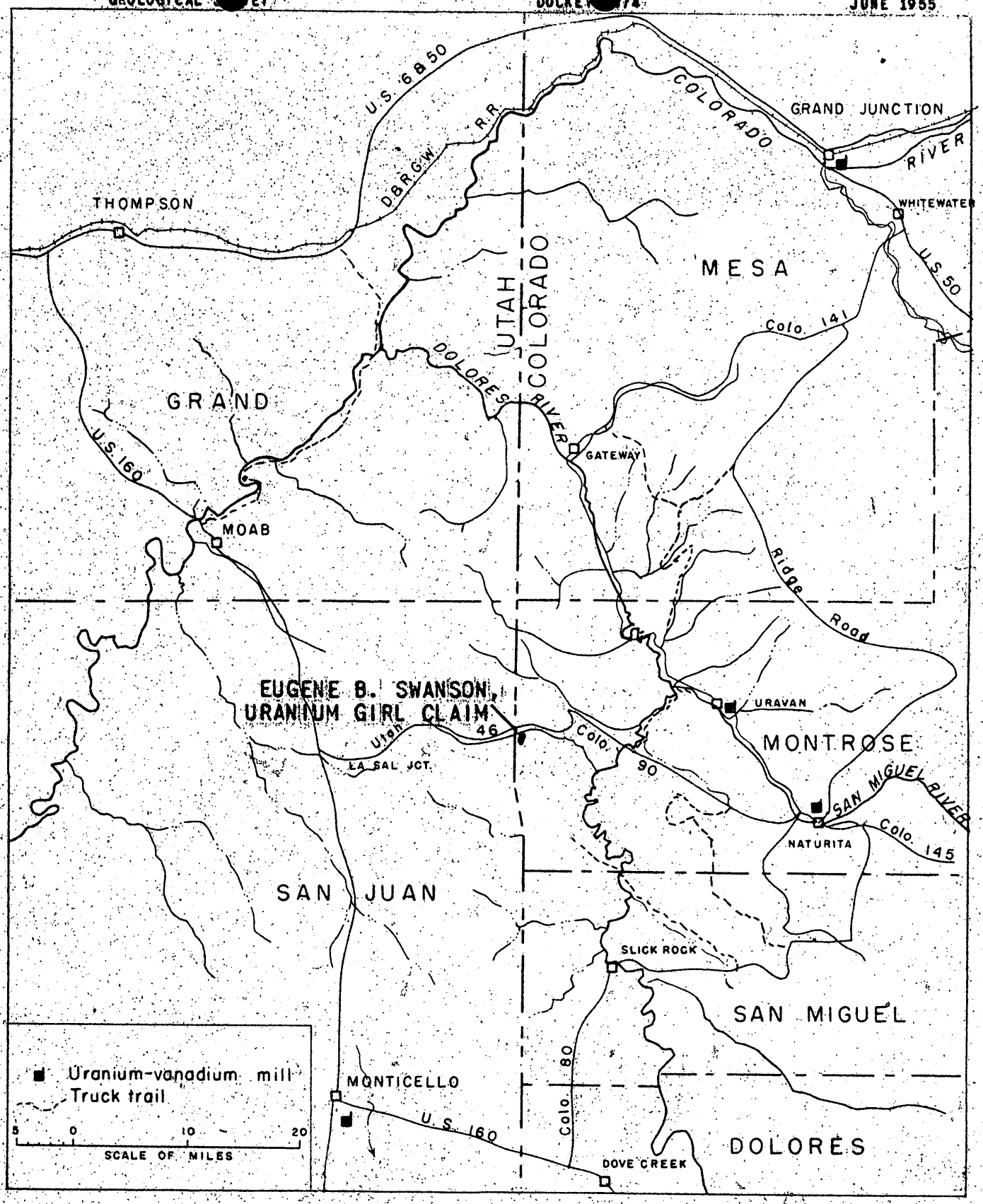


Figure 1. INDEX MAP OF PART OF THE COLORADO PLATEAU SHOWING LOCATION OF URANIUM GIRL CLAIM, EUGENE B. SWANSON, PARADOX MINING DISTRICT, MONTROSE COUNTY, COLORADO

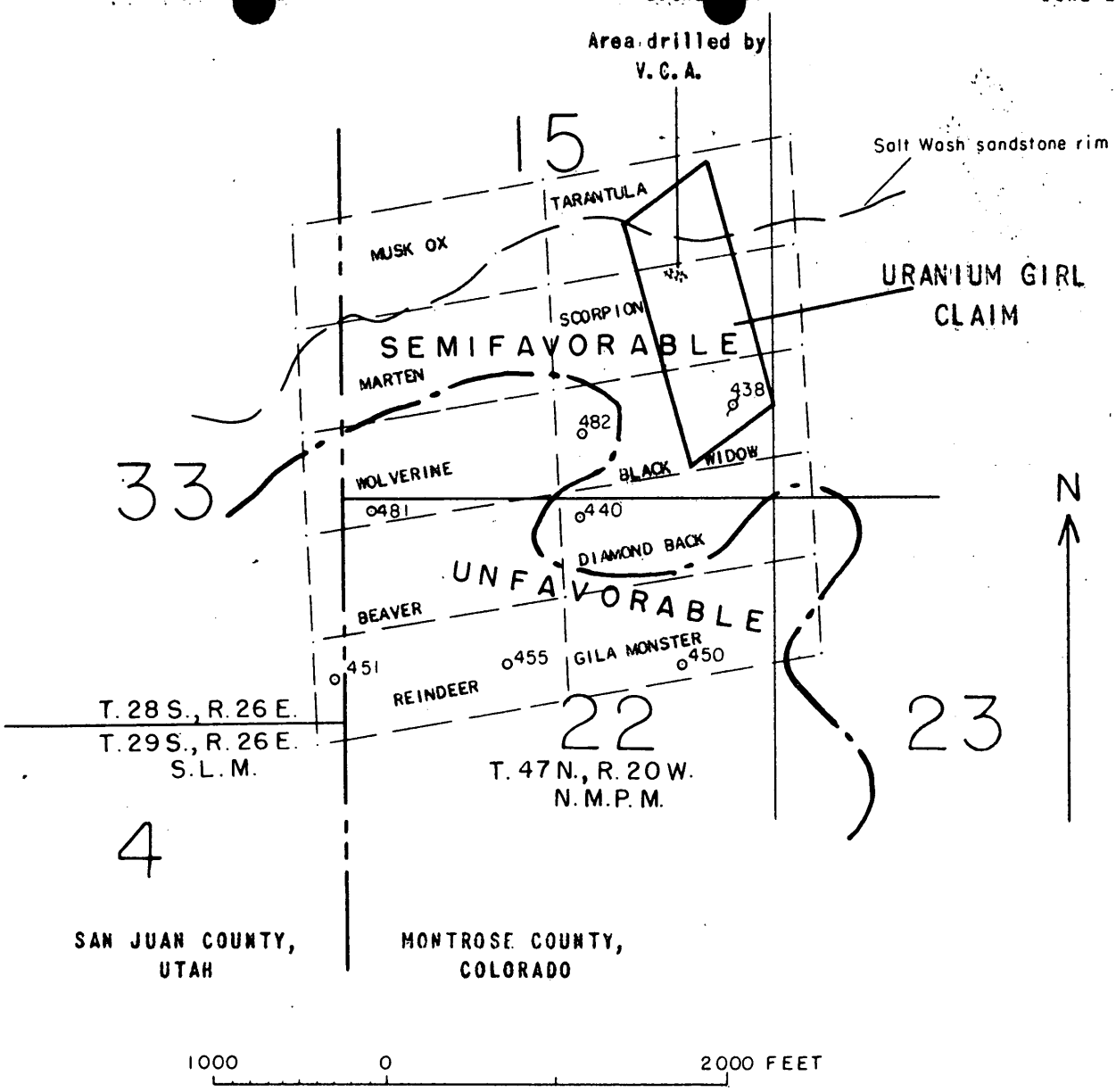


Figure 2. MAP SHOWING APPROXIMATE LOCATION OF URANIUM GIRL CLAIM, EUGENE B. SWANSON, PARADOX MINING DISTRICT, MONTROSE COUNTY, COLORADO

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

JUL - 7 1955

Mr. Eugene E. Swanson
22 Marie Drive
Hayward, California

Re: Docket No. DMEA-3769 (Uranium)
Gene Hunter
Scintillator claims Nos. I and II
Montrose County, Colorado

Dear Mr. Swanson:

This will acknowledge receipt of your letter dated June 30, 1955, advising that the information requested by this office in connection with the subject application is being prepared by Mr. N. J. Hilton, Paradox, Colorado. We will be glad to hold this docket open for a reasonable period of time to permit you to submit the required data.

In regard to your application, Docket No. DMEA-3674, which you refer to in your letter, you undoubtedly received our letter of February 24, 1955, which advised that this application was referred to the Executive Officer, DMEA Field Team, Region III. We are awaiting receipt of a report and recommendations from that office before further action can be taken by this office. All communications regarding DMEA-3674 should be directed to Mr. W. R. Trover, Executive Officer, 224 New Customhouse Building, Denver 2, Colorado.

Sincerely yours,

Michael Gilding
Portermost Mr. Ellis, Chief
Mare and Miscellaneous
Metals Division

FMurphy:Glasan
7-6-55

cc to: Admr. Reading File
Docket
Messrs. J. E. Crawford, Rm. 3641
A. M. Millegaard, Rm. 5224
J. C. Hosted, Rm. 3210, GSA
Code 700
Mr. Murphy
DMEA Field Team, Region III (2) w/cc m incoming letter
Docket DMEA-3674

R.C.J.

Surname 700
Murphy
Ellis
Hedges
Kilsgaard
Selfridge
Johnson

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

FEB 24 1955

Mr. Eugene B. Swanson
408 Clara Street
Oakland 3, California

Re: Docket No. DMEA-3674 (Uranium)
Uranium Girl claim
Montrose County, Colorado

Dear Mr. Swanson:

The application for assistance in exploring your property in Montrose County, Colorado, under the above-captioned docket number, has been reviewed by the Rare and Miscellaneous Metals Division of the Defense Minerals Exploration Administration. It has been referred to the Executive Officer of Region III at the following address:

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

The Regional Office will contact you in regard to your project if additional information is required.

Sincerely yours,

C. O. Mittendorf
by 257
Administrator

FMurphy:am
2-21-55
cc to: Admr. Reading File
Docket
Code 700
Mr. Murphy
DMEA Field Team, Region III(2)

R.C.G.

700

Surname

Murphy
Selfridge
Johnson

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

FEB 24 1955

Mr. W. H. Traver
Executive Officer
DMEA Field Team, Region III
224 New Customhouse Building
Denver 2, Colorado

Re: Docket No. DMEA-3674 (Uranium)
Eugene B. Swanson
Uranium Girl claim
Montrose County, Colorado

Dear Mr. Traver:

The captioned application is referred to Region III Field Team for a field examination and recommendation. A copy of the application was retained by your office.

Enclosed are copies of memoranda from R. D. Trace, dated February 15, and John E. Crawford, dated February 16, 1955, members of the Uranium Commodity Committee.

We note that Mr. Swanson's Uranium Girl claim is surrounded by claims owned by the Vanadium Corporation of America, former Lessee of Applicant's claim. Would it be possible for Mr. Swanson to obtain a lease on the adjacent claims which might benefit by the work proposed? It is suggested that this question be considered.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (GCS)

Enclosures

APPROVED:

J. H. Hedges (JHH)
Member, Bureau of Mines

Thor H. Kiilsgaard (THK)
Member, Geological Survey

FMurphy:am
2-21-55
cc to: Admr. Reading File
Operating Committee
Docket
Messrs. J. E. Crawford, Rm. 3641
T. H. Kiilsgaard, Rm. 5224
J. O. Hosted, Rm. 3210, GSA
Code 700
Mr. Murphy

R.C.H.

2/17/55 gla

[redacted]

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 17 1955

February 16, 1955

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee, Room 4445

From: Bureau of Mines Member
Uranium Commodity Committee

Subject: DMEA Docket 3674, Eugene B. Swanson,
408 Clara Street, Oakland 3, California

I have reviewed the application included in the subject docket and have discussed it with Joseph O. Hosted, representative of the Atomic Energy Commission.

We recommend that the attached application be referred to the Field Team for investigation and report, and that the Field Team be requested to discuss the application with Ernest R. Gordon, Atomic Energy Commission, Grand Junction, Colorado.

John E. Crawford

John E. Crawford

Attachment

Copy to: Branch of Rare and Precious Metals
Division of Minerals
J. O. Hosted (2)
J. E. Crawford

2/16/55 gla

IN REPLY REFER TO:

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 15 1955

February 15, 1955

Re: DMEA-3674
Eugene B. Swanson
Uranium Girl
La Sal Creek
Montrose Co., Colo.
$36,025 - Uranium

Memorandum

To: E. W. Ellis, Defense Minerals Exploration Administration

From: R. D. Trace, U. S. Geological Survey

Subject: Review of application

The area of the applicant's property is shown on the map accompanying TEM-716. According to this map, most of the ground underlying the claim is considered "favorable" for ore. The Survey drilled one weakly mineralized hole in the southern part of the claim.

In view of these facts, and also that the Grand Junction Survey office will have data not available here, I recommend that the application be referred to the Field Team.

Bob Trace

R. D. Trace

IN REPLY REFER TO:

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

RECEIVED
FEB 15 1955

February 15, 1955

Re: DMEA-3674
Eugene B. Swanson
Uranium Girl
La Sal Creek
Montrose Co., Colo.
$36,025 - Uranium

Memorandum

To: E. W. Ellis, Defense Minerals Exploration Administration

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In view of these facts, and also that the Grand Junction Survey office will have data not available here, I recommend that the application be referred to the Field Team.

R. D. Trace

RDTrace:hlm
G-2/15/55

Copy to: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
J. E. Crawford, 3641 Interior

February 9, 1955
Subject: DMEA 3674
Re: Exploration Assistance
Uranium Girl

Mr. Eugene B. Swanson
408 Clara Street
Oakland 3, California

Dear Mr. Swanson,

The receipt of your application dated December 6, 1954 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA 3674 and referred to the Rare and Miscellaneous Metals 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

February 9, 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 - 3674 Eugene B. Swanson

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

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 7 1955

224 New Customhouse
Denver 2, Colorado

February 3, 1955

Memorandum

To: Secretary to the Operating Committee

From: Executive Officer, DMEA Field Team, Region III

Subject: Application for DMEA assistance (Uranium), Eugene B. Swanson, Uranium Girl claim, Paradox Mining District, Montrose County, Colorado

Enclosed are the original and two copies of the subject application which has been revised to an estimated total cost of $36,025.00, and is therefore no longer within the authority delegated to this office. One copy of the application has been retained by us.

All information supplied by the applicant indicates that the Uranium Girl claim has very little merit and it is doubtful whether any exploration work would be approved; however, we believe that a field examination is required to prove or disprove this. As additional information which my be supplied by the applicant will probably add little to the application, we recommend that it be scheduled for a field examination after which it may be denied if the property does not merit an expenditure of Government funds.

W. M. Traver

Enclosures

W. M. Traver

RDB:pw

224 New Customhouse
Denver 2, Colorado

February 3, 1955

Memorandum

To: Secretary to the Operating Committee

From: Executive Officer, DMEA Field Team, Region III

Subject: Application for DMEA assistance (Uranium), Eugene B. Swanson, Uranium Girl claim, Paradox Mining District, Montrose County, Colorado

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W. M. TRAVER

Enclosures

W. M. Traver

RDB:pw

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

Mining Division
Date Rec'd.

Department of the Interior
Defense Minerals Administration
RECEIVED

DEC 13 1954
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. 3674
Metal or Mineral Uranium
Date Received 2-7-55
Estimated Cost $36,025
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: Eugene B. Swanson, 408 Clara Street, Oakland 3, California
After May 20, 1955 My address will be Wilson's Boarding Home, Paradox, Colorado.
Latest address (June 30, 1957) 82 - Marie Drive
Hayward, California
see docket 3769

(*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 Claim URANIUM GIRL liesin Sec. 14, T. 47 N., R. 20W., Paradox Mining District, Montrose County, Colorado, on the south rim of La Sal Creek, approximately 1500 feet east of the Utah-Colorado border, in Colorado. 3 & 1/10 miles on the YELLOW BIRD mine road from Utah Highway #46 then left on my road, to rim.

(*b*) State any mine name by which the property is known. URANIUM GIRL, formerly EMERGENCY

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise Sole 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. Book 357, Page 128; Book 213, Page 416; Book 213, Page 426; Book 340, Page 442 & 443; All recordings on same claim, Montrose County Court House, Montrose, Colorado.

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 the mineral or minerals for which you will to explore URANIUM

(*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 160 days and be completed within 7 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 December 16, 1954

Eugene Bertram Swanson
(Applicant)

By Eugene Bertram Swanson

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

Eugene B. Swanson
408 Clara Street
Oakland 3, California

Supplement to DMEA Form MF-103

4. (a) Production records show that 41 pounds of U_3O_8 were produced from this property between April 9, 1948, and February 28, 1951, inclusive. Excavations with hand tools have been made near the rim of the claim about 10 feet wide by 40 feet long and 5 feet deep from the surface. There are no production facilities. Sixteen Wagon Test drill holes were made in November 1953 by the Vanadium Corporation of America, reports of which are enclosed herewith. These drill holes were made approximately 200 fet from the old workings ranging in depth from 31 feet to a maximum of 45 feet. They were made while the claim was under lease to the Vanadium Corporation of America. Lease has since terminated. Copy of lease cancellation is enclosed herewith.

Claim is accessible by road in poor condition.

(b) Production records show that 4 pounds of U_3O_8 were produced from this property between April 9, 1948, and February 28, 1951, inclusive. Confirmation may be had by reference to Certification No. D.U.P.C6-C-336. Ore reserves as of this date are undetermined. Grades unknown.

(c) The property shows uranium ore (carnitite) outcroping from a fault in the Morrison formation. My examination of these outcroppings and the surrounding area lead me to believe that, without doubt, this property is worthy of extensive exploration and immediate development.

(d) Access to this property is from Highway #46 in Utah over the Yellow Bird mine road for a distance of 3 & 1/10 miles from this intersection. At this point the Uranium Girl road leads off to the left to the rim, a distance of approximately 2000 feet. Shipping of ore shall be made by truck to the mill of the Vanadium Corporation of America at a distance of approximately 50 miles, near Uravan, Colorado. Supplies necessary for this type of operation are available at Uravan, Colorado. Present residential points are La Sal, Utah, and Paradox, Colorado.

(e) Manpower, materials, supplies, equipment, water, and power, are all available in sufficient amounts.

5. (b) It is proposed to use a bulldozer to improve the existing road on the property and to extend it the width of the claim to permit the access of rotary and core drilling equipment. Sketch is enclosed herewith.

(d) Applicant has been engaged in all phases of Uranium mining operations in association with Mr. Edward Johansen, mining contractor of Nucla, Colorado; Mr. Richard Weist, Paradox, Colorado; and others over a period of several years. It is proposed that the owner-applicant will supervise personally the proposed exploration work to be done by employing one of bulldozer and combination rotary and core drilling rigs available in the area.

Eugene B. Swanson
408 Clara Street
Oakland 3, California

6. Estimate of costs.

(a)	Bulldozer @ $18.00 per hour	$1500.00	
	Rotary & Core drilling @ $4.50 per foot	13500.00	
	Drifting @ $30.00 per foot	12000.00	
	Allowance for moving heavy equipment on location	1000.00	
	Construction of office, barracks, and storeroom bldg., 400 sq. ft. @ $7.00	2800.00	$30,800.00
(b)	Supervision by owner, 6 months @ $500.00	$3000.00	
	Engineering and Geological consultants fees @ $50.00 per day	500.00	3,500.00
(c)	All operating materials and supllies to furnished by independent contractors. Costs are included in sub-heading (a).		
(d)	None.		
(e)	None.		
(f)	Listed under sub-heading (a).		
(g)	Geological and assay reports	100.00	
	Accountants fees	500.00	
	Liability insurance	125.00	725.00
(h)	Contingencies		1000.00
	TOTAL		$36025.00

7. (a) Yes.
(b) I shall pay 25% of the costs as they become due.

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

224 New Customhouse
Denver 2, Colorado

December 15, 1954

Mr. Eugene B. Swanson
408 Clara Street
Oakland 3, California

Re: DMEA application (Uranium) Eugene B. Swanson, Uranium Girl claim, (formerly Emergency claim), Paradox Mining District, Montrose County, Colorado.

Dear Mr. Swanson:

We are returning herewith your application for DMEA assistance in the exploration for uranium on your Uranium Girl claim for your reconsideration and possible revision as outlined below:

(1) Reference to the 17 drill logs of Wagon Drilling performed on the Uranium Girl claim by Vanadium Corporation of America. The drill logs (VCA Holes Nos. 679 to 695 incl.) submitted by you as part of your application indicates an absence of uranium mineralization in all holes drilled. The letter from V. C. A. transmitting these drill logs to you also indicates that the holes drilled are of no value (except as negative information) in establishing the existance of uranium mineralization on your property. We do need to know the exact location of these barren holes however in order to fully evaluate the merits of your proposed program.

(2) Your indicated production of 4 pounds of uranium from 2000 cubic feet (approximately 138 tons) of rim excavation also does not sufficiently establish the fact that good geologic targets exist to warrant an exploration program.

(3) If you still believe your property to have merit and can give additional information as to the possible existance of logical geologic targets on the Uranium Girl claim either from structures or drill holes on the claim itself or from drill hole data in the <u>near</u> vicinity of the claim, please submit a revised application which includes the following:

(a) A full and detailed explanation of your proposed program (Question 5(b) of Form MF-103). This should include the amount of roadwork and your estimate of the hours of bulldozing required to accomplish this; the number of drill holes, approximate footage, total footage, and type of drilling required; and the drifting footage requested to explore your property.

(b) A claim map of suitable size upon which you have plotted to scale the locations of the seventeen wagon drill holes which were drilled by V.C.A., and the approximate locations of the drill holes, roadways, and drifting proposed by you. This map should also show the important geologic features such as mineralized outcrops, veins, etc.

(c) Your cost estimate is then to be based on the definite proposals as outlined above.

As soon as your revised application is received, a field examination of your property will be scheduled in order to evaluate the merits of the Uranium Girl claim and your exploration proposals.

Yours very truly,

W H King

W. H. King
Executive Officer
DMEA Field Team, Region IV

Enclosures

408 Clara Street
Oakland 3, California
January 21, 1955

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB - 7 1955
Date Rec'd JAN 24 1955
BUREAU OF MINES
Denver, Colorado

W.H. King
Executive Officer
D.M.E.A. Field Team Region 1V
224 New Customhouse
Denver, Colorado

Re: D.M.E.A. application (Uranium)
applicant and owner Eugene B. Swanson
of Uranium Girl claim(formerly
Emergency Claim) Paradox Miming District,
Montrose County Colorado.

Dear Mr. King:

In reply to your request for an explanation on paragraphs 1 - 2 - 3 and subtopics a - b of your enclosed letter of December 15, 1954.

1. Request for drill logs on work done by the V.C.A. November 12, 1953.
(a) I am enclosing a letter from Mr. D.W. Viles of the V.C.A., who has consented to assist me with such a log. However, as yet all I can offer on this topic is that the V.C.A. drilled 17 shallow holes (Reports enclosed) on the northwest corner of my claim within a 10,000 square foot area on the existing campsite. It is my opinion that these blank holes constitute a nuisance value, as they are 200 feet approximately from my outcrop and have hindered me in many ways. My Vanadium outcrop is on the North end of my claim and is centrally located(assay report enclosed). Fifteen feet approximately from the vanadium is the very thin Uranium outcrop. I hope these facts will help me eliminate the expense of a private surveyor if the V.C.A. fails to submit the promiseddrill log you requested. I would appreciate a letter from your office to Mr. Viles requesting the drill log on my claim if the above information is still insufficient.

2. In regards to the 4 pounds of unranium shipped by previous owners, from 2,000 cubic feet of exploration: the 4 pounds of uranium is the amount eligible for bonus payment. There has been an undisclosed number of shipments as far back as the year 1930 of which there is apparently no record. Mr. Lew Couchman of Paradox, Colorado hauled ore from this claim by horse and wagon and this ore was shipped to Pittsburgh, Pennsylvania when ore had to run 10% or better to pay a profit. All ore that could be shipped at that time profitably was removed at that time. The total excavation of 2,000 cubic feet includes all known and unknown shipments of unanium and vanadium since 1930.

3. I believe my property has more merit than any other undeveloped claim which I saw during the two full summers I spent prospecting on the Colorado Plateau. I was financially unable to prove my claim in November 1953 and therefore leased it to the V.C.A. My only other alternative was to sell it to another company for a mere $500. Since that time I have had a full year to work at my trade and also sell my home in California to raise enough capital to permit an exploration program of enough magnitude under my personal supervision without corporation or outside capital from any source other than from the D.M.E.A. My work is to be accomplished by small independent contractors that have equipment available at prices I can afford to pay.

(Continued)

I would appreciate any guidance or assistance from your office to help me in accomplishing my goal. I am attempting to have approval and appropriation from the D.M.E.A, so that I may take advantage of the weather between May 1955 and November 1, 1955 and be permitted to make committments on work to be performed before my arrival. My application is open to your correction and adjustment as you or your agents deem necessary or advisable, all I ask is please approve enough of it to permit me to prove or disprove this claim within the seven months of permitting weather.

(a) additional information on question 5 (b)

My estimate of road building shall constitute approximately 20 hours of bulldozer work, which shall make it possible for me to place the Rotary drill on the job in the desired locations upon my claim. I shall drill 7 holes 300 feet in depth, and 2 holes 450 feet in depth which makes a total of 10 deep drill holes and totals 3,000 feet of drilling with a combination Rotary and core drilling rig. An additional 63½ hours of bulldozer work will be needed at a later date after the drilling has been accomplished and the reports are favorable enough to merit drifting to complete the exploration. In order to drift economically, I will need the above mentioned bulldozer work of 63½ hours to build a road down the face on the rim of my claim. This bulldozer work consists of moving overburden for an overall distance of approximately 2,000running feet and approximately 15 feet wide in a zig zag or S fashion. This road will permit a compressor and the necessary equipment to be moved in place for economical drifting approximately 350 feet below the rim. A total of 83½ hours of bulldozer work .

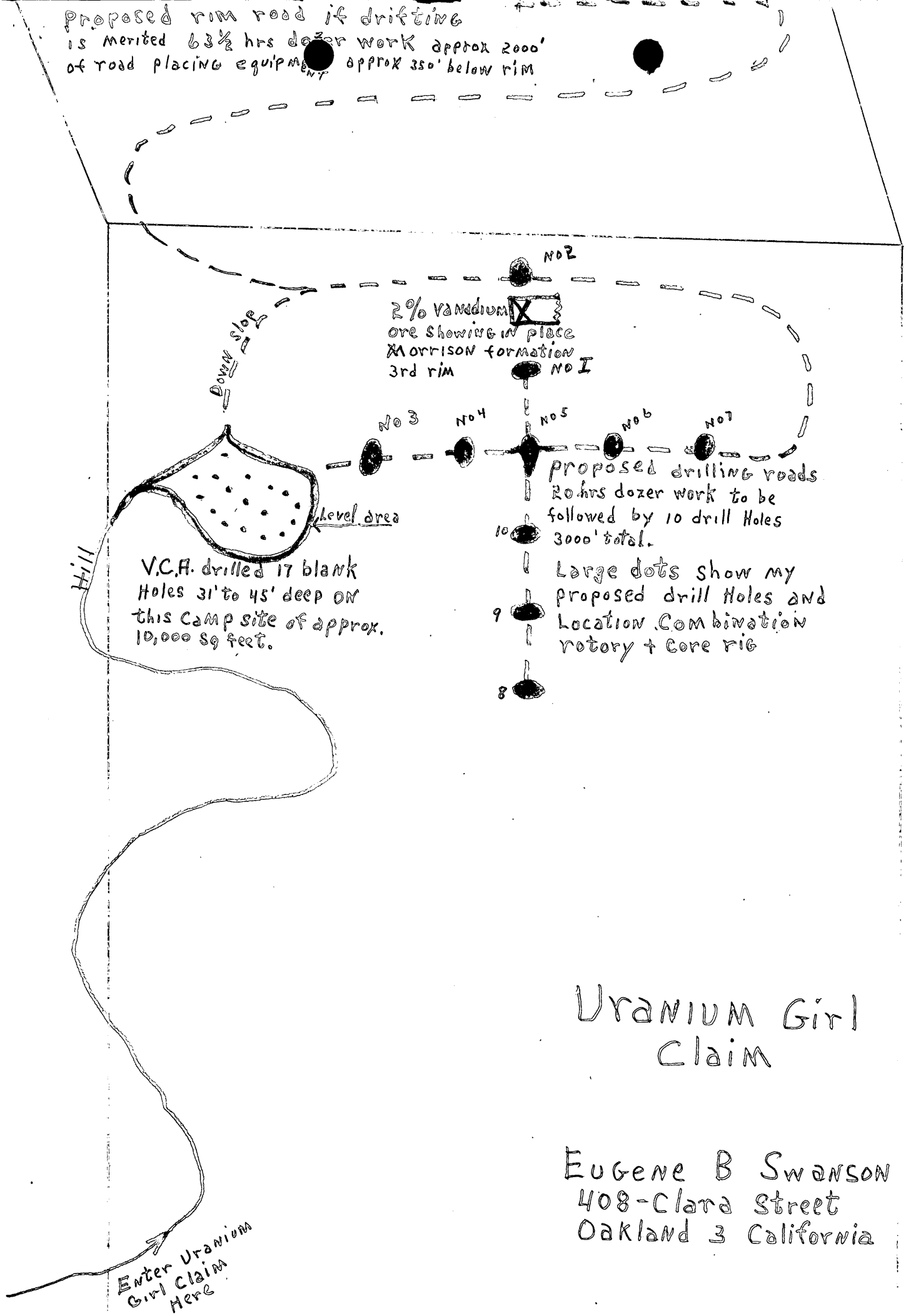
The approximate footage of drifting necessary would constitute 400 feet and would be approximately 350 feet below the rim toward a favorable drill hole, providing professional advice and reports approve.

I will be looking forward to hearing from you soon,

Sincerely yours,

Eugene B. Swanson

Eugene B. Swanson
408 Clara Street
Oakland 3, California



Uranium Girl Claim

Eugene B Swanson
408-Clara Street
Oakland 3 California

UNITED STATES VANADIUM COMPANY

A DIVISION OF UNION CARBIDE AND CARBON CORPORATION

UCC

URAVAN, COLORADO

RECEIVED
FEB - 7 1953

August 20, 1953

Mr. Eugene B. Swanson
Paradox
Colorado
c/o Mrs. Wilson - boarding house

Dear Mr. Swanson:

The sample of ore that you left here ran 2.01 vanadium, nil uranium.

I would like to meet you at Paradox Monday morning at nine o'clock to go and look at the claim. Will you please let me know if this is not convenient for you.

Very truly yours,

UNITED STATES VANADIUM COMPANY

J. R. Borden

J. R. Borden
Mining Department

JRB/me

VANADIUM CORPORATION OF AMERICA

NATURITA, COLORADO

January 18, 1955

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 7 1955

Date Rec'd.
JAN 27 1955
BUREAU OF MINES
Denver, Colorado

Mr. Eugene B. Swanson
408 Clara Street
Oakland 3, California

Dear Mr. Swanson:

I have been unable to prepare the map showing the location of the drill holes which you requested in your letter to Mr. Viles. The snow in this area makes it impracticable to do this job now.

I am sure that by the time youare ready to carry on your exploration program I will have this work completed.

Sorry I can't furnish this information foryou at this time.

Sincerely,

VANADIUM CORPORATION OF AMERICA

R. L. Anderson

R. L. Anderson, Mines Supt.

Jan 24, 1955
RE: Uranium Girl Claim
by E.B. Swanson.

Dear Mr King;

Please attatch this piece of recent information to my D.M.E.A. loan application papers which I mailed to you January 22, 1955.

Sincerely
Eugene B Swanson

VANADIUM CORPORATION OF AMERICA

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 7 1955

D. W. VILES
VICE PRESIDENT

DURANGO, COLORADO

December 31, 1954

Mr. Eugene B. Swanson
408 Clara Street
Oakland 3, California

Dear Mr. Swanson:

Your letter of December 20th is being forwarded to Mr. Anderson, the Mine Superintendent, who will give you all the information we have and the approximate locations of the drill holes. When you decide definitely to do your drilling, if we can be of any help to you on the ground, we shall be glad to discuss it with you.

Wishing you a happy and prosperous 1955, I am

Yours sincerely,

D. W. Viles, Vice President

DWV:la

PORTION OF YELLOWBIRD CLAIM GROUP (V.C.A.)

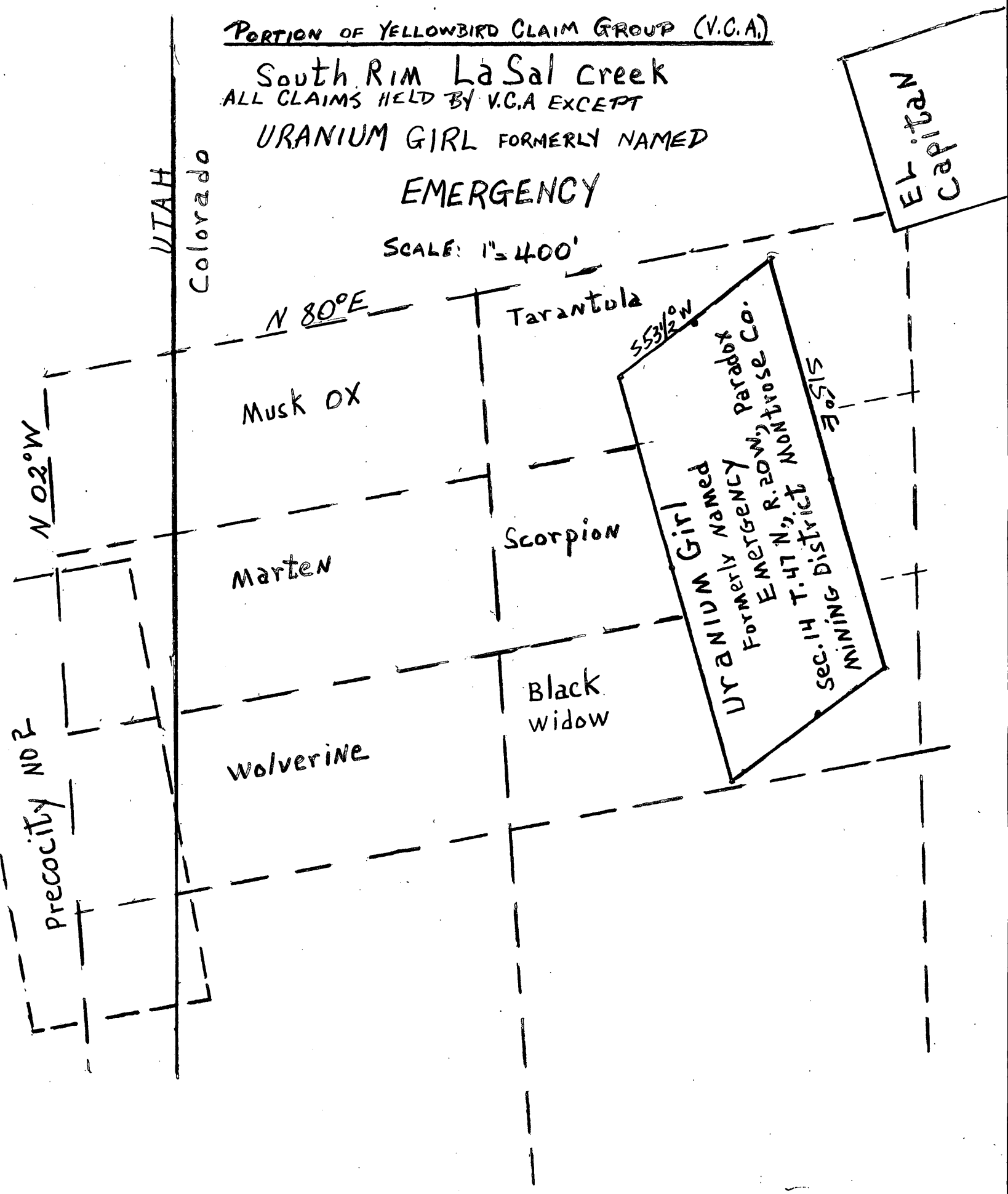
South Rim La Sal Creek

ALL CLAIMS HELD BY V.C.A EXCEPT

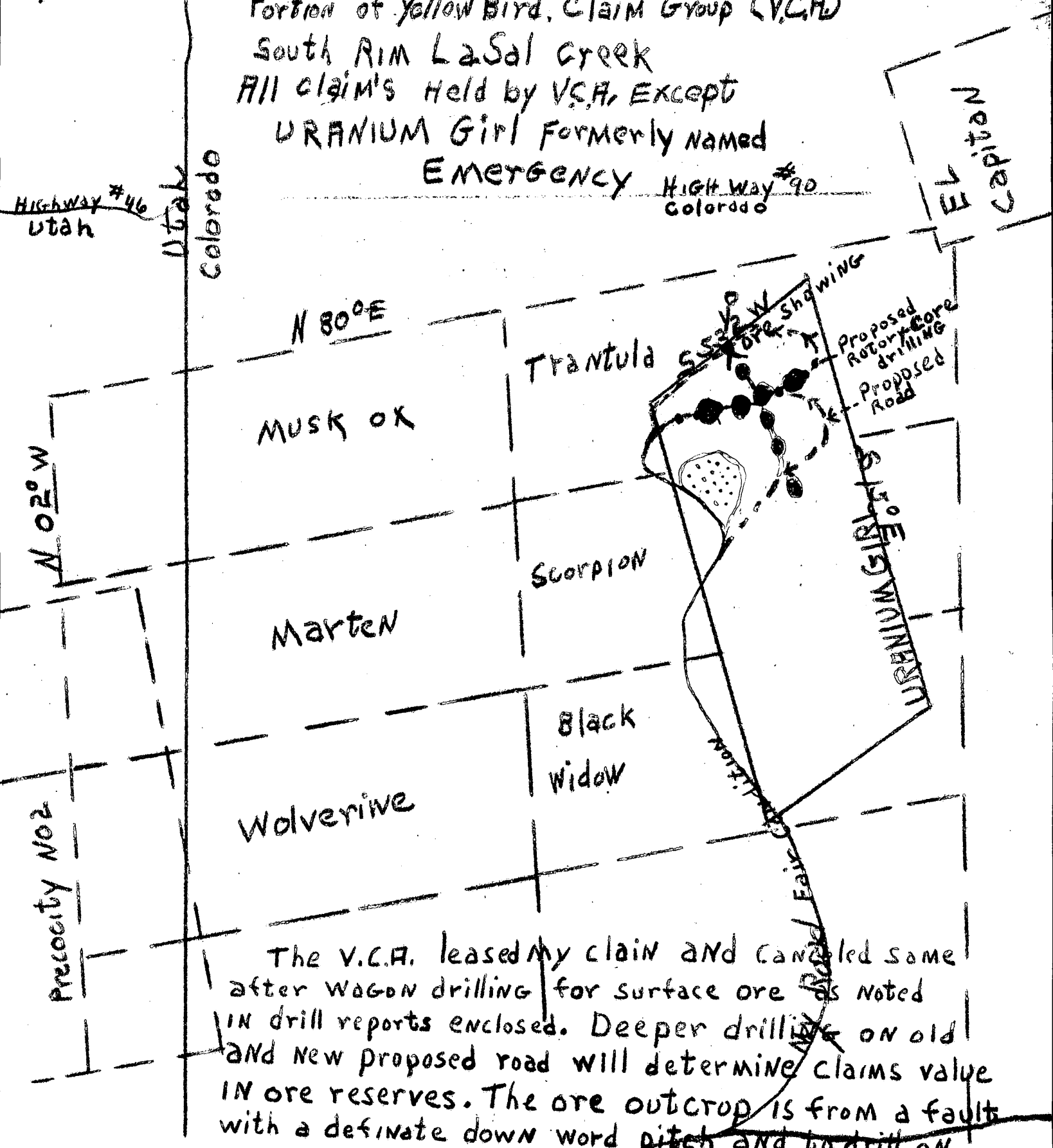
URANIUM GIRL FORMERLY NAMED

EMERGENCY

SCALE: 1" = 400'



Portion of Yellow Bird, Claim Group (V.C.A.)
South Rim LaSal Creek
All claim's Held by V.C.A. Except
URANIUM Girl Formerly named
EMERGENCY



The V.C.A. leased my clain and canceled same after wagon drilling for surface ore as noted in drill reports enclosed. Deeper drilling on old and new proposed road will determine claims value in ore reserves. The ore outcrop is from a fault with a definate down word pitch and to drill on top of the outcrop will require a rim road. The V.C.A. used my old road which stops aprox. 200' of outcrop.

VANADIUM CORPORATION OF AMERICA

NATURITA, COLORADO

Department of the Interior
Defense Minerals Administration
RECEIVED
FEB 7 1954

January 7, 1954

Mr. Eugene B. Swanson
408 Clara Street
Oakland 3, California

Dear Sir:

After wagon drilling the Uranium Girl, and studying the results of the drilling, I find it unadvisable to do any more work on this property. In all fairness to you and your property we are canceling our lease with you.

Enclosed is a copy of the drill reports on all holes drilled on the Uranium Girl for your files.

Respectfully

VANADIUM CORPORATION OF AMERICA

R. L. Anderson

R. L. Anderson
Mine Supt.

VW42-G3

Montrose Daily Press 3-52-1m

Diamond Drill Record Report

VANADIUM CORPORATION OF AMERICA

Hole started, date 11/11/53 hour _____

Hole finished, date _____ hour _____

Time required to drill this hole _____ hours

Total delays on this hole . . _____ hours

Time required to move to this hole _____ hours

Distance moved to this hole . . _____ feet

CLAIM Uranium Girl HOLE No. 679

Location _____

FROM FEET	FROM Inches	TO FEET	TO Inches	FORMATION Legend	ANALYSIS U_3O_8	ANALYSIS V_2O_5	REMARKS (Delays)
0		9		g.c.			
9		20		b.s.			
20		27		w.s.			
27		32		r.c.			
				wet red clay at 32 feet			

WAGON DRILL

El.— 0′ 10 20 30 40

40′ 50 60 70 80 90 100 110

Columnar Section
1″=10′

L. G.	Analysis under 1.5% U_3O_8
H. G.	Analysis over 1.5% U_3O_8
V.	Vanadium
C.	Clay { b. c.—blue clay; r. c.—red clay; y. c.—yellow clay }
L.	Limestone
S.	Sandstone { w. s.—white Sandstone; r. s.—red "; b. s.—brown " }
M.	Manganese

Total thickness of ore ____ ft. ____ inches, averaging { ____ % U_3O_8 ; ____ % V_2O_5 }

Water used for this hole _____ gals.

Remarks: _____

C. D. Galyean
Joe c. Martin

VW42-G3

Montrose Daily Press 3-52-1m

Diamond Drill Record Report

VANADIUM CORPORATION OF AMERICA

Hole started, date 11/11/53 hour _____

Hole finished, date _____ hour _____

Time required to drill this hole _____ hours

Total delays on this hole . . _____ hours

Time required to move to this hole _____ hours

Distance moved to this hole . . _____ feet

CLAIM UraniumGirl HOLE No. 680

Location _____

El.—

FROM FEET	FROM Inches	TO FEET	TO Inches	FORMATION Legend	ANALYSIS U_3O_8	ANALYSIS V_2O_5	REMARKS (Delays)
0		9		g.c.			
9		17		b.s.			
17		20		b.s.			
20		27		w.s.			
27		30		g.s.			
30		35		r.c.			
				Wet red clay @ 35'.			

WAGON DRILL

Columnar Section
1"=10'

0' 10 20 30 40 50 60 70 80 90 100 110

L. G. Analysis under 1.5% U_3O_8

H. G. Analysis over 1.5% U_3O_8

V. Vanadium

C. Clay { b. c.—blue clay; r. c.—red clay; y. c.—yellow clay }

L. Limestone

S. Sandstone { w. s.—white Sandstone; r. s.—red "; b. s.—brown " }

M. Manganese

Total thickness of ore ____ ft. ____ inches, averaging { ____ % U_3O_8 ; ____ % V_2O_5 }

Water used for this hole _____ gals.

Remarks: _____

C. D. Galyean
Joe C. Martin

VW42-G3

Montrose Daily Press 3-52-1m

Diamond Drill Record Report

VANADIUM CORPORATION OF AMERICA

Hole started, date 11/12/53 hour _____

Hole finished, date _____ hour _____

Time required to drill this hole _____ hours

Total delays on this hole . . _____ hours

Time required to move to this hole _____ hours

Distance moved to this hole . . _____ feet

CLAIM Uranium Girl HOLE No. 681

Location _____

FROM FEET	FROM Inches	TO FEET	TO Inches	FORMATION Legend	ANALYSIS U_3O_8	ANALYSIS V_2O_5	REMARKS (Delays)
0		9		b. s.			
9		21		g. s.			
21		28		b. s.			
28		36		r. c.			
				wet red clay @ 36'.			

WAGON DRILL

El.—

Columnar Section
1"=10'

0' 10 20 30 40

40 50 60 70 80 90 100 110

L. G. Analysis under 1.5% U_3O_8

H. G. Analysis over 1.5% U_3O_8

V. Vanadium

C. Clay { b. c.—blue clay; r. c.—red clay; y. c.—yellow clay

L. Limestone

S. Sandstone { w. s.—white Sandstone; r. s.—red "; b. s.—brown "

M. Manganese

Total thickness of ore ____ ft. ____ inches, averaging { ____ % U_3O_8; ____ % V_2O_5

Water used for this hole _____ gals.

Remarks: _____

C. D. Galyean
Joe C. Martin

VW42-G3

Montrose Daily Press 3-52-1m

Diamond Drill Record Report

VANADIUM CORPORATION OF AMERICA

Hole started, date 11/12/53 hour _____

Hole finished, date _____ hour _____

Time required to drill this hole _____ hours

Total delays on this hole . . _____ hours

Time required to move to this hole _____ hours

Distance moved to this hole . . _____ feet

CLAIM Uranium Girl HOLE No. 682

Location _____

FROM FEET	FROM Inches	TO FEET	TO Inches	FORMATION Legend	ANALYSIS U_3O_8	ANALYSIS V_2O_5	REMARKS (Delays)
0		8		b. s.			
8		19		g. s.			
19		21		b. s.			
21		29		g. s.			
29		32		b. s.			
32		38		r. c.			
				wet red clay @ 38'.			

WAGON DRILL

El.—

Columnar Section
1"=10'

0' 10 20 30 40

40' 50 60 70 80 90 100 110

L. G.	Analysis under 1.5% U_3O_8
H. G.	Analysis over 1.5% U_3O_8
V.	Vanadium
C.	Clay { b. c.—blue clay; r. c.—red clay; y. c.—yellow clay }
L.	Limestone
S.	Sandstone { w. s.—white Sandstone; r. s.—red "; b. s.—brown " }
M.	Manganese

Total thickness of ore ____ ft. ____ inches, averaging { ____ % U_3O_8 ; ____ % V_2O_5 } Water used for this hole _____ gals.

Remarks: _____

C. D. Galyean
Joe C. Martin

VW42-G3

Montrose Daily Press 3-52-1m

Diamond Drill Record Report

VANADIUM CORPORATION OF AMERICA

Hole started, date 11/12/53 hour _____

Hole finished, date _____ hour _____

Time required to drill this hole _____ hours

Total delays on this hole . . _____ hours

Time required to move to this hole _____ hours

Distance moved to this hole . . _____ feet

CLAIM Uranium Girl HOLE No. 683

Location _____

FROM FEET	FROM Inches	TO FEET	TO Inches	FORMATION Legend	ANALYSIS U_3O_8	ANALYSIS V_2O_5	REMARKS (Delays)
0		7		g. s.			
7		20		b. s.			
20		27		g. s.			
27		30		b. s.			
30		45		r. c.			
				wet red clay @ 45'			

WAGON DRILL

El.— 0′ 10 20 30 40

40′ 50 60 70 80 90 100 110

Columnar Section
1″=10′

L. G.	Analysis under 1.5% U_3O_8
H. G.	Analysis over 1.5% U_3O_8
V.	Vanadium
C.	Clay { b. c.—blue clay; r. c.—red clay; y. c.—yellow clay }
L.	Limestone
S.	Sandstone { w. s.—white Sandstone; r. s.—red "; b. s.—brown " }
M.	Manganese

Total thickness of ore ____ ft. ____ inches, averaging { ____ % U_3O_8 ; ____ % V_2O_5 }

Water used for this hole _____ gals.

Remarks: _____

C. D. Galyean

Joe C. Martin

10-51—B.-R.
Form No. VW42-G3

DIAMOND DRILL RECORD REPORT

VANADIUM CORPORATION OF AMERICA

Hole started, date 11/12/ 53 hour _____

Hole finished, date _____ hour _____

Time required to drill this hole _____ hours

Total delays on this hole . . _____ hours

Time required to move to this hole _____ hours

Distance moved to this hole . . _____ feet

CLAIM Uranium Girl HOLE No. 684

Location _____

FROM FEET	FROM Inches	TO FEET	TO Inches	FORMATION Legend	ANALYSIS U_3O_8	ANALYSIS V_2O_5	REMARKS (Delays)
0		10		g. s.			
10		19		b. s.			
19		27		w. s.			
27		36		g. s.			
36		38		r. c.			
			wet red clay @ 38 '				

El.—

Columnar Section
1″=10′

0′ 10 20 30 40

40′ 50 60 70 80 90 100 110

L.G. Analysis under 1.5% U_3O_8

H.G. Analysis over 1.5% U_3O_8

V. Vanadium

C. Clay { b. c.—blue clay; r. c.—red clay; y. c.—yellow clay }

L. Limestone

S. Sandstone { w. s.—white Sandstone; r. s.—red "; b. s.—brown " }

M Manganese

Total thickness of ore ____ ft. ____ inches, averaging { ____ % U_3O_8; ____ % V_2O_5 } Water used for this hole ____ gals.

Remarks: _____

C. D. Galyean
Joe C. Martin

10-51—B.-R.
Form No. VW42-G3

DIAMOND DRILL RECORD REPORT

VANADIUM CORPORATION OF AMERICA

Hole started, date 11/12/53 hour _____

Hole finished, date _____ hour _____

Time required to drill this hole _____ hours

Total delays on this hole . . _____ hours

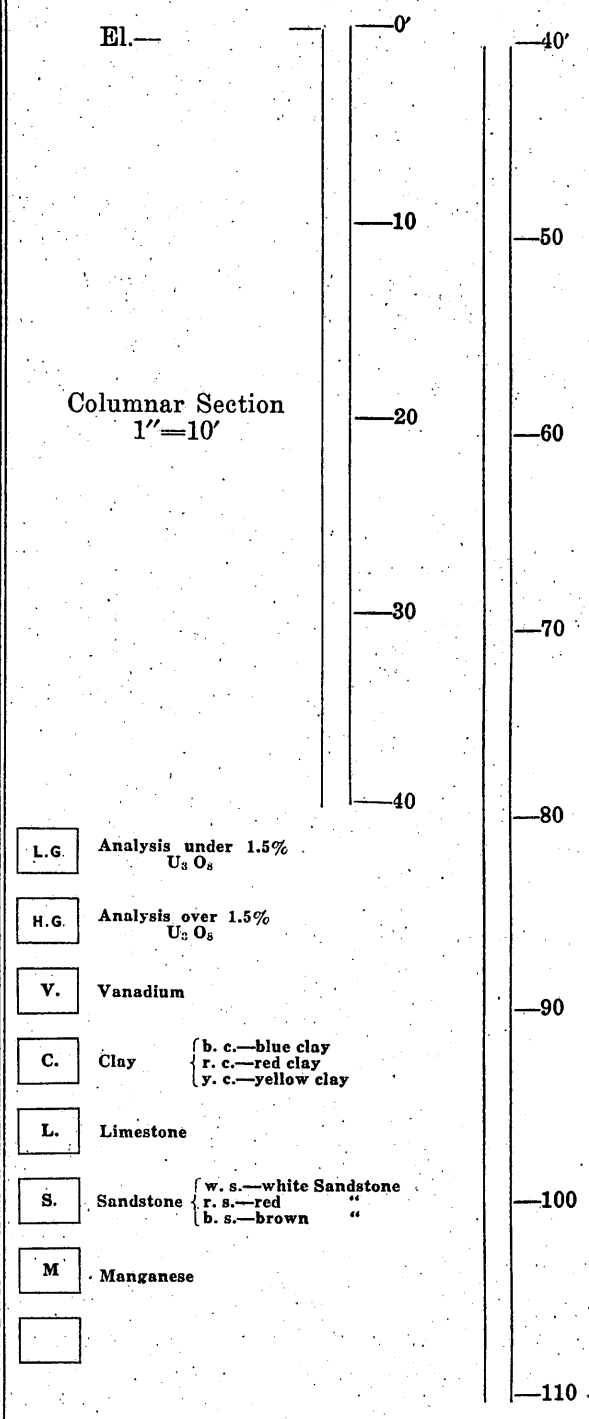
Time required to move to this hole _____ hours

Distance moved to this hole . . _____ feet

CLAIM Uranium Girl HOLE No. 685

Location _____

FROM FEET	FROM Inches	TO FEET	TO Inches	FORMATION Legend	ANALYSIS U_3O_8	ANALYSIS V_2O_5	REMARKS (Delays)
0		5		g.s.			
5		9		b.s.			
9		12		w.s.			
12		21		b.s.			
21		28		g.s.			
28		30		b.s.			
30		35		r.c.			
				wet red clay @ 35 '			



Total thickness of ore ____ ft. ____ inches, averaging ____ % U_3O_8 ____ % V_2O_5

Water used for this hole _____ gals.

Remarks: _____

C. D. Galyean

Joe C. Martin

10-51—B.-R.
Form No. VW42-G3

DIAMOND DRILL RECORD REPORT

VANADIUM CORPORATION OF AMERICA

Hole started, date 11/12/53 hour _____

Hole finished, date _____ hour _____

Time required to drill this hole _____ hours

Total delays on this hole . . _____ hours

Time required to move to this hole _____ hours

Distance moved to this hole . . _____ feet

CLAIM Uranium Girl HOLE No. 686

Location _____

FROM FEET	FROM Inches	TO FEET	TO Inches	FORMATION Legend	ANALYSIS U_3O_8	ANALYSIS V_2O_5	REMARKS (Delays)
0		4		w. s.			
4		9		g. s.			
9		12		b. s.			
12		18		g. s.			
18		27		w. s.			
27		37		r. c.			
			wet red clay @ 37'				

El.— 0′ 10 20 30 40

40′ 50 60 70 80 90 100 110

Columnar Section
1″=10′

L.G. Analysis under 1.5% U_3O_8

H.G. Analysis over 1.5% U_3O_8

V. Vanadium

C. Clay { b. c.—blue clay; r. c.—red clay; y. c.—yellow clay }

L. Limestone

S. Sandstone { w. s.—white Sandstone; r. s.—red "; b. s.—brown " }

M Manganese

Total thickness of ore ____ ft. ____ inches, averaging { ____ % U_3O_8 ; ____ % V_2O_5 } Water used for this hole _____ gals.

Remarks: _____

C. D. Galyean
Joe C. Martin

10-51—R.-R.
Form No. VW42-G3

DIAMOND DRILL RECORD REPORT

VANADIUM CORPORATION OF AMERICA

Hole started, date 11/12/53 hour _____

Hole finished, date _____ hour _____

Time required to drill this hole _____ hours

Total delays on this hole . . _____ hours

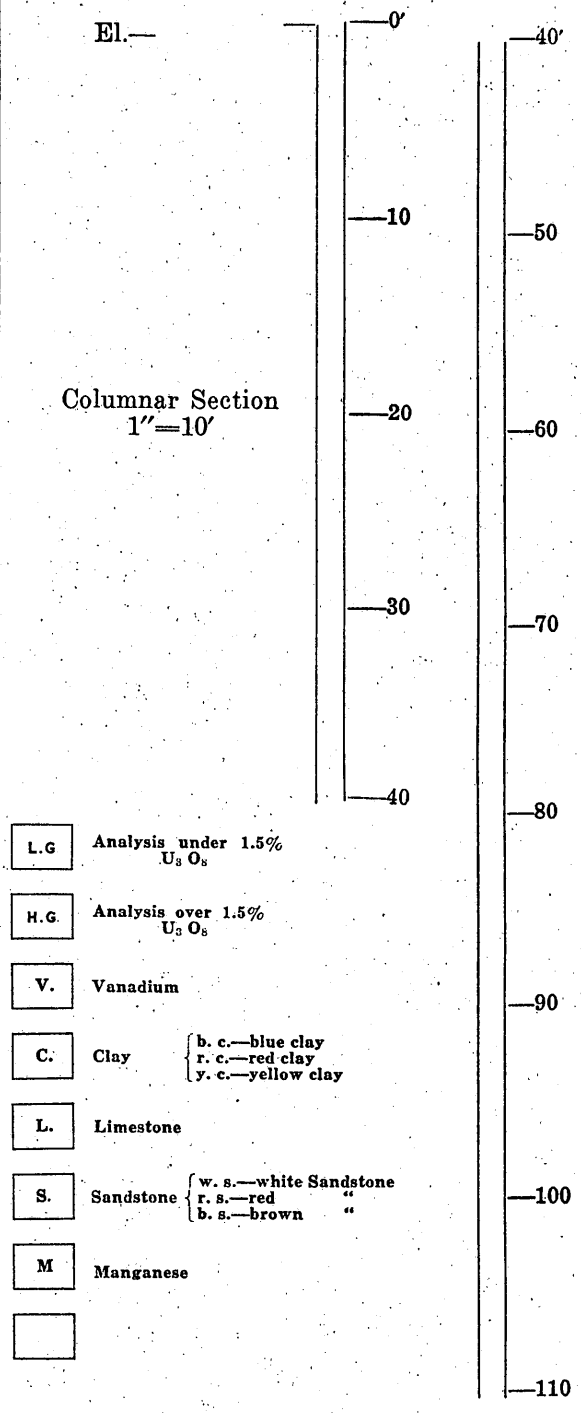
Time required to move to this hole _____ hours

Distance moved to this hole . . _____ feet

CLAIM Uranium Girl HOLE No. 687

Location _____

FROM FEET	FROM Inches	TO FEET	TO Inches	FORMATION Legend	ANALYSIS U_3O_8	ANALYSIS V_2O_5	REMARKS (Delays)
0		5		w.s.			
5		9		g.s.			
9		14		b.s.			
14		25		g.s.			
25		31		w.s.			
31		34		r.c.			
			wet red clay @ 34'				



Total thickness of ore _____ ft. _____ inches, averaging _____ % U_3O_8 _____ % V_2O_5

Water used for this hole _____ gals.

Remarks: _____

C. D. Galyean
Joe C. Martin

3-42—B.-R.

DIAMOND DRILL RECORD REPORT

VANADIUM CORPORATION OF AMERICA

Hole started, date 11/15/53 hour _____

Hole finished, date _____ hour _____

Time required to drill this hole _____ hours

Total delays on this hole . . _____ hours

Time required to move to this hole _____ hours

Distance moved to this hole . . _____ feet

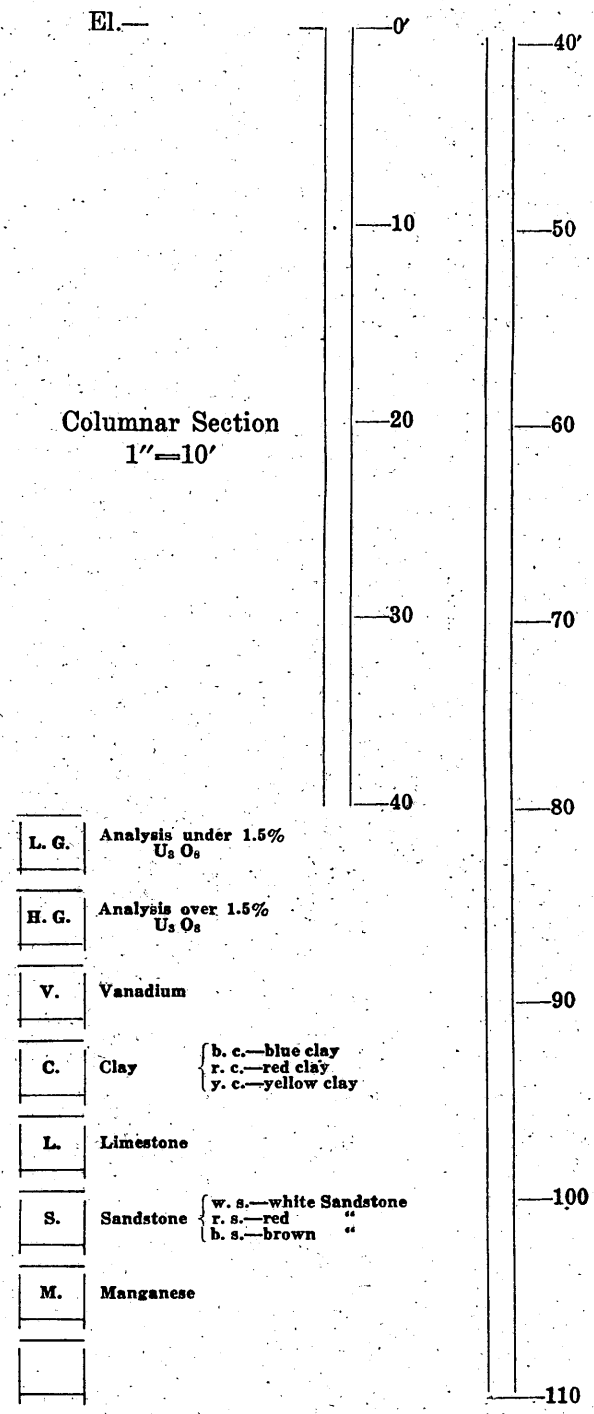
CLAIM Uranium Girl HOLE No. 688

Location _____

El.—

FROM FEET	FROM Inches	TO FEET	TO Inches	FORMATION Legend	ANALYSIS U_3O_8	ANALYSIS V_2O_5	REMARKS (Delays)
0		9		w. s.			
9		12		g. s.			
12		20		b. s.			
20		32		g. s.			
32		37		r. c.			
				wet red clay @ 37'			

Columnar Section
1″=10′



L. G.	Analysis under 1.5% U_3O_8
H. G.	Analysis over 1.5% U_3O_8
V.	Vanadium
C.	Clay { b. c.—blue clay; r. c.—red clay; y. c.—yellow clay }
L.	Limestone
S.	Sandstone { w. s.—white Sandstone; r. s.—red "; b. s.—brown " }
M.	Manganese

Total thickness of ore ____ ft. ____ inches, averaging { ____ % U_3O_8 ; ____ % V_2O_5 } Water used for this hole _____ gals.

Remarks: _____

C.D. Galyean
Joe C. Martin

3-42—B.-R.

DIAMOND DRILL RECORD REPORT

VANADIUM CORPORATION OF AMERICA

Hole started, date 11/13/53 hour _____

Hole finished, date _____ hour _____

Time required to drill this hole _____ hours

Total delays on this hole . . _____ hours

Time required to move to this hole _____ hours

Distance moved to this hole . . _____ feet

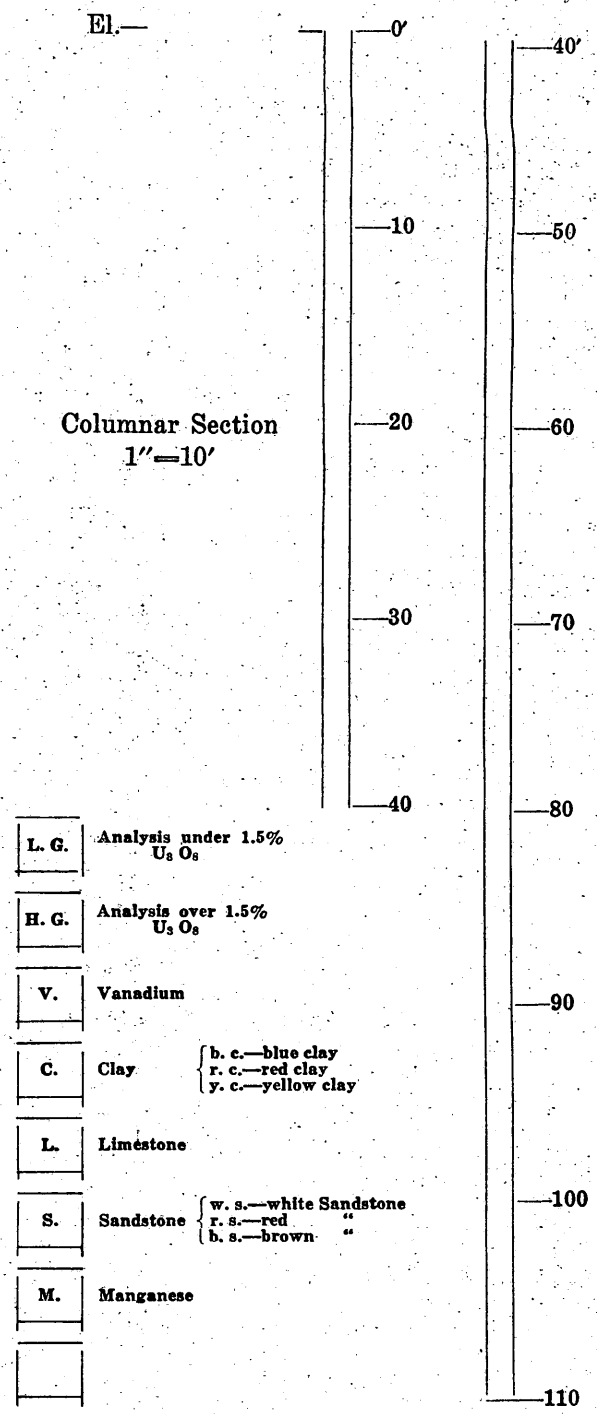
CLAIM Uranium Girl HOLE No. 689

Location _____

El.—

FROM FEET	FROM Inches	TO FEET	TO Inches	FORMATION Legend	ANALYSIS U_3O_8	ANALYSIS V_2O_5	REMARKS (Delays)
0		11		g. s.			
11		23		b. s.			
23		30		w. s.			
30		32		r. c.			
				wet red clay @ 32'			

Columnar Section
1″=10′



L. G.	Analysis under 1.5% U_3O_8
H. G.	Analysis over 1.5% U_3O_8
V.	Vanadium
C.	Clay { b. c.—blue clay; r. c.—red clay; y. c.—yellow clay }
L.	Limestone
S.	Sandstone { w. s.—white Sandstone; r. s.—red "; b. s.—brown " }
M.	Manganese

Total thickness of ore ____ ft. ____ inches, averaging { ____ % U_3O_8 ; ____ % V_2O_5 } Water used for this hole _____ gals.

Remarks: _____

C. D. Galyean
Joe C. Martin

10-51—R.-R.
Form No. VW42-G3

DIAMOND DRILL RECORD REPORT

VANADIUM CORPORATION OF AMERICA

Hole started, date 11/13/53 hour _____

Hole finished, date _____ hour _____

Time required to drill this hole _____ hours

Total delays on this hole . . _____ hours

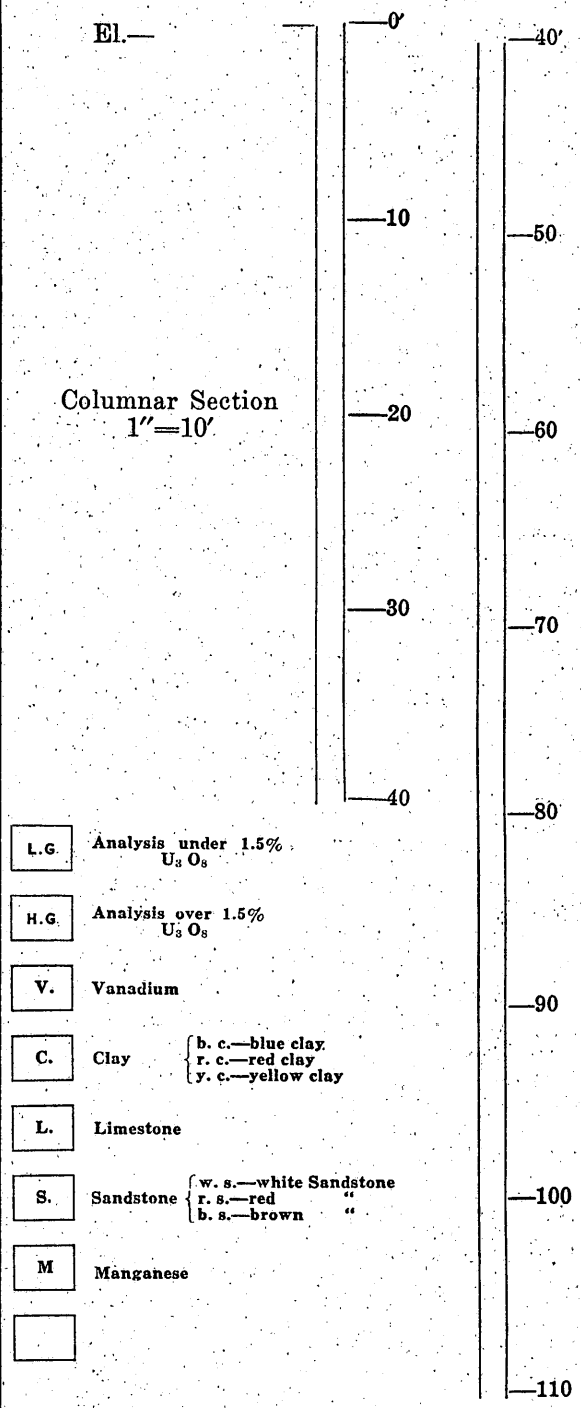
Time required to move to this hole _____ hours

Distance moved to this hole . . _____ feet

CLAIM Uranium Girl HOLE No. 690

Location _____

FROM FEET	FROM Inches	TO FEET	TO Inches	FORMATION Legend	ANALYSIS U_3O_8	ANALYSIS V_2O_5	REMARKS (Delays)
0		12		g.c.			
12		21		b.s.			
21		30		w.s.			
30		33		r.c.			
				wet red clay @ 33'			



Total thickness of ore _____ ft. _____ inches, averaging _____ % U_3O_8 _____ % V_2O_5

Water used for this hole _____ gals.

Remarks: _____

C. D. Galyean
Joe C. Martin

10-51—B.-R.
Form No. VW42-G3

DIAMOND DRILL RECORD REPORT

VANADIUM CORPORATION OF AMERICA

Hole started, date 11/13/53 hour _____

Hole finished, date _____ hour _____

Time required to drill this hole _____ hours

Total delays on this hole . . _____ hours

Time required to move to this hole _____ hours

Distance moved to this hole . . _____ feet

CLAIM Uranium Girl HOLE No. 691

Location _____

El. —

FROM FEET	FROM Inches	TO FEET	TO Inches	FORMATION Legend	ANALYSIS U_3O_8	ANALYSIS V_2O_5	REMARKS (Delays)
0		11		g.s.			
11		21		b.s.			
21		30		w.s.			
30		32		b.s.			
32		35		r.c.			
			wet red clay @ 35'				

Columnar Section
1″=10′

0′ 10 20 30 40

40′ 50 60 70 80 90 100 110

L.G.	Analysis under 1.5% U_3O_8
H.G.	Analysis over 1.5% U_3O_8
V.	Vanadium
C.	Clay { b. c.—blue clay; r. c.—red clay; y. c.—yellow clay }
L.	Limestone
S.	Sandstone { w. s.—white Sandstone; r. s.—red "; b. s.—brown " }
M	Manganese

Total thickness of ore ____ ft. ____ inches, averaging { ____ % U_3O_8 ; ____ % V_2O_5 } Water used for this hole _____ gals.

Remarks: _____

C. D. Galyean
Joe C. Martin

10-51—B.-R.
Form No. VW42-G3

DIAMOND DRILL RECORD REPORT

VANADIUM CORPORATION OF AMERICA

Hole started, date 11/13/53 hour _____

Hole finished, date _____ hour _____

Time required to drill this hole _____ hours

Total delays on this hole . . _____ hours

Time required to move to this hole _____ hours

Distance moved to this hole . . _____ feet

CLAIM Uranium Girl HOLE No. 692

Location _____

El. _____

FROM FEET	FROM Inches	TO FEET	TO Inches	FORMATION Legend	ANALYSIS U_3O_8	ANALYSIS V_2O_5	REMARKS (Delays)
0		8		g. s.			
8		20		b. s.			
20		31		w. s.			
31		33		r. c.			
				wet red clay @ 33'			

Columnar Section
1″=10′

0′ 10 20 30 40

40′ 50 60 70 80 90 100 110

L.G. Analysis under 1.5% U_3O_8

H.G. Analysis over 1.5% U_3O_8

V. Vanadium

C. Clay { b. c.—blue clay; r. c.—red clay; y. c.—yellow clay }

L. Limestone

S. Sandstone { w. s.—white Sandstone; r. s.—red "; b. s.—brown " }

M Manganese

Total thickness of ore _____ ft. _____ inches, averaging { _____ % U_3O_8 ; _____ % V_2O_5 } Water used for this hole _____ gals.

Remarks: _____

C. D. Galyean
Joe C. Miller

10-51—B.-R.
Form No. VW42-G3

DIAMOND DRILL RECORD REPORT

VANADIUM CORPORATION OF AMERICA

Hole started, date 11/13/53 hour _____

Hole finished, date _____ hour _____

Time required to drill this hole _____ hours

Total delays on this hole . . _____ hours

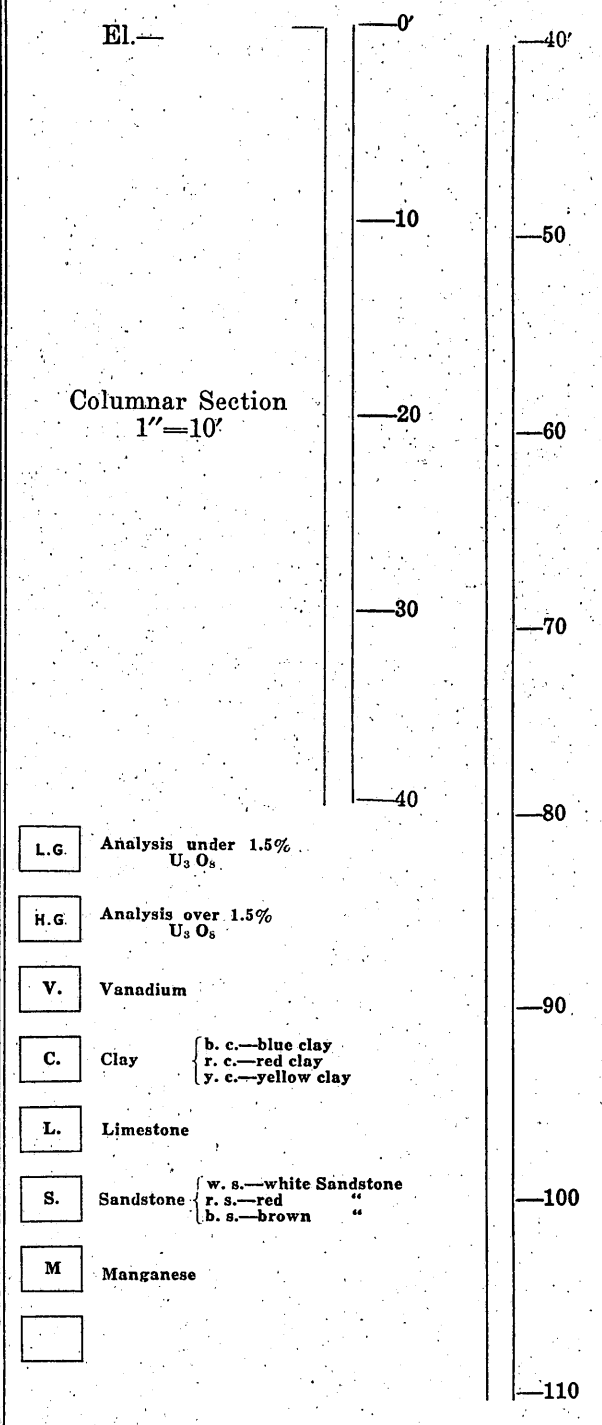
Time required to move to this hole _____ hours

Distance moved to this hole . . _____ feet

CLAIM Uranium Girl HOLE No. 693

Location _____

FROM FEET	FROM Inches	TO FEET	TO Inches	FORMATION Legend	ANALYSIS U_3O_8	ANALYSIS V_2O_5	REMARKS (Delays)
0		6		b.s.			
6		18		g.s.			
18		29		w.s.			
29		33		b.s.			
33		35		red clay			
				wet red clay @ 35'			



Total thickness of ore _____ ft. _____ inches, averaging _____ % U_3O_8 _____ % V_2O_5

Water used for this hole _____ gals.

Remarks: _____

C. D. Galyean
Joe C. Martin

10-51—B.-R.
Form No. VW42-G3

DIAMOND DRILL RECORD REPORT

VANADIUM CORPORATION OF AMERICA

Hole started, date 11/13/53 hour _____

Hole finished, date _____ hour _____

Time required to drill this hole _____ hours

Total delays on this hole . . _____ hours

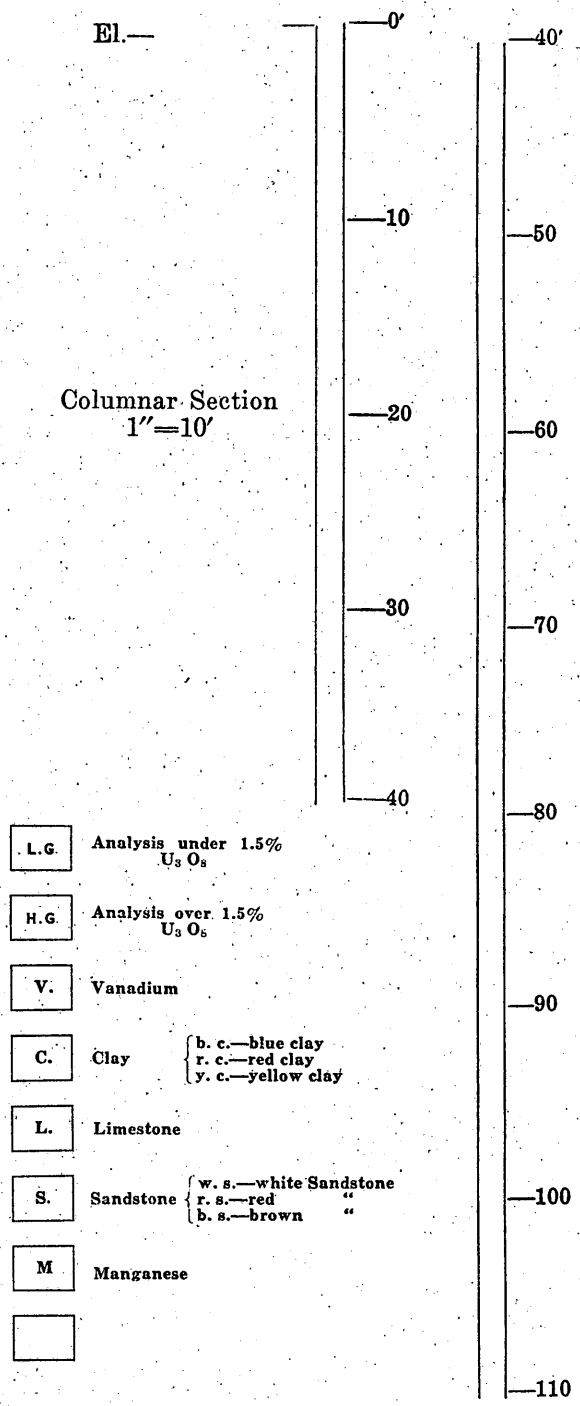
Time required to move to this hole _____ hours

Distance moved to this hole . . _____ feet

CLAIM Uranium Girl HOLE No. 694

Location _____

FROM FEET	FROM Inches	TO FEET	TO Inches	FORMATION Legend	ANALYSIS U_3O_8	ANALYSIS V_2O_5	REMARKS (Delays)
0		9		g. s.			
9		17		b. s.			
17		20		w. s.			
20		31		g. s.			
				water and mud @ 31'			



Total thickness of ore _____ ft. _____ inches, averaging _____ % U_3O_8 _____ % V_2O_5

Water used for this hole _____ gals.

Remarks: _____

C. D. Galyean
Joe. C. Martin

10-51—R.-R.
Form No. VW42-G3

DIAMOND DRILL RECORD REPORT

VANADIUM CORPORATION OF AMERICA

CLAIM Uranium Girl HOLE No. 695

Location _____

Hole started, date 11/13/53 hour _____

Hole finished, date _____ hour _____

Time required to drill this hole _____ hours

Total delays on this hole . . _____ hours

Time required to move to this hole _____ hours

Distance moved to this hole . . _____ feet

FROM FEET	FROM Inches	TO FEET	TO Inches	FORMATION Legend	ANALYSIS U_3O_8	ANALYSIS V_2O_5	REMARKS (Delays)
0		9		g. s.			
9		18		b. s.			
18		23		w. s.			
23		25		b. s.			
25		36	6	g. s.			
36	6	36	6	wet red clay			

Columnar Section
1″=10′

El.—

0′ 10 20 30 40

40′ 50 60 70 80 90 100 110

L.G.	Analysis under 1.5% U_3O_8
H.G.	Analysis over 1.5% U_3O_8
V.	Vanadium
C.	Clay { b. c.—blue clay; r. c.—red clay; y. c.—yellow clay }
L.	Limestone
S.	Sandstone { w. s.—white Sandstone; r. s.—red "; b. s.—brown " }
M	Manganese

Total thickness of ore ____ ft. ____ inches, averaging { ____ % U_3O_8 ; ____ % V_2O_5 } Water used for this hole ____ gals.

Remarks: _____

C. D. Galyean
Joe C. Martin