Surname copy 700

Murphy
Kiilsgaard
Jones
Selfridge

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

Mr. James E. Danaher
Danaher and Danaher
1940 Bunting Avenue
Grand Junction, Colorado

OCT 19 1955

Re: Docket No. DMEA-3846 (Uranium)
Hail Mary Group
Wayne County, Utah

Dear Mr. Danaher:

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 without prejudice to the property. If future work on or adjacent to your property reveals evidence which could materially alter this opinion, be assured we will be pleased to consider a new application.

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

Sincerely yours,

Frank E. Johnson

Acting Administrator

FMMurphy/gla
10-18-55

cc to: Admr.'s Reading File
Operating Committee
Docket
Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA
Code 700 Mr. Murphy DMEA Field Team, Region III (2)

P.G.H.

IF-500

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

REFERENCE SLIP

DATE 10-18-55

REFERRED TO:

1 ~~Operating Com., Rm. 4459~~
2 Mr. Johnson, Rm. 4460
3 ~~Mails & Files, Rm. 4450~~
4. _____

FOR:

____ Action	____ Recommendation
____ Approval	____ Record of ____
____ Comment	____ Referring to ____
____ Conference	____ Reply for signature of ____
____ Consideration	____ Rewriting
X Filing	____ Signature
____ Instructions	____ Suggestions
____ Investigation	X Your information
____ Initials	
____ Mailing	
____ Previous correspondence	

REMARKS: _____

Check (X) before the items needing attention.

Initials of sender.

GPO 16—63815-1

gla

DOCKET COPY

Murphy

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

WASHINGTON 25, D. C.

October 18, 1955

Summary of Proposed Project

Object:	Denial of application for exploration aid.
Docket No.:	DMEA-3846
Commodity:	Uranium
Applicant:	Danaher and Danaher 1940 Bunting Avenue Grand Junction, Colorado
Property:	Hail Mary claims Nos. 1 through 32, inclusive, situated in Secs. 25 and 36, T. 28 S., R. 16 E., Wayne County, Utah
Date of application:	May 31, 1955 (received June 3) Referred to Region III, June 30, 1955 Field Team Report submitted September 28, 1955
Amount of application:	$20,877.00

Work proposed and Estimated Costs:

32 holes, aggregating 6,505 feet of non-core and core drilling	$16,427.00	
Access roads and drill sites, bulldozer 300 hrs. @ $12/hr.	3,600.00	
Surveying	750.00	
Assay and laboratory reports	100.00	
Total estimated cost		$20,877.00
Government participation @ 75%		$15,657.75

Excerpts from Field Team Report:

The claims involved cover outcropping rims and mesas of the Shinarump and Chinle formations. One well-developed channel was observed on the property. One flank of the channel is well exposed on the cliff face. The location of the other flank is unknown

Excerpts from Field Team Report (continued):

because of talus material covering the outcrop. A thin seam of copper mineralization is present along the exposed base of the channel. No uranium or vanadium mineralization was seen, and the radiometric readings are low.

No known ore deposits occur in the surrounding area. A few holes were drilled back of the channel exposure, but the results are not known. It is likely that results of this drilling were negative or more work would have been done.

The nature of the terrain indicates that it is possible that only a small part of the channel remains, the rest having been removed by erosion. Until the existence of a complete channel is proved and its trend established, the area has no definite target for exploration.

The National Lead Co. leased the claims in 1954 and completed limited drilling, of which no records are available. There has been no production from the property.

The Field Team and field examiners recommend that the subject application be denied because they believe the proposed exploration would not result in a significant discovery.

Commodity Members' comments:

U. S. Bureau of Mines - James Paone, October 11, 1955.

Concurs in Field Team's recommendation of denial.

U. S. Geological Survey - W. P. Williams, October 13, 1955

Agrees with Field Team's recommendation of denial.

Rare and Miscellaneous Metals Division - F. M. Murphy - October 17, 1955.

Although low radiometric readings were noted near the Shinarump channel, this Division concurs in the Field Team's recommendation of denial. We agree with the field examiners that if the holes drilled back of the rim (where the channel is exposed) had indicated favorable structure, then more drilling would have been done at that time.

Ernest Wm. Ellis

Ernest Wm. Ellis, Chief
Rare and Miscellaneous
Metals Division

10/14/55 gla

IN REPLY REFER TO:

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

RECEIVED
OCT 14 1955

October 13, 1955

Memorandum

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

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

Subject: Review of Field Team Report, DMEA 3846, Donaher and Donaher, Hail Mary group of claims, Wayne County, Utah.

After field examination the examining team reports that uranium mineralization has been scanty in a poorly-defined Shinarump channel on the property.

Production history of the vicinity of the Hail Mary claims has been poor. The proposed drilling project, it seems, would not succeed in discovering new ore deposits; so I agree with the recommendation that the application be denied.

WPWilliams

W. P. Williams

IN REPLY REFER TO:

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

RECEIVED
OCT 14 1955

October 13, 1955

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W. P. Williams

WPWilliams:iml
G-10/13/55

cc: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
J. E. Crawford, 3641
J. O. Hosted, 3210

IN REPLY REFER TO:

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

RECEIVED
OCT 14 1955

October 13, 1955

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Docket file
J. E. Crawford, 3641
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IN REPLY REFER TO:

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

RECEIVED
OCT 14 1955

October 13, 1955

Memorandum

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

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

Subject: Review of Field Team Report, DMEA 3046, Donahoe and Donahoe, Nail Mary group of claims, Wayne County, Utah.

After field examination the examining team reports that uranium mineralization has been scanty in a poorly-defined Shinarump channel on the property.

Production history of the vicinity of the Nail Mary claims has been poor. The proposed drilling project, it seems, would not succeed in discovering new ore deposits; so I agree with the recommendation that the application be denied.

W. P. Williams

WPWilliams:iml
G-10/13/55

cc: Director's reading, 4212
Branch reading, 4212
DMEA (3)✓
Docket file
J. E. Crawford, 3641
J. O. Hested, 3210

10/13/55 gla

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

RECEIVED
OCT 12 1955

October 11, 1955

RECEIVED
OCT 12 1955

Memorandum

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

From: James Paone, Bureau of Mines Alternate Member
Uranium Commodity Committee

Subject: Report of Examination, DMEA Docket 3846 (Uranium), Danaher and Danaher, Hail Mary group, Wayne County, Utah

I have reviewed the report of examination, DMEA Docket 3846, and I have discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

The applicant has requested Government assistance to explore for uranium on the Hail Mary group of claims in the Millard Canyon area, Wayne County, Utah. The proposed program would consist of 6,505 feet of core and noncore drilling at a total estimated cost of $20,877.

The field examiners report that no mineralization of any consequence was observed on the subject claims and no known ore deposits exist in the Millard Canyon area. The field examiners recommend that the application for DMEA assistance be denied.

We concur in the recommendation of the field examiners that the application be denied because the discovery of significant uranium mineralization on subject claims is not very promising.

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

James Paone

James Paone

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

RECEIVED
OCT 12 1955

October 11, 1955

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

From: James Paone, Bureau of Mines Alternate Member
Uranium Commodity Committee

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The field examiners report that no mineralization of any consequence was observed on the subject claims and no known ore deposits exist in the Millard Canyon area. The field examiners recommend that the application for DMEA assistance be denied.

We concur in the recommendation of the field examiners that the application be denied because the discovery of significant uranium mineralization on subject claims is not very promising.

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James Paone

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

RECEIVED
OCT 12 1955

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Uranium Commodity Committee, Room 4445

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The applicant has requested Government assistance to explore for uranium on the Hail Mary group of claims in the Millard Canyon area, Wayne County, Utah. The proposed program would consist of 6,505 feet of core and noncore drilling at a total estimated cost of $20,877.

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We concur in the recommendation of the field examiners that the application be denied because the discovery of significant uranium mineralization on subject claims is not very promising.

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

James Paone

JPaone:et
Copy to: Br. of Rare and Precious Metals
Div. of Minerals
JPaone
JOHosted
TKilsgaard
F i l e s

10/3/55 gla

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

224 New Customhouse
Denver 2, Colorado

September 28, 1955

Memorandum

To: Secretary to the Operating Committee, Defense Minerals Exploration Administration

From: Field Team, Region III

Subject: Report of Examination, DMEA Docket 3846 (Uranium), Danaher and Danaher, Hail Mary group of claims, Wayne County, Utah.

Enclosed are the original and three copies each of the Geologic Report, Engineering Report and Joint Summary, Conclusions and Recommendations pertaining to the above application.

The examining engineer and geologist believe that there is little chance for the discovery of significant reserves of uranium by means of the proposed exploration and they recommend that the application be denied.

We concur with this recommendation.

W. M. Traver
W. M. Traver

for D R MacLaren
E. N. Harshman

Enclosures

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

TRANSMITTED
SEP 28 1955

September 21, 1955

Memorandum

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

From: Stephen R. Wilson

Subject: Docket No. DMEA-3046 (Uranium), Danaher and Danaher, Hail Mary group, Wayne County, Utah

Enclosed are the original and 10 copies of an engineering report prepared by W. E. Young covering examination of the Hail Mary claims in Wayne County, Utah. Also included are copies of a separate section, Summary, Conclusions and Recommendations, and a copy of the brochure.

The applicant has requested funds totaling $20,877 for 6,505 feet of core and noncore drilling. The claims involved cover outcropping rims and mesas of the Shinarump and Chinle formations. The Shinarump is characterized by one small channel partially exposed. No mineralization of consequence was observed by the inspecting personnel.

The examining engineer and geologist believe that the Hail Mary claims hold little promise for discovery of significant uranium mineralization, and therefore recommend denial of the request for assistance. I concur in this recommendation.

Representatives of the AEC were consulted in connection with the examination of the Hail Mary claims.

Stephen R. Wilson
Stephen R. Wilson

Enclosures

cc: W. H. King
J. B. Clemmer

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

By Carl H. Roach and W. H. Young

The Hail Mary group of uranium claims in Millard Canyon, Wayne County, Utah, was examined July 12 and 13, 1955, by DMEA personnel. An application for Government assistance in exploration under docket No. DMEA-3846 was submitted by the property owners, James E. Danaher and Tom H. Danaher. The application includes a proposed exploratory program consisting of 6,505 feet of core and noncore drilling estimated to cost $30,877.

Rocks in the vicinity of the Hail Mary claims range in age from Triassic to Jurassic, and include the Moenkopi, Shinarump, Chinle, Wingate and Kayenta formations. The mining claims involved cover outcropping rims and mesas of the Shinarump and Chinle formations. The Shinarump conglomerate is characterized by a small channel. Detail of the channel is not known because of talus covering the outcrop over part of the area. No uranium mineralization is visible on the property. A thin seam of copper mineralization is present along the exposed base of the channel. No known ore deposits occur in the area of the Hail Mary claims. A few drill holes have been drilled back of the channel exposure, but the results are not known. The holes are too widely scattered to be of value in outlining the direction of channeling.

The examining engineer and geologist believe that the Hail Mary claims hold little promise for discovery of significant uranium mineralization and therefore denial of the request for assistance is recommended.

[illegible] AND [illegible]
[illegible] MAP SURVEY
[illegible], [illegible]
[illegible]
[illegible]

Engineering Report

By [illegible]
Mining Engineer
Bureau of Mines

[illegible] AND [illegible]
[illegible] GROUP
WAYNE COUNTY, UTAH

CONTENTS

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Engineering report	
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Introduction	2
Location, topography and physical features	2
History and production	2
Ownership and extent	3
Description of the deposit	3
Geologic geneesis	4
Conclusions and recommendations	4

ILLUSTRATIONS

Fig. 1 Location map, Number and Number, Bull Hawg group, Wayne County, Utah

Fig. 2 Claim map

Fig. 3 Drill hole location map

SUMMARY

Bunsher and Bunsher made application under docket No. [illegible] for assistance in exploring the Hail Mary group of uranium claims in Millard Canyon, Wayne County, Utah. The claims cover outcropping rims and edges of the Shinarump and Chinle formations. At one location there is evidence of part of a channel in the Shinarump formation. The nature of the terrain is such that the existence of a complete channel cannot be proved without considerable expense. There are no known ore deposits in the Millard Canyon area. No mineralization of any consequence was observed on the claims.

It is recommended that the loan be denied.

INTRODUCTION

The Hail Mary group of Bunsher and Bunsher was examined July 12 and 13, 1956, by a geologist of the Geological Survey and an engineer of the Bureau of Mines. Examination was made at the request of the Regional Field Team to determine the advisability of granting a Government assistance loan. Mr. James Bunsher conducted the examining personnel over the property. The applicant proposes to explore the property by drilling at an estimated total cost of $20,577.

LOCATION, TOPOGRAPHY AND PHYSICAL FEATURES

The claims can be reached by traveling southeast from Green River, Utah, on Utah Highway 24 for a distance of 28 miles, thence southeast over unimproved dirt road to the property. The claims are in Millard

Canyon in unsurveyed Secs. 35 and 36, T. 22 S., R. 16 E. (fig. 1). The road into the area passes over the Wingate rim into Kinkaville Basin and from there enters Millard Canyon from a point near its junction with the Green River. The claims cover outcropping rims and areas of the Shinarump and Chinle formations with vertical walls of Wingate and Kayenta formations beyond.

HISTORY AND PRODUCTION

The claims, located during 1954, are held by right of location by Bamber and Bamber. The National Lead Co. leased the claims in 1954 and completed limited drilling, of which no records are available. Logs of the drill holes were requested by the examiners from personnel of the National Lead Co., but were not forwarded as promised.

There has been no production from the property. There is no measured or stockpiled ore.

OWNERSHIP AND ACCESS

The property involved consists of the following unpatented mining claims: Hail Mary Nos. 1 to 20 (fig. 2). The book, page and date of locations are listed in the application.

DESCRIPTION OF THE DEPOSIT

The claims involved cover outcropping rims and areas of the Shinarump and Chinle formations. One well-developed channel was observed on the property. One flank of the channel is well exposed on the cliff face.

The location of the other flank is unknown because of talus material covering the outcrop. A thin seam of copper mineralization is present along the exposed base of the channel. No sulphide or vanadium mineralization was seen, and the radiometric readings are low.

No known ore deposits occur in the mineralized area. A few drill holes were drilled back of the channel exposure, but the results are not known. The holes are too widely scattered to be of value in outlining the direction of channeling.

PROJECT PROPOSALS

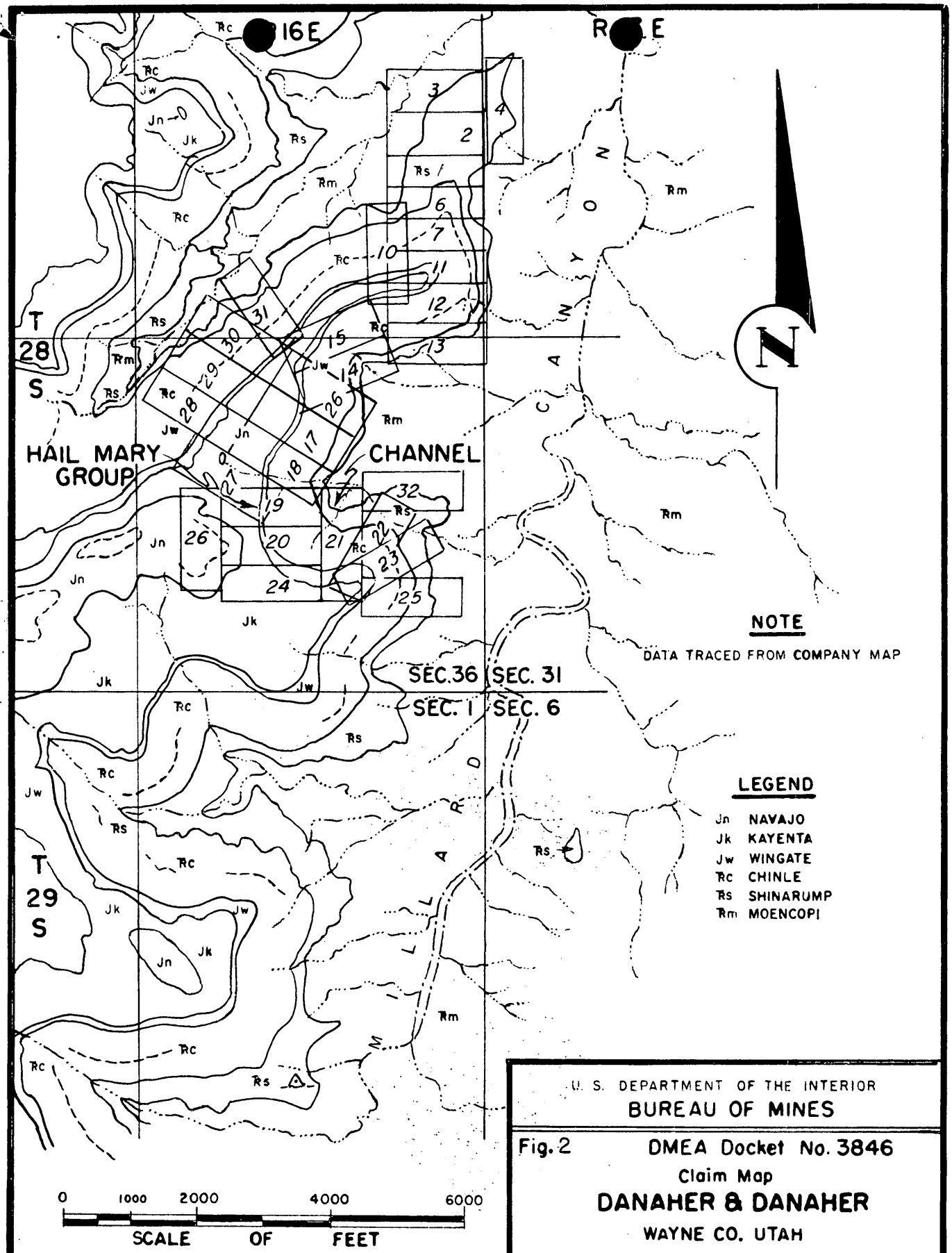
The applicant proposes to explore the area by drilling. It is estimated that a total of 50 holes aggregating 6,000 feet will be needed to delineate the channel. A row of seven holes, spaced at 50-foot intervals approximately 150 feet behind the rim, is proposed to indicate the trend of the channel. Five additional fences of five holes each, spaced at 200-foot intervals along the channel direction, are proposed. The depth of drill holes will increase in each successive fence back of the rim (Fig. 3).

Three bids for drilling and three bids for bulldozer work were presented. Based on the lowest bid, the total estimated cost of the proposed project is $28,077.

CONCLUSIONS AND RECOMMENDATIONS

No known ore deposits occur in the Hilland Canyon area. No mineralization of any consequence was observed on the claims involved. Part of

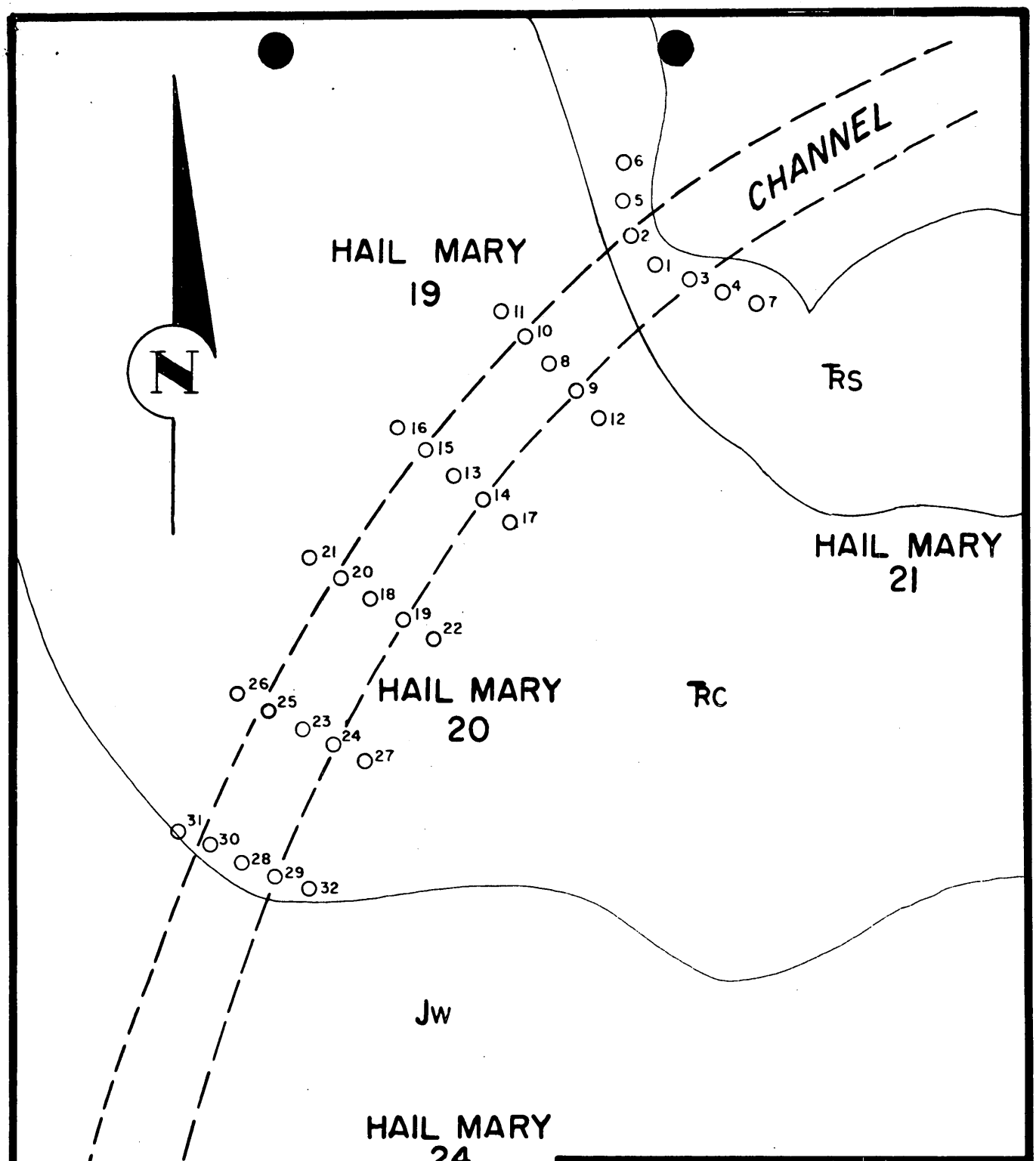
a channel is exposed on an overhanging bluff on the property. Some drilling has been done in search of wooden mineralization back of the rim. No information concerning this drilling is available, but it is likely that results were negative or more work would have been done. Because of the fact that there is no known wooden mineralization in the area, it is recommended that the hole be dated. The nature of the terrain indicates that it is possible that only a small part of the channel remains, the rest having been removed by erosion. Until the existence of a complete channel is proved and its trend established, the area has no definite target for exploration.



U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Fig. 2 DMEA Docket No. 3846
Claim Map
DANAHER & DANAHER
WAYNE CO. UTAH

ENGINEER: *W. E. YOUNG*	DATE: SEP. 9, 1955
TRACED: SEP. 1955; A.P.T.S.	1900 - 347 - E
CHECKED:	



HOLE NO.	DEPTH	TOTAL FOOTAGE
1, 2, 3, 4, 5, 6, 7	65	455
8, 9, 10, 11, 12	100	500
13, 14, 15, 16, 17	135	675
18, 19, 20, 21, 22	225	1125
23, 24, 25, 26, 27	325	1625
28, 29, 30, 31, 32	425	2125
		6505

0 100 200 400
SCALE OF FEET

U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Fig. 3 DMEA Docket No. 3846
Location of Drill Holes
DANAHER & DANAHER
WAYNE CO. UTAH

ENGINEER: *W. E. YOUNG*	DATE: SEP. 12, 1955
TRACED: SEP., 1955; A.P.T.S.	1900 - 348 - E
CHECKED:	

IN REPLY REFER TO:
DMEA
Date Rec'd.
AUG 23 1955
BUREAU OF MINES
Denver, Colorado

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

August 22, 1955

TRANSMITTED
SEP 28 1955

Memorandum

To: Executive Officer, Field Team, Region III

From: E. N. Harshman

Subject: DMEA Docket 3846 (Uranium), Danaher and Danaher, Hail Mary group of claims, Wayne County, Utah

Enclosed are 10 copies of a geologic report by Carl H. Roach, U. S. Geological Survey, covering his examination of the subject property.

The applicant proposes to explore the extension of an ill-defined channel in the Shinarump conglomerate by 32 drill holes for a total of 6,505 feet of drilling.

Roach reports that there are no known ore deposits in the claim area, and no known uranium-bearing outcrops on the claims. The channel proposed for exploration is poorly exposed but appears to be an intraformational channel with little or no channel scour in the underlying Moenkopi formation. Recognition of the channel in drill holes will be difficult.

It is concluded that there is little chance of finding significant uranium deposits by the proposed exploration, and denial of the application for exploration assistance is recommended.

I concur with this recommendation.

E. N. Harshman

E. N. Harshman
Member, Field Team

Enclosures (10)

ENHarshman:arh

MINERAL DEPOSITS
RECEIVED
AUG 22 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
SEP 2 - 1955

August 19, 1955

TRANSMITTED
SEP 28 1955

Memorandum

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

From: J. William ~~Harshman~~ Hasler

Subject: DMEA 3846, Danaher and Danaher, Hail Mary group of claims, Wayne County, Utah

Enclosed are 12 copies of a geologic report and accompanying maps on the Hail Mary group of claims, Wayne County, Utah, as well as the brochure on the subject property.

Danaher and Danaher applied for Government assistance May 31, 1955, to explore for uranium on the Hail Mary group of claims in the Millard Canyon area, Wayne County, Utah.

The application was referred to the field and an examination was made on July 12 and 13 by the examining field team. Results of the field examination showed that the accessibility of the subject property is very poor and that there has been no uranium production from the area, and that very few mineralized outcrops were observed in the area. The channel proposed for exploration by the applicant is not well defined and could not be very readily followed or delineated by drilling. Because of the fact that there are very few mineralized outcrops on the subject group of claims and that there are very few chances of finding significant uranium deposits, it is concluded that the chance of finding ore is not good and it is, therefore, recommended that Government assistance on the subject property be denied.

I concur with the conclusions and recommendations of the examining field team.

J. William Hasler

J. William Hasler,
Geologist

JWH/mlr
Enclosures

UNITED STATES DEPARTMENT OF THE INTERIOR

DOUGLAS McKAY, SECRETARY

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

DMEA 3846, Danaher and Danaher, Hail Mary group of claims,
Wayne County, Utah

Uranium

Geologic Report

by

Carl H. Roach
U. S. Geological Survey

August 12, 1955

DMEA 3846

INTRODUCTION

Danaher and Danaher applied for Government assistance (DMEA 3846) on May 31, 1955, to explore for uranium deposits on their Hail Mary group of claims in secs. 25 and 36, T. 28 S., R. 16 E. The claims are in the Millard Canyon area, Utah, and can be reached by traveling 38 miles southwest of Green River, Utah, on Utah Highway 24, then 112 miles southeast by very poor dirt road to the property (fig. 1).

The Hail Mary group of claims was examined on July 12 and 13, 1955, by Carl H. Roach, geologist, U. S. Geological Survey, and W. E. Young, mining engineer, U. S. Bureau of Mines. Frank Byers, U. S. Geological Survey, and Jim Danaher, Danaher and Danaher, accompanied the DMEA examining team during the field examination.

This application has been discussed with the U. S. Atomic Energy Commission, Exploration Division, Grand Junction Operations Office, and their advice has been considered in evaluating the property.

GEOLOGY

The rocks in the vicinity of the Danaher and Danaher property in Millard Canyon range in age from Triassic to Jurassic (fig. 2). The formations in ascending order are: the Moenkopi, the Shinarump conglomerate, the Chinle, the Wingate sandstone of Triassic age, and the Kayenta of Jurassic age.

The Triassic Moenkopi formation consists dominantly of alternating chocolate brown siltstones and mudstones with minor amounts of fine-grained sandstones. The formation is thin-bedded with beds usually less than 1 foot thick, and the bedding is very regular. The Moenkopi formation is about 400 feet thick in the area.

The Triassic Shinarump conglomerate is about 50 feet thick in the Millard Canyon area, and consists dominantly of interbedded lenses of conglomerate and coarse-grained sandstone. The contact between the Shinarump conglomerate and the underlying Moenkopi formation is slightly irregular, but very few well-defined channels can be observed where the overlying Shinarump conglomerate has scoured into the underlying Moenkopi formation. Very little gray-green mudstone alteration is associated with the Shinarump conglomerate in the Millard Canyon area. Fossil wood is abundant near the base of the conglomerate.

The Triassic Chinle formation is about 400 feet thick, and consists mostly of interbedded red shales and fine-grained sandstones. The lower half of the formation consists dominantly of shale. A 50-foot bed of conglomeratic sandstone occurs in the upper third of the formation.

The Triassic Wingate sandstone overlies the Chinle formation, and is about 325 feet thick near the Danaher and Danaher property. The Wingate consists entirely of fine- to medium-grained sandstone, and is light brown- to buff colored on outcrop. The Jurassic (?) Kayenta formation overlies the Wingate sandstone and is about 275 feet thick in the Millard Canyon area. The Kayenta formation consists mainly of lenticular sandstones with some interbedded shale and conglomerate.

ORE DEPOSITS

No ore deposits are known to occur in the Millard Canyon area. During the field examination of the Danaher and Danaher property, no mineralized material was observed anywhere in the area. Many small masses of mineralized material and a few small ore bodies occur in the Mineral Canyon area east of the Green River, about 12 miles northeast of the Millard Canyon area. The production from these mines is small and is low grade. The potential resources of the Millard Canyon area are undoubtedly low, and the chances of discovering significant deposits in this area are not good.

On the Hail Mary No. 21 claim (fig.2), the Shinarump conglomerate is characterized by what appears to be a small channel. The detail of the channel is unknown because of talus material covering the outcrops. No uranium or vanadium minerals were observed in the channel, but sparse amounts of secondary copper minerals occur on fractures in the underlying mudstone. Actually, most of the channeling is intraformational and very little scouring appears to have occurred in the underlying Moenkopi formation. There is little chance that this channel could be easily detected by drilling and its subsurface extent determined. Inasmuch as no uranium or vanadium mineralization is known in the immediate area, there is little chance that significant deposits will be found in this channel.

PROPOSED EXPLORATION

The applicant proposes to explore the subsurface extension of a channel in the Shinarump conglomerate by fence drilling. Thirty-two holes are proposed for a total of 6,505 feet. The first fence would be about 50 feet behind the Shinarump bench and would contain seven drill holes on 50-foot centers to delineate the trend of the channel. Successive fences would be spaced at 200-foot intervals until the Wingate sandstone rim is reached (fig. 3).

SUMMARY AND RECOMMENDATIONS

Danaher and Danaher propose to explore their Hail Mary group of claims in the Millard Canyon area, Wayne County, Utah. They propose to explore the subsurface extension of a channel in the Shinarump conglomerate by fence-type drilling. The proposed plan would cost about $20,500 and would require about 6,605 feet of drilling. Accessibility to the property is very poor, and no uranium production and few mineralized outcrops are known in the general area. The nearest production is in Mineral Canyon about 12 miles northeast of the property. The channel that the applicant proposes to explore is not well defined and could not easily be followed or delineated by drilling.

Because of the reasons discussed above, it is believed that there is little chance that the channel on the Hail Mary group of claims will contain significant uranium deposits. It is recommended, therefore, that Government assistance in the proposed exploration be denied.

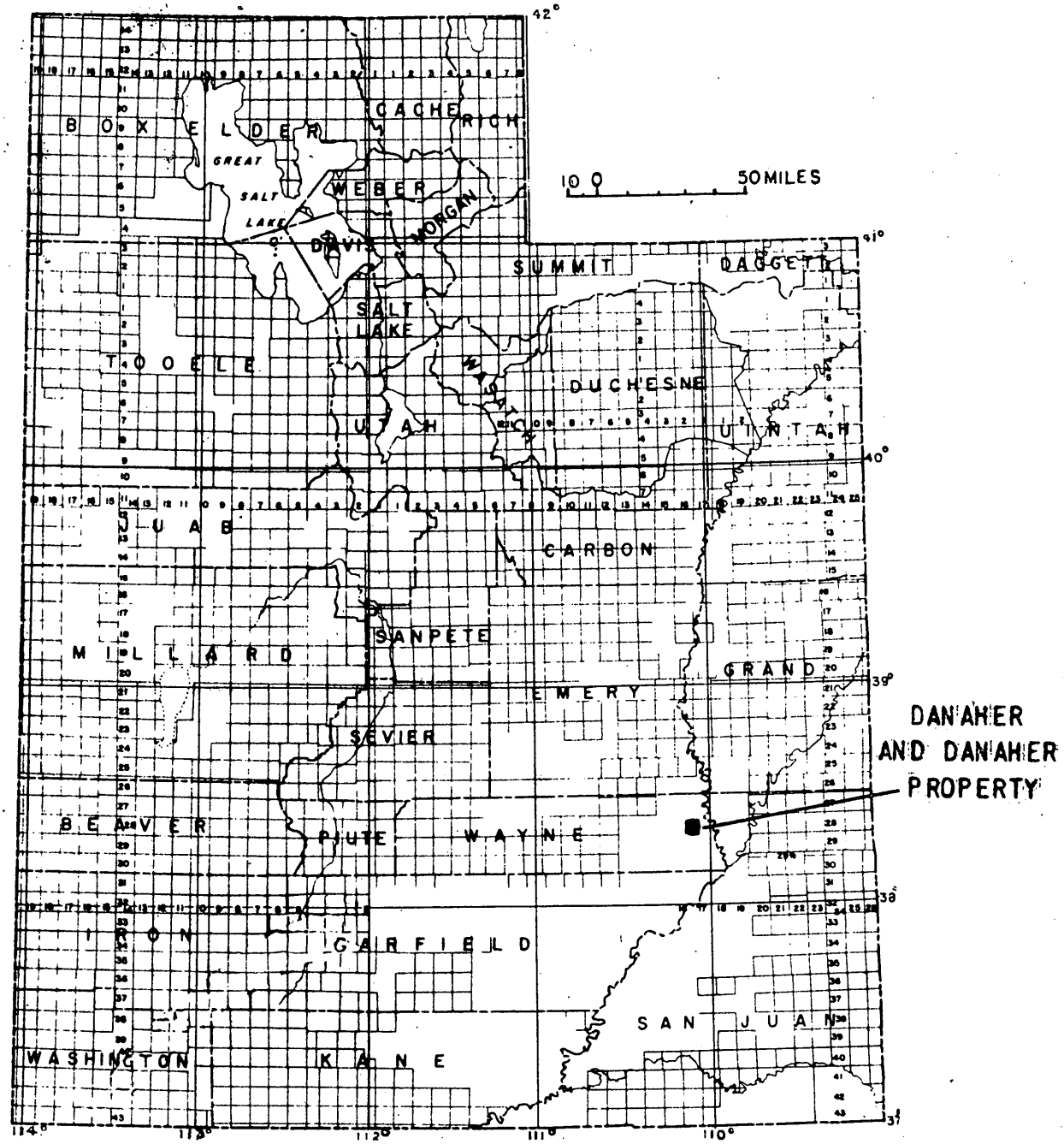
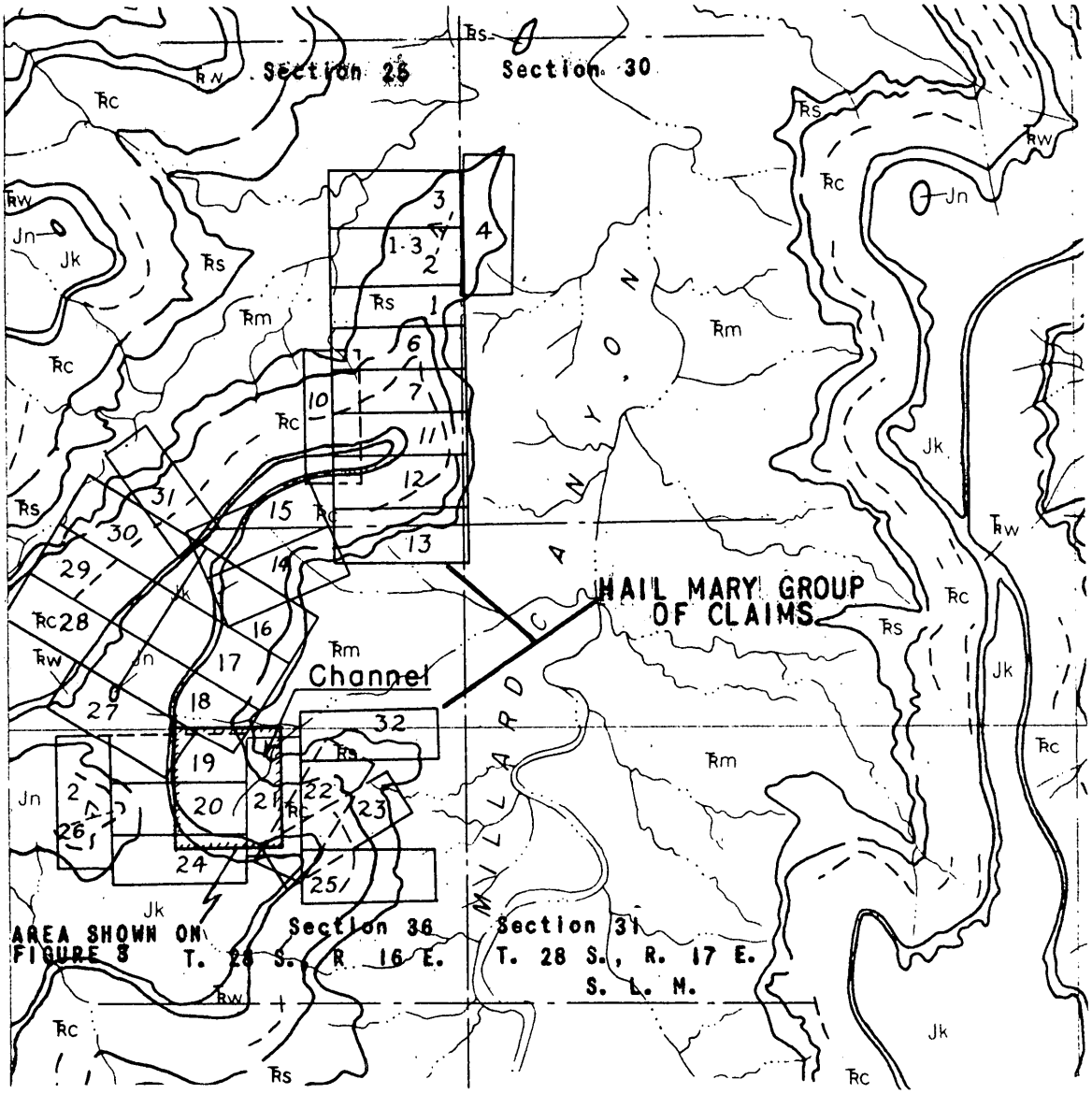


Figure 1. INDEX MAP OF UTAH SHOWING LOCATION OF DANAHER AND DANAHER PROPERTY, MILLARD CANYON AREA, WAYNE COUNTY, UTAH



EXPLANATION

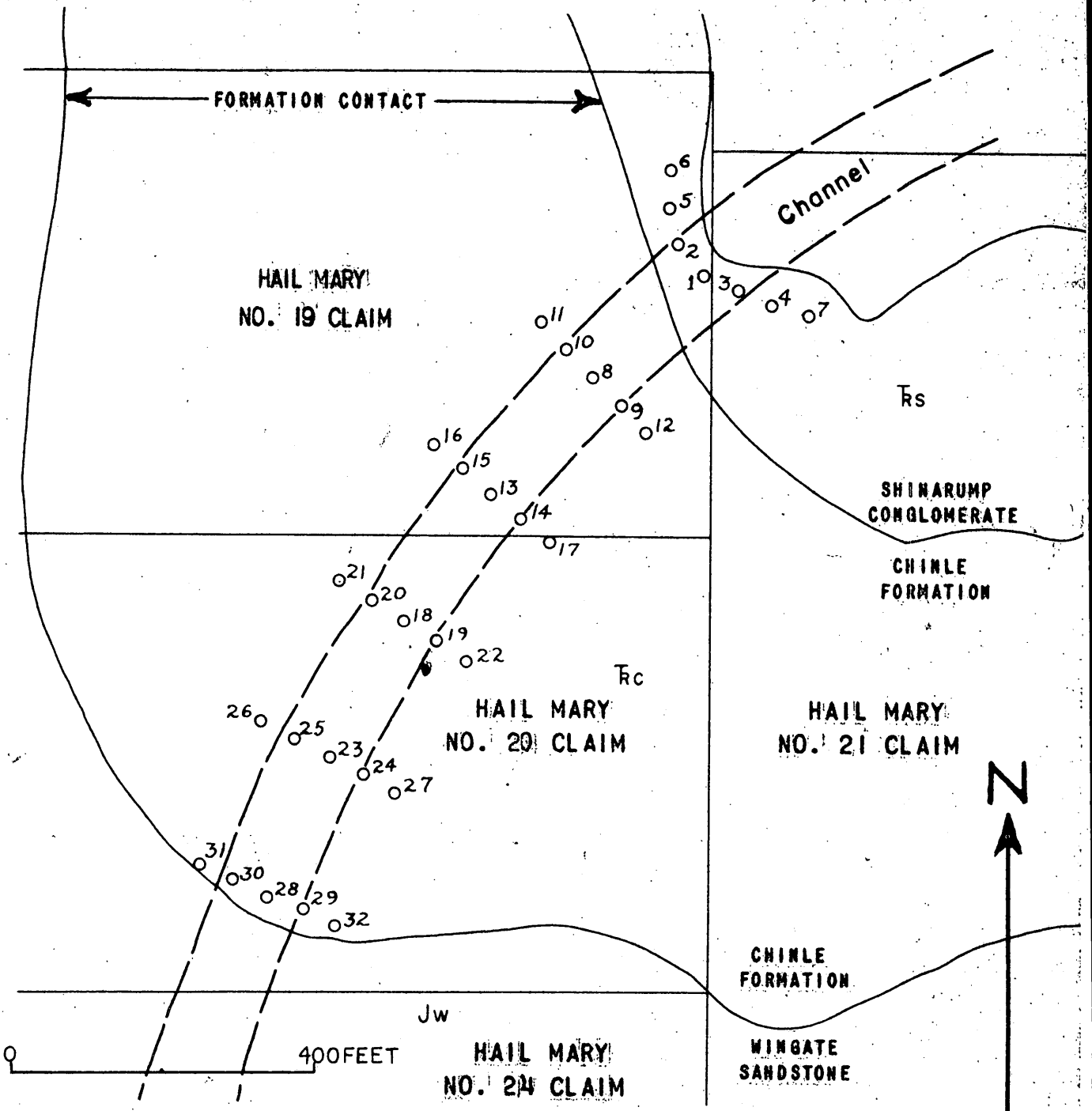
Jn	JURASSIC NAVAJO SANDSTONE
Jk	JURASSIC(?) KAYENTA FORMATION
Trw	TRIASSIC WINGATE SANDSTONE
Trc	TRIASSIC CHINLE FORMATION
Trs	TRIASSIC SHINARUMP CONGLOMERATE
Trm	TRIASSIC MOENKOPI FORMATION
5	STRIKE AND DIP OF BEDS

Note: GEOLOGY FROM U.S. GEOLOGICAL SURVEY PHOTOGEOLOGIC QUADRANGLE MAP ORANGE CLIFFS 8.
CLAIM BOUNDARIES AND LAND LINES FROM APPLICANTS MAP

N

0 4000 FEET

Figure 2. GEOLOGIC MAP OF DANAHER AND DANAHER PROPERTY, MILLARD CANYON AREA WAYNE COUNTY, UTAH



EXPLANATION

30 LOCATION OF PROPOSED DRILL HOLE

BOUNDARY OF INFERRED CHANNEL

Note: LOCATION OF DRILL-HOLE SITES TAKEN FROM MAP SUBMITTED BY APPLICANT

Figure 3: GEOLOGIC MAP SHOWING PROPOSED DRILL SITES ON CHANNEL INDICATED ON Figure 2, DANAHER AND DANAHER PROPERTY
WAYNE COUNTY, UTAH

10/10/55 gla

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

RECEIVED
OCT 1955

224 New Customhouse
Denver 2, Colorado

September 28, 1955

Memorandum

To: Secretary to the Operating Committee, Defense Minerals Exploration Administration

From: Field Team, Region III

Subject: Report of Examination, DMEA Docket 3846 (Uranium), Danaher and Danaher, Hail Mary group of claims, Wayne County, Utah.

Enclosed are the original and three copies each of the Geologic Report, Engineering Report and Joint Summary, Conclusions and Recommendations pertaining to the above application.

The examining engineer and geologist believe that there is little chance for the discovery of significant reserves of uranium by means of the proposed exploration and they recommend that the application be denied.

We concur with this recommendation.

W. M. Traver
W. M. Traver

for D R Macharen
E. N. Harshman

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
10-7-55
(Date)

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

TRANSMITTED
SEP 28 1955

RECEIVED
OCT 3 1955

September 21, 1955

Memorandum

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

From: Stephen R. Wilson

Subject: Docket No. DMEA-3846 (Uranium), Danaher and Danaher, Hail Mary group, Wayne County, Utah

Enclosed are the original and 10 copies of an engineering report prepared by W. E. Young covering examination of the Hail Mary claims in Wayne County, Utah. Also included are copies of a separate section, Summary, Conclusions and Recommendations, and a copy of the brochure.

The applicant has requested funds totaling $20,877 for 6,505 feet of core and noncore drilling. The claims involved cover outcropping rims and mesas of the Shinarump and Chinle formations. The Shinarump is characterized by one small channel partially exposed. No mineralization of consequence was observed by the inspecting personnel.

The examining engineer and geologist believe that the Hail Mary claims hold little promise for discovery of significant uranium mineralization, and therefore recommend denial of the request for assistance. I concur in this recommendation.

Representatives of the AEC were consulted in connection with the examination of the Hail Mary claims.

Stephen R Wilson
Stephen R. Wilson

Enclosures

cc: W. H. King
J. B. Clemmer

Approved by
DMEA Executive Committee
10-7-55
(date)

Reviewed by
DMEA OPERATING COMMITTEE
10-7-55
(date)

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

By Carl H. Roach and W. E. Young

The Hail Mary group of uranium claims in Millard Canyon, Wayne County, Utah, was examined July 12 and 13, 1955, by DMEA personnel. An application for Government assistance in exploration under docket No. DMEA-3846 was submitted by the property owners, James E. Danaher and Tom H. Danaher. The application includes a proposed exploratory program consisting of 6,505 feet of core and noncore drilling estimated to cost $20,877.

Rocks in the vicinity of the Hail Mary claims range in age from Triassic to Jurassic, and include the Moenkopi, Shinarump, Chinle, Wingate and Kayenta formations. The mining claims involved cover outcropping rims and mesas of the Shinarump and Chinle formations. The Shinarump conglomerate is characterized by a small channel. Detail of the channel is not known because of talus covering the outcrop over part of the area. No uranium mineralization is visible on the property. A thin seam of copper mineralization is present along the exposed base of the channel. No known ore deposits occur in the area of the Hail Mary claims. A few drill holes have been drilled back of the channel exposure, but the results are not known. The holes are too widely scattered to be of value in outlining the direction of channeling.

The examining engineer and geologist believe that the Hail Mary claims hold little promise for discovery of significant uranium mineralization and therefore denial of the request for assistance is recommended.

DANAHER AND DANAHER
HAIL MARY GROUP
WAYNE COUNTY, UTAH
DMEA-3846
Uranium

Engineering Report

By W. E. Young
Mining Engineer
Bureau of Mines

DATA CONTROL SECTION
10-7-55
(date)

DANAHER AND DANAHER
HAIL MARY GROUP
WAYNE COUNTY, UTAH

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Engineering report	
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Introduction	2
Location, topography and physical features	2
History and production	3
Ownership and extent	3
Description of the deposit	3
Project proposals	4
Conclusions and recommendations	4

ILLUSTRATIONS

Fig. 1 Location map, Danaher and Danaher, Hail Mary group, Wayne County, Utah
Fig. 2 Claim map
Fig. 3 Drill hole location map

SUMMARY

Danaher and Danaher made application under docket No. DMEA-3846 for assistance in exploring the Hail Mary group of uranium claims in Millard Canyon, Wayne County, Utah. The claims cover outcropping rims and mesas of the Shinarump and Chinle formations. At one location there is evidence of part of a channel in the Shinarump formation. The nature of the terrain is such that the existence of a complete channel cannot be proved without considerable expense. There are no known ore deposits in the Millard Canyon area. No mineralization of any consequence was observed on the claims.

It is recommended that the loan be denied.

INTRODUCTION

The Hail Mary group of Danaher and Danaher was examined July 12 and 13, 1955, by a geologist of the Geological Survey and an engineer of the Bureau of Mines. Examination was made at the request of the Regional Field Team to determine the advisability of granting a Government assistance loan. Mr. James Danaher conducted the examining personnel over the property. The applicant proposes to explore the property by drilling at an estimated total cost of $20,877.

LOCATION, TOPOGRAPHY AND PHYSICAL FEATURES

The claims can be reached by traveling southwest from Green River, Utah, on Utah Highway 24 for a distance of 38 miles, thence southeast over unimproved dirt road to the property. The claims are in Millard

Canyon in unsurveyed Secs. 25 and 36, T. 28 S., R. 16 E. (fig. 1). The road into the area passes over the Wingate rim into Elaterite Basin and from there enters Millard Canyon from a point near its junction with the Green River. The claims cover outcropping rims and mesas of the Shinarump and Chinle formations with vertical walls of Wingate and Kayenta formations beyond.

HISTORY AND PRODUCTION

The claims, located during 1954, are held by right of location by Danaher and Danaher. The National Lead Co. leased the claims in 1954 and completed limited drilling, of which no records are available. Logs of the drill holes were requested by the examiners from personnel of the National Lead Co., but were not forwarded as promised.

There has been no production from the property. There is no measured or stockpiled ore.

OWNERSHIP AND EXTENT

The property involved consists of the following unpatented mining claims: Hail Mary Nos. 1 to 32 (fig. 2). The book, page and date of location are listed in the application.

DESCRIPTION OF THE DEPOSIT

The claims involved cover outcropping rims and mesas of the Shinarump and Chinle formations. One well-developed channel was observed on the property. One flank of the channel is well exposed on the cliff face.

The location of the other flank is unknown because of talus material covering the outcrop. A thin seam of copper mineralization is present along the exposed base of the channel. No uranium or vanadium mineralization was seen, and the radiometric readings are low.

No known ore deposits occur in the surrounding area. A few drill holes were drilled back of the channel exposure, but the results are not known. The holes are too widely scattered to be of value in outlining the direction of channeling.

PROJECT PROPOSALS

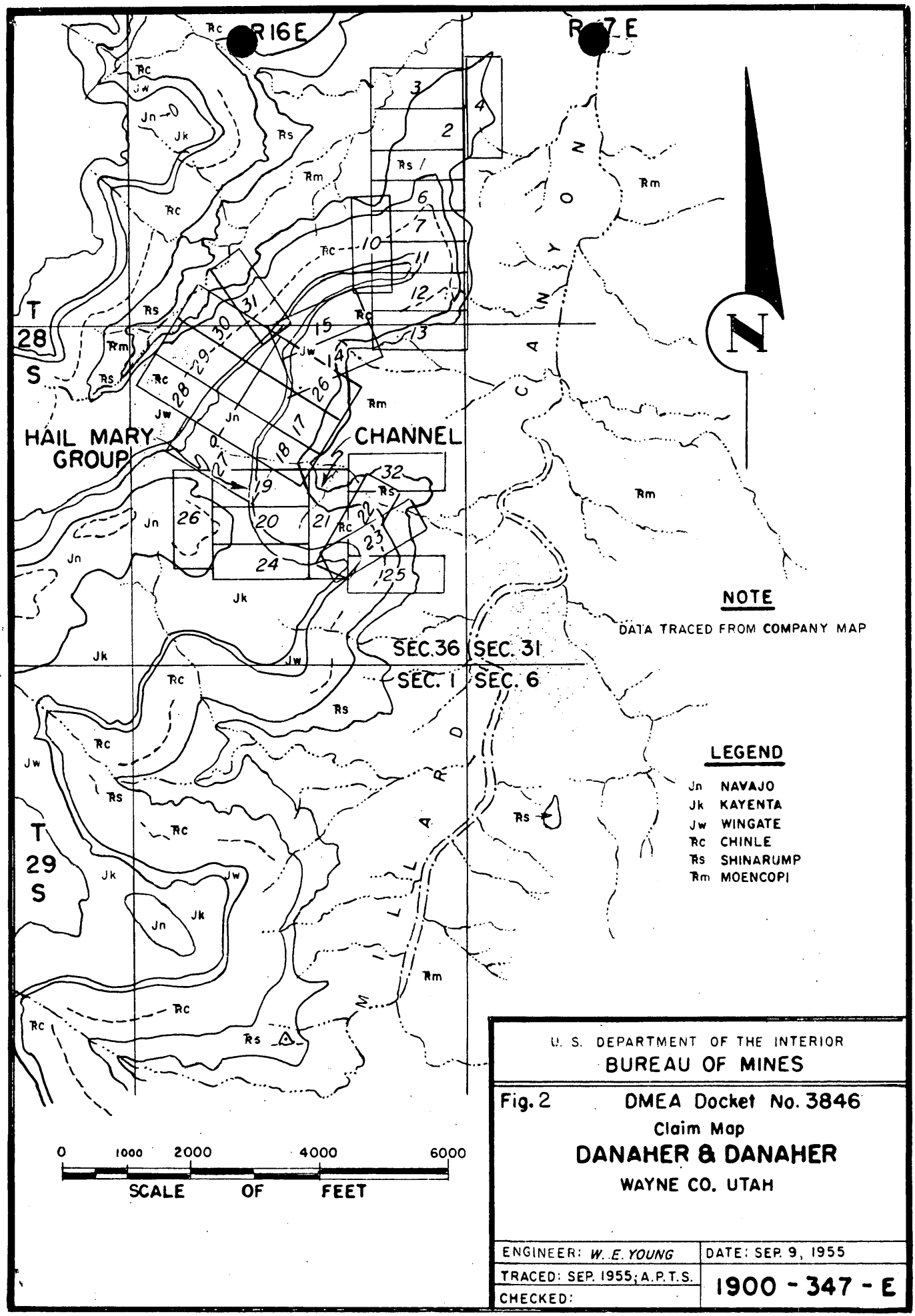
The applicant proposes to explore the area by drilling. It is estimated that a total of 32 holes aggregating 6,505 feet will be needed to delineate the channel. A row of seven holes, spaced at 50-foot intervals approximately 100 feet behind the rim, is proposed to indicate the trend of the channel. Five additional fences of five holes each, spaced at 200-foot intervals along the channel direction, are proposed. The depth of drill holes will increase in each successive fence back of the rim (fig. 3).

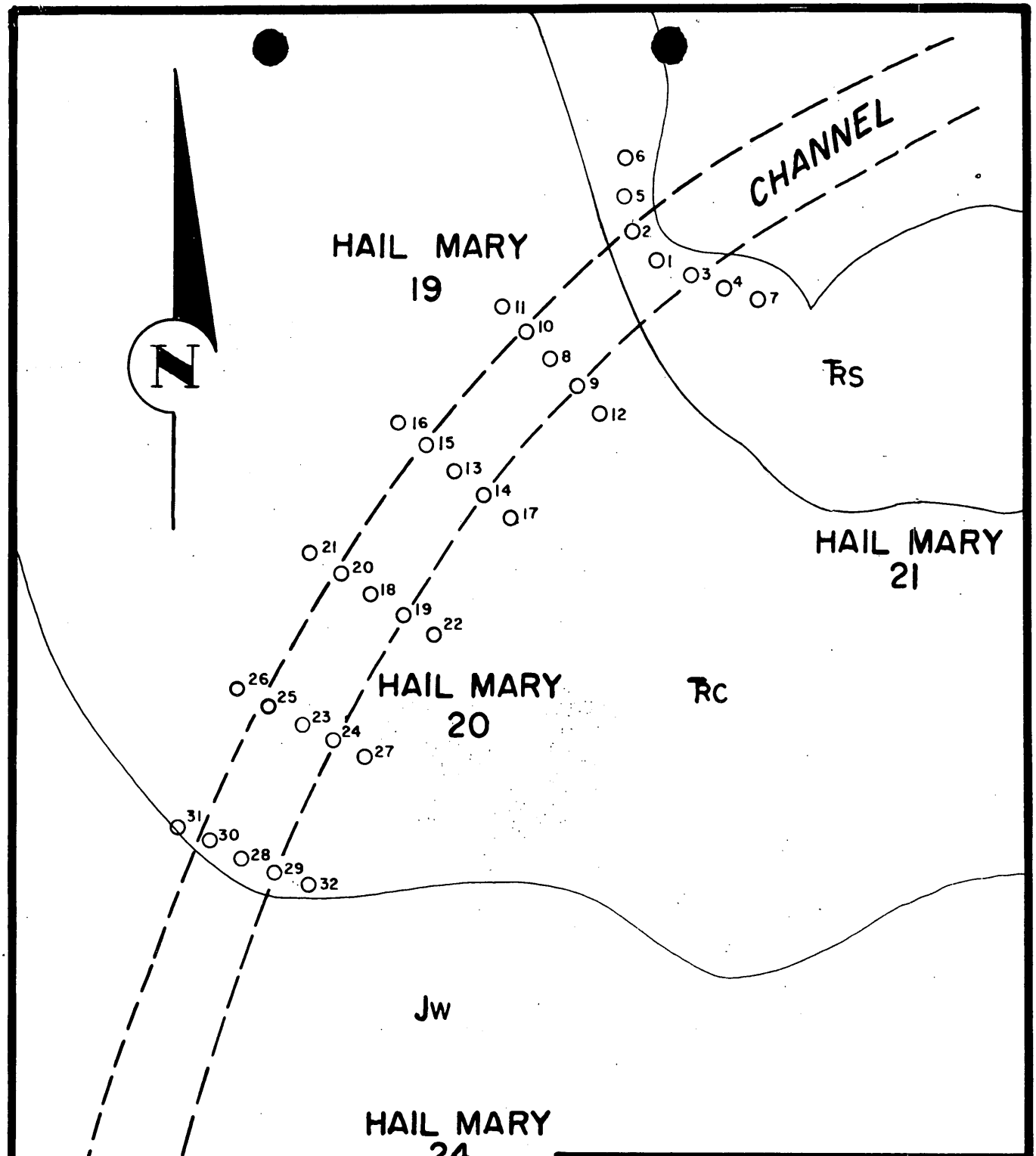
Three bids for drilling and three bids for bulldozer work were procured. Based on the lowest bid, the total estimated cost of the proposed project is $20,877.

CONCLUSIONS AND RECOMMENDATIONS

No known ore deposits occur in the Millard Canyon area. No mineralization of any consequence was observed on the claims involved. Part of

a channel is exposed on an outcropping bluff on the property. Some drilling has been done in search of uranium mineralization back of the rim. No information concerning this drilling is available, but it is likely that results were negative or more work would have been done. Because of the fact that there is no known uranium mineralization in the area, it is recommended that the loan be denied. The nature of the terrain indicates that it is possible that only a small part of the channel remains, the rest having been removed by erosion. Until the existence of a complete channel is proved and its trend established, the area has no definite target for exploration.


R16E
R17E
T 28 S
T 29 S
HAIL MARY GROUP
CHANNEL
SEC.36
SEC. 31
SEC. 1
SEC. 6
N
NOTE
DATA TRACED FROM COMPANY MAP
LEGEND
Jn NAVAJO
Jk KAYENTA
Jw WINGATE
Rc CHINLE
Rs SHINARUMP
Rm MOENCOPI
0 1000 2000 4000 6000
SCALE OF FEET
U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
Fig. 2
DMEA Docket No. 3846
Claim Map
DANAHER & DANAHER
WAYNE CO. UTAH
ENGINEER: W. E. YOUNG
DATE: SEP. 9, 1955
TRACED: SEP. 1955; A.P.T.S.
CHECKED:
1900 - 347 - E



HOLE NO.	DEPTH	TOTAL FOOTAGE
1, 2, 3, 4, 5, 6, 7	65	455
8, 9, 10, 11, 12	100	500
13, 14, 15, 16, 17	135	675
18, 19, 20, 21, 22	225	1125
23, 24, 25, 26, 27	325	1625
28, 29, 30, 31, 32	425	2125
		6505

0 100 200 400
SCALE OF FEET

U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Fig. 3 DMEA Docket No. 3846
Location of Drill Holes
DANAHER & DANAHER
WAYNE CO. UTAH

ENGINEER: *W. E. YOUNG*	DATE: SEP. 12, 1955
TRACED: SEP., 1955; A.P.T.S.	1900 - 348 - E
CHECKED:	

RECEIVED
OCT 3 - 1955

IN REPLY REFER TO:
DMEA
Date Rec'd.
AUG 29 1955
BUREAU OF MINES
Denver, Colorado

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

August 22, 1955

RECEIVED
SEP 2 - 1955

TRANSMITTED
SEP 28 1955

Memorandum

To: Executive Officer, Field Team, Region III

From: E. N. Harshman

Subject: DMEA Docket 3846 (Uranium), Danaher and Danaher, Hail Mary group of claims, Wayne County, Utah

Enclosed are 10 copies of a geologic report by Carl H. Roach, U. S. Geological Survey, covering his examination of the subject property.

The applicant proposes to explore the entension of an ill-defined channel in the Shinarump conglomerate by 32 drill holes for a total of 6,505 feet of drilling.

Roach reports that there are no known ore deposits in the claim area, and no known uranium-bearing outcrops on the claims. The channel proposed for exploration is poorly exposed but appears to be an intraformational channel with little or no channel scour in the underlying Moenkopi formation. Recognition of the channel in drill holes will be difficult.

It is concluded that there is little chance of finding significant uranium deposits by the proposed exploration, and denial of the application for exploration assistance is recommended.

I concur with this recommendation.

E. N. Harshman

E. N. Harshman
Member, Field Team

Enclosures (10)

ENHarshman:arh

Referred by
DMEA OPERATING COMMITTEE

(6080)

TRANSMITTED

SEP 28 1955

MINERAL DEPOSITS
DMEA
RECEIVED

AUG 22 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

August 19, 1955

Memorandum

RECEIVED
OCT

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

From: J. William ~~Harshman~~ Hasler

Subject: DMEA 3846, Danaher and Danaher, Hail Mary group of claims, Wayne County, Utah

Enclosed are 12 copies of a geologic report and accompanying maps on the Hail Mary group of claims, Wayne County, Utah, as well as the brochure on the subject property.

Danaher and Danaher applied for Government assistance May 31, 1955, to explore for uranium on the Hail Mary group of claims in the Millard Canyon area, Wayne County, Utah.

The application was referred to the field and an examination was made on July 12 and 13 by the examining field team. Results of the field examination showed that the accessibility of the subject property is very poor and that there has been no uranium production from the area, and that very few mineralized outcrops were observed in the area. The channel proposed for exploration by the applicant is not well defined and could not be very readily followed or delineated by drilling. Because of the fact that there are very few mineralized outcrops on the subject group of claims and that there are very few chances of finding significant uranium deposits, it is concluded that the chance of finding ore is not good and it is, therefore, recommended that Government assistance on the subject property be denied.

I concur with the conclusions and recommendations of the examining field team.

J. William Hasler

J. William Hasler,
Geologist

JWH/mlr
Enclosures

Reviewed by
DMEA OPERATING COMMITTEE

(date)

UNITED STATES DEPARTMENT OF THE INTERIOR

DOUGLAS McKAY, SECRETARY

RECEIVED
001

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

DMEA 3846, Danaher and Danaher, Hail Mary group of claims, Wayne County, Utah

Uranium

Geologic Report

by

Carl H. Roach
U. S. Geological Survey

August 12, 1955

Reviewed by
DMEA OPERATING COMMITTEE

(date)

INTRODUCTION

Danaher and Danaher applied for Government assistance (DMEA 3846) on May 31, 1955, to explore for uranium deposits on their Hail Mary group of claims in secs. 25 and 36, T. 28 S., R. 16 E. The claims are in the Millard Canyon area, Utah, and can be reached by traveling 38 miles southwest of Green River, Utah, on Utah Highway 24, then 112 miles southeast by very poor dirt road to the property (fig. 1).

The Hail Mary group of claims was examined on July 12 and 13, 1955, by Carl H. Roach, geologist, U. S. Geological Survey, and W. E. Young, mining engineer, U. S. Bureau of Mines. Frank Byers, U. S. Geological Survey, and Jim Danaher, Danaher and Danaher, accompanied the DMEA examining team during the field examination.

This application has been discussed with the U. S. Atomic Energy Commission, Exploration Division, Grand Junction Operations Office, and their advice has been considered in evaluating the property.

GEOLOGY

The rocks in the vicinity of the Danaher and Danaher property in Millard Canyon range in age from Triassic to Jurassic (fig. 2). The formations in ascending order are: the Moenkopi, the Shinarump conglomerate, the Chinle, the Wingate sandstone of Triassic age, and the Kayenta of Jurassic age.

The Triassic Moenkopi formation consists dominantly of alternating chocolate brown siltstones and mudstones with minor amounts of fine-grained sandstones. The formation is thin-bedded with beds usually less than 1 foot thick, and the bedding is very regular. The Moenkopi formation is about 400 feet thick in the area.

The Triassic Shinarump conglomerate is about 50 feet thick in the Millard Canyon area, and consists dominantly of interbedded lenses of conglomerate and coarse-grained sandstone. The contact between the Shinarump conglomerate and the underlying Moenkopi formation is slightly irregular, but very few well-defined channels can be observed where the overlying Shinarump conglomerate has scoured into the underlying Moenkopi formation. Very little gray-green mudstone alteration is associated with the Shinarump conglomerate in the Millard Canyon area. Fossil wood is abundant near the base of the conglomerate.

The Triassic Chinle formation is about 400 feet thick, and consists mostly of interbedded red shales and fine-grained sandstones. The lower half of the formation consists dominantly of shale. A 50-foot bed of conglomeratic sandstone occurs in the upper third of the formation.

The Triassic Wingate sandstone overlies the Chinle formation, and is about 325 feet thick near the Danaher and Danaher property. The Wingate consists entirely of fine- to medium-grained sandstone, and is light brown- to buff colored on outcrop. The Jurassic (?) Kayenta formation overlies the Wingate sandstone and is about 275 feet thick in the Millard Canyon area. The Kayenta formation consists mainly of lenticular sandstones with some interbedded shale and conglomerate.

ORE DEPOSITS

No ore deposits are known to occur in the Millard Canyon area. During the field examination of the Danaher and Danaher property, no mineralized material was observed anywhere in the area. Many small masses of mineralized material and a few small ore bodies occur in the Mineral Canyon area east of the Green River, about 12 miles northeast of the Millard Canyon area. The production from these mines is small and is low grade. The potential resources of the Millard Canyon area are undoubtedly low, and the chances of discovering significant deposits in this area are not good.

On the Hail Mary No. 21 claim (fig.2), the Shinarump conglomerate is characterized by what appears to be a small channel. The detail of the channel is unknown because of talus material covering the outcrops. No uranium or vanadium minerals were observed in the channel, but sparse amounts of secondary copper minerals occur on fractures in the underlying mudstone. Actually, most of the channeling is intraformational and very little scouring appears to have occurred in the underlying Moenkopi formation. There is little chance that this channel could be easily detected by drilling and its subsurface extent determined. Inasmuch as no uranium or vanadium mineralization is known in the immediate area, there is little chance that significant deposits will be found in this channel.

PROPOSED EXPLORATION

The applicant proposes to explore the subsurface extension of a channel in the Shinarump conglomerate by fence drilling. Thirty-two holes are proposed for a total of 6,505 feet. The first fence would be about 50 feet behind the Shinarump bench and would contain seven drill holes on 50-foot centers to delineate the trend of the channel. Successive fences would be spaced at 200-foot intervals until the Wingate sandstone rim is reached (fig. 3).

SUMMARY AND RECOMMENDATIONS

Danaher and Danaher propose to explore their Hail Mary group of claims in the Millard Canyon area, Wayne County, Utah. They propose to explore the subsurface extension of a channel in the Shinarump conglomerate by fence-type drilling. The proposed plan would cost about $20,500 and would require about 6,605 feet of drilling. Accessibility to the property is very poor, and no uranium production and few mineralized outcrops are known in the general area. The nearest production is in Mineral Canyon about 12 miles northeast of the property. The channel that the applicant proposes to explore is not well defined and could not easily be followed or delineated by drilling.

Because of the reasons discussed above, it is believed that there is little chance that the channel on the Hail Mary group of claims will contain significant uranium deposits. It is recommended, therefore, that Government assistance in the proposed exploration be denied.

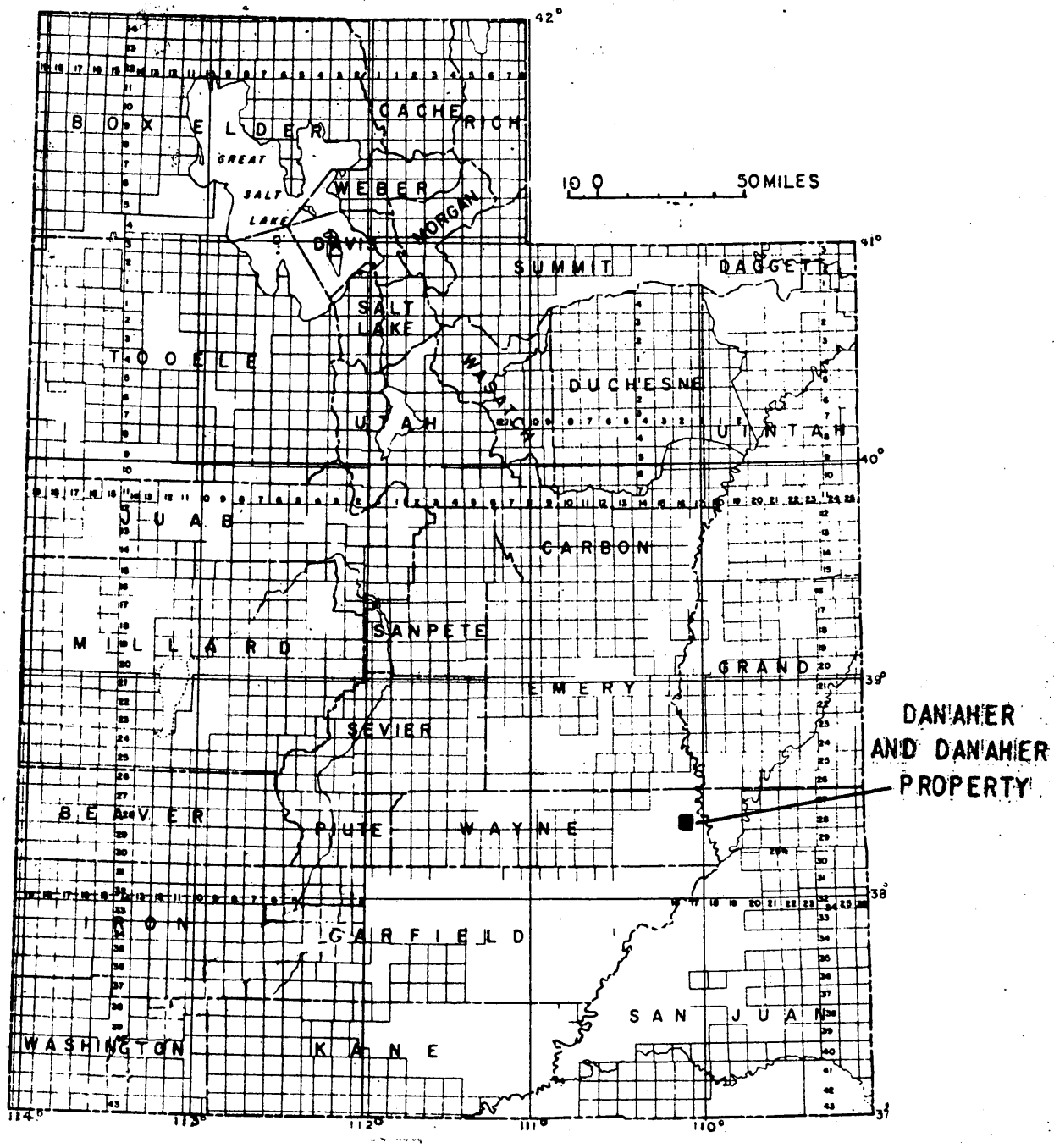
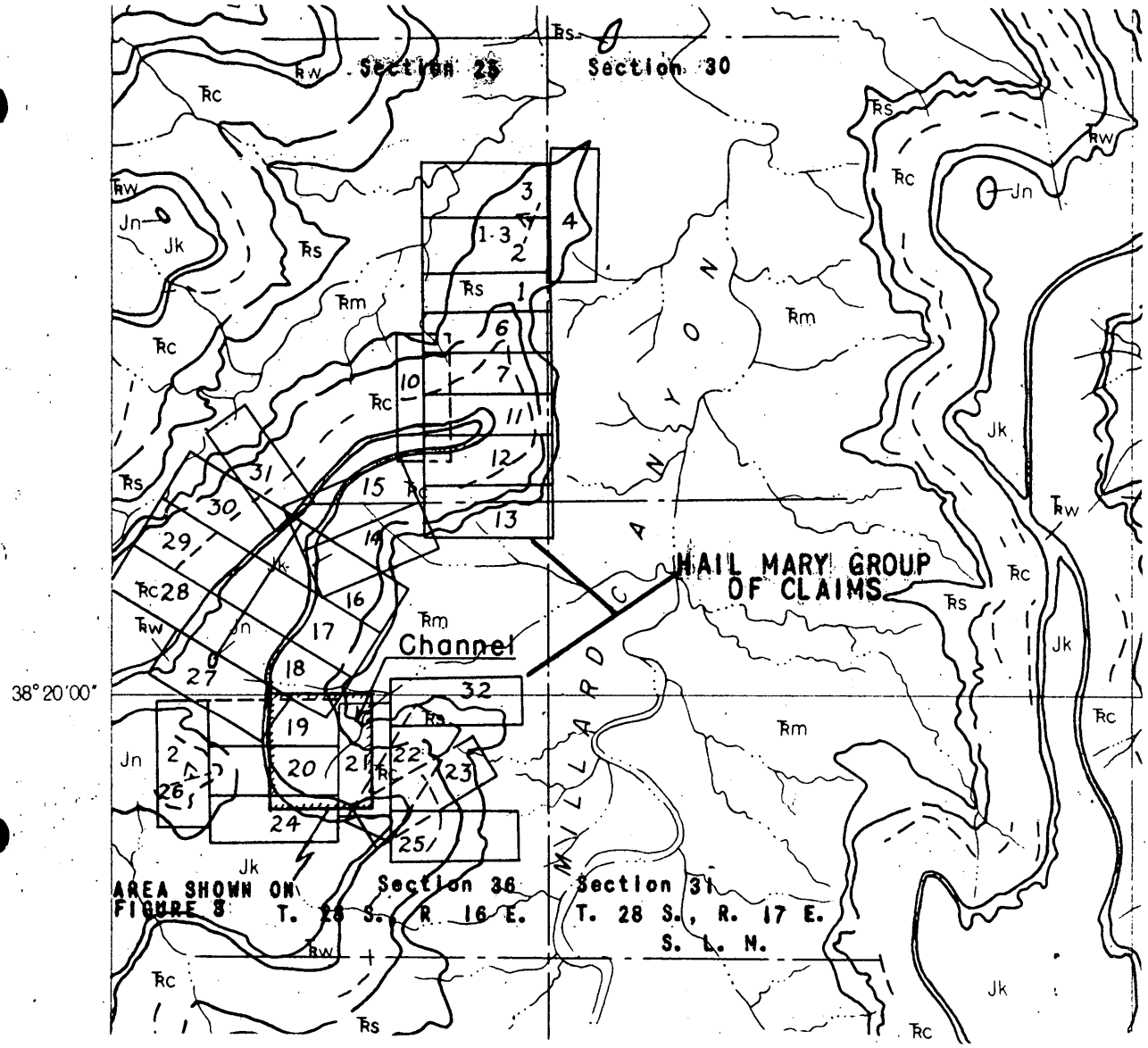


Figure 1. INDEX MAP OF UTAH SHOWING LOCATION OF DANAHER AND DANAHER PROPERTY, MILLARD CANYON AREA, WAYNE COUNTY, UTAH

RECEIVED
OCT 2 - 1995



EXPLANATION

Jn	JURASSIC NAVAJO SANDSTONE
Jk	JURASSIC(?) KAYENTA FORMATION
Ꞧw	TRIASSIC WINGATE SANDSTONE
Ꞧc	TRIASSIC CHINLE FORMATION
Ꞧs	TRIASSIC SHINARUMP CONGLOMERATE
Ꞧm	TRIASSIC MOENKOPI FORMATION
5	STRIKE AND DIP OF BEDS

Note: GEOLOGY FROM U.S. GEOLOGICAL SURVEY PHOTOGEOLOGIC QUADRANGLE MAP ORANGE CLIFFS 8.
CLAIM BOUNDARIES AND LAND LINES FROM APPLICANTS MAP

N

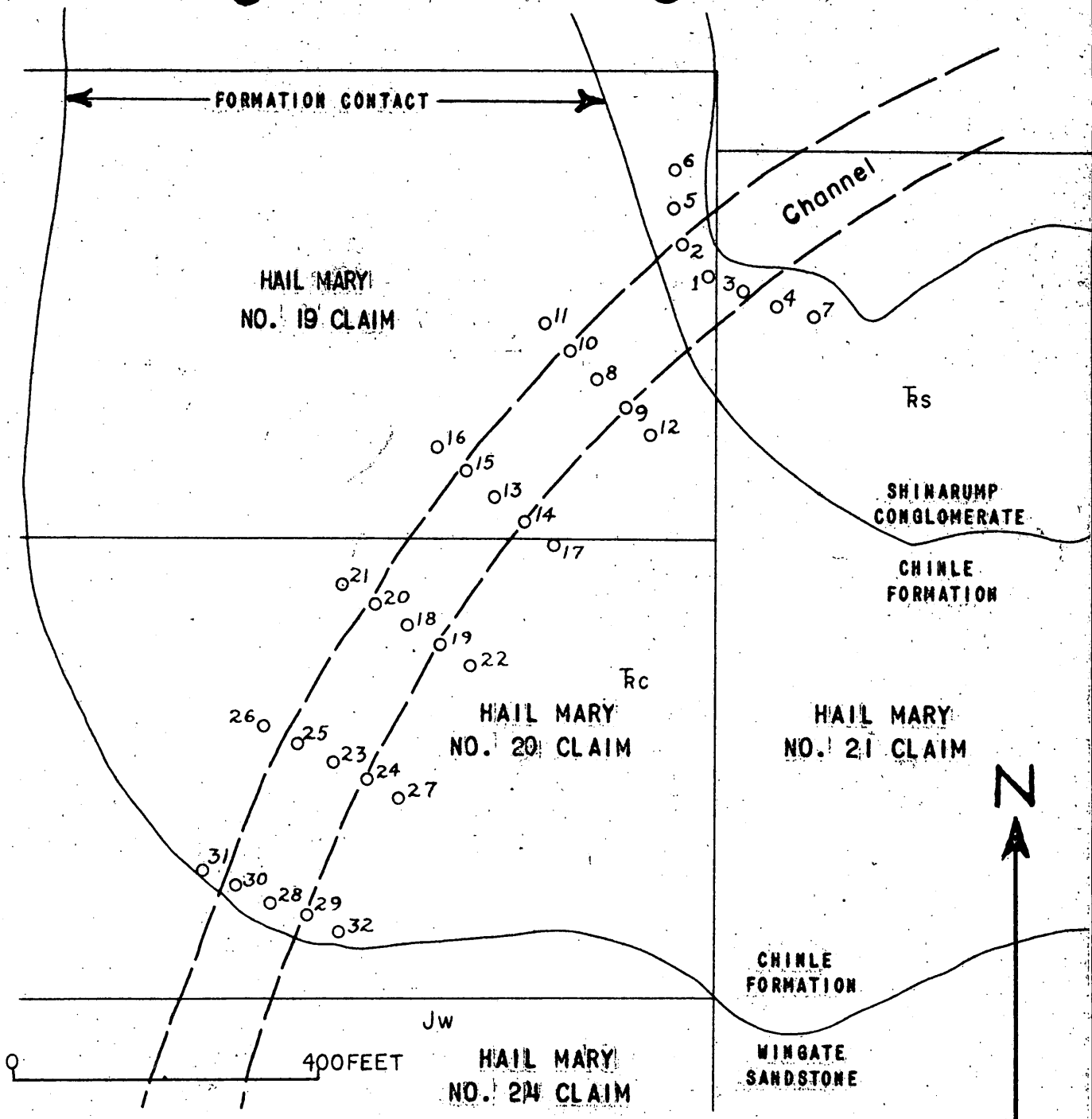
0 4000 FEET

Figure 2. GEOLOGIC MAP OF DANAHER AND DANAHER PROPERTY, MILLARD CANYON AREA WAYNE COUNTY, UTAH

RECEIVED
SEPT 8 - 1955

U. S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
AUGUST
DOCKET NO. 3846



EXPLANATION

30 LOCATION OF PROPOSED DRILL HOLE

BOUNDARY OF INFERRED CHANNEL

Note: LOCATION OF DRILL-HOLE SITES TAKEN FROM MAP SUBMITTED BY APPLICANT

Figure 3: GEOLOGIC MAP SHOWING PROPOSED DRILL SITES ON CHANNEL INDICATED ON Figure 2, DANAHER AND DANAHER PROPERTY
WAYNE COUNTY, UTAH

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

RECEIVED
JUN 30 1955

224 New Customhouse
Denver 2, Colorado

June 24, 1955

Memorandum

To: S. R. Wilson W/Brochure
J. W. Hassler

From: DMEA Field Team, Region III

Subject: DMEA-3846 (Uranium), Danaher and Danaher, (Hail Mary group), Wayne County, Utah

Enclosed are copies of the subject loan application for $20,877.00 or $20,226.50, depending on the drill contractor's estimate used, transmittal of the application by the Chairman of the Operating Committee and memoranda to E. W. Ellis from J. E. Crawford, USBM, and R. D. Trace, USGS, members of the Uranium Commodity Committee. The brochure includes bids from three drill contractors.

The application has merit and after the usual check with the Grand Junction office of the AEC, field examination is required with covering reports.

DMEA Field Team, Region III

W. M. Traver

W. M. Traver

E. N. Harshman

E. N. Harshman

Enclosures

WMT:sr

cc Harshman
Sec. Op. Comm. (2)
Subject
Chron

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

RECEIVED
JUN 30 1955

224 New Customhouse
Denver 2, Colorado

June 24, 1955

Memorandum

To: S. R. Wilson W/Brochure
J. W. Hassler

From: DMEA Field Team, Region III

Subject: DMEA-3846 (Uranium), Danaher and Danaher, (Hail Mary group), Wayne County, Utah

Enclosed are copies of the subject loan application for $20,877.00 or $20,226.50, depending on the drill contractor's estimate used, transmittal of the application by the Chairman of the Operating Committee and memoranda to E. W. Ellis from J. E. Crawford, USBM, and R. D. Trace, USGS, members of the Uranium Commodity Committee. The brochure includes bids from three drill contractors.

The application has merit and after the usual check with the Grand Junction office of the AEC, field examination is required with covering reports.

DMEA Field Team, Region III

W. M. Traver

W. M. Traver

E. N. Harshman

E. N. Harshman

Enclosures

WMT:sr

cc Harshman
Sec. Op. Comm. (2)
Subject
Chron

700

Surname copy

Murphy
Ellis
Hedges
Kilbourne
Selfridge
Fleman

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

JUN 20 1955

Danaher and Danaher
1940 Bunting Avenue
Grand Junction, Colorado

Re: Docket No. DMEA-3846 (Uranium)
Hail Mary Group
Wayne County, Utah

Gentlemen:

The application for assistance in exploring the subject property in Wayne County, Utah, under the captioned docket number, has been reviewed by the Rare and Miscellaneous Metals Division of the Defense Minerals Exploration Administration. It has been referred for a field examination 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 at the earliest opportunity in regard to your project.

Sincerely yours,

C. O. Mittendorf

Administrator

FMMurphy/gla
6-17-55
cc to: Admr.'s Reading File
Docket
Code 700
Mr. Murphy
DMEA Field Team, Region III (2)

R.C.G.

700

Surname copy

Murphy
Ellis
Selfridge
Johnson

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

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

JUN 20 1955

Re: Docket No. DMEA-3846 (Uranium)
Danaher and Danaher
Hail Mary Group
Wayne County, Utah

Dear Mr. Traver:

The captioned application is referred to Region III Field Team for investigation, a field examination, and recommendation. A copy of the application was forwarded to your office on June 3, 1955.

Enclosed are copies of memoranda from Mr. J. E. Crawford, dated June 10, 1955, and Mr. R. D. Trace, dated June 16, members of the Uranium Commodity Committee.

We have not requested the Applicant to submit the results of the National Lead Company's drilling on the subject property. However, it is possible that the field examiners can obtain information in regard to the area drilled, if they deem this data essential. Evidently the area to be explored under the subject application lies about a mile south of the area previously drilled.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee (24B)

Enclosures

APPROVED:

J. H. Hedges (24B)
Member, Bureau of Mines

Thor H. Kiilsgaard (24B)
Member, Geological Survey

FMMurphy/gla
6-17-55
cc to: Admr.'s 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.G.

6/17/55-gla

IN REPLY REFER TO:

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

RECEIVED
JUN 16 1955

June 16, 1955

Re: DMEA-3846
Danaher & Danaher
Hail Mary Claims
Wayne Co., Utah
$15,657.78 - Uranium

Memorandum

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

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

Subject: Review of application

The applicant proposes to follow by fence drilling a Shinarump channel that crops out along Millard Canyon. From the operator's description, the channel may be favorable for ore deposits. The drilling program appears to be well conceived.

I have essentially no information on either the general area or the specific property. The information in the application, however, is sufficiently encouraging to warrant referral to the Field Team.

RDTrace
R. D. Trace

IN REPLY REFER TO:

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

RECEIVED
JUN 16 1955

June 16, 1955

Re: DMEA-3[illegible]
Danaher & Danaher
Hail Mary Claims
Wayne Co., Utah
[illegible]15,057.75 - Uranium

Memorandum

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

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

Subject: Review of application

The applicant proposes to follow by fence drilling a shinarump channel that crops out along Millard Canyon. From the operator's description, the channel may be favorable for ore deposits. The drilling program appears to be well conceived.

I have essentially no information on either the general area or the specific property. The information in the application, however, is sufficiently encouraging to warrant referral to the Field Team.

R. D. Trace

RD/Trace:hlm
G-6/16/55

Copy to: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
J. E. Crawford, 3641 Interior
J. O. Hosted, 3210 GSA

6/13/55 gla

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

June 10, 1955

RECEIVED
JUN 13 1955

Memorandum

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

From: John E. Crawford, Bureau of Mines Member
Uranium Commodity Committee, Room 4643

Subject: Application for assistance - DMEA Docket 3846, Danaher and Danaher, Wayne County, Utah

I have reviewed the attached application for assistance, Docket 3846, and have discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

We suggest that the application be referred to the Field Team for examination 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

Attachment

June 3, 1955

Danaher and Danaher
1940 Bunting Avenue
Grand Junction, Colorado

Subject: DMEA 3846
Re: Exploration Assistance
Hail Mary Group

Gentlemen:

The receipt of your application dated May 31, 1955 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA 3846 and referred to the Rare & Miscellaneous Division.

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

Sincerely yours,

Robert E. Adams, Chief
Operations Control and
Statistics Division

60932

Tom H. Danaher

James E. Danaher

DANAHER AND DANAHER

1940 Bunting—Phone 3837M
GRAND JUNCTION, COLORADO

RECEIVED
JUN - 3 1955

June 1, 1955

Mr. C. O. Mittendorf, Administrator
Defense Minerals Exploration Administration
Interior Building
Washington 25, D. C.

Dear Mr. Mittendorf:

Enclosed please find in quadruplicate our application for a Defense Minerals Exploration Administration loan to drill for uranium.

In our application we are requesting a loan of approximately $15,657.78 to carry out a drilling program on our property in Millard Canyon, Wayne County, Utah.

Hoping this application meets with your approval, we are

Yours very truly,

DANAHER AND DANAHER

Jas. E. Danaher

Jas. E. Danaher

JED:md
Encls.

Crawford

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED
JUN - 3 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. DMEA 3846
Metal or Mineral Uranium
Date Received 6-3-55
Estimated Cost $ 15,657.78
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: James Edward Danaher and Tom Harding Danaher
DBA: DANAHER AND DANAHER
1940 Bunting Avenue
Grand Junction, 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 Property is located in Sections 36 and 25, T-28-S, R-16-E, (Unsurveyed), Wayne County, Utah.

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

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise Owners
We located this property ourselves February 27 - 28, 1954

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

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

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

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.*—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 30 days and be completed within 2 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 [ ] 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 May 31, 1955

DANAHER AND DANAHER
(Applicant)

By James Edward Danaher
James Edward Danaher

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

RECEIVED

JUN - 3 1955

DANAHER AND DANAHER
1940 Bunting Avenue
Grand Junction, Colorado

3. (f)

Name	Book	Page	Date Located
Hail Mary #1	G	332	27 Feb 54
Hail Mary #2	G	333	27 Feb 54
Hail Mary #3	G	333	27 Feb 54
Hail Mary #4	G	334	27 Feb 54
Hail Mary #5	G	334	27 Feb 54
Hail Mary #6	G	335	27 Feb 54
Hail Mary #7	G	335	27 Feb 54
Hail Mary #8	G	336	27 Feb 54
Hail Mary #9	G	336	27 Feb 54
Hail Mary #10	G	337	27 Feb 54
Hail Mary #11	G	479	27 Feb 54
Hail Mary #12	G	479	27 Feb 54
Hail Mary #13	G	480	27 Feb 54
Hail Mary #14	G	480	27 Feb 54
Hail Mary #15	G	481	28 Feb 54
Hail Mary #16	G	481	28 Feb 54
Hail Mary #17	G	482	28 Feb 54
Hail Mary #18	G	482	28 Feb 54
Hail Mary #19	G	483	28 Feb 54
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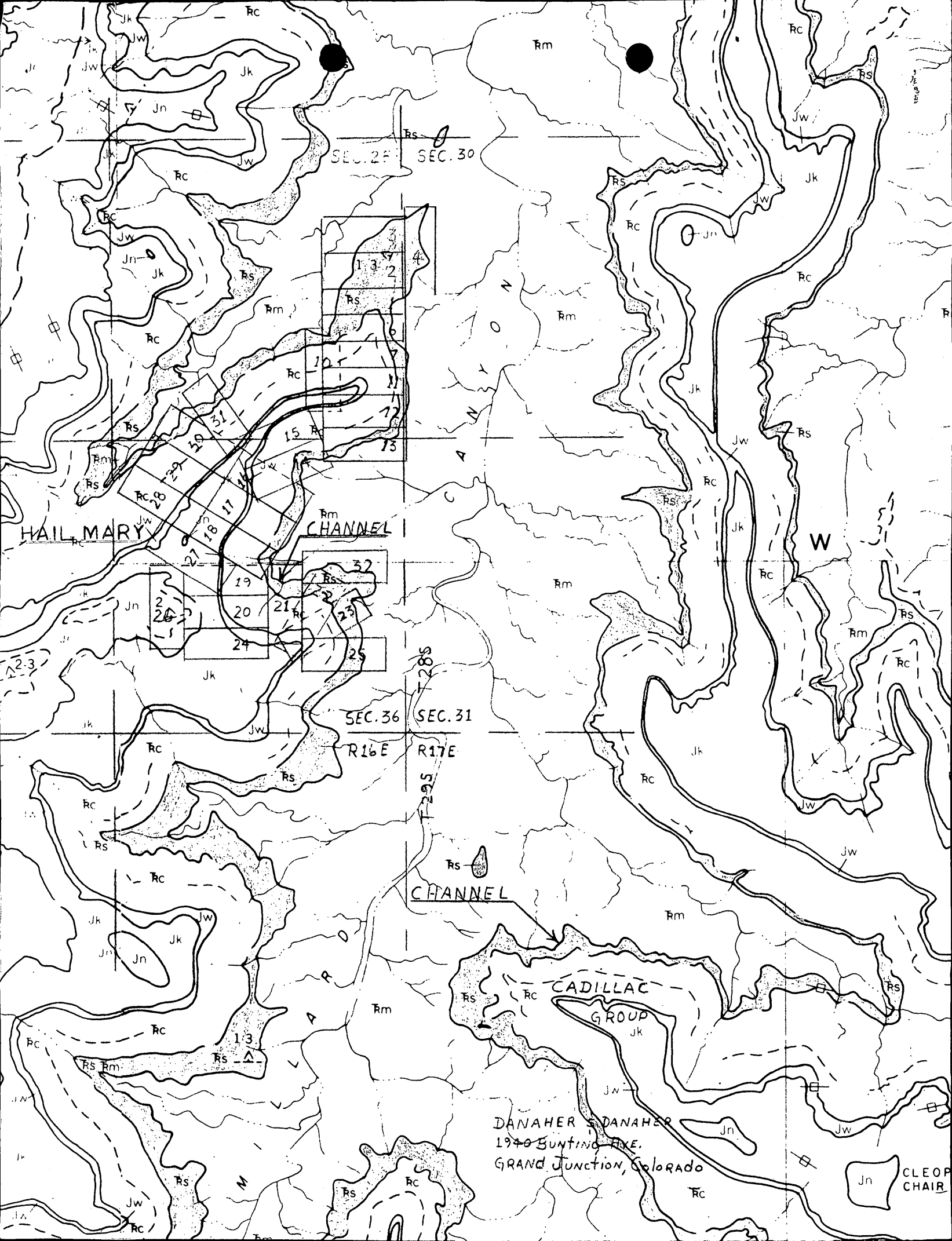
Hail Mary #24	G	485	28 Feb 54
Hail Mary #25	G	486	28 Feb 54
Hail Mary #26	G	486	28 Feb 54
Hail Mary #27	G	487	28 Feb 54
Hail Mary #28	G	487	28 Feb 54
Hail Mary #29	G	488	28 Feb 54
Hail Mary #30	G	488	28 Feb 54
Hail Mary #31	G	489	28 Feb 54
Hail Mary #32	G	566	2 Mar 54


SEC. 29
SEC. 30
HAIL MARY
CHANNEL
SEC. 36
SEC. 31
R16E
R17E
CHANNEL
CADILLAC
GROUP
DANAHER & DANAHER
1940 Bunting Ave.
Grand Junction, Colorado
CLEOP
CHAIR
W

COPY

RECEIVED
JUN - 3 1955

NATIONAL LEAD COMPANY
MINING DEPT.
111 Broadway
New York 6, N.Y.

October 14, 1954

Mr. and Mrs. James E. Danaher and
Mr. Tom H. Danaher
WichitaFalls
Texas

Dear Sirs and Madam:

Enclosed is check for $5,000. in full payment for 50% each of the first two payments which fell due during the time of our exploration on the Millard Canyon claims, as outlined in agreement dated May 17, 1954. The claims involved are Cadillac Nos. 1 through 53; Hail Mary Nos. 1, 2, 3, 4, 6, 7 and 10 through 32; and Rockets Nos. 1 through 10.

This will serve as final notice of cancellation of the purchase agreement on these claims.

With best wishes I remain

Sincerely yours,

Signed: Gloyd M. Wiles

GMW:ACB
Enc.

DANAHER AND DANAHER
1940 Bunting Ave.
Grand Junction, Colorado

4. The Hail Mary Group consists of thirty-two unpatented mining claims located in Millard Canyon, Wayne County, Utah, Section 36, T-28-S, R-16-E, unsurveyed.

This property was located February 27, 1954, by James E. and Tom H. Danaher and they are still the sole owners.

The Hail Mary Group lays along a fault system that starts in the San Rafael swell, running east-southeast. There is no evidence of any displacement on this property, however, this system tends to go through or near these claims. To the Northeast approximately twenty miles is Upheaval Dome.

These claims were leased to the National Lead Company and they did the necessary assessment work for this year. The National Lead Company drilled on a Shinarump bench that extends into the canyon. This particular part of the property had no overburden and the drilling was done with a wagon drill to a depth of approximately sixty feet. To date we have not received any information pertaining to this drilling, but it is our understanding several holes were mineralized. It is our thinking that the drilling was done along the edge of the channel that is eroded away. Some carbon, copper and count were found along the east side of this Shinarump bench. The National Lead Company returned this property to Danaher and Danaher October 14, 1954.

On the extreme east end of Hail Mary Number 19 there is a scour in the Moenkopi formation that measures approximately one hundred and twenty-five (125) feet across. Facing the channel the right side drops off fast while the left side is dipping gently. At the contact of the Shinarump and the Moenkopi formations, in the bottom of the channel, there is a thin band of copper. Above the copper there is an abundance of carbon, carbon trash and petrification. Along the lower portion of the channel the host rock is of a coarse conglomerate and higher in the section where most of the count is, the host rock is a finer grained sandstone. It is our thinking that with the presence of a scour in the Moenkopi, copper, carbon, count and overburden, this property will produce ore.

The erosion pattern in this canyon gives further emphasis to the probability of the main channel going through the subject property. The Shinarump bench which the National Lead Company drilled is to the north approximately one mile and still north of this bench is a small remnant of Shinarump. To the south and east there is another Shinarump remnant still standing in the canyon and there is another smaller channel going under the protruding point west of Cleopatra's chair. This channel is believed to be a tributary. In the Chinle "D" member above this channel "paint" has been found that runs as high as 2.0 per cent radiometrically. This area is mostly covered by talus but the scour in the Moenkopi can be seen on the edge of the slide area.

Danaher and Danaher
1940 Bunting Ave.
Grand Junction, Colorado

4. (Cont'd)

There is a road to within approximately one-half of a mile from this property. With the aid of a bulldozer a road could be constructed without unforseen difficulty. By the present road the nearest buying station is 145 miles at Green River, Utah, but the haul would be cut to forty miles if a ferry was installed to cross the Green River at the mouth of Millard Canyon. If this was done the ore would be shipped to Moab, Utah. There is a short air strip that is suitable for light aircraft operation approximately one mile from the drill area.

Manpower, materials and supplies are all available in Green River, Utah, and the necessary water can be obtained out of the Green River eleven miles from the drilling site.

DANAHER AND DANAHER
1940 Bunting Avenue
Grand Junction, Colorado

5. (b) The first step to be taken in this program is the construction of a road to the drilling area. This road will be an extension of the one that is already built on top of the Shinarump to the north approximately one-half of a mile. It is believed that this extension can be constructed solely by a bulldozer without the aid of powder.

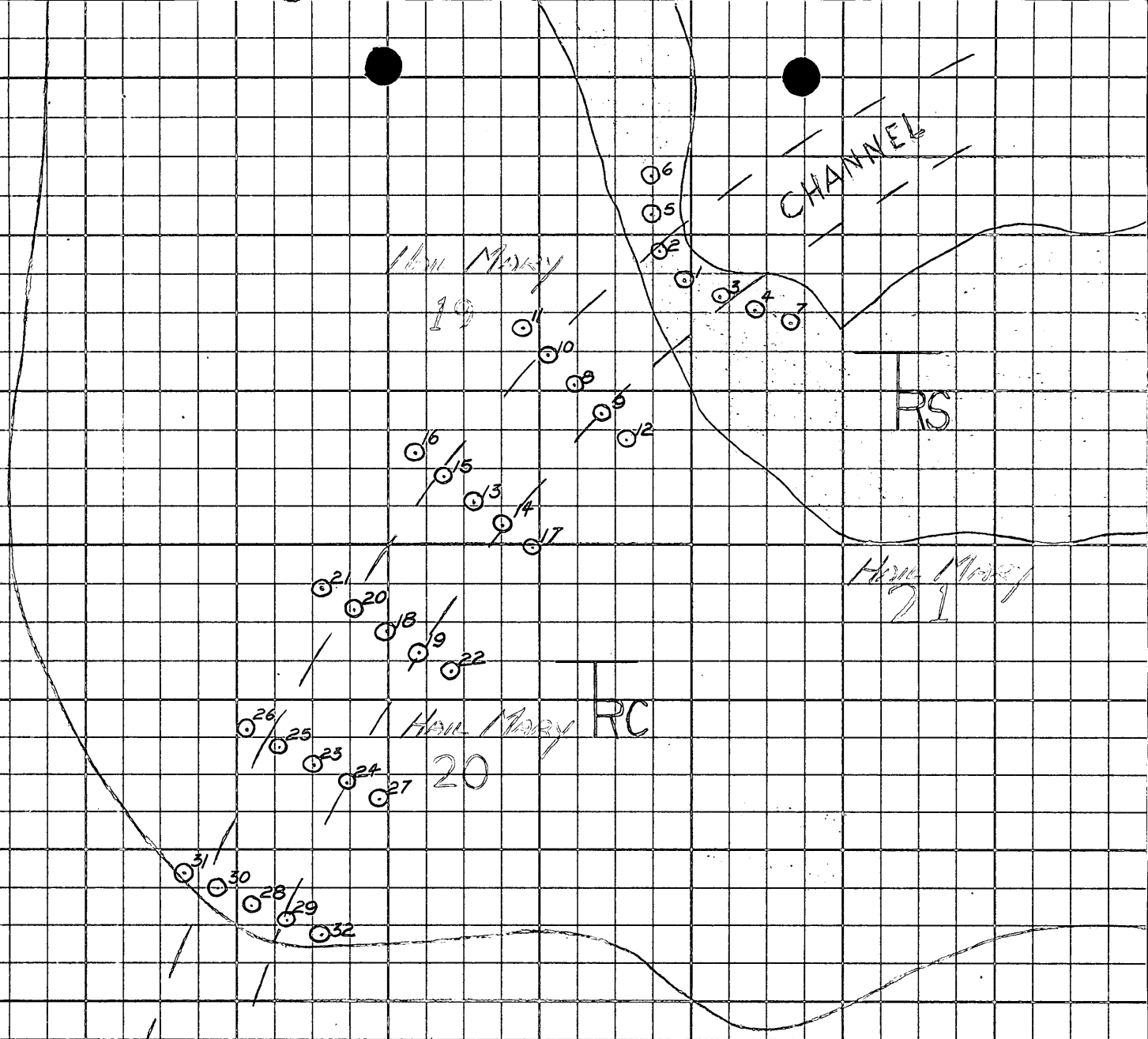
The preliminary drilling will be done approximately 100 feet back from the Shinarump ledge to a depth of approximately 65 feet. A "fence" of approximately five tests will be drilled 200 feet behind the first row of tests. After the channel direction is definitely established a "fence" will be drilled each 200 feet until the channel is followed back to the Wingate sandstone. Drilling the massive Wingate formation would make exploration prohibitive from this point on.

A map will be kept showing drill hole number, depth penetrating the Moenkopi contact, survey elevation, sub-sea elevation and regional dip. Contouring the sub-sea corrected for regional dip, the channel can be followed.

If no moisture is encountered, the drilling will be done with air in order to expedite the program and keep the cost to a minimum. Approximately 10% of the total footage will be cored and assay reports on the chemical U_3O_8 content will be taken.

5. (d) Tom and James Danaher have been active in the exploration and development of uranium properties since January, 1954. Their time and efforts since this date have been devoted solely to uranium. They have located extensive properties and have managed and supervised several drilling programs. Tom and Jim attended Texas A & M College. Tom was in the engineering school and handles all of the engineering. Jim studied geology and he takes care of the geological department.

RECEIVED
JUN - 3 1955



Hole No.	Depth	Total Footage
1-2-3-4-5-6-7	65	455
8-9-10-11-12	100	500
13-14-15-16-17	135	675
18-19-20-21-22	225	1125
23-24-25-26-27	325	1625
28-29-30-31-32	425	2125
		6505

DANAHER AND DANAHER
1940 Bunting Ave.
Grand Junction, Colo.

SCALE: 1 INCH = 200 FEET.

RECEIVED
JUN - 3 1955

DANAHER AND DANAHER
1940 Bunting Ave.
Grand Junction, Colo.

RECEIVED

JUN - 3 1955

6. The reason for asking Minerals Engineering, Braithwaite & Caldwell, and Sprague & Henwood for bids on the drilling of this property was due to their experience and knowledge of the drilling in this area.

We believe all three of these companies are in the same category as to the quality of their service and ability to stand behind their bid. We feel, therefore, the least expensive bid should be used. After computing the bids according to our intended drilling outline, it appears that Braithwaite & Caldwell is the least expensive.

If the property is drilled with water, using Braithwaite & Caldwell's bid, the following total costs are derived:

Drilling 6505 ft., Coring 650 ft.	$16,427.00
Tractor time, estimate 300 hrs. @ $12.00 per hr.	3,600.00
Survey drill hole elevations, Compute sub-sea elevations	750.00
Assay and laboratory reports	100.00
	$20,877.00
DANAHER & DANAHER will contribute 25%	5,219.22
Amount of loan	$15,657.78

If the property is drilled with air using Braithwaite & Caldwell's bid, the following total costs are derived:

Drilling 6505 ft., Coring 650 ft.	$15,776.50
Tractor time, estimate 300 hrs. @ $12.00 per hr.	3,600.00
Survey drill hole elevations, Compute sub-sea elevations	750.00
Assay and laboratory reports	100.00
	$20,226.50
DANAHER & DANAHER will contribute 25%	5,056.62
Amount of loan	$15,169.88

It is the aim of Danaher and Danaher to explore this property fully, and to keep the cost to a minimum. They will manage this program without any expense to the program.

DANAHER AND DANAHER
1940 Bunting Ave.
Grand Junction, Colorado

BRAITHWAITE & CALDWELL

WATER DRILLING:

32 tests @ $2.10 per foot - 6,505 feet	$13,660.50
Coreing 95 ft. @ $3.00	286.50
Coreing 67 ft. @ $3.50	236.25
Coring 112.5 @ $4.00	450.00
Coreing 162.6 ft. @ $4.50	731.25
Coreing 212.5 ft. @ $5.00	1,062.50
	$16,426.00

AIR DRILLING:

32 tests @ $2.00 per foot - 6,505 feet	$13,010.00
Coreing 95 feet @ $3.00	286.50
Coreing 67 feet @ $3.50	236.25
Coreing 112.5 feet @ $4.00	450.00
Coreing 162.5 feet @ $4.50	731.25
Coreing 212.5 feet @ $5.00	1,062.50
	$15,776.50

Coreing is 10% of total drilled.

DANAHER AND DANAHER
1940 Bunting Ave.
Grand Junction, Colorado

C O P Y

May 23, 1955

Mr. Jim Danaher
c/o Danayer & Danaher
1940 Bunting Avenue
Grand Junction, Colorado

RECEIVED
JUN - 3 1955

Dear Mr. Danaher:

Pursuant to our conversation regarding core drilling of Cadillac Point group of claims located in Millard Canyon, Emery County, Utah, please accept the following quotation as our bid for drilling a minimum of 9000 ft.

Depth	Price per foot	
	Non-Core	B X Core
0 - 100 ft.	$2.00	$3.25
100 - 200 ft.	2.10	3.75
200 - 300 ft.	2.10	4.25

We are also bidding Stand-By Time at the rate of $12.00 per hour.

We propose to use a 600 CFM Gardner-Denver Rotary Compressor for non-core drilling. We also propose to case the non-core section of each hole before taking cores. This insures a good hole and makes for high as possible core recovery.

It is our understanding that water for core drilling must be hauled eleven miles from the Colorado River. It is our understanding that you will have a bulldozer on the job to build access roads and prepare drill sites.

Thank you for asking us to submit this bid.

Very Truly yours,

MINERALS ENGINEERING COMPANY

Signed: Howard S. Perry

Howard S. Perry
Drill Superintendent

HSP/kh

I certify this a true copy Jas. P. Danaher

DANAHER AND DANAHER
1940 Bunting Ave.
Grand Junction, Colorado

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MINERALS ENGINEERING

12 tests @ $2.00 per foot for 955 feet	$1,910.00
20 tests @ $2.10 per foot for 5,550 feet	11,655.00
Coreing 95 feet @ $3.25	308.75
Coreing 67 feet @ $3.75	251.25
Coreing 487.5 feet @ $4.25	2,071.88
	$16,196.88

Coreing is 10% of total drilled.

February 21, 1955

Danaher & Danaher
1940 Bunting
Grand Junction, Colorado

Attn: J. Danaher

Gentlemen:

In accordance with your request, we herewith submit our porposal for exploratory drilling in the Millard Canyon area. This quotation is based on an estimated 9,250.0 feet of drilling.

Item 1. Transportation of crew and equipment to and from job site . . . . . $1,250.00 per rig

Item 2. Non-Core drilling from surface to 400 ft. . . . . $ 3.00 per ft.

Item 3. Core drilling from surface to 400 ft. . . . . .$ 5.25 per ft.

Item 4. Delay for radiometric logging or for anyother reason required by customer. . . . . $ 12.00 per hr.

This proposal is based on the following provisions:

1. Access to job site will be suitable for our truck mounted drill rigs and water trucks.

2. All drill hole locations are accessible to our drill rigs and water trucks.

3. Cores will be delivered at drill hole locations and storage and preservation will be the responsibility of the customer.

4. Water for drilling purposes is available within a distance of 11 miles over accessible roads. Should water not be available within this distance, then the cost of hauling water beyond this distance will be an extra charge.

RECEIVED
JUN - 3 1955

Grand Junction, Colo.
February 21, 1955

Following provisions Continued.

5. Payments are to be made on monthly estimates based on completed holes. Method of payment will be in accordance with our Standard Escrow agreement.

We thank you for the opportunity of quoting on this work and hope to be favored with your order.

Very truly yours,

SPRAGUE & HENWOOD, INC.

R. R. Carver
Western Manager

RRC/ab

DANAHER AND DANAHER
1940 Bunting Ave.
Grand Junction, Colorado

SPRAGUE & HENWOOD

Transportation of crew and equipment to and from job site	$ 1,250.00 per rig
Non-Core drilling @ $3.00 per foot for 6,505 ft.	19,515.00
Core drilling - 10% of total or 650.5 ft @ $5.25 per foot	3,414.63
	$24,179.63

DANAHER AND DANAHER
1940 Bunting Avenue
Grand Junction, Colorado

C O P Y

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JUN - 3 1955

ETTER - PENN MINING CO.
1637 Gunnison Blvd.
Grand Junction, Colo.

June 1, 1955

Mr. Jim Danaher
1940 Bunting St.
Grand Junction, Colo.

Dear Sir:

The price that we charge for Bulldozer work in your area, with Caterpillar D 6s is Fourteen Dollars ($14.00) per hour.

If we can assist you in any way please let us know.

Respectfully yours

Signed: K. L. Etter

K. L. Etter

ETTER - PENN MINING CO.

KLE:JE

I certify this a true copy Jas. P. Danaher

DANAHER AND DANAHER
1940 Bunting Avenue
Grand Junction, Colorado

COPY

WILCOX CONSTRUCTION
CARROLL S. WILCOX
Grand Junction, Colorado

RECEIVED
JUN - 3 1955

May 25, 1955

Danaher and Danaher
1940 Bunting Ave.
Grand Junction, Colorado

Dear Sirs:

My bid for tractor work in Millard Canyon located in Wayne County, Utah, is $13.00 per hour moving time one way. This price is for D6 Caterpillar tractor.

Sincerely yours,

Signed: Carrol S. Wilcox

Wilcox Construction

I certify this a true copy/ Jas. B. Danaher

DANAHER AND DANAHER
1940 Bunting Ave.
Grand Junction, Colo.

COPY

RECEIVED
JUN - 3 1955

D & D Tractor Co.
Grand Junction, Colorado

Danaher and Danaher
1940 Bunting Ave.
Grand Junction, Colorado

Gentlemen:

We are pleased to submit to you the following estimate on your Millard Canyon program.

We will furnish an HD-7 bulldozer on the location in Millard Canyon, Wayne County, Utah, on a flat rate of $12.00 per hour.

Yours very truly,

D & D Tractor Co.

Tom H. Danaher

Tom H. Danaher

DANAHER AND DANAHER
1940 Bunting Ave.
Grand Junction, Colorado

7. Danaher and Danaher will furnish 25% of the total agreed upon amount for this drilling program as instructed by the DMEA administrator.

Braithwaite & Caldwell

Enid, Oklahoma, U. S. A.

FOR CUSTOMER'S USE ONLY	
REGISTER NO.	VOUCHER NO.
F. O. B. CHECKED	
TERMS APPROVED	PRICE APPROVED
CALCULATIONS CHECKED	
MATERIAL RECEIVED	
DATE 19	SIGNATURE / TITLE
SATISFACTORY AND APPROVED	
ADJUSTMENTS	
ACCOUNTING DISTRIBUTION	
AUDITED	FINAL APPROVAL

PURCHASE ORDER NO.

CONTRACT NO.

DATE

INVOICE DATE 2-1-55

INVOICE NO.

Bid ~~SOLD~~ TO Danaher & Danaher
1040 Dunting
Grand Junction, Colorado.

Water Drilling
Area---Willard Canyon
Wayne County, Utah.

SHIPPED TO AND DESTINATION

FROM

PREPAID OR COLLECT?

DATE SHIPPED

F. O. B.

TERMS

OPEN HOLE DRILLING	FOOTAGE COST	COST PER HOLE
10 holes, 100 ft. per hole.	$2.10 per ft.	$2100.00
5 holes, 150 ft. per hole.	2.10 per ft.	1,575.00
10 holes, 200 ft. per hole.	2.10 per ft.	4,200.00
10 holes, 250 ft. per hole.	2.10 per ft.	5,250.00
10 holes, 300 ft. per hole.	2.10 per ft.	6,300.00
	Total cost	$19,425.00

CORING

$3.00 per ft. 0---to---100 ft.

3.50 per ft. 100-to---200 ft.

4.00 per ft. 200-to---300 ft.

Subject to our having suitable idle drilling equipment available.

Remit to Braithwaite and Caldwell
% Bill Polk
Box 304
Green River, Utah.

Braithwaite & Caldwell

Enid, Oklahoma, U. S. A.

FOR CUSTOMER'S USE ONLY	
REGISTER NO.	VOUCHER NO.
F. O. B. CHECKED	
TERMS APPROVED	PRICE APPROVED
CALCULATIONS CHECKED	
MATERIAL RECEIVED	
DATE 19	SIGNATURE / TITLE
SATISFACTORY AND APPROVED	
ADJUSTMENTS	
ACCOUNTING DISTRIBUTION	
AUDITED	FINAL APPROVAL

PURCHASE ORDER NO.

CONTRACT NO.

DATE

INVOICE DATE 2-1-55

INVOICE NO.

Bid

TO Danaher & Danaher
1960 Hunting
Grand Junction, Colorado.

Air Drilling
Area--Millard Canyon
Wayne County, Utah.

SHIPPED TO AND DESTINATION

FROM

PREPAID OR COLLECT?

DATE SHIPPED

F. O. B.

TERMS

OPEN HOLE DRILLING	PLUGGED COST	COST PER HOLES
10 holes, 100 ft. per hole.	$2.00 per ft.	$ 2,000.00
5 holes, 150 ft. per hole.	2.00 per ft.	1,500.00
10 holes, 200 ft. per hole.	2.00 per ft.	4,000.00
10 holes, 250 ft. per hole.	2.00 per ft.	5,000.00
10 holes, 300 ft. per hole.	2.00 per ft.	6,000.00
	Total Cost	$18,500.00

CORING

$3.00 per ft. 0--to---100 ft.

3.50 per ft. 100-to-200 ft.

4.00 per ft. 200-to-300 ft.

Subject to our having suitable idle drilling equipment available.

Remit to Braithwaite and Caldwell
% Bill Polk
Box 304
Green River, Utah.

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED
JUN - 3 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. DMEA 3846
Metal or Mineral Uranium
Date Received 6-3-55
Estimated Cost $15,657.78
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: James Edward Danaher and Tom Harding Danaher
DBA: DANAHER AND DANAHER
1940 Bunting Avenue
Grand Junction, 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 Property is located in Sections 36 and 25, T-28-S, R-16-E, (Unsurveyed), Wayne County, Utah.

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

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise Owners
We located this property ourselves February 27 - 28, 1954

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

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

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

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 30 days and be completed within 2 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 [ ] 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 May 31, 1955

DANAHER AND DANAHER
(Applicant)

By James Edward Danaher
James Edward Danaher

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

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JUN - 3 1955

DANAHER AND DANAHER
1940 Bunting Avenue
Grand Junction, Colorado

3. (f)

Name	Book	Page	Date Located
Hail Mary #1	G	332	27 Feb 54
Hail Mary #2	G	333	27 Feb 54
Hail Mary #3	G	333	27 Feb 54
Hail Mary #4	G	334	27 Feb 54
Hail Mary #5	G	334	27 Feb 54
Hail Mary #6	G	335	27 Feb 54
Hail Mary #7	G	335	27 Feb 54
Hail Mary #8	G	336	27 Feb 54
Hail Mary #9	G	336	27 Feb 54
Hail Mary #10	G	337	27 Feb 54
Hail Mary #11	G	479	27 Feb 54
Hail Mary #12	G	479	27 Feb 54
Hail Mary #13	G	480	27 Feb 54
Hail Mary #14	G	480	27 Feb 54
Hail Mary #15	G	481	28 Feb 54
Hail Mary #16	G	481	28 Feb 54
Hail Mary #17	G	482	28 Feb 54
Hail Mary #18	G	482	28 Feb 54
Hail Mary #19	G	483	28 Feb 54
Hail Mary #20	G	483	28 Feb 54
Hail Mary #21	G	484	28 Feb 54
Hail Mary #22	G	484	28 Feb 54
Hail Mary #23	G	485	28 Feb 54
Hail Mary #24	G	485	28 Feb 54
Hail Mary #25	G	486	28 Feb 54
Hail Mary #26	G	486	28 Feb 54
Hail Mary #27	G	487	28 Feb 54
Hail Mary #28	G	487	28 Feb 54
Hail Mary #29	G	488	28 Feb 54
Hail Mary #30	G	488	28 Feb 54
Hail Mary #31	G	489	28 Feb 54
Hail Mary #32	G	566	2 Mar 54

C O P Y

NATIONAL LEAD COMPANY
MINING DEPT.
111 Broadway
New York 6, N.Y.

RECEIVED
JUN - 3 1955

October 14, 1954

Mr. and Mrs. James E. Danaher and
Mr. Tom H. Danaher
WichitaFalls
Texas

Dear Sirs and Madam:

Enclosed is check for $5,000. in full payment for 50% each of the first two payments which fell due during the time of our exploration on the Millard Canyon claims, as outlined in agreement dated May 17, 1954. The claims involved are Cadillac Nos. 1 through 53; Hail Mary Nos. 1, 2, 3, 4, 6, 7 and 10 through 32; and Rockets Nos. 1 through 10.

This will serve as final notice of caneellation of the purchase agreement on these claims.

With best wishes I remain

Sincerely yours,

Signed: Gloyd M. Wiles

GMW:ACB
Enc.

DANAHER AND DANAHER
1940 Bunting Ave.
Grand Junction, Colorado

4. The Hail Mary Group consists of thirty-two unpatented mining claims located in Millard Canyon, Wayne County, Utah, Section 36, T-28-S, R-16-E, unsurveyed.

This property was located February 27, 1954, by James E. and Tom H. Danaher and they are still the sole owners.

The Hail Mary Group lays along a fault system that starts in the San Rafael swell, running east-southeast. There is no evidence of any displacement on this property, however, this system tends to go through or near these claims. To the Northeast approximately twenty miles is Upheaval Dome.

These claims were leased to the National Lead Company and they did the necessary assessment work for this year. The National Lead Company drilled on a Shinarump bench that extends into the canyon. This particular part of the property had no overburden and the drilling was done with a wagon drill to a depth of approximately sixty feet. To date we have not received any information pertaining to this drilling, but it is our understanding several holes were mineralized. It is our thinking that the drilling was done along the edge of the channel that is eroded away. Some carbon, copper and count were found along the east side of this Shinarump bench. The National Lead Company returned this property to Danaher and Danaher October 14, 1954.

On the extreme east end of Hail Mary Number 19 there is a scour in the Moenkopi formation that measures approximately one hundred and twenty-five (125) feet across. Facing the channel the right side drops off fast while the left side is dipping gently. At the contact of the Shinarump and the Moenkopi formations, in the bottom of the channel, there is a thin band of copper. Above the copper there is an abundance of carbon, carbon trash and petrification. Along the lower portion of the channel the host rock is of a coarse conglomerate and higher in the section where most of the count is, the host rock is a finer grained sandstone. It is our thinking that with the presence of a scour in the Moenkopi, copper, carbon, count and overburden, this property will produce ore.

The erosion pattern in this canyon gives further emphasis to the probability of the main channel going through the subject property. The Shinarump bench which the National Lead Company drilled is to the north approximately one mile and still north of this bench is a small remnant of Shinarump. To the south and east there is another Shinarump remnant still standing in the canyon and there is another smaller channel going under the protruding point west of Cleopatra's chair. This channel is believed to be a tributary. In the Chinle "D" member above this channel "paint" has been found that runs as high as 2.0 per cent radiometrically. This area is mostly covered by talus but the scour in the Moenkopi can be seen on the edge of the slide area.

Danaher and Danaher
1940 Bunting Ave.
Grand Junction, Colorado

4. (Cont'd)

There is a road to within approximately one-half of a mile from this property. With the aid of a bulldozer a road could be constructed without unforseen difficulty. By the present road the nearest buying station is 145 miles at Green River, Utah, but the haul would be cut to forty miles if a ferry was installed to cross the Green River at the mouth of Millard Canyon. If this was done the ore would be shipped to Moab, Utah. There is a short air strip that is suitable for light aircraft operation approximately one mile from the drill area.

Manpower, materials and supplies are all available in Green River, Utah, and the necessary water can be obtained out of the Green River eleven miles from the drilling site.

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JUN - 3 1955

DANAHER AND DANAHER
1940 Bunting Avenue
Grand Junction, Colorado

5. (b) The first step to be taken in this program is the construction of a road to the drilling area. This road will be an extension of the one that is already built on top of the Shinarump to the north approximately one-half of a mile. It is believed that this extension can be constructed solely by a bulldozer without the aid of powder.

The preliminary drilling will be done approximately 100 feet back from the Shinarump ledge to a depth of approximately 65 feet. A "fence" of approximately five tests will be drilled 200 feet behind the first row of tests. After the channel direction is definitely established a "fence" will be drilled each 200 feet until the channel is followed back to the Wingate sandstone. Drilling the massive Wingate formation would make exploration prohibitive from this point on.

A map will be kept showing drill hole number, depth penetrating the Moenkopi contact, survey elevation, sub-sea elevation and regional dip. Contouring the sub-sea corrected for regional dip, the channel can be followed.

If no moisture is encountered, the drilling will be done with air in order to expedite the program and keep the cost to a minimum. Approximately 10% of the total footage will be cored and assay reports on the chemical U_3O_8 content will be taken.

5. (d) Tom and James Danaher have been active in the exploration and development of uranium properties since January, 1954. Their time and efforts since this date have been devoted solely to uranium. They have located extensive properties and have managed and supervised several drilling programs. Tom and Jim attended Texas A & M College. Tom was in the engineering school and handles all of the engineering. Jim studied geology and he takes care of the geological department.

DANAHER AND DANAHER
1940 Bunting Ave.
Grand Junction, Colo.

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JUN - 3 1955

6. The reason for asking Minerals Engineering, Braithwaite & Caldwell, and Sprague & Henwood for bids on the drilling of this property was due to their experience and knowledge of the drilling in this area.

We believe all three of these companies are in the same category as to the quality of their service and ability to stand behind their bid. We feel, therefore, the least expensive bid should be used. After computing the bids according to our intended drilling outline, it appears that Braithwaite & Caldwell is the least expensive.

If the property is drilled with water, using Braithwaite & Caldwell's bid, the following total costs are derived:

Drilling 6505 ft., Coring 650 ft.	$16,427.00
Tractor time, estimate 300 hrs. @ $12.00 per hr.	3,600.00
Survey drill hole elevations, Compute sub-sea elevations	750.00
Assay and laboratory reports	100.00
	$20,877.00
DANAHER & DANAHER will contribute 25%	5,219.22
Amount of loan	$15,657.78

If the property is drilled with air using Braithwaite & Caldwell's bid, the following total costs are derived:

Drilling 6505 ft., Coring 650 ft.	$15,776.50
Tractor time, estimate 300 hrs. @ $12.00 per hr.	3,600.00
Survey drill hole elevations, Compute sub-sea elevations	750.00
Assay and laboratory reports	100.00
	$20,226.50
DANAHER & DANAHER will contribute 25%	5,056.62
Amount of loan	$15,169.88

It is the aim of Danaher and Danaher to explore this property fully, and to keep the cost to a minimum. They will manage this program without any expense to the program.

Braithwaite & Caldwell

Enid, Oklahoma, U. S. A.

PURCHASE ORDER NO.

CONTRACT NO.

DATE

Bid

~~SOLD~~

TO

INVOICE DATE

INVOICE NO.

SHIPPED TO AND DESTINATION

FROM

PREPAID OR COLLECT?

DATE SHIPPED

F. O. B.

TERMS

FOR CUSTOMER'S USE ONLY

REGISTER NO.	VOUCHER NO.
F. O. B. CHECKED	
TERMS APPROVED	PRICE APPROVED
CALCULATIONS CHECKED	
MATERIAL RECEIVED	
DATE 19	SIGNATURE / TITLE
SATISFACTORY AND APPROVED	
ADJUSTMENTS	
ACCOUNTING DISTRIBUTION	
AUDITED	FINAL APPROVAL

Braithwaite & Caldwell

Enid, Oklahoma, U. S. A.

FOR CUSTOMER'S USE ONLY	
REGISTER NO.	VOUCHER NO.
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TERMS APPROVED	PRICE APPROVED
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ADJUSTMENTS	
ACCOUNTING DISTRIBUTION	
AUDITED	FINAL APPROVAL

PURCHASE ORDER NO.

CONTRACT NO.

DATE Bid

TO Marvin C. Hamilton
[illegible]
Grand Junction, Colorado.

INVOICE DATE

INVOICE NO. 8-1-55

Air drilling
[illegible]--Milton Canyon
Wayne County, Utah.

SHIPPED TO AND DESTINATION

FROM

F. O. B.

DATE SHIPPED

TERMS

PREPAID OR COLLECT?

ORDER FOR DRILLING	PRICE PER FOOT	TOTAL DRILLING
10 holes, 100 ft. per hole.	5.00 per ft.	5,000.00
5 holes, 150 ft. per hole.	3.00 per ft.	2,250.00
10 holes, 200 ft. per hole.	2.00 per ft.	4,000.00
10 holes, 250 ft. per hole.	2.00 per ft.	5,000.00
10 holes, 300 ft. per hole.	2.00 per ft.	6,000.00
	TOTAL COST	22,250.00

COMMENT

5.00 per ft. 0--to---100 ft.

3.00 per ft. 100-to-200 ft.

2.00 per ft. 200-to-300 ft.

Subject to our having suitable hole drilling equipment available.

Sends to Braithwaite and Caldwell
P. Box [illegible]
Box 206
Green River, Utah.

DANAHER AND DANAHER
1940 Bunting Ave.
Grand Junction, Colorado

BRAITHWAITE & CALDWELL

WATER DRILLING:

32 tests @ $2.10 per foot - 6,505 feet	$13,660.50
Coreing 95 ft. @ $3.00	286.50
Coreing 67 ft. @ $3.50	236.25
Coreing 112.5 @ $4.00	450.00
Coreing 162.6 ft. @ $4.50	731.25
Coreing 212.5 ft. @ $5.00	1,062.50
	$16,426.00

AIR DRILLING:

32 tests @ $2.00 per foot - 6,505 feet	$13,010.00
Coreing 95 feet @ $3.00	286.50
Coreing 67 feet @ $3.50	236.25
Coreing 112.5 feet @ $4.00	450.00
Coreing 162.5 feet @ $4.50	731.25
Coreing 212.5 feet @ $5.00	1,062.50
	$15,776.50

Coreing is 10% of total drilled.

MINERALS ENGINEERING COMPANY
P. O. BOX 1951
GRAND JUNCTION, COLORADO

May 23, 1955

RECEIVED
JUN - 3 1955

Mr. Jim Danaher
Danaher & Danaher
1940 Bunting Avenue
Grand Junction, Colorado

Dear Mr. Danaher:

Pursuant to our conversation regarding core drilling of Cadillac Point group of claims located in Millard Canyon, Emery County, Utah, please accept the following quotation as our bid for drilling a minimum of 9000 feet:

Depth	Price per Foot	
	Non-Core	B X Core
0 - 100 ft.	$2.00	$3.25
100 - 200 ft.	2.10	3.75
200 - 300 ft.	2.10	4.25

We are also bidding Stand-By Time at the rate of $12.00 per hour.

We propose to use a 600 CFM Gardner-Denver Rotary Compressor for non-core drilling. We also propose to case the non-core section of each hole before taking cores. This insures a good hole and makes for high as possible core recovery.

It is our understanding that water for core drilling must be hauled eleven miles from the Colorado River. It is our understanding that you will have a bulldozer on the job to build access roads and prepare drill sites.

Thank you for asking us to submit this bid.

Very truly yours,

MINERALS ENGINEERING COMPANY

Howard S. Perry

Howard S. Perry
Drill Superintendent

HSP/kh

DANAHER AND DANAHER
1940 Bunting Ave.
Grand Junction, Colorado

MINERALS ENGINEERING

12 tests @ $2.00 per foot for 955 feet	$1,910.00
20 tests @ $2.10 per foot for 5,550 feet	11,655.00
Coreing 95 feet @ $3.25	308.75
Coreing 67 feet @ $3.75	251.25
Coreing 487.5 feet @ $4.25	2,071.88
	$16,196.88

Coreing is 10% of total drilled.

MANUFACTURERS OF
DIAMOND DRILLS
DRILLING EQUIPMENT
DIAMOND BITS

BRANCH OFFICES
NEW YORK · PITTSBURGH
PHILADELPHIA
GRAND JUNCTION, COLO.

EXECUTIVE OFFICES & PLANT
221 W. OLIVE STREET
SCRANTON, PA.

SINCE 1883

SPRAGUE & HENWOOD, INC.

CONTRACTORS FOR
DIAMOND DRILLING
SHOT DRILLING · SOIL SAMPLING · PRESSURE GROUTING
WATER WELLS & CHURN DRILLING

PLEASE REPLY TO
P. O. BOX 645
GRAND JUNCTION, COLO.
TELEPHONE 834

RECEIVED
JUN - 3 1955

February 21, 1955

Danaher & Danaher
1940 Bunting
Grand Junction, Colorado

Attn: J. Danaher

Gentlemen:

In accordance with your request, we herewith submit our porposal for exploratory drilling in the Millard Canyon area. This quotation is based on an estimated 9,250.0 feet of drilling.

Item 1. Transportation of crew and equipment to and from job site . . . . . $1,250.00 per rig

Item 2. Non-Core drilling from surface to 400 ft. . . . . $ 3.00 per ft.

Item 3. Core drilling from surface to 400 ft. . . . . $ 5.25 per ft.

Item 4. Delay for radiometric logging or for anyother reason required by customer. . . . . $ 12.00 per hr.

This proposal is based on the following provisions:

1. Access to job site will be suitable for our truck mounted drill rigs and water trucks.

2. All drill hole locations are accessible to our drill rigs and water trucks.

3. Cores will be delivered at drill hole locations and storage and preservation will be the responsibility of the customer.

4. Water for drilling purposes is available within a distance of 11 miles over accessible roads. Should water not be available within this distance, then the cost of hauling water beyond this distance will be an extra charge.

Grand Junction, Colo.
February 21, 1955

Following provisions Continued.

5. Payments are to be made on monthly estimates based on completed holes. Method of payment will be in accordance with our Standard Escrow agreement.

We thank you for the opportunity of quoting on this work and hope to be favored with your order.

Very truly yours,

SPRAGUE & HENWOOD, INC.

R. R. Carver
Western Manager

RRC/ab

DANAHER AND DANAHER
1940 Bunting Ave.
Grand Junction, Colorado

RECEIVED
JUN - 3 1955

SPRAGUE & HENWOOD

Transportation of crew and equipment to and from job site	$ 1,250.00 per rig
Non-Core drilling @ $3.00 per foot for 6,505 ft.	19,515.00
Core drilling - 10% of total or 650.5 ft @ $5.25 per foot	3,414.63
	$24,179.63

ETTER---PENN MINING CO.

1637 Gunnison Boulevard
GRAND JUNCTION, COLORADO

RECEIVED
JUN - 3 1955

June 1, 1955

Mr. Jim Danaher
1940 Bunting St.
Grand Junction, Colo.

Dear Sir:

The price that we charge for Bulldozer work in your area, with Caterpillar D 6s is Fourteen Dollars ($14.00) per hour.

If we can assisst you in any way please let us know.

Respectfully yours

K. L. Etter

K. L. Etter

ETTER-PENN MINING CO.

KLE:JE

WILCOX CONSTRUCTION
CARROLL S. WILCOX
2221 ORCHARD AVENUE - PHONE 0624R11
GRAND JUNCTION, COLORADO

May 25 1955

RECEIVED
JUN - 3 1955

Danaher and Danaher
1940 BuntingAve.
Grand Junction, Colorado

Dear Sirs;

My bid for tractor work in Millard Canyon located in Wayne County Utah is $13.00 per hour moving time one way. This price is for D6 Caterpillar tractor.

Sincerely yours,
Carrol S Wilcox
Wilcox Construction

DANAHER AND DANAHER
1940 Bunting Ave.
Grand Junction, Colo.

COPY

RECEIVED
JUN - 3 1955

D & D Tractor Co.
Grand Junction, Colorado

Danaher and Danaher
1940 Bunting Ave.
Grand Junction, Colorado

Gentlemen:

We are pleased to submit to you the following estimate on your Millard Canyon program.

We will furnish an HD-7 bulldozer on the location in Millard Canyon, Wayne County, Utah, on a flat rate of $12.00 per hour.

Yours very truly,

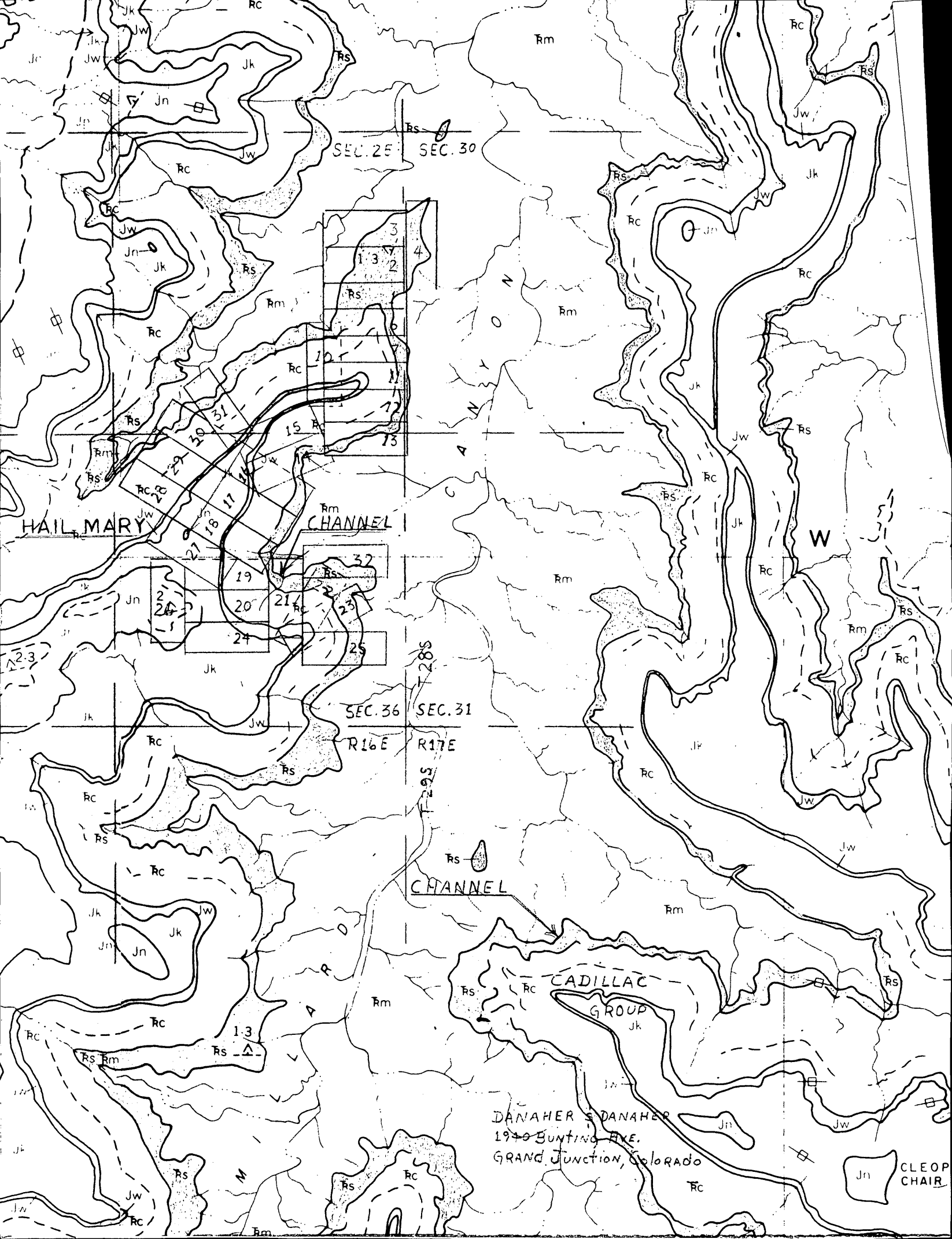
D & D Tractor Co.

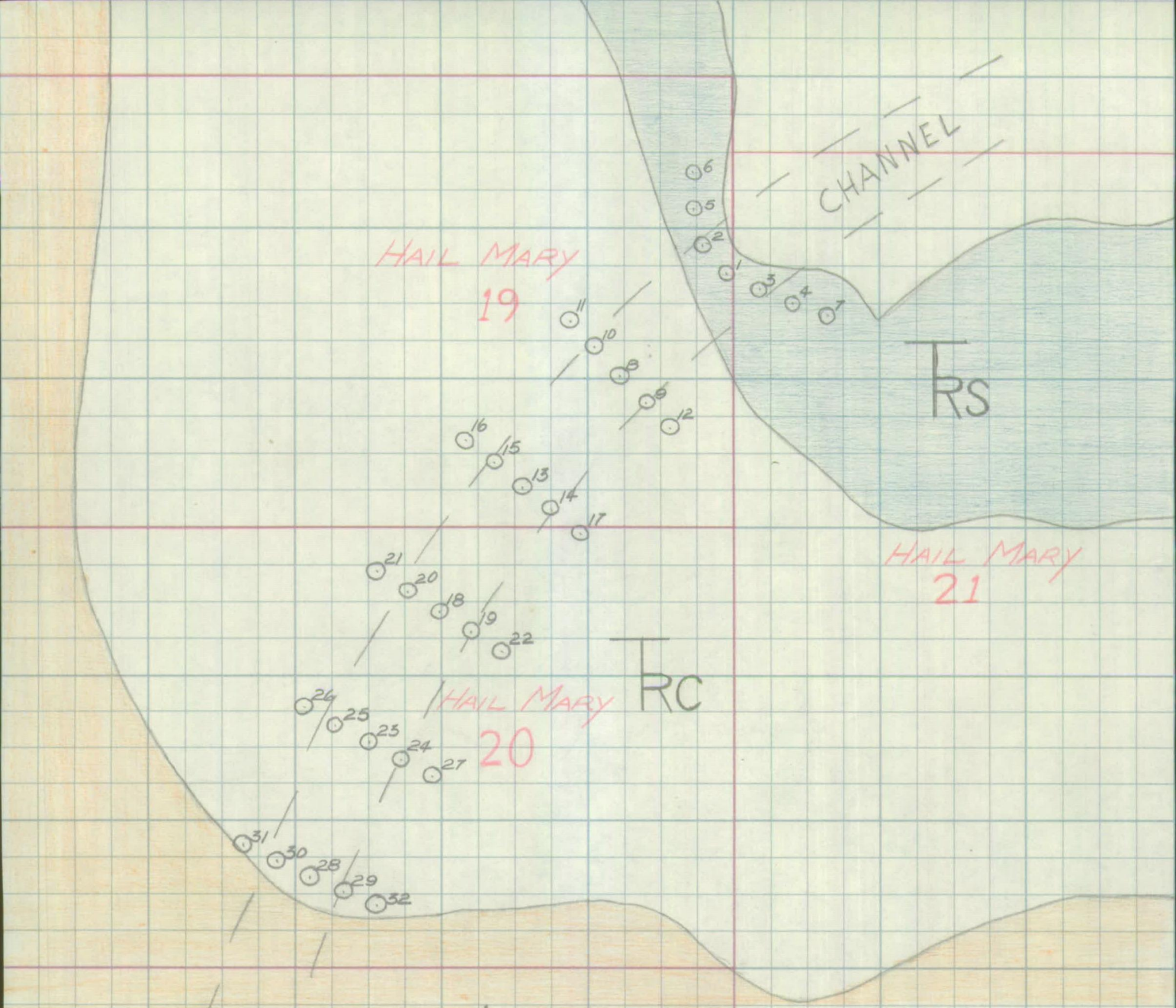
Tom H. Danaher

Tom H. Danaher

DANAHER AND DANAHER
1940 Bunting Ave.
Grand Junction, Colorado

7. Danaher and Danaher will furnish 25% of the total agreed upon amount for this drilling program as instructed by the DMEA administrator.

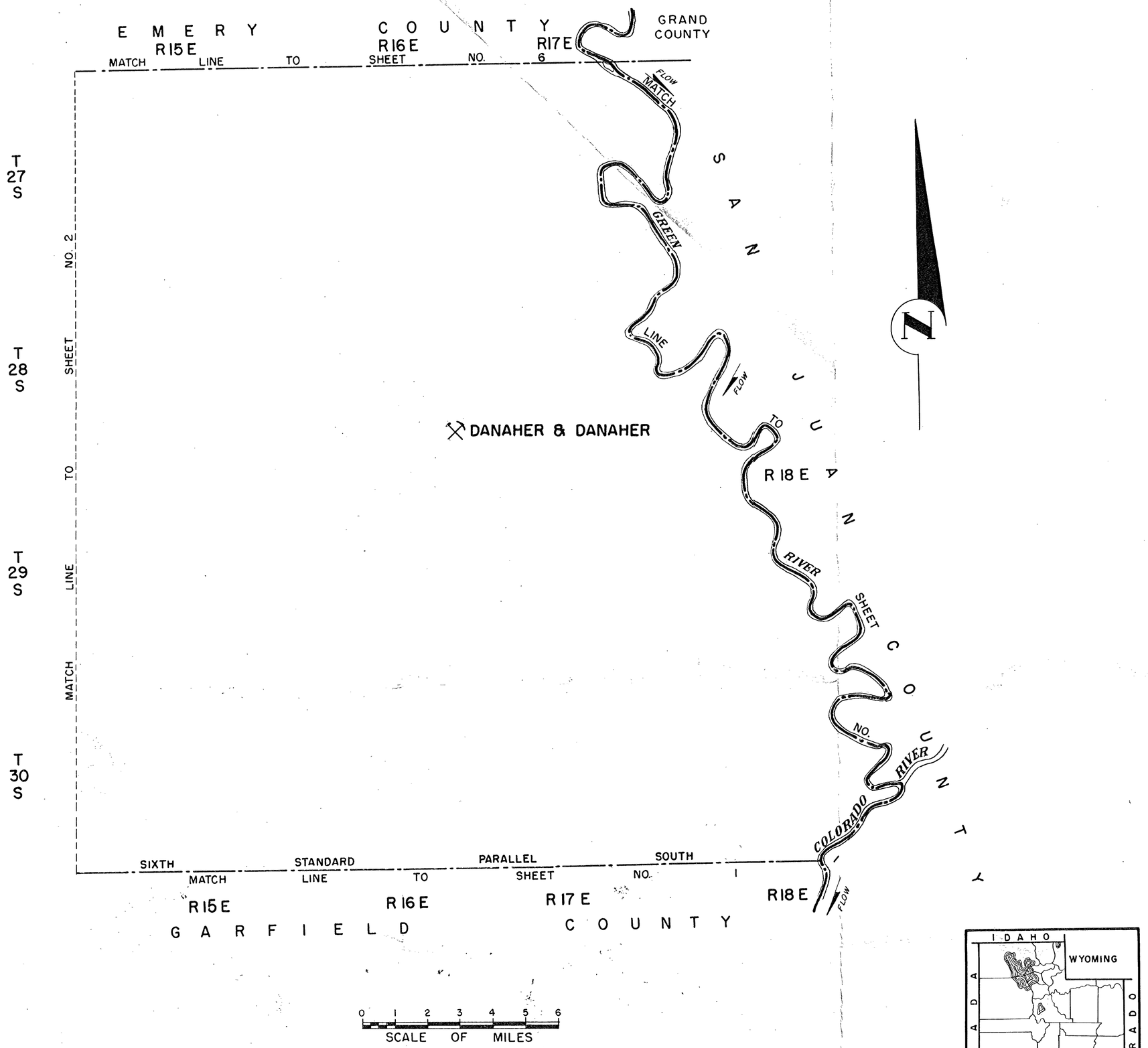

SEC. 25
SEC. 30
HAIL MARY
CHANNEL
SEC. 36
SEC. 31
R16E
R17E
CHANNEL
CADILLAC
GROUP
DANAHER & DANAHER
1940 Bunting Ave.
GRAND JUNCTION, Colorado
CLEOP
CHAIR
W



Hole No.	Depth	Total Footage
1-2-3-4-5-6-7	65	455
8-9-10-11-12	100	500
13-14-15-16-17	135	675
18-19-20-21-22	225	1125
23-24-25-26-27	325	1625
28-29-30-31-32	425	2125
		6505

DANAHER AND DANAHER
1940 Bunting Ave.
Grand Junction, Colo.

SCALE: 1 INCH = 200 FEET



U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Fig. 1

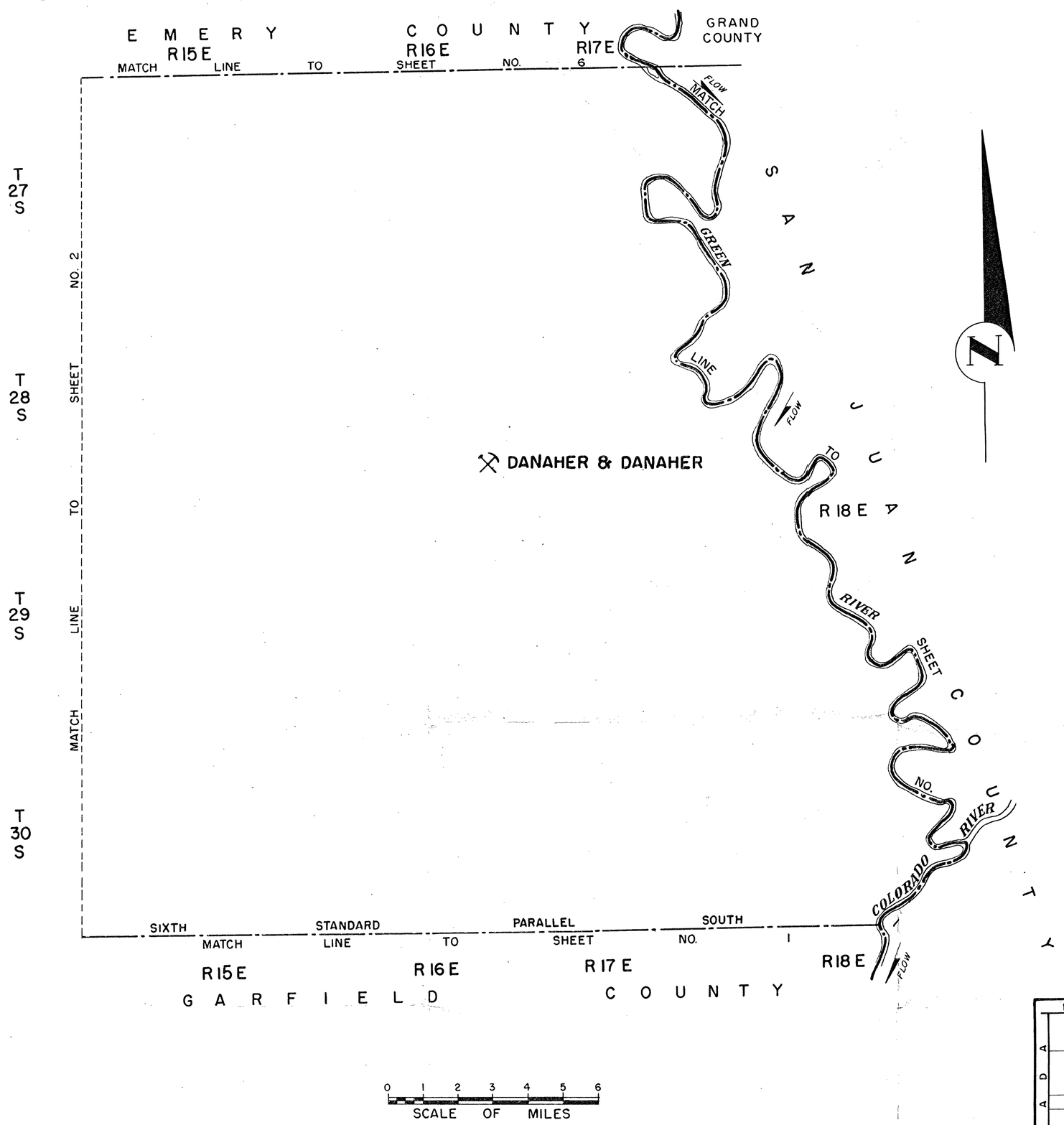
DMEA Docket No. 3846

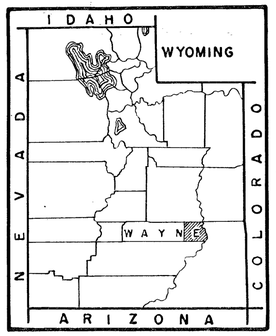
STATE: UTAH

COUNTY: WAYNE

Sheet 1 of 3
Location Map

ENGINEER: W. E. YOUNG	DATE: SEP. 13, 1955
TRACED: SEP., 1955, BY: A.P.T.S.	1900-346-C
CHECKED:	





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