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DEFENSE MINERALS ADMINISTRATION
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DMA Docket No. 3949

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1-25-56 Jgn

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

RECEIVED
JAN 25 1956

January 24, 1956

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 3949, Uranium Discovery and Development Company, Gracie and King claims, San Juan County, Utah

I have reviewed the report of examination of DMEA Docket 3949, dated January 6, and received in this office January 24, 1955. I have also discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

The applicant requested DMEA assistance in exploring for uranium on the Gracie and King claims in San Juan County, Utah. The proposed exploration program consists of six 1,500-foot holes at an estimated cost of $34,200.

One hole, 1,516 feet deep, has been drilled by the applicant on the subject claims. The hole was barren.

The property was examined on November 2, 1955, by a DMEA field team. The examination resulted in recommendation for denial of the application as further drilling on the claims would be considered prospecting.

We recommended denial on August 22, 1955, on similar grounds.

James Paone
James Paone

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

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James Paone

700

FILE COPY
Surname:
Murphy
Ellis
Guhan
Kilsgaard
Selbridge
Kjelmson

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

JAN 17 1956

Uranium Discovery and Development Company
Box 799
Wallace, Idaho

Re: Docket No. DMEA-3949 (Uranium)
Gronie and King Claims
San Juan County, Utah

Gentlemen:

Your application for aid in an exploration project and other information available to us in Washington concerning the 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, indicates to us that the probability of discovering minable ore reserves on your property is not sufficiently promising to justify Government participation in an exploration program. We regret to advise you that, under these circumstances, your application for exploration assistance is denied.

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

Sincerely yours,

C. D. [illegible]

Administrator

FMMurphy/izm 1-12-56
cc to: Docket
Code 700
Admr.'s Reading File
Operating Committee
Mr. Murphy
DMEA Field Team, Region III (2)
Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA

Docket Copy
700

Murphy
Ellis

January 12, 1956

Summary of Proposed Project

Object: Denial of application for exploration aid.

Docket No.: DMEA-3949

Commodity: Uranium

Applicant: Uranium Discovery and Development Company
Box 709
Wallace, Idaho

Property: Owners, subject to overriding royalty ranging from 5 to 15 percent, of 22 unpatented claims in Sections 10, 11, & 12, T. 29 S., R. 23 E., S.L.B.M., San Juan County, Utah.

Date of Application: August 12, 1955

Referred to Field Team: September 2, 1955

Field Team Report Recd.: January 9, 1955

Amount of Application: $34,200.00

Work Proposed and Costs:

6 holes with average depth of 1,500 feet spaced about 1,200 feet apart.	$21,600.00	
7,200 feet of non-core drilling @ $3/ft.	$21,600.00	
1,800 feet of core drilling @ $7/ft.	12,600.00	
Estimated Total Cost		$34,200.00

Commodity Members' Comments: (excerpts)

U.S. Bureau of Mines - J. E. Crawford, August 22, 1955:

Apparently no surface mineralization occurs on the subject claims. Results of the one hole drilled indicated the Shinarump formation and other strata penetrated were barren of uranium mineralization. The hole was reported to be 1,516 feet deep, and the Shinarump formation 135 feet thick.

The fact that the subject claims lie in the Lisbon Valley, nine miles northwest of Mi Vida mine and other uranium producers does not imply that similar ore deposits will be found on the claims.

The apparent depth to the Shinarump formation in the area and the results of the hole drilled emphasize that the project is a prospecting venture.

We suggest that the application be denied.

U.S. Geological Survey - W. P. Williams, August 29, 1955:

The property is located south of and adjacent to DMEA-3602, Vivian Uranium Mining Company, which was denied on the grounds that neither uranium mineralization nor a potential ore zone were known to exist on the property.

The east boundary of the property is only about 1,500 feet west of Continental Uranium Company's Rattlesnake Mine which is a significant producer from the Morrison formation. However, the Lisbon Valley fault passes between the Rattlesnake Mine and the subject property. The Morrison formation on the property has been erroded except for a small area on its eastern edge.

The application in its present form represents a prospecting venture. I recommend the application be denied without prejudice. It may be advisable to request concurrence from the Field Team in the denial.

NOTE: In Washington's referral to Field Team it was suggested the application be denied unless recent drilling on adjacent land indicated that the subject property was situated along an exceptionally favorable trend of mineralization.

Field Team Report (excerpts)

The property was examined on November 2, 1955. The examining team concluded that the proposed work would be prospecting rather than exploration and that there was little possibility of discovering a significant amount of uranium by the proposed work.

It is recommended that the application be denied.

Rare & Miscellaneous Metals Division - F. M. Murphy, January 12, 1956:

The drilling project proposed by the Applicant is considered to be prospecting as only a regional rock formation is given as the target. Even if ore were found, it would have to be a very large, high-grade deposit to warrant the cost of exploitation, due to the great depth to the inferred ore-bearing horizon.

NOTE:

In telephone conversations with F. M. Murphy, both W. P. Williams and J. E. Crawford agreed that their original recommendations to deny the subject application expressed their present conclusions in regard to the proposed project and therefore, it would not be necessary to submit an additional memorandum based on the Field Team Report.

Ernest Wm. Ellis

Ernest Wm. Ellis, Chief
Rare and Miscellaneous Metals Division

1-16-56 dgm

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

January 6, 1956

224 New Customhouse
Denver 2, Colorado

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Field Team, Region III

Subject: Joint Report of Examination, DMEA Docket 3949 (Uranium), Uranium Discovery and Development Company, Gracie and King claims, San Juan County, Utah

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

The examiners found no evidence of the existence of a mineralized target area, and they recommend that the application be denied. We concur in this recommendation.

DMEA Field Team, Region III

W M Traver

By W. M. Traver
Executive Officer

Enclosures

RECEIVED
JAN 9 1956

Reviewed by
DMEA OPERATING COMMITTEE
1-13-56
(date)

DMEA
Date Rec'd.

JAN 5 1956

RECEIVED
JAN 9 1956

BUREAU OF MINES
Denver, Colorado

Region III

Building 20
Denver Federal Center
Denver 2, Colorado
January 4, 1956

Memorandum

TRANSMITTED
JAN 6 1956

To: Executive Officer, DMEA Field Team, Region III

From: John F. Shaw
E. N. Harshman

Subject: Examination Report, docket DMEA 3949 (Uranium) Uranium Discovery and Development Company (Gracie and King claims) San Juan County, Utah

Enclosed are the original and nine copies of a Joint Engineering and Geologic Report by Howard F. Albee, Geologist, and Carl Belser, Mining Engineer, covering docket DMEA 3949.

Uranium Discovery and Development Company applied for exploration assistance to explore the Gracie and King claims in San Juan County, Utah, by drilling six 1,500-foot holes to the basal Chinle at an estimated cost of $34,200.00. The property was examined on November 2, 1955 by Howard F. Albee and Carl Belser. The examining team concluded that the proposed work would be prospecting rather than exploration and that there was little possibility of discovering a significant amount of uranium by the proposed work.

It is recommended that the application be denied.

John F. Shaw
John F. Shaw
Supervising Mining Engineer

E. N. Harshman
E. N. Harshman
Member, Field Team

Enclosures

cc 9
EHHarshman
DMEA 3949
Chron

JFS/cm

Reviewed by
DMEA OPERATING COMMITTEE
1-13-56
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

TRANSMITTED

JAN 6 1956

DMEA 3949

URANIUM DISCOVERY AND DEVELOPMENT COMPANY

GRACIE AND KING CLAIMS

SAN JUAN COUNTY, UTAH

Uranium

Reviewed by
DMEA OPERATING COMMITTEE
1-13-56
(date)

Joint Engineering and Geological Report

By

ward F. Albee, Geologist
Geological Survey

Carl Belser, Mining Engineer
Bureau of Mines

December 30, 1955

DMEA 3949

URANIUM DISCOVERY AND DEVELOPMENT COMPANY
GRACIE AND KING CLAIMS
SAN JUAN COUNTY, UTAH

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Figure — Follows page

1. Location map, Gracie and King claims, Uranium Discovery and Development Company, San Juan County, Utah..... 2
2. Geologic map showing the Gracie and King group of claims, existing drill holes, and location of proposed holes, Uranium Discovery and Development Company, San Juan County, Utah..... 2

DMEA 3949

URANIUM DISCOVERY AND DEVELOPMENT COMPANY
GRACIE AND KING CLAIMS
SAN JUAN COUNTY, UTAH

INTRODUCTION AND SUMMARY

Uranium Discovery and Development Company, Box 709, Wallace, Idaho, on August 12, 1955, made application for aid in an exploration project on the Gracie and King claims in San Juan County, Utah. The applicant proposed drilling six 1,500-foot holes to explore the basal Chinle at an estimated cost of $34,200.00. The property was examined by a team from the Geological Survey and the Bureau of Mines on November 2, 1955.

The claims are in sections 10, 11, and 12, T. 29 S., R. 23 E., Salt Lake meridian, San Juan County, Utah. The exposed rocks on the claims are the Entrada sandstone, the Summerville formation, and the Salt Wash member of the Morrison formation.

One hole, 1,516 feet deep, has been drilled by the applicant near the southeast corner of the claim group. This hole was barren. As further drilling on these claims would come under the heading of prospecting, the application is recommended for denial.

ACKNOWLEDGMENTS

The examining team was accompanied by Henry B. Dyer, geologist, U.S.G.S., and Sam K. Smyth, geologist, representing the applicant.

The AEC was consulted concerning the area before the examination was made.

LOCATION, TOPOGRAPHY, AND CLIMATE

The property submitted in the application consists of 22 unpatented claims in sections 10, 11, and 12, T. 29 S., R. 23 E., Salt Lake meridian, San Juan County, Utah (figs. 1 and 2).

The claims are in a solid block about 2 miles long from east to west and from 1,200 to 1,800 feet wide. The east end is on the north flank of a rolling hillside and the west end is in a flat dipping valley. Altitudes range from about 6,200 feet near the east and to about 5,700 feet at the west end. Pinon, suitable for some mine uses, grows on the higher ground. Water for domestic use can be hauled from Moab, and water for drilling purposes can be obtained from Coyote Wash. An electric power line is within a mile of the property.

The road to the Rattlesnake mine cuts through the northeast corner of the claims. It is 4 miles to La Sal Junction on U.S. Highway 160, 28 miles to Moab, Utah, and 64 miles to Thompson, Utah.

Labor and supplies can be obtained in Moab, Utah. The nearest railroad is the Denver and Rio Grand Western at Thompson. The Government maintains an ore buying depot at Moab.

Rainfall is light and year-around operation would be interrupted only during the severest storms.

HISTORY AND PRODUCTION

Activity in locating uranium claims in the Lisbon Valley area began shortly after Steen discovered the Mi Vida mine. The Gracie and King claims are 4 miles northwest of Steen's property in an area that requires deep drilling and were not located until 1954 by John Fairchild, Robert J. Boyle,

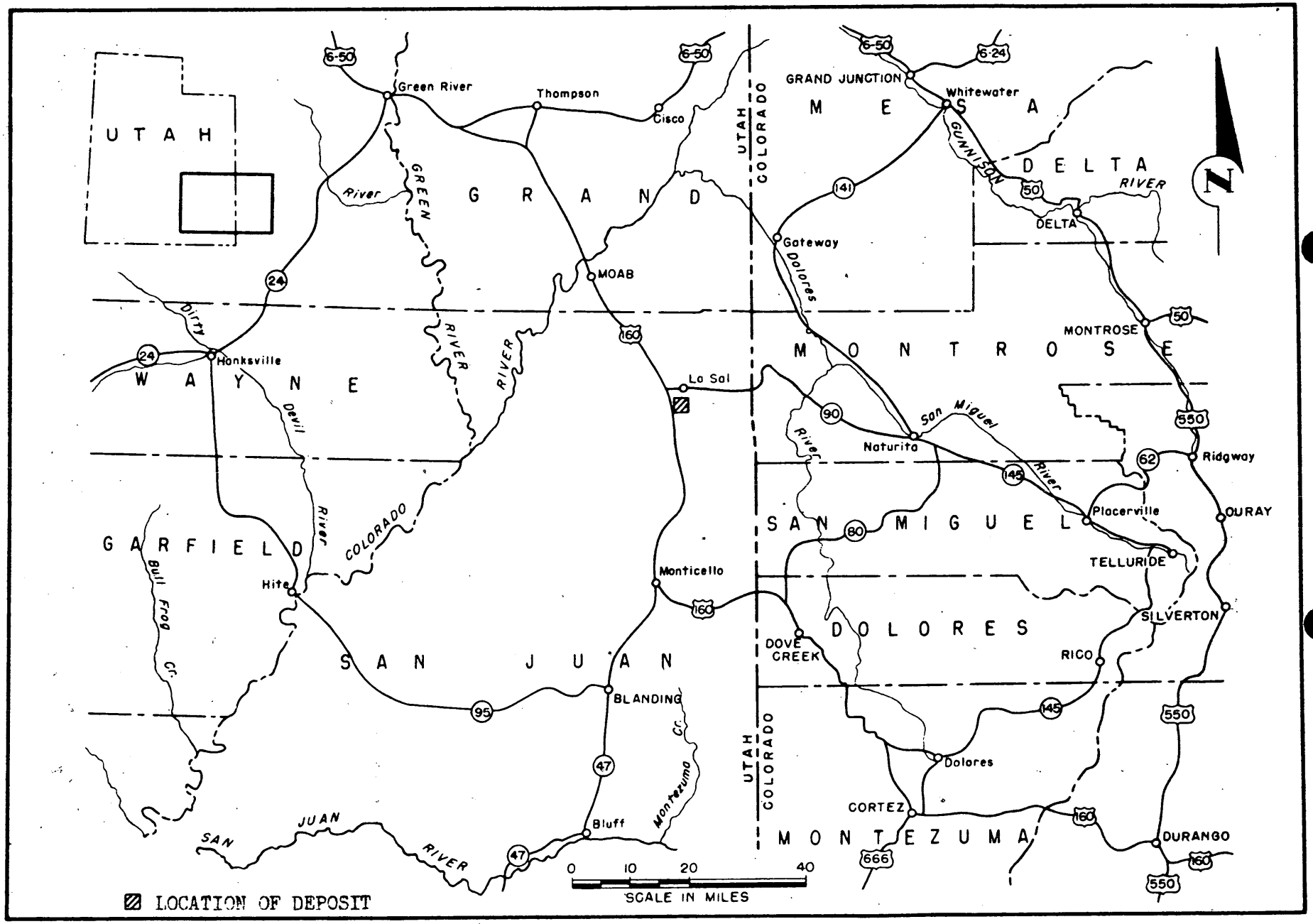

FIGURE 1 - LOCATION MAP, GRACIE AND KING CLAIMS, URANIUM DISCOVERY AND DEVELOPMENT COMPANY, SAN JUAN COUNTY, UTAH
DMEA 3949

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
DOCKET 3949 NOVEMBER 1955

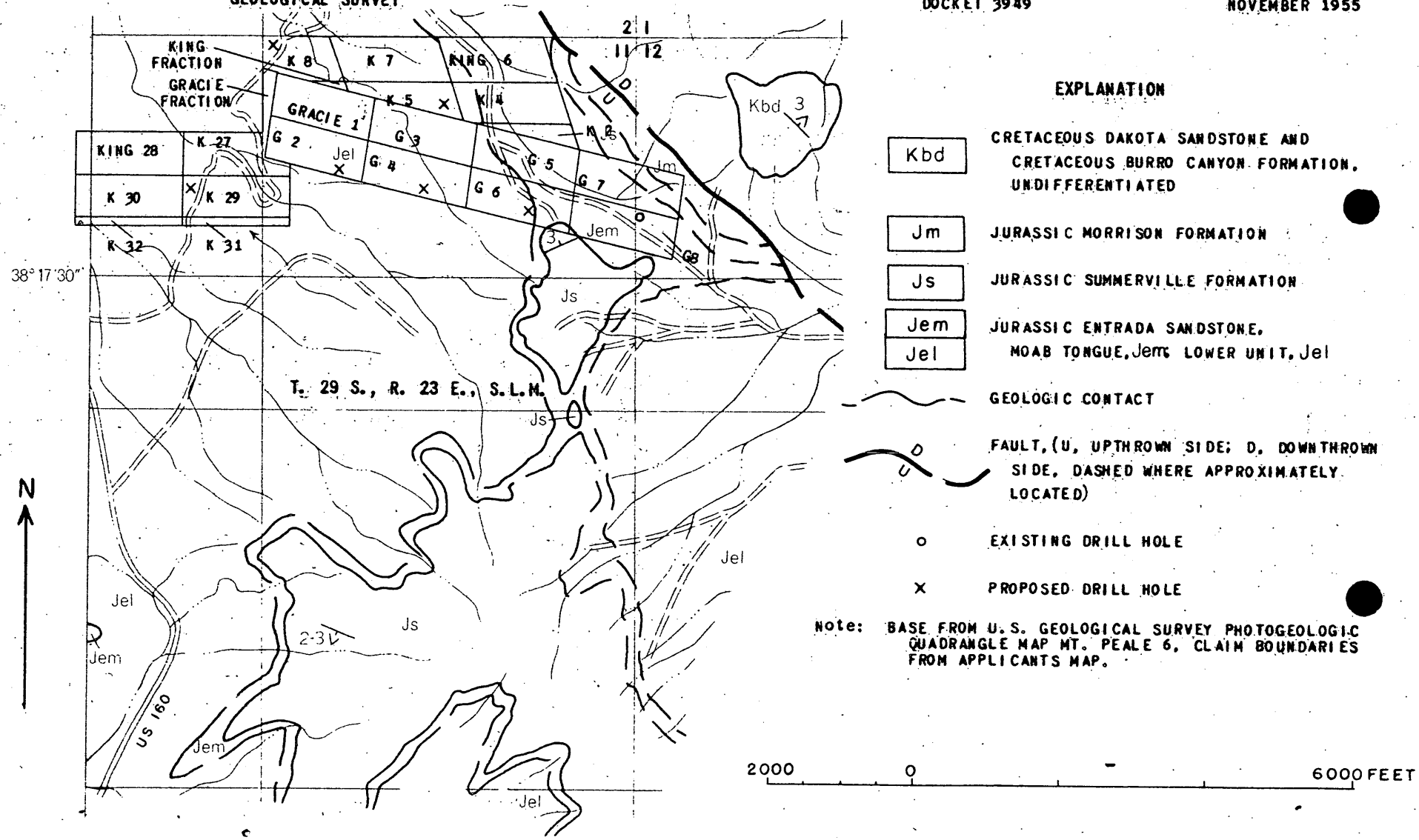

Figure 2. GEOLOGIC MAP SHOWING THE GRACIE AND KING GROUP OF CLAIMS, EXISTING DRILL HOLE AND LOCATION OF PROPOSED DRILL HOLES, URANIUM DISCOVERY AND DELELOPMENT COMPANY, SAN JUAN COUNTY, UTAH

and Albert Engart. These claims have been transferred to the applicant and a 1,516-foot hole has been drilled on the Gracie No. 8 claim.

No mine workings or pits have been dug, no ore shipped, and no ore or uranium mineralization discovered.

OWNERSHIP AND EXTENT

The claims are recorded in the records of the County Recorder of San Juan County, Utah, as follows:

Lease Applications

Claim	Book	Page	Date	Applicant
Gracie No. 1	111	108	6/16/54	John Fairchild and R. J. Boyle
Gracie No. 2	"	108	"	" "
Gracie No. 3	"	109	"	" "
Gracie No. 4	"	109	"	" "
Gracie No. 5	"	110	"	" "
Gracie No. 6	"	110	"	" "
Gracie No. 7	"	111	"	" "
Gracie No. 8	"	111	"	" "
King No. 2	119	220	6/30/54	R. J. Boyle
King No. 4	"	221	"	"
King No. 5	"	222	"	"
King No. 6	"	222	"	"
King No. 7	"	223	"	"
King No. 8	"	223	"	"
King No. 10	"	224	"	Albert Engart
King No. 27	"	233	"	"
King No. 28	"	233	"	"
King No. 29	"	234	"	"
King No. 30	"	234	"	"
King No. 31	"	235	"	"
King No. 32	"	235	"	"

Locations

Gracie Fraction	207	63	9/10/54	R. J. Boyle
Gracie No. 1	"	64	"	"
Gracie No. 2	"	64	"	"
Gracie No. 3	"	65	"	"
Gracie No. 4	"	65	"	"
Gracie No. 5	"	66	"	"

Claim	Book	Page	Date	Applicant
Gracie No. 6	207	66	9/10/54	R. J. Boyle
Gracie No. 7	"	67	"	"
Gracie No. 8	"	67	"	"
King No. 2	"	68	"	"
King No. 4	"	68	"	"
King No. 5	"	69	"	"
King No. 6	"	69	"	"
King No. 7	"	70	"	"
King No. 8	"	70	"	"
King No. 10	"	71	"	"
King No. 27	"	74	"	Albert Engart
King No. 28	"	75	"	"
King No. 29	"	75	"	"
King No. 30	"	76	"	"
King No. 31	"	76	"	"
King No. 32	"	77	"	"

Claim corners along the east end of the claim block have been destroyed and other corners such as the Kilt No. 10, located May 29, 1954, were noticed overlapping Gracie claims.

PRESENT STATUS

Exploration and Development

The only exploration consists of a 1,516-foot hole drilled on the Gracie No. 8 claim. No portion of this hole was cored. Sam K. Smyth stated that the Shinarump formation (probably basal Chinle) was 135 feet thick. The hole was devoid of uranium mineralization.

Mining and Milling Equipment and Other Facilities

There is no equipment of any kind on the property. About 300 feet of poor access roads lead to the claims.

GEOLOGY

Stratigraphic and Structural Relations

The rocks that crop out in the South Lisbon Valley area are comprised of Jurassic and Cretaceous strata (fig. 2). In ascending order these strata

are: the Entrada sandstone, the Summerville formation, and the Morrison formation of Jurassic age, and the Burro Canyon formation and Dakota sandstone of Cretaceous age.

The Lisbon Valley fault trends northwest through the area. The subject claims lie southwest of and adjacent to the fault on its upthrown side. The strata dip about 3° to the north, in the area, of the claims, whereas on the northeast side of the fault the strata dip about 15° to the northeast. Displacement on the fault near the claims is about 300 feet; however it lessens and dies out within a few miles to the northwest.

The rocks that crop out on the claims are the Entrada sandstone, the Summerville formation, and the Salt Wash member of the Morrison formation. The Summerville and the lower part of the Salt Wash crop out only on the northeast part of the Gracie No. 7 claim. The upper part of the Entrada forms a bluff across the eastern side of the claims and the remaining area lies in flat country underlain by Entrada, alluvium, and blowsand.

One non-core drill hole, drilled on the Gracie No. 8 claim (fig. 2), bottomed at 1,516 feet in the Permian Cutler formation. Two holes that were drilled a short distance northwest of the claims were bottomed at about 1,400 feet in the Cutler formation.

The drill hole on the Gracie No. 8 claim was logged for gamma-ray intensity by Empire Logging Company of Moab, Utah, and proved to be a barren hole. The following is a stratigraphic interpretation of the log as made by the logging company:

Age	Formation	Interval	Thickness
Jurassic	Entrada	0 - 230	230'
Jurassic	Carmel	230 - 280	50'
Jurassic	Navajo	280 - 578	298'
Jurassic	Kayenta	578 - 738	160'
Triassic	Wingate	738 - 1095	357'
Triassic	Chinle	1095 - 1512	417'
Permian	Cutler	1512 - 1516	4'
			1516'

Sand intervals in Chinle at (1200 - 1250)
(1290 - 1382)
(1492 - 1512)

Mineral Deposits

The nearest ore deposits in the Chinle ore horizon are about four miles southeast of the applicant's property. These deposits are along the Lisbon Valley fault but probably are not genetically related to it. Ore deposits in the Chinle have been found in the Big Indian Wash area in an arcuate belt that extends southerly from a point along the fault about four miles southeast of the subject claims then turns easterly and ends at a point where this belt again intersects the fault. This belt is bounded by contours at the base of the Chinle at elevations of 6,700 feet and 6;200 feet. No control is postulated for ore deposits being found between these two elevations, however, to date no significant Chinle ore deposits have been found in the Lisbon Valley vicinity in areas away from this belt. Ore deposits are known at the fault only where the arcuate belt intersects it at two places.

ORE RESERVES

There are no known ore reserves on the property.

PROPOSED EXPLORATION AND COSTS

The applicant proposed the drilling of six 1,500-foot holes spaced from 500 to 1,500 feet apart. These holes would explore the basal Chinle formation. The applicant's estimated costs follow:

Independent contracts

7,200 feet of non-core drilling at $3.00 per foot	-	$21,600.00
1,800 feet of core drilling at $7.00 per foot	-	$12,600.00
Total	-	$34,200.00

SUMMARY AND CONCLUSIONS

The Gracie and King claims are underlain at the surface by the Entrada sandstone. The ore bearing horizon of the Chinle formation, throughout most of the area, is at a minimum depth of 1,400 feet. No ore deposits are known in the Chinle closer to the applicant property than about four miles to the southeast. These nearest ore deposits are at a point where an arcuate belt, bounded by contours at the base of the Chinle at elevations of 6,700 and 6,200 feet, intersects the Lisbon Valley fault. No significant Chinle ore deposits have been found in the area away from this belt.

The applicant has not shown evidence of mineralized or favorable ground on the claims. The proposed project, with drilling in excess of 1,400 feet in such an area, is a prospecting venture. The examining team recommends that the application be denied.

1-11-56 Lgm

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

1956 JAN 6

January 6, 1956

224 New Customhouse
Denver 2, Colorado

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Field Team, Region III

Subject: Joint Report of Examination, DMEA Docket 3949 (Uranium), Uranium Discovery and Development Company, Gracie and King claims, San Juan County, Utah

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

The examiners found no evidence of the existence of a mineralized target area, and they recommend that the application be denied. We concur in this recommendation.

DMEA Field Team, Region III

By W. M. Trever
Executive Officer

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE

1-13-56
(date)

DMEA
Date Rec'd.

JAN 5 1956

Region III

BUREAU OF MINES
Denver, Colorado

Building 20
Denver Federal Center
Denver 2, Colorado
January 4, 1956

Memorandum

TRANSMITTED

JAN 6 1956

To: Executive Officer, DMEA Field Team, Region III

From: John F. Shaw
E. N. Harshman

Subject: Examination Report, docket DMEA 3949 (Uranium) Uranium Discovery and Development Company (Gracie and King claims) San Juan County, Utah

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Uranium Discovery and Development Company applied for exploration assistance to explore the Gracie and King claims in San Juan County, Utah, by drilling six 1,500-foot holes to the basal Chinle at an estimated cost of $34,200.00. The property was examined on November 2, 1955 by Howard F. Albee and Carl Belser. The examining team concluded that the proposed work would be prospecting rather than exploration and that there was little possibility of discovering a significant amount of uranium by the proposed work.

It is recommended that the application be denied.

Reviewed by
DMEA OPERATING COMMITTEE
1-13-56
(date)

John F. Shaw
John F. Shaw
Supervising Mining Engineer

E. N. Harshman
E. N. Harshman
Member, Field Team

Enclosures

cc 9
EHHarshman
DMEA 3949
Chron

JFS/cm

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

TRANSMITTED

JAN 6 1956

DMEA 3949

URANIUM DISCOVERY AND DEVELOPMENT COMPANY

SHACK AND KING CLAIMS

SAN JUAN COUNTY, UTAH

Examiner

Reviewed by
DMEA OPERATING COMMITTEE

1-13-56
(date)

Joint Engineering and Geological Report

By

Howard F. Albee, Geologist
Geological Survey

Carl Palmer, Mining Engineer
Bureau of Mines

December 30, 1955

DMEA 3949

URANIUM DISCOVERY AND DEVELOPMENT COMPANY
GRACIE AND KING CLAIMS
SAN JUAN COUNTY, UTAH

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Proposed exploration and costs 7
Summary and conclusions 7

ILLUSTRATIONS

Figure — Follows page

1. Location map, Gracie and King claims, Uranium Discovery and Development Company, San Juan County, Utah 2
2. Geologic map showing the Gracie and King group of claims, existing drill holes, and location of proposed holes, Uranium Discovery and Development Company, San Juan County, Utah 2

DMEA 3949

URANIUM DISCOVERY AND DEVELOPMENT COMPANY
GRACIE AND KING CLAIMS
SAN JUAN COUNTY, UTAH

INTRODUCTION AND SUMMARY

Uranium Discovery and Development Company, Box 709, Wallace, Idaho, on August 12, 1955, made application for aid in an exploration project on the Gracie and King claims in San Juan County, Utah. The applicant proposed drilling six 1,500-foot holes to explore the basal Chinle at an estimated cost of $34,200.00. The property was examined by a team from the Geological Survey and the Bureau of Mines on November 2, 1955.

The claims are in sections 10, 11, and 12, T. 29 S., R. 23 E., Salt Lake meridian, San Juan County, Utah. The exposed rocks on the claims are the Entrada sandstone, the Summerville formation, and the Salt Wash member of the Morrison formation.

One hole, 1,516 feet deep, has been drilled by the applicant near the southeast corner of the claim group. This hole was barren. As further drilling on these claims would come under the heading of prospecting, the application is recommended for denial.

ACKNOWLEDGMENTS

The examining team was accompanied by Henry R. Dyer, geologist, U.S.G.S., and Sam K. Smyth, geologist, representing the applicant.

The AEC was consulted concerning the area before the examination was made.

LOCATION, TOPOGRAPHY, AND CLIMATE

The property submitted in the application consists of 22 unpatented claims in sections 10, 11, and 12, T. 29 S., R. 23 E., Salt Lake meridian, San Juan County, Utah (figs. 1 and 2).

The claims are in a solid block about 2 miles long from east to west and from 1,200 to 1,800 feet wide. The east end is on the north flank of a rolling hillside and the west end is in a flat dipping valley. Altitudes range from about 6,200 feet near the east end to about 5,700 feet at the west end. Pinon, suitable for some mine uses, grows on the higher ground. Water for domestic use can be hauled from Moab, and water for drilling purposes can be obtained from Coyote Wash. An electric power line is within a mile of the property.

The road to the Rattlesnake mine cuts through the northeast corner of the claims. It is 4 miles to La Sal Junction on U.S. Highway 160, 28 miles to Moab, Utah, and 64 miles to Thompson, Utah.

Labor and supplies can be obtained in Moab, Utah. The nearest railroad is the Denver and Rio Grand Western at Thompson. The Government maintains an ore buying depot at Moab.

Rainfall is light and year-around operation would be interrupted only during the severest storms.

HISTORY AND PRODUCTION

Activity in locating uranium claims in the Lisbon Valley area began shortly after Steen discovered the Mi Vida mine. The Gracie and King claims are 4 miles northwest of Steen's property in an area that requires deep drilling and were not located until 1954 by John Fairchild, Robert J. Boyle,

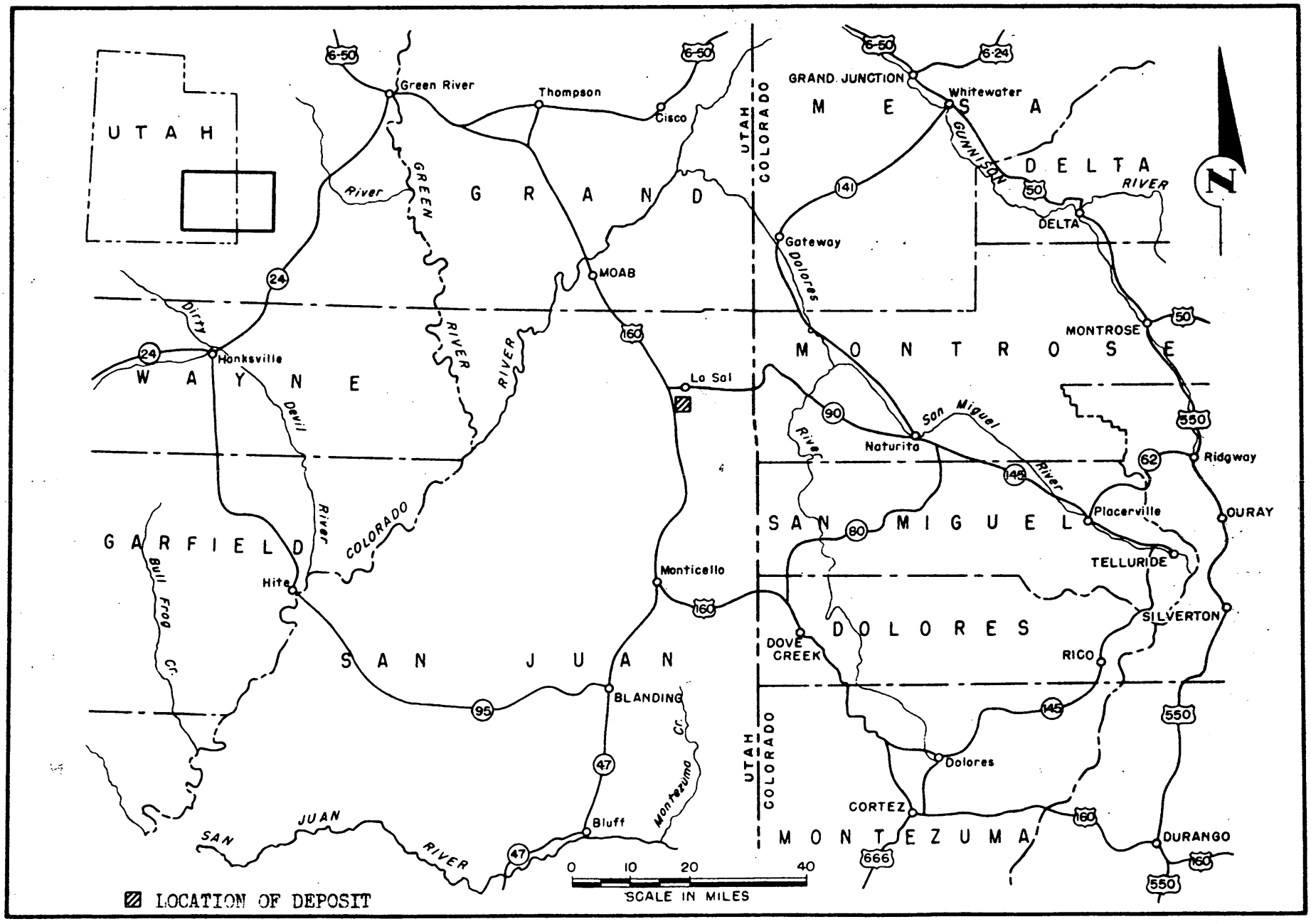

FIGURE 1 - LOCATION MAP, GRACIE AND KING CLAIMS, URANIUM DISCOVERY AND DEVELOPMENT COMPANY, SAN JUAN COUNTY, UTAH
DMEA 3949

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
DOCKET 3949 NOVEMBER 1955

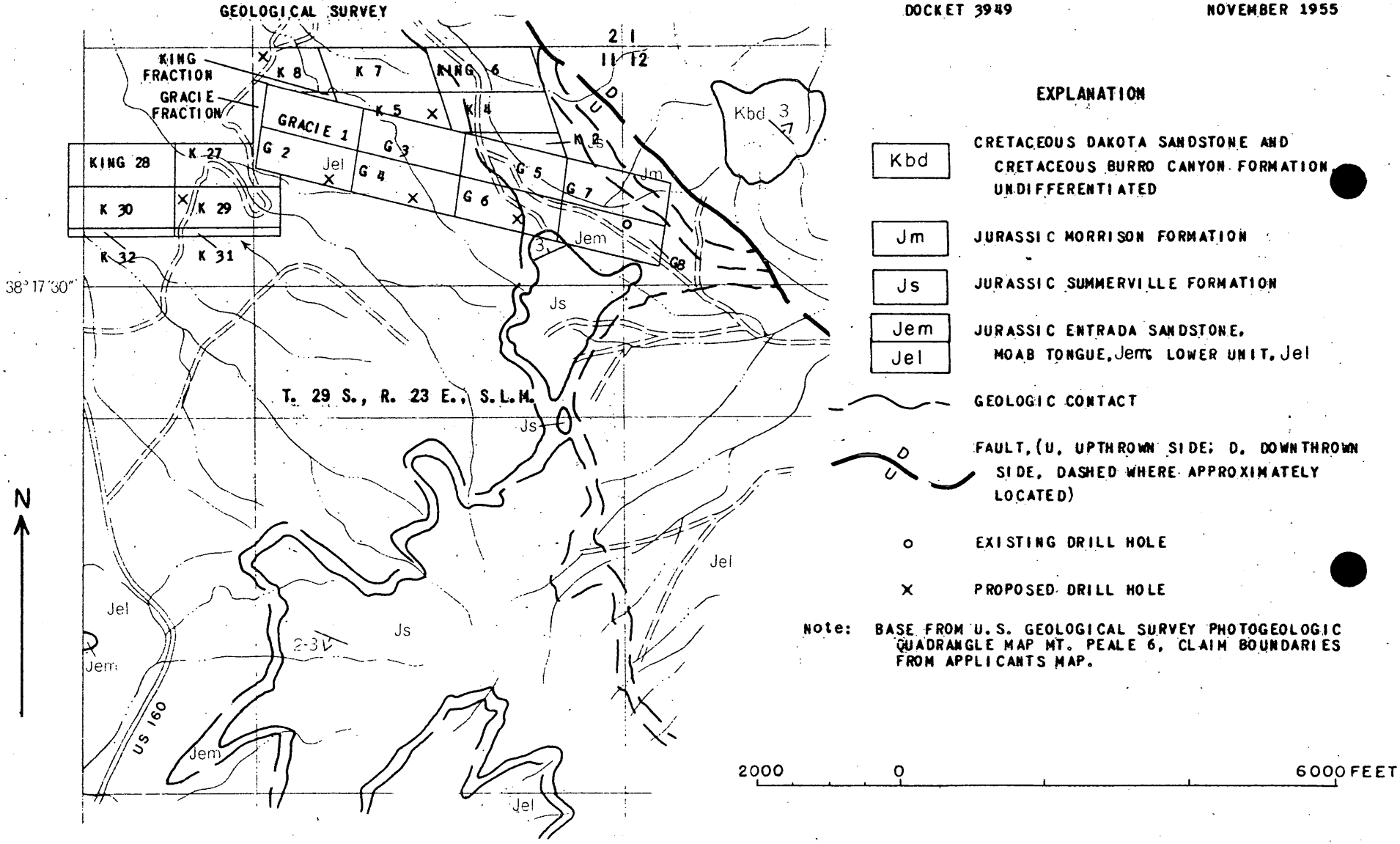

Figure 2. GEOLOGIC MAP SHOWING THE GRACIE AND KING GROUP OF CLAIMS, EXISTING DRILL HOLE AND LOCATION OF PROPOSED DRILL HOLES, URANIUM DISCOVERY AND DELELOPMENT COMPANY, SAN JUAN COUNTY, UTAH

and Albert Bagart. These claims have been transferred to the applicant and a 1,516-foot hole has been drilled on the Gracie No. 8 claim.

No mine workings or pits have been dug, no ore shipped, and no ore or uranium mineralization discovered.

OWNERSHIP AND EXTENT

The claims are recorded in the records of the County Recorder of San Juan County, Utah, as follows:

Lessee Applications

Claim	Book	Page	Date	Applicant
Gracie No. 1	111	108	6/16/54	John Fairchild and R. J. Boyle
Gracie No. 2	"	108	"	" "
Gracie No. 3	"	109	"	" "
Gracie No. 4	"	109	"	" "
Gracie No. 5	"	110	"	" "
Gracie No. 6	"	110	"	" "
Gracie No. 7	"	111	"	" "
Gracie No. 8	"	111	"	" "
King No. 2	119	220	6/30/54	R. J. Boyle
King No. 4	"	221	"	"
King No. 5	"	222	"	"
King No. 6	"	222	"	"
King No. 7	"	223	"	"
King No. 8	"	223	"	"
King No. 10	"	224	"	Albert Bagart
King No. 27	"	233	"	"
King No. 28	"	233	"	"
King No. 29	"	234	"	"
King No. 30	"	234	"	"
King No. 31	"	235	"	"
King No. 32	"	235	"	"

Locations

Gracie Fraction	207	63	9/10/54	R. J. Boyle
Gracie No. 1	"	64	"	"
Gracie No. 2	"	64	"	"
Gracie No. 3	"	65	"	"
Gracie No. 4	"	65	"	"
Gracie No. 5	"	66	"	"

Claim	Book	Page	Date	Applicant
Gracie No. 6	207	66	9/10/54	R. J. Boyle
Gracie No. 7	"	67	"	"
Gracie No. 8	"	67	"	"
King No. 2	"	68	"	"
King No. 4	"	68	"	"
King No. 5	"	69	"	"
King No. 6	"	69	"	"
King No. 7	"	70	"	"
King No. 8	"	70	"	"
King No. 10	"	71	"	"
King No. 27	"	74	"	Albert Bagart
King No. 28	"	75	"	"
King No. 29	"	75	"	"
King No. 30	"	76	"	"
King No. 31	"	76	"	"
King No. 32	"	77	"	"

Claim corners along the east end of the claim block have been destroyed and other corners such as the Kilt No. 10, located May 29, 1954, were noticed overlapping Gracie claims.

PRESENT STATUS

Exploration and Development

The only exploration consists of a 1,516-foot hole drilled on the Gracie No. 8 claim. No portion of this hole was cored. Sam K. Smyth stated that the Shinarump formation (probably basal Chinle) was 135 feet thick. The hole was devoid of uranium mineralization.

Mining and Milling Equipment and Other Facilities

There is no equipment of any kind on the property. About 300 feet of poor access roads lead to the claims.

GEOLOGY

Stratigraphic and Structural Relations

The rocks that crop out in the South Lisbon Valley area are comprised of Jurassic and Cretaceous strata (fig. 2). In ascending order these strata

are: the Entrada sandstone, the Summerville formation, and the Morrison formation of Jurassic age, and the Burro Canyon formation and Dakota sandstone of Cretaceous age.

The Lisbon Valley fault trends northwest through the area. The subject claims lie southwest of and adjacent to the fault on its upthrown side. The strata dip about 3° to the north, in the area, of the claims, whereas on the northeast side of the fault the strata dip about 15° to the northeast. Displacement on the fault near the claims is about 300 feet; however it lessens and dies out within a few miles to the northwest.

The rocks that crop out on the claims are the Entrada sandstone, the Summerville formation, and the Salt Wash member of the Morrison formation. The Summerville and the lower part of the Salt Wash crop out only on the northeast part of the Gracie No. 7 claim. The upper part of the Entrada forms a bluff across the eastern side of the claims and the remaining area lies in flat country underlain by Entrada, alluvium, and blowsand.

One non-core drill hole, drilled on the Gracie No. 8 claim (fig. 2), bottomed at 1,516 feet in the Permian Cutler formation. Two holes that were drilled a short distance northwest of the claims were bottomed at about 1,400 feet in the Cutler formation.

The drill hole on the Gracie No. 8 claim was logged for gamma-ray intensity by Empire Logging Company of Moab, Utah, and proved to be a barren hole. The following is a stratigraphic interpretation of the log as made by the logging company:

Age	Formation	Interval	Thickness
Jurassic	Entrada	0 - 230	230'
Jurassic	Carmel	230 - 280	50'
Jurassic	Navajo	280 - 578	298'
Jurassic	Kayenta	578 - 738	160'
Triassic	Wingate	738 - 1095	357'
Triassic	Chinle	1095 - 1512	417'
Permian	Cutler	1512 - 1516	4'
			1516'

Sand intervals in Chinle at (1200 - 1250)
(1290 - 1382)
(1492 - 1512)

Mineral Deposits

The nearest ore deposits in the Chinle ore horizon are about four miles southeast of the applicant's property. These deposits are along the Lisbon Valley fault but probably are not genetically related to it. Ore deposits in the Chinle have been found in the Big Indian Wash area in an arcuate belt that extends southerly from a point along the fault about four miles southeast of the subject claims then turns easterly and ends at a point where this belt again intersects the fault. This belt is bounded by contours at the base of the Chinle at elevations of 6,700 feet and 6,200 feet. No control is postulated for ore deposits being found between these two elevations, however, to date no significant Chinle ore deposits have been found in the Lisbon Valley vicinity in areas away from this belt. Ore deposits are known at the fault only where the arcuate belt intersects it at two places.

ORE RESERVES

There are no known ore reserves on the property.

PROPOSED EXPLORATION AND COSTS

The applicant proposed the drilling of six 1,500-foot holes spaced from 500 to 1,500 feet apart. These holes would explore the basal Chinle formation. The applicant's estimated costs follow:

Independent contracts

7,200 feet of non-core drilling at $3.00 per foot	-	$21,600.00
1,800 feet of core drilling at $7.00 per feet	-	$12,600.00
Total	-	$34,200.00

SUMMARY AND CONCLUSIONS

The Gracie and King claims are underlain at the surface by the Entrada sandstone. The ore bearing horizon of the Chinle formation, throughout most of the area, is at a minimum depth of 1,400 feet. No ore deposits are known in the Chinle closer to the applicant property than about four miles to the southeast. These nearest ore deposits are at a point where an arcuate belt, bounded by contours at the base of the Chinle at elevations of 6,700 and 6,200 feet, intersects the Lisbon Valley fault. No significant Chinle ore deposits have been found in the area away from this belt.

The applicant has not shown evidence of mineralized or favorable ground on the claims. The proposed project, with drilling in excess of 1,400 feet in such an area, is a prospecting venture. The examining team recommends that the application be denied.

Surname 700

Murphy
Ellis
Selfridge

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

SEP 20 1955

Uranium Discovery and
Development Company
Box 709
Wallace, Idaho

Re: Docket No. DMEA-3949 (Uranium)
Gracie and King claims
San Juan County, Utah

Gentlemen:

The application for assistance in exploring the subject property under the captioned docket number has been reviewed by the Rare and Miscellaneous Metals Division.

The DMEA Field Team, Region III, Mr. W. M. Traver, Executive Officer, 224 New Customhouse Building, Denver 2, Colorado, will schedule a field examination of your property in the near future if it has not already done so.

Any assistance you may give the members of the Field Team during the examination will be appreciated.

Sincerely yours,

C. O. Mittendorf (for)

Administrator

FMMurphy:am
9-19-55
cc to: Admr. Reading File
Docket
Messrs. J. E. Crawford, Rm. 3641
T. H. Kiilsgaard, Rm. 5222
J. O. Hosted, Rm. 3210, GSA
Code 700
Mr. Murphy
DMEA Field Team, Region III(2)

R.C.S.

RECEIVED

SEP 1 3 1955

September 12, 1955

Memorandum

To: John F. Shaw

From: Superintendent, Denver Experiment Station, Reg. III

Subject: Docket No. DMEA 3949 (Uranium), Uranium Discovery and Development Company, Gracie and King claims, San Juan County, Utah

The subject application in the amount of $34,200.00 is enclosed herewith. The brochure consists of:

1. Form MF-103 and accompanying sheets
2. Claim map showing claims and proposed drill hole locations
3. Photocopy of memo from W. F. Williams to E. W. Ellis
4. Photocopy of memo from John E. Crawford to E. W. Ellis
5. Photocopy of letter of transmittal from Chairman Operating Committee to Executive Officer Traver.

A field examination and suitable report are required. The completed report should be sent directly to the Executive Officer with a copy of your memo of transmittal to this office.

W. H. KING

W. H. King

Enclosures

Copy to: E. N. Harshman
J. W. Hasler
W. M. Traver (3)
Sec. Op. Comm (2)

RECEIVED
SEP 1 3 1955

September 12, 1955

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From: Superintendent, Denver Experiment Station, Reg. III

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W. E. KING
W. E. King

Enclosures

Copy to: E. N. Harshman
J. W. Mealer
W. M. Traver (3)

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

RECEIVED
SEP 12 1955

224 New Customhouse
Denver 2, Colorado

September 8, 1955

Memorandum

To: W. H. King (with brochure)
J. W. Hasler

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket No. DMEA-3949 (Uranium), Uranium Discovery and Development Company, Gracie and King claims, San Juan County, Utah.

Enclosed is the subject application in the amount of $34,200.00. The brochure consists of:

1. Form MF-103 and accompanying answer sheets.
2. Claim map showing proposed drill hole.
3. Letter of September 2, 1955, from Chairman of the Operating Committee to W. M. Traver.
4. Memorandum from John. E. Crawford to E. W. Ellis.
5. Memorandum from W. P. Williams to E. W. Ellis.

A field examination and suitable report are indicated.

W. M. Traver
W. M. Traver

Enclosures

JDC:jy

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

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

RECEIVED
SEP 1 2 1955

224 New Customhouse
Denver 2, Colorado

September 6, 1955

Memorandum

To: W. H. King (with brochure)
J. W. Masler

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket No. DMEA-3949 (Uranium), Uranium Discovery and Development Company, Gracie and King claims, San Juan County, Utah.

Enclosed is the subject application in the amount of $34,200.00. The brochure consists of:

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4. Memorandum from John. S. Crawford to E. H. Ellis.
5. Memorandum from W. C. Williams to E. H. Ellis.

A field examination and suitable report are indicated.

W. M. Traver
W. M. Traver

Enclosures

JDC:jy

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

Surname 700

Murphy
Ellis
Selfridge
Mitterdorf

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

Mr. W. H. Traver
Executive Officer
DMEA Field Team, Region III
27h New Customhouse Building
Denver 2, Colorado

SEP -2 1955

Re: Docket No. DMEA-3949 (Uranium)
Uranium Discovery and
Development Company
Gracie and King claims
San Juan County, Utah

Dear Mr. Traver:

Enclosed are copies of memoranda from J. E. Crawford, dated August 22, and W. P. Williams, dated August 29, 1955, members of the Uranium Commodity Committee.

You will note that both Commodity Members recommend denial of the subject application. We concur in this denial unless recent drilling on adjacent land indicates that the subject property is situated along an exceptionally favorable trend of mineralization. Your comments, based on available data of the area, will be appreciated.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (SLB)

Enclosures

APPROVED:

P. F. Lopes (SLB)
Member, Bureau of Mines

(S) M. E. Nelson (SLB)
Member, Geological Survey

FMurphy:am
8-31-55
cc to: Admr. Reading File
Operating Committee
Docket
Messrs. J. E. Crawford, Rm. 3641
T. H. Kiilsgaard, Rm. 5222
J. O. Hosted, Rm. 3210, GSA
Code 700
Mr. Murphy

P.C.S.

8/30/55-gla

IN REPLY REFER TO:

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

RECEIVED
AUG 30 1955

August 29, 1955

Memorandum

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

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

Subject: Review of DMEA application, Docket No. 3949, Uranium Discovery and Development Company, Gracie and King claims, San Juan County, Utah.

In an extremely brief application the applicant proposes to explore 20 mining claims and two fractions by means of six diamond drill holes. The holes are intended to test the Shinarump formation which means that drill hole depths would be more than 1500 feet. Photogeologic maps show that the property probably contains, at the eastern edge, an outcrop of Morrison. However the area of Morrison would not be great enough to permit exploration thereon.

The ore-bearing zone of the lower Chinle does not outcrop on the property. The property is located south of and adjacent to DMEA 3602, Vivian Uranium Mining Co. DMEA 3602 was denied on the grounds that neither uranium mineralization nor a potential ore zone were known to exist on the property.

One hole has been drilled on the property. The hole did not encounter mineralization. Hole locations proposed by the applicant are more than 1200 feet apart.

The east boundary of the property is only about 1500 feet west of Continental Uranium Company's Rattlesnake Mine which is producing significant tonnages from the Morrison formation. However, the Lisbon Valley fault passes between the Rattlesnake Mine and the subject property. Hence, the Morrison is generally not present on the property.

The application in its present form represents a prospecting venture. I recommend that the application be denied without prejudice. It may be advisable to request concurrence from the Field Team in the denial. It should not be necessary to make a complete field examination of the subject property.

WPWilliams

W. P. Williams

IN REPLY REFER TO:

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

RECEIVED
AUG 30 1955

August 29, 1955

Memorandum

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

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

Subject: Review of DMEA application, Docket No. 3949, Uranium Discovery and Development Company, Gracie and King claims, San Juan County, Utah.

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The ore-bearing zone of the lower Chinle does not outcrop on the property. The property is located south of and adjacent to DMEA 3602, Vivian Uranium Mining Co. DMEA 3602 was denied on the grounds that neither uranium mineralization nor a potential ore zone were known to exist on the property.

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The application in its present form represents a prospecting venture. I recommend that the application be denied without prejudice. It may be advisable to request concurrence from the Field Team in the denial. It should not be necessary to make a complete field examination of the subject property.

WPWilliams:iml
G-8/29/55
cc: Director's reading, 4212
Branch reading, 4212
DMEA (3); Docket file; J. E. Crawford, 3641; J. O. Hosted, 3210

WPW

W. P. Williams

8/23/55 gla

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

August 22, 1955

Memorandum

RECEIVED
AUG 2 2 1955

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

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

Subject: Application for assistance, DMEA Docket 3949, Uranium Discovery and Development Company, San Juan County, Utah

I have reviewed the attached application, Uranium Discovery and Development Company, DMEA Docket 3949; and I have discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

Apparently no surface mineralization occurs on the King and Gracie claims. Results of one hole drilled indicated the Shinarump formation and other strata penetrated were barren of uranium mineralization. The hole was reported in the application to be 1,516 feet deep, and the Shinarump formation 135 feet thick. No indication was given with regard to depth of the Shinarump. The log of the hole, which the applicant states was attached, could not be found.

Drilling costs of $3.00 per foot for non-core type and $7.00 per foot for core type appear excessive. Such costs may be accounted for by the relatively deep holes planned by the applicant. The average depth of the six holes is 1,500 feet and the average cost is $5,700 per hole.

The fact that the King and Gracie claims lie in the Lisbon Valley, nine miles northwest of the Mi Vida mine and other uranium producers does not imply that similar ore deposits will be found on the claims. The apparent depth of the Shinarump formation in the area and the results of the one hole previously drilled by the applicant also emphasize that the proposed project is a prospecting venture.

We suggest that the application be denied.

John E. Crawford

John E. Crawford

Attachment

August 17, 1955
Subject: DMEA-3949
Re: Exploration Assistance
Uranium Discovery and
Development Company

Uranium Discovery & Development Co.
Box 709
Wallace, Idaho

Gentlemen:

The receipt of your application dated August 12, 1955 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-3949 and referred to the Rare and Miscellaneous Metals Division.

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

Sincerely yours,

Robert E. Adams, Chief
Operations Control and
Statistics Division

60932

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED
AUG 17 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. 3949
Metal or Mineral Uranium
Date Received 8-17-55
Estimated Cost None
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: Uranium Discovery ~~xx~~ and Development Company, Box 709, Wallace, Idaho. Corporation incorporated in Idaho. R.J.Bruning, 10 High St.Wallace, Idaho,president; Piatt Hull, box 709, Wallace, Idaho, Sec-Treas; Richard Fudge,Wallace,Idaho, vice president.

(*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 Gracie and King groups of unpatented mining claims located in San Juan County, Utah, in Sections 10, 11 and 12, Township 29 South, Range 23 East Salt Lake Meridian (Big Indian Wash). Area equal to 18 claims.

(*b*) State any mine name by which the property is known. Uranium Discovery & Development Co.

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise Owner

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

(*e*) If you own the land, describe any liens or encumbrances on it Royalty raging from 5 to 15 per cent to original owners from whom purchased.

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. See supplementary sheetxfor this and following questions.

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 ..... days and be completed within ..... 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.

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(*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)? Yes

(*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 August 12, 1955

Uranium Discovery & Development Co.
(Applicant)

By R. J. Bruning
R. J. Bruning, President
10 High Street
Wallace, Idaho

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

Uranium Discovery and Development Company
Box 709
WALLACE, IDAHO

APPLICATION FOR AID IN AN EXPLORATION PROJECT

By Uranium Discovery and Development Co.
Box 709
Wallace, Idaho

3. (f) Location of Gracie and King unpatented mining claims mentioned inthis application are recorded in the County of San Juan, Monticello, Utah, as follows:

	Book	Page
King 2	207	68
King 4	207	68
King 5 Fraction	207	69
King 6	207	69
King 7	207	70
King 8	207	70
King 10	207	71
King 27	207	74
King 28	207	75
King 29	207	75
King 30	207	76
King 31	207	76
King 32	207	77
Gracie Fraction	207	63
Gracie 1	207	64
Gracie 2	207	64
Gracie 3	207	65
Gracie 4	207	65
Gracie 5	207	66
Gracie 6	207	66
Gracie 7	207	67
Gracie 8	207	67

4. (a) One hole has been drilled to a depth of 1516 on the Gracie 8 claim (see accompanying sketch). This hole showed the thickness of the Shinarump formation to be 135 feet, butthere was no mineralization. Apex Exploration Company drilled thehole, which was logged by Empire Logging Company. The log accompanies this application.

(b) There has been no production from this property and no orehas been developed.

Uranium Discovery and Development Company
Box 709
WALLACE, IDAHO

APPLICATION FOR AID IN AN EXPLORATION PROJECT

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4. (c) The property lies on the southwest side of the Lisbon fault, nine miles northwest of the Mi Vida mine. Exploration along this fault to the southeast has proved the existence of several large uranium ore bodies and the applicant feels the thickness of the Shinarump formation warrants further exploration of this property.

(d) The property lies about 30 miles south of Moab, Utah, and about two miles east of U.S. highway 160. A graveled state road traverses the property.

(e) A number of mining properties are operating in Lisbon Valley at the present time, indicating availability of manpower, materials supplies, equipment, water and power is sufficient for any size operation.

5. (a) The project is designed to explore for uranium.

(b) It is planned to drill six holes at widely separated points, making a total of seven on the property. The holes would be drilled to a depth of about 1500 feet each to penetrate the Shinarump formation, as determined by the one hole already drilled. The accompanying sketch shows the proposed location of these drill holes.

(c) Date that the work would start would depend upon availability of drillers. The work would require about two months.

(d) The applicant has retained Sam K. Smyth, Grand Junction, Colo., a registered mining engineer and formerly with the AEC, to supervise its exploration work.

6. Estimates of cost. Apex Exploration Company drilled the first hole on a bid of $3 per foot for non-coring and $7 per foot for coring. On this basis six holes would cost $34,200. (7200 feet of non-coring at $3 a foot, $21,600--six holes of 1200 feet each--and 1800 feet of cored hole at $7 a foot, $12,600--six holes of 300 feet each.

7. U.D. & D. is prepared to furnish its share of the cost of the proposed project by money.

21

23

24

285.

295

Big ore body ?

Continental Uranium Rattlesnake mine

Amuranium 3470 Zfm 760

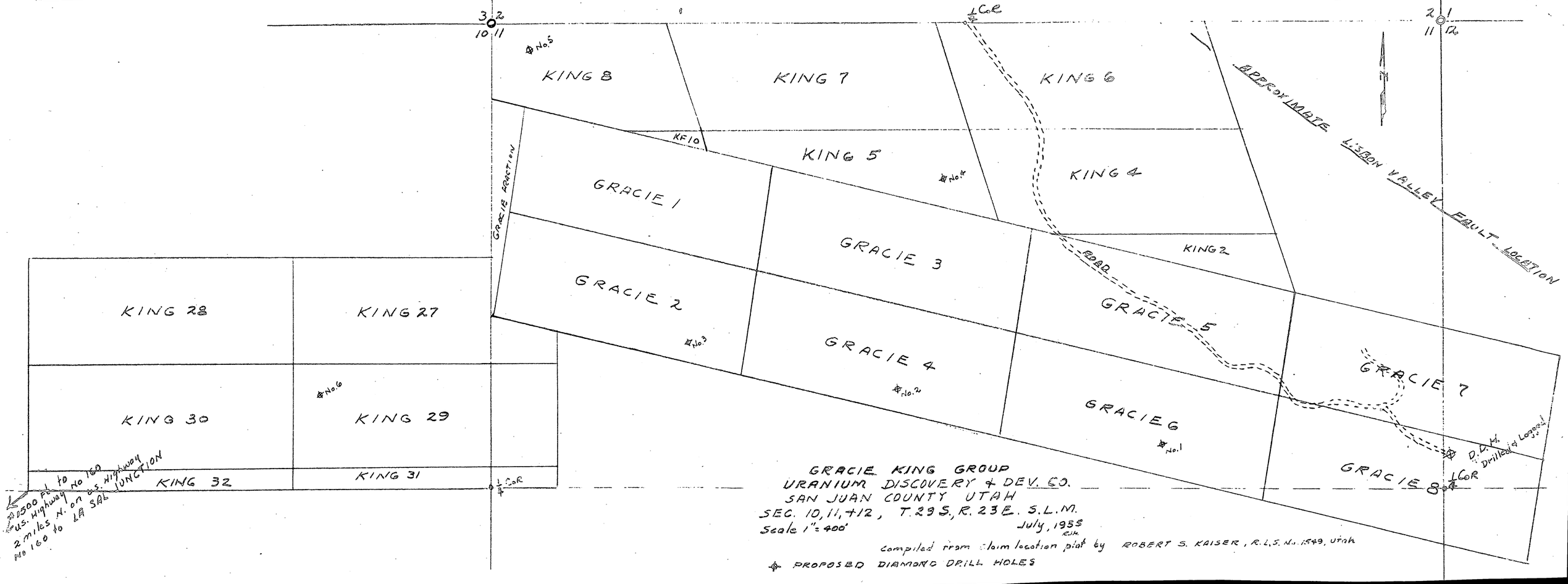
3	2	1	6	5	4	3	2	1
10	11	12	7	8	9	10	11	12
16	17	18	13	14	15	16	17	18
			19	20	21	22	23	24
			29	26	27	28	29	30
			36	35	34	33	32	31

Please return to

Uranium Discovery & Develop ent Co.

Box 709

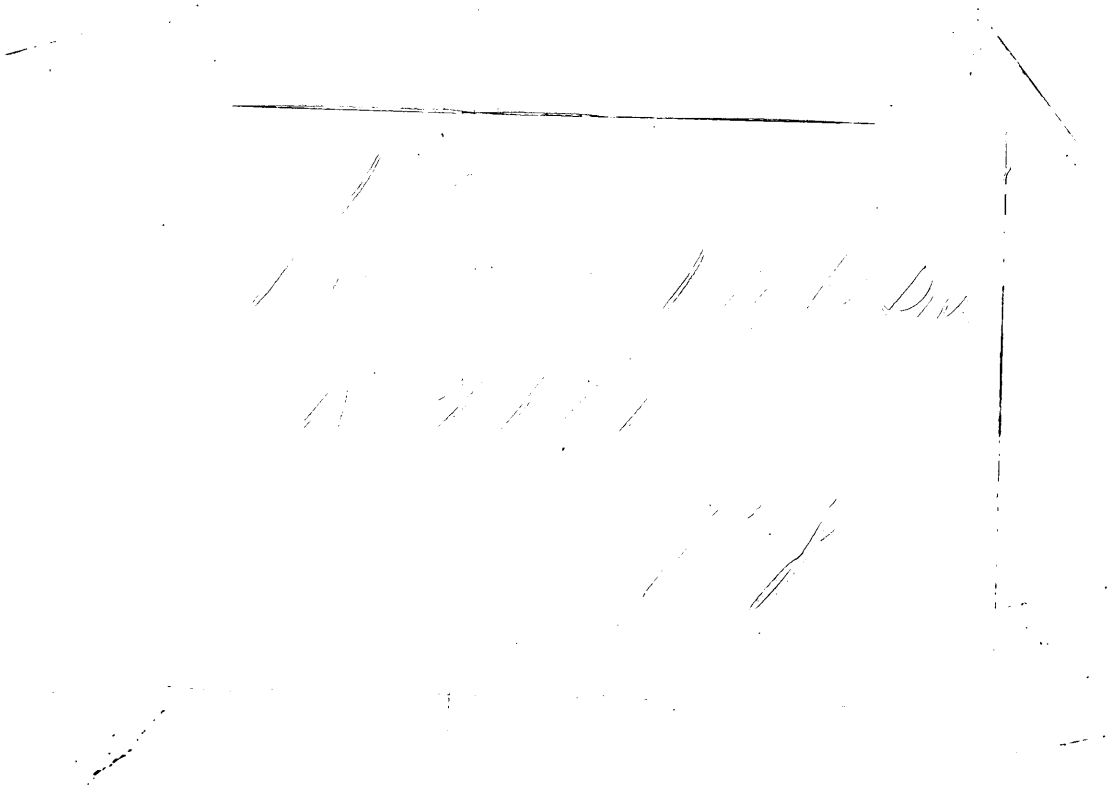
Wallace, Idaho



GRACIE KING GROUP
URANIUM DISCOVERY & DEV. CO.
SAN JUAN COUNTY UTAH
SEC. 10, 11, + 12, T. 29 S., R. 23 E. S.L.M.
Scale 1" = 400'
July, 1955
R.S.K.

Compiled from claim location plat by ROBERT S. KAISER, R.L.S. No. 1549, Utah

✱ PROPOSED DIAMOND DRILL HOLES



Crawford

MF-103
(Revised April 1952)

RECEIVED
AUG 17 1955

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

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. 3949
Metal or Mineral Uranium
Date Received 8-17-55
Estimated Cost None
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: Uranium Discovery xx and Development Company, Box 709, Wallace, Idaho. Corporation incorporated in Idaho. R.J.Bruning, 10 High St. Wallace, Idaho, president; Platt Hull, box 709, Wallace, Idaho, Sec-Treas; Richard Fudge, Wallace, Idaho, vice president.

(*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: Gracie and King groups of unpatented mining claims located in San Juan County, Utah, in Sections 10, 11 and 12, Township 29 South, Range 23 East Salt Lake Meridian (Big Indian Wash). Area equal to 18 claims.

(*b*) State any mine name by which the property is known: Uranium Discovery & Development Co.

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise: Owner

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

(*e*) If you own the land, describe any liens or encumbrances on it: Royalty raging from 5 to 15 per cent to original owners from whom purchased.

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. See supplementary sheetxfor this and following questions.

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 ..... days and be completed within ..... 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.).

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Explain in detail on acompanying paper.

CERTIFICATION

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Dated August 12, 1955

Uranium Discovery & Development Co.
(Applicant)

By R. J. Bruning
R. J. Bruning, President
10 High Street
Wallace, Idaho

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U. S. GOVERNMENT PRINTING OFFICE 16—66551-1

APPLICATION FOR AID IN AN EXPLORATION PROJECT

By Uranium Discovery and Development Co.
Box 709
Wallace, Idaho

Supplementary
Page No. 1

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APPLICATION FOR AID IN AN EXPLORATION PROJECT

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Supplementary
Page No. 2

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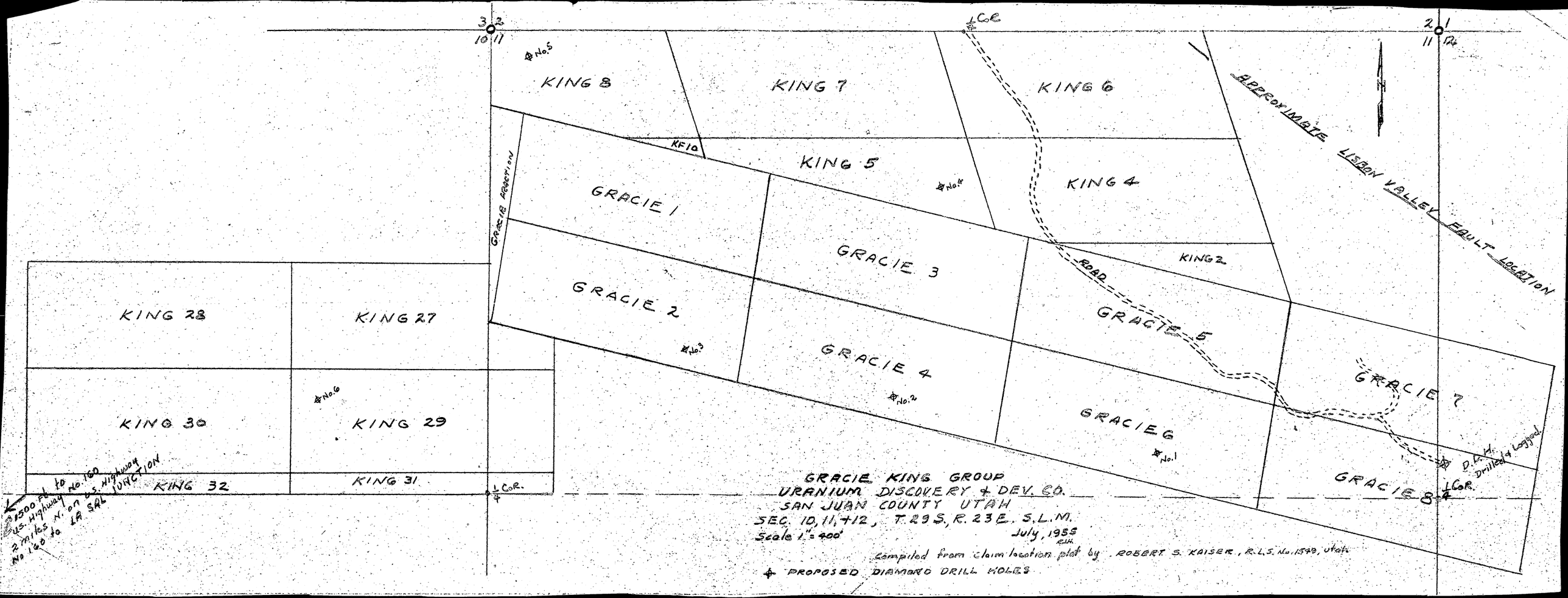


GRACIE KING GROUP
URANIUM DISCOVERY & DEV. CO.
SAN JUAN COUNTY UTAH
SEC. 10, 11, +12, T. 29 S, R. 23 E. S.L.M.
Scale 1" = 400'
July, 1955
R.H.H.

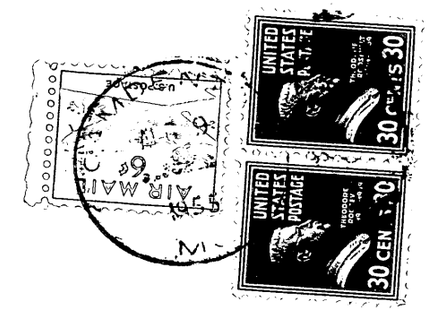
Compiled from claim location plat by ROBERT S. KAISER, R.L.S. No. 1549, Utah.

✚ PROPOSED DIAMOND DRILL HOLES

RECEIVED
AUG 17 1955

FROM
THE OZARKS EXPLORATIONS CO
CAMDENTON, MISSOURI

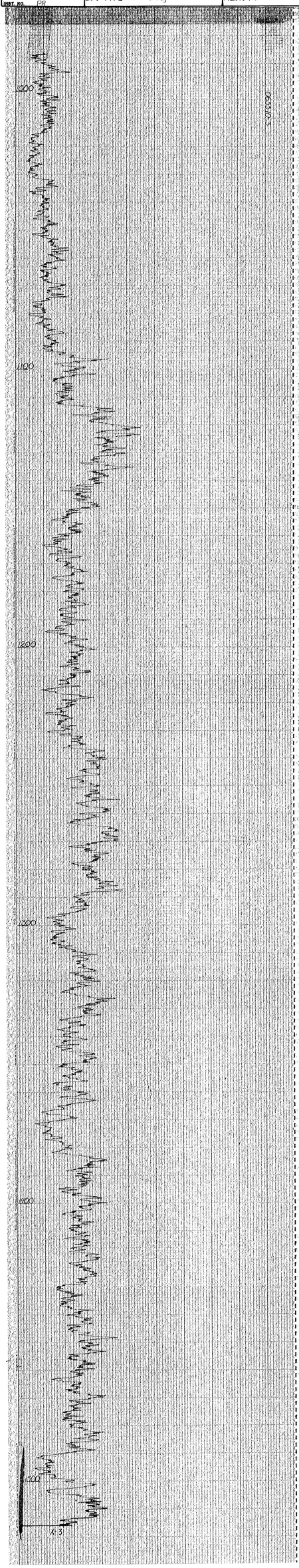
AIR MAIL



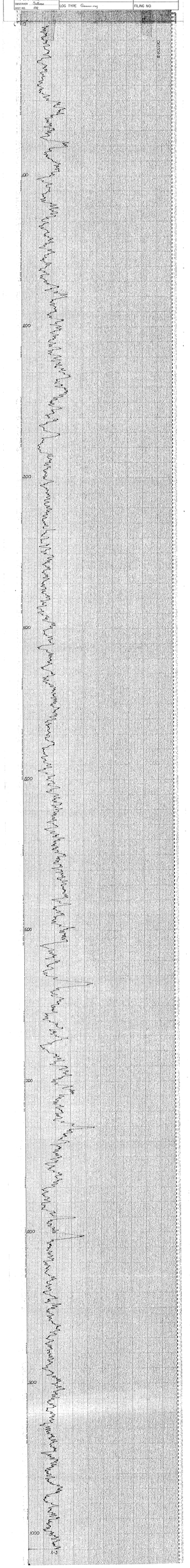
Mr Lawrence G. Hoak, Chief
Nonmetallic Mineral Division
Defense Minerals Exploration Administration
United States Department of the Interior
Washington D.C.

Empire Logging Co.

DATE June 10, 1955	COMPANY Uranium Discovery & Develop.	Location of Well
FIRST READING 987	WELL #1	
LAST READING 1516	LOCATION North Lisbon	
FOOTAGE MEASURED 1516	COUNTY San Juan	
MAX. DEPTH REACHED 1516	STATE Utah	Elevation
REC. SPEED 7/min		
SENSITIVITY		
TIME CONST 10		
OBSERVER Sullivan	LOG TYPE Gamma-ray	FILING No.
INST. NO. PR		



FILMED 5-2-79

Empire Logging Co.

DATE ....June 9, 1955	COMPANY Gruber Drilling & Develop.	Location of Well
FIRST READING 0	WELL #1	
LAST READING 1003	LOCATION North Indian	
POSTHOLE MEASURED 1003	COUNTY San Juan	
MAX DEPTH READING 1003	STATE Utah	Elevation
REC. SPEED ....Slow		
SENSITIVITY 1		
TIME CONST 15	LOG TYPE Gamma-ray	FILING NO.
OBSERVER ....Sullivan		
CASE NO. ....PR