DMEA Form 9

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE

DMEA NO. 4522

Application (Denied ✓
(~~Withdrawn~~
(After disposition, delete items not applicable)

Contract (Terminated - not Certified
(Cancelled
(Terminated - Certified
(Royalty Agreement

This is the official contract file containing all official records of the project. The records contained in the files are checked and are arranged in this order:

Left Side

Interim Royalty Audits
Reports of Royalty Review
Certification of Discovery
Certificate of Audit (Final)
Interim Audit(s)
Report of Review
Termination Notice or Agreement
Recision Notice
Assignment of Contract
Contract Amendments (latest on top)
Contract with all exhibits and annexes
Owner's Consent to Lien
Subordination Agreement
Leases and assignments of leases
✓Application and attachments
(3) Envelope for maps

Right Side

Project summary
Work completed analysis
All other material is filed in chronological order with correspondence including the following reports as checked:

Final Field Team Report (Tab)
Operator's Final Report
(2R) Interim Reports
(2R) Operator's monthly reports and all attachments (latest on top)
✓On-site Exam Report(s) (Tab)
(4) Settlement Sheets

When the volume of records is expected to warrant additional folders, or when convenience of reference warrants separate folders for certain records, they should be set up in this order:

Left Side

Folder No. 2: (In chron. order)
Interim Summary Reports by W. O. Engineers

Right Side

Operator's Semi-Annual Report for Certified Project, Field Team Interim Reports, Operator's Monthly Report with transmittal, narrative, maps, and Field Team review.

Folder No. 3: Maps (Use pocket folder or envelope. Fold maps with title block out and show reference to related document or correspondence.)

Folder No. 4: Settlement Sheets

Folder No. 5: Drill Logs

DMEA
DEPARTMENT OF THE INTERIOR
AUG 16 1957
REGION III
DENVER, COLORADO

GRAMLICH EXPLORATION COMPANY

APPLICATION FOR D. M. E. A. LOAN

OF $65,955.00 FOR

AN EXPLORATORY DRILLING AND DOZER EXCAVATION PROJECT

FOR

URANIUM AND VANADIUM OXIDES

IDA GROUP PROPERTY

DARK CANYON RIDGE AREA

SAN JUAN COUNTY, UTAH

MOAB, UTAH

Box 896

July 17, 1957

Mr. W. M. Traver
Defense Minerals Exploration Administration
224 New Custom House
Denver 2, Colorado

Dear Mr. Traver:-

The following amendments are submitted for your consideration to D. M. E. A. application by Gramlich Exploration Company, Box 435, Moab, Utah. This original application was dated October 23, 1956.

Page 1

3. Applicant's Property Rights:

The claims to be included under this application are to be listed as follows and recorded in the San Juan County Recorder's Office, Monticello, Utah, on the following books and pages:-

CLAIM NAME	BOOK	PAGE	(AMENDED LOCATION)	
Ida No. 1	131	219	321	150
Ida No. 2	131	219	321	150
Ida No. 3	131	220	321	151
Ida No. 4	131	220	321	151
Ida No. 5	131	221	321	152
Ida No. 6	131	221	321	152
Ida No. 7	131	222	321	153
Ida No. 8	131	222	321	153

Location amendments were made on June 15, 1955.

Gramlich Exploration Company
Ida Group of Claims
Amendment to Application dated October 23, 1956.

The above claims were purchased from Bart Stewart and Felix Murphy by J. W. Gramlich, Sr., by Mining Deed, dated February 11, 1955.

CLAIM NAME	BOOK	PAGE	HELD BY
Ida No. 9	62	356	P. F. Gramlich
Ida No. 10	62	356	P. F. Gramlich

(These claims are leased to Gramlich Exploration Company - See Page 2, Second Paragraph.)

CLAIM NAME	BOOK	PAGE	AMENDED LOCATION	
Jay No. 1	273	401	321	149
Jay No. 2	273	401	321	149

The above two claims were purchased from Jack Walker by J. W. Gramlich, Sr., by Mining Deed, dated August 1, 1955.

CLAIM NAME	BOOK	PAGE	HELD BY
Balsa No. 1	321	148	J. W. Gramlich, Sr.
Balsa No. 2	321	147	J. W. Gramlich, Sr.
Joker No. 1	337	4	J. W. Gramlich, Sr. *

* The Joker No. 1 was purchased from Gilbert Holyoak and Carl Mecham by quitclaim deed dated December 16, 1955. (This transaction also included the purchase of Joker No. 2 through No. 5). The Joker No. 1 claim is completely overlapped by the Ida No. 9 and No. 10 claims.

Page 3

4 th Para. There is every reason to believe that there exists an apparent mineralized favorable sandstone trend through the Hole I-4, I-6 to North prospect cut area. At least four (4) holes, or more, as long as mineralization is encountered, immediately back of Hole I No. 4 are recommended on fifty foot centers across trend to establish actual trend behind outcrop. There holes are considered as being of utmost importance in determining where offset holes to the Southwest should be located.

The six (6) drill holes completed to date were logged by the U.S.G.S. gamma ray units - the records can be obtained from the Grand Junction office.

Gramlich Exploration Company
Moab, Utah
Ida Group of Claims
Amendment to Application dated October 23, 1956.

Page 4

3rd Para. Two long prospect cuts have been made by dozer work. The North prospect cut is 180 feet long and has continuous mineralization throughout a 12-foot thick sandstone interval. The mineralization is typical of "near-rim" Salt Wash deposits. The uranium oxide content is less continuous than the vanadium oxide. ----

The South prospect cut is 105 feet long and has from 5 to 6 feet of spotty mineralization. One selective grab sample ran 0.84% U_3O_8 and 6.0% V_2O_5. (Mr. Gramlich can obtain a copy of this assay result upon your request).

Page 6

5. The Exploration Project:

(b) Four holes @ 700 feet each @ $6.00	$ 16,800.00
Estimated Total	$ 55,200.00

4th Para. A D-6 size caterpillar tractor, or equivalent is recommended.

5(c). The work will start within sixty (60) days and be completed within three years, or thirty-six months from the date of an exploration project contract. This change in completion time is necessary due to limited working season of some years.

NOTE: The type of drilling under above price estimates are based on plugging to Salt Wash top and coring all Salt Wash units, if necessary, to project's overall evaluation program. If additional footage is needed to outline deposits, it should be established and requested at that time. The operator requests that this reservation be made.

Page 7

6. Estimate of Costs:

(a) Drilling estimate changed to read - $55,200.00, due to increase of 50¢/feet on 700 foot holes. (Three Bids on drilling are hereby submitted to accompany application.)

Gramlich Exploration Company
Moab, Utah
Ida Group of Claims
Amendment to Application dated October 23, 1956.

6(d) Operating Equipment:

Model D-6 caterpillar tractor, or equivalent, to be used.

The total requested is increased due to change in estimate on 700 foot holes by an increase of $1400.00, thus making a total of ---- $65,955.00.

These amendments respectfully submitted July 17, 1957.

Wm Dean McDougald
Wm. Dean McDougald
Consulting Geologist

WDMCD:pp

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

RECEIVED
OCT 29 1956

224 New Customhouse
Denver 2, Colorado

October 26, 1956

Memorandum

To: Secretary to the Operating Committee

From: DMEA Field Team, Region III

Subject: Application for DMEA Aid (Uranium) Gramlich Exploration Co. (Ida Group Property) San Juan County, Utah

Enclosed are three copies of the subject application in the amount of $64,555. One copy of the application is being forwarded the Grand Junction Office, DMEA, for their review and comments relative to the desirability of making a field examination on the property, and two copies are being retained in our file.

It is noted that none of the forms MF-103 has been signed by the Applicant, but all copies of the application contain a transmittal letter signed by J. W. Gramlich, Sr., President, Gramlich Exploration Co.

Four of the Applicant's proposed holes are estimated to be 700 feet in depth and the cost estimates of all drilling are high. The application states that the claims owned by Philip F. and John W. Jr. Gramlich are verbally leased to the Gramlich Exploration Co. The Applicant proposes, in his letter accompanying the application, that he will submit a Lease Agreement to DMEA after the field examination.

Our previous experience with this Applicant, under DMEA 2771, Contract Idm-E577, was most unsatisfactory.

DMEA Field Team, Region III

W M Traver

By W. M. Traver
Executive Officer

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

RECEIVED
OCT 29 1956

224 New Customhouse
Denver 2, Colorado

October 26, 1956

Memorandum

To: J. W. Hasler

From: DMEA Field Team, Region III

Subject: Application for DMEA Aid (Uranium) Gramlich Exploration Co. (Ida Group Property) San Juan County, Utah

Enclosed is a copy of the subject application. Will you please review this application with the Bureau of Mines Representative, and the AEC and forward this office nine copies of your joint recommendations concerning the advisability of making a field examination on the property.

DMEA Field Team, Region III

Original signed by
W. M. TRAVER

By W. M. Traver
Executive Officer

Enclosure
HMC:ytl
cc: Sec. Op. Comm. (2)
Harshman'
Shaw (2)
Docket
Chron.

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED
OCT 29 1956

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

DMEA
DEPARTMENT OF THE INTERIOR
OCT 25 1956
REGION III
DENVER, COLORADO

Not to be filled in by applicant

Docket No. 4522
Metal or Mineral Uranium
Date Received 10-29-56
Estimated Cost $64,555
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: Gramlich Exploration Company, J. W. Gramlich, Sr., President and General Manager, Box 435, Moab, Utah

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

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

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

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

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract Please refer to accompanying map showing claims tied into Permanent Section Corner. The claims are listed on accompanying papers, Pages 1 and 2.

(*b*) State any mine name by which the property is known. Dark Canyon Ridge Properties

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

(*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. Lease agreements to be submitted at a later date, see Page 2 and Introductory letter.

(*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. Page 1 and 2

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. Refer to Page 2

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades Refer to Page 3

(*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. Refer to Page 3 "General Geologic Feature"

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points. Refer to Page 5

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power. Refer to Page 5

5. *The exploration project.*—(*a*) State the mineral or minerals for which you will be to explore Refer to Page 6

(*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. Refer to Page 6

(*c*) The work will start within 60 days and be completed within 6 months from the date of an exploration project contract. Refer to Page 6

(*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. Refer to Page 7

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.). Refer to Page 7

(*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. Refer to Page 8

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel. Refer to Page 8

(*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. Refer to Page 8

(*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. Not applicable

(*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. Not applicable

(*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. Refer to Page 8

(*h*) *Contingencies.*—Give an estimate of any necessary allowances for contingencies not included in the costs stated above. Refer to Page 8

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? Refer to Page 8

☐ Money ☒ Use of equipment owned by you ☐ Other

Explain in detail on acompanying paper. Refer to Page 8

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 October 24, 1956

Gramlich Exploration Company
(Applicant)

By Wm. Dean McDougald

For: J. W. Gramlich, Sr.

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
OCT 29 1956
DMEA
DEPARTMENT OF THE INTERIOR
OCT 25 1956
REGION III
DENVER, COLORADO

GRAMLICH EXPLORATION COMPANY

APPLICATION FOR D. M. E. A. LOAN

OF $ 64,555.00 FOR

AN EXPLORATORY DRILLING AND DOZER EXCAVATION PROJECT

FOR

URANIUM AND VANADIUM OXIDES

IDA GROUP PROPERTY

DARK CANYON RIDGE AREA

SAN JUAN COUNTY-------- UTAH

MOAB, UTAH

OCTOBER, 1956

GEOLOGICAL SERVICES
Box 896
MOAB, UTAH

October 23, 1956

RECEIVED
OCT 29 1956

Mr. W. M. Traver
Defense Minerals Exploration Administration
224 New Custom House
Denver 2, Colorado

DMEA
DEPARTMENT OF THE INTERIOR
OCT 25 1956
REGION III
DENVER, COLORADO

Dear Mr. Traver:-

The attached DMEA application for federal assistance in the further development of the uranium and vanadium potential on the Ida Group of mining lode claims, operated by J. W. Gramlich, Sr., of Gramlich Exploration Company, Moab, Utah, is submitted for your consideration.

I assisted Mr. Gramlich in the preparation of the report and the geologic recommendations.

I believe that the Ida group of claims are worthy of the additional drilling and dozer work plus offset second and possibly third phase drilling. I do not believe that a "near rim exposure" exploration program can in any way determine the possible merits of the group because of rim exposure leaching from surface and near surface solutions. To the best of my knowledge, better and larger ore bodies have been found in areas having thick cover or overburden. That is the main reason why we are not contemplating shallow drilling along the Saltwash sandstone outcrops.

That part of the Ida group of claims shown on the attached preliminary geologic map possesses a good structural setting, favorable ore-bearing sandstone thickness, favorable mudstone split and seam colors, good porosity and permeability, abundant carbonaceous material, brown oxide specks and stain and good vanadium oxide mineralization with from low to high grade uranium oxide according to the extent of ground water leaching in the immediate drill hole area or prospect cuts. All of the above criterion indicates to the operator and geologist that the possibility of finding a large commercial uranium-vanadium ore body is very good.

Mr. W. M. Traver - 2

If I can be of any further assistance, please notify me.

The following application and report respectfully submitted to the Defense Minerals Exploration Administration for Mr. J. W. Gramlich, Sr., October 23, 1956.

Yours very truly,

Wm. Dean McDougald

Wm. Dean McDougald
Consulting Geologist

WDMCD:pp
att:

Moab, Utah
October 23, 1956

Mr. W. M. Traver
Defense Mineral Exploration Administration
224 New Custom House
Denver 2, Colorado

RECEIVED
OCT 29 1956

RE: Application by Gramlich Exploration Company for a DMEA Loan

Dear Mr. Traver:-

The enclosed application in hexad (6) is for a DMEA Loan of $64,555.00 for a proposed exploratory drilling and dozer excavation program on the Ida Group of claims, Dark Canyon Ridge area, San Juan County, Utah.

There are forty (40) unpatented mining lode claims held by, or leased by, Gramlich Exploration Company. The claims under consideration for the exploratory program are surveyed and are not found in conflict with other claims. The claims under consideration in this application are either held by myself or by my sons, John W. Gramlich, Jr., and Philip F. Gramlich. All lease agreements will be submitted for your approval after the DMEA field team complete their field examination. One of my sons is working in Idaho at the present time and I feel that due to the remaining short working season in the area, that it is necessary to expedite the application as much as possible, therefore, I will submit the lease agreements at a later date.

We feel that the factors to be considered when passing upon application are all favorable for the property. Favorable criteria for the occurrence of Morrison ore bodies have been found and are outlined under General Geology - this report. The following are some of the favorable factors:

1) Strategic importance of uranium oxide.
2) Geologic probabilities are good.
3) Availability of manpower, supplies, equipment and water are excellent.
4) The accessibility is good.
5) The possibility of opening up a new uranium area should be considered.
6) The success of the well qualified applicants is way above average.

We trust that all information required at the present time is attached and if further data are needed it will be promptly submitted upon request. We will be glad to assist your examining field engineers and geologists in any way.

Yours very truly,

J. W. Gramlich, Sr.

J. W. Gramlich, Sr. President
Gramlich Exploration Co.

JWG:pp

Gramlich Exploration Company, Moab, Utah
Ida Group of Claims
Accompanying papers for Form MF 103 - Page 1

3. Applicant's property rights:

The claims to be included under the application are listed as follows and recorded in the San Juan County Recorder's Office, Monticello, Utah, on the following book and pages:

CLAIM NAME	BOOK	PAGE	(AMENDED LOCATION)	
Ida No. 1	131	219	321	150
Ida No. 2	131	219	321	150
Ida No. 3	131	220	321	151
Ida No. 4	131	220	321	151
Ida No. 5	131	221	321	152
Ida No. 6	131	221	321	152
Ida No. 7	131	222	321	153
Ida No. 8	131	222	321	153

Location amendments were made on June 15, 1955. The above claims were purchased from Bart Stewart and Felix Murphy by J. W. Gramlich, Sr., by mining deed, dated February 11, 1955.

CLAIM NAME	BOOK	PAGE	(AMENDED LOCATION)	
Jay No. 1	273	401	321	149
Jay No. 2	273	401	321	149

The above two claims were purchased from Jack Walker by J. W. Gramlich, Sr., by Mining Deed, dated August 1, 1955.

CLAIM NAME	BOOK	PAGE	(HELD BY)
Balsa No. 1	321	148	Owned by J. W. Gramlich, Sr.
Balsa No. 2	321	147	Owned by J. W. Gramlich, Sr.
Balsa No. 3	321	146	Owned by J. W. Gramlich, Sr.
Balsa No. 4	321	145	Owned by J. W. Gramlich, Sr.
Rhea No. 1	321	144	Owned by Philip F. Gramlich
Rhea No. 2	321	143	Owned by Philip F. Gramlich
Helen No. 1	321	142	Owned by J. W. Gramlich, Jr.
Helen No. 2	321	141	Owned by J. W. Gramlich, Jr.
Helen No. 3	321	140	Owned by J. W. Gramlich, Jr.

CLAIM NAME	BOOK	PAGE	(HELD BY)
Iceland No. 1	72	384	Owned by J. W. Gramlich, Jr.
Iceland No. 2	72	385	Owned by J. W. Gramlich, Jr.
Iceland No. 3	72	384	Owned by J. W. Gramlich, Jr.
Skyline No. 1	62	34	Owned by Philip F. Gramlich
Skyline No. 2	62	34	Owned by Philip F. Gramlich
Skyline No. 3	62	35	Owned by Philip F. Gramlich
Skyline No. 4	62	35	Owned by Philip F. Gramlich
Skyline No. 5	62	36	Owned by Philip F. Gramlich
Skyline No. 6	62	36	Owned by Philip F. Gramlich
Skyline No. 7	62	37	Owned by Philip F. Gramlich
Skyline No. 8	62	37	Owned by Philip F. Gramlich
Skyline No. 9	62	38	Owned by J. W. Gramlich, Jr.
Skyline No. 10	62	38	Owned by J. W. Gramlich, Jr.
Ida No. 9	62	356	Owned by Philip F. Gramlich
Ida No. 10	62	356	Owned by Philip F. Gramlich
Spruce No. 1	62	354	Owned by Philip F. Gramlich
Spruce No. 2	62	354	Owned by Philip F. Gramlich
Spruce No. 3	62	355	Owned by Philip F. Gramlich
Spruce No. 4	62	355	Owned by Philip F. Gramlich
Spruce No. 5	62	357	Owned by Philip F. Gramlich
Spruce No. 6	62	357	Owned by Philip F. Gramlich

40 claims

A total of forty (40) unpatented mining lode claims are included in the above application.

The claims owned by Philip F. and John W., Jr. Gramlich are verbally leased to the Gramlich Exploration Company; the lease agreements and recording thereof, will be submitted at a later date. If there is any question on these agreements, please feel free to contact John W. Gramlich, Jr., at - Alpine 3-4931, Moab, Utah, and Philip F. Gramlich at - Alpine 3-4803, Moab, Utah, or write them in care of - General Delivery, Moab, Utah.

4. Physical Description:

(a) There are no operations at the present time on the Ida Group of claims. Gramlich Exploration Company completed the six (6) core holes in 1955 and expended approximately $5,000.00 on dozer excavation, access roads and drill site locations in 1955. The excavation was along the rim exposures and the drilling was performed between the north and south prospect cuts. There is no equipment on the property at the present time. All workings, core holes and core are readily accessible.

(b) Only favorable mineralization has been encountered in the excavation work and core drilling.

GENERAL GEOLOGIC FEATURES

As illustrated on the attached preliminary geologic map, the claims are staked over outcrops of Quaternary unconsolidated debris, Mancos shale, Dakota formation, Burro Canyon formation, Brushy Basin member, Saltwash member and undifferentiated (pre-Saltwash) Jurassic units. The following thicknesses of units are believed to be valid:

UNIT	FROM	TO	AVERAGE THICKNESS
Quaternary debris	0	25 feet	10 feet
Dakota formation	60	100 feet	80 feet
Burro Canyon	100	140 feet	130 feet
Brushy Basin Member	260	400 feet	345 feet
Saltwash Member	280	300 feet	285 feet

The main ore bearing sandstone rim was found to be the second rim below the top of the Saltwash sandstone member of the Morrison formation. To bottom drill holes will require a depth of one-hundred (100) feet below the top of the Saltwash sandstone. The uppermost Saltwash rim was found to be only from 7 to 19 feet thick in the drill holes. This rim is too thin for economic considerations; however, additional drilling may encounter a thicker, more favorable rim.

The ore bearing second rim ranges from 17 to 70 feet in thickness according to the drilling done to date. Holes No. 1-4, 1-5 and 1-6 penetrated more favorable sections than did the other three holes. It is believed that a favorable ore bearing rim section trends through the north prospect cut - 1-4 to 1-6 area. This trend will be to the southwest. It is also believed that the trend of the mineralization encountered in the south prospect cut will be southwesterly. This is the reason that we are requesting the holes northeast of the south prospect cut.

There has been six (6) drill holes completed to date. (As shown on the accompanying map). All of the holes except 1-1 had vanadium oxide mineralization within the ore bearing sandstone section. The following is a brief resume of the mineralization encountered by the drill holes:

HOLE NO.	INTERVAL	THICKNESS	eU_3O_8	U_3O_8	V_2O_5
1-1	-	-	-	-	-
1-2	220.5 - 221.75	1.25 feet	0.01%	0.03%	1.05%
1-3	215.5 - 216.0	.50 feet	-	-	Lowgrade
1-4	169.6 - 172.8	3.20 feet	0.10%	-	Est. 3%
1-5	145.9 - 147.9	2.00 feet	0.01%	0.02%	2.18%
1-6	263.5 - 271.5	8.00 feet	-	-	?
	269.0 - 271.5	2.50 feet	-	-	Est. @ 2%

Based on the uranium oxide content in the mineralized North and South Prospect Cuts, the favorable ore-bearing sandstone and the vanadium oxide encountered in the drill holes, it is believed that by properly offsetting the drill holes and by reaching out some distance with offset holes, commercial uranium oxide will be encountered.

The proposed phase one holes southwest of the 1-4 through 1-6 area will penetrate ground which is believed to be away from the main rim exposure leaching effects of near surface ground waters. They will also serve as just plain offset holes along the mineralized holes.

Two long prospect cuts have been made by dozer work. The North Prospect Cut is 180 feet wide and has discontinuous mineralization throughout a 12 foot thick sandstone interval. The mineralization is typical of "near-rim" Saltwash deposits. The uranium oxide contect is spotty, moreso than the vanadium oxide. The mineralization occurs in a light gray sandstone interval and is associated with carbonaceous tree remains. The best grade of uranium oxide was found in and near larger logs. The uranium oxide tenor would be expected to be higher in the logs in that the original deposition was greater and the leaching has not depleted the oxide contect, whereas, in the adjacent hostrock the leaching has depleted the oxide tenor. The vanadium oxide content is good in the North Prospect Cut.

The South Prospect Cut is 105 feet long and has from 5 to 6 feet of spotty mineralization. One selective grab sample is reported to have run 0.84% U_3O_8 and 6.0% V_2O_5. Ore sample sent to the Vanadium Corporation of America, Durango, Colorado, assay lab on July 21, 1956 ran 0.40% U_3O_8 and 4.03% V_2O_5.

The postive sample data given above under drill hole analysis table is also based on chemical returns from the Vanadium Corporation of America.

We feel that the prospect cuts are encouraging and definitely establish that the Ida Group of Claims are capable of producing ore with both a good vanadium and uranium tenor.

Structurally, the Ida Group of Claims are in a rather complex setting. They are crossed on the west by the large Dark Canyon fault - a high angle normal fault which is believed to be dipping toward the igneous mass holding up Mt. Mellenthin. The fault strikes North. It is believed that some small East-West normal faults will be found on the Ida Group.

What role faulting and nearby igneous intrusions have on uranium-vanadium deposition and controls is unknown: however, some geologists and engineers maintain that they constitute part of a favorable setting.

The strata dip from 5 to 20 degrees to the west and southwest and strike north and northwest.

Topographically, the claims are along a ridge sloping easterly away from the Mt. Mellenthin Mountain. (LaSal Mountain Range). As shown on the accompanying geologic and topographic map, the terrane is rough; however, the terrane is by no means prohibitive to drill road construction. Most of the required roads will be along Brushy Basin shale outcrops. We feel that the road construction cost will be just a little above the normal average.

In part, the ground to explore will have large evergreen trees to outskirt, and in places the Quaternary debris will consititute a problem to both collaring of drill holes and road construction. In places it may be necessary to scrape away the Quaternary debris when collaring a hole. Only three or four of the proposed Phase One holes might lead to difficulty due to the terrane and cover.

Conclusion, The Ida Group of Claims are located in an undeveloped area. They possess a favorable ore-bearing sandstone rim, which we feel warrants a systematic exploratory program. There is sufficient mineralization and other Morrison criteria to justify the Phase One program.

4 (d) Access to the Ida Group is by going South from Moab, Utah, over U.S. No. 160 for twentyfour miles to LaSal Junction; thence fourteen miles east over Utah No. 46 to the LaSal Pass Turnoff and by traveling thirteen miles over a secondary road, by Dark Canyon Lake, will place you on the claim proper. There is thirty-two miles of surfaced road, six miles of graveled-improved secondary road and thirteen miles of unimproved road (in good condition) to travel after leaving Moab. By removing the snow early in the Springtime, access to the area can normally be obtained throughout six months of the year.

The Monticello, Moab, and Naturita Mills can all be reached in less than seventy miles travel from the Ida Group of Claims. The Moab and Monticello Mills can be reached at the present time with less haulage cost. All necessary mining supplies and core drill supplies can be obatined from Moab, Monticello or Naturita.

4(e) All necessary manpower can be obtained from the Moab-Monticello-Naturita-Grand Junction general area.

Two water sources are found on the claim proper. One is the small water reservoir built by Gramlich Exploration on the Ida No. 2 claim and the other main source is the Spring located on the Ida No. 10 claim. To obtain the continual spring water supply a road will have to be bladed from the North Prospect Cut area to the Spring. It may be possible to utilize part of the Spring Road for drilling some of the requested row of holes northwest of the 1-4 area. The water reservoir on Ida

No. 2 may become depleted during dry summer months and will not be sufficient to supply enough water for a rapid rate of drilling. By making the Spring accessible more than a sufficient water source will become available.

5. The Exploration Project:

(b) As shown on the accompanying map, twenty-eight diamond core holes are recommended for Phase One of the program. Nineteen of the holes are estimated to require a 300 foot average depth; four of the holes at 450 foot average and four at a 700 foot average. The total footage is estimated to be 10,300 feet. Estimate of cost for drilling the holes including an allowance for up to one-fifth (1/5) coring will run as follows:

Nineteen holes @300 ft. each @$5.00	$	28,500.00
Four holes @ 450 ft. each @$5.50		29,900.00
Four holes @ 700 ft. each @ $5.50		15,400.00
Total Footage Estimate - 10,300 feet		
Estimate Total	$	53,800.00

The above estimate of costs is based on the type of drilling, locality, required depths, contract, footage, length of working season, time loss due to rain storms and thunder storms and expectant high fracture concentration causing circulating difficulties.

The core recovery on the six (6) Gramlich holes was excellent. The proposed location on the Phase One holes are shown on the attached preliminary map.

It is also requested that fifty (50) hours of dozer work be allowed to extend the North and South Prospect dozer cuts. The objective of the proposed one-hundred (100) hours of work is to further test the North mineralization by a westward extension and the South mineralization by a northern extension. All dozer excavation data can be correlated into the Phase One Program and is believed to be a practical way to determine more about the behavior and width of the mineralization. A D-8 size or equivalent dozer is recommended. This size dozer should be contracted at $12.00 per hour.

5 (c). By the utilization of one modern drilling unit and by having some "drilling luck" the project could be completed in less than six months, during the proper season. Invitation to public bids is recommended as the basis for establishing the price basis; however, it is the desire of the Gramlich Exploration Company to do the drilling with their modern drilling unit. We do not feel that it would be proper to base the prices in a "cut-rate" bid, and feel justified to ask that a fair price be given based on reputable drilling contractor's bid averages.

5 (d) Applicant's Operating Experience and Background:

J. W. Gramlich, Sr. President and General Manager, Gramlich Exploration Company.

1916 through 1919 - Worked for Standard Chemical Company as Shipping Clerk, Shift Foreman, Ore Sorter, and Foreman in charge of ore soring and selection. Worked for the Radium Company of Colorado as a Surveyor's Helper, Ore Sorter and Assistant to Accountant. Owned claims, operated and shipped high grade uranium ore for radium extraction during the early radium procurement era. (Morrison formation ore procurement).

1940 to 1945 - Owned and operated Lion Group of claims on LaSal Creek (Colorado) producing over 4,000 tons of ore averaging 1.96% V_2O_5 and 0.30% U_3O_8. (Morrison formation production).

1948 to 1950 - Operated own property west of Green River, Utah, producing over 3,000 tons of ore averaging 0.25% U_3O_8 for A.E.C. procurement. (Morrison formation production)

1950 to Present - Reopened Lion Group property and produced over 3,000 tons of 0.24% U_3O_8 ore. Presently active in exploration for uranium ore in the Brown's Hole area, Utah, and strategic minerals in the State of Idaho. Supervised a D.M.E.A. program on the Brown's Hole property in 1954. This property was owned and operated by Mr. Gramlich and sons. (D.M.E.A. Docket 2771). Active member and officer on the Uranium Ore Producing Association of America. Most of his past experiences were with the procurement exploration and development of Morrison formation ore bodies.

J. W. Gramlich, Jr., and Philip E. Gramlich have worked with their father, J. W. Gramlich, Sr., in the exploration, mining and development of uranium-vanadium ore bodies for a number of years. Both are well qualified operators. Both have had a sufficient amount of rotary drill operations to properly handle the proposed drilling. J. W. Gramlich, Sr., will supervise the proposed exploratory drilling and excavation program on the Ida Group of Claims.

6. Estimate of Costs:

(a) The operator desires to do all the drilling at a rate based on the average "going rate" at the time of commencement of the program. The operator also requests that he may reserve the right to do the dozer work at the normal rate, and he will definitely decide prior to the commencement of the exploratory program whether or not he will furnish the dozer or let the work out on a contract basis.

Drilling approximately 10,300 feet of rotary coring and non-coring @ approx. $5.22/ft.	$ 53,800.00
Dozer work:	
North Prospect Cut, 5-10 hr. days, totaling 50 hrs. @ $12.00/hr.	600.00

Dozer work - con't.

South Prospect Cut, 5-10 hr. days - totaling 50 hrs. @ $12.00/hr.	$ 600.00
Road construction to Spring, access roads and drill site locations, 300 hrs. @ $12.00/hr.	3,600.00
(b) Labor, supervision and consultants.	
For supervision, core logging and handling, sample preparation, assaying, engineering, accounting, stenographic work, etc.	
J. W. Gramlich, Sr., $500.00 per month based on a 4-month period	2,000.00
Estimated traveling expense to project 4-month period	600.00
Engineering and geologic studies and mapping; based on a 4-month period, 5 days per month, totaling 20 days at $75.00/day	1,500.00
Estimated travel expenses, and required office time work 4-month period	1,000.00
(The above estimates are made to include all analytical work and quanitative counter).	
(c) 260 core boxes, corregated, at $1.25 each	325.00
(d) Failing 1500 Rotary Drill, Water Truck and auxiliary air compressor, if needed, and a Model D-8, or equivalent size, caterpillar tractor, if the operator does the dozer work.	
(g) Miscellaneous - The operator will pay for all repairs and maintenance and will furnish accounting, workmen's compensation and insurance required by federal and state laws; and will pay all required payroll taxes. Accounting and stenographic work, 4-month period	200.00
(h) Contingencies - Approximately ten per cent of (b) and (G)	530.00
Total	$ 64,555.00

7. Payment of Costs:

(a) The operator is prepared to furnish his share of the proposed project cost in accordance with the regulations on Government participation (Sec. 7, DMEA No. 1) in the form of drilling with own equipment and operators.

(b) At the end of each month I will submit to the DMEA field office a voucher (Form 104 and 104A) for payment. This will include a detailed statement of all work done and all allowable costs. It is understood that upon approval, the Government will pay me its agree-upon proportion of the allowable costs incurred.

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
10/3	Ching	700
"	Elliot	700
10/4	[illegible]	130
	Lamb	
	Williams	
	[illegible]	110
"	[illegible]	100
10/7	B	220
		225

Mr. J. W. Gramlich, Sr.
President and General Manager
Gramlich Exploration Company
Box 435
Moab, Utah

OCT 4 1957

Re: Docket No. DMEA-4522 (Uranium)
Ida, et al., Claims
San Juan County, Utah

Dear Mr. Gramlich:

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, although noting a small amount of uranium mineralization on your property, indicates that the probability of disclosing significant ore reserves is not sufficiently promising to justify Government participation. 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 Exploration Program and for bringing your property to our attention.

Sincerely yours,

C. O. Mittendorf (for)

Administrator

MChing/gla
10-3-57
cc to: Admr.'s Reading File
Operating Committee
THKiilsgaard, Rm. 5224
Mr. Ching, Code 700
DMEA Field Team, Region III (2)

8623

DOCKET COPY

Chiny Ellis

October 2, 1957

Summary of Proposed Project

Object: Denial of application for an exploration project.

Docket No.: DMEA-4522

Commodity: Uranium

Applicant: Gramlich Exploration Company
Box 435
Moab, Utah

Property: 15 unpatented lode mining claims, Ida 1-10, Jay 1-2, Balsa 1-2, and Joker 1, situated in sections 12 and 13, T. 27 S., R. 24 E., S.L.M.& B., San Juan County, Utah. Applicant is the owner of all the claims except Ida 9 and 10, which are leased.

Date of application: October 24, 1956. Amended July 17, 1957.

Amount of application: $66,155.00 (as amended)

Referred to Region III: November 23, 1956
Field examination made: August 7, 1957
Field Team report received: September 23, 1957

Work proposed: Prepare access roads and extend two rim cuts by bulldozer, and test the upper sandstone unit of the Salt Wash member of the Morrison formation by 28 core and non-core holes. Estimated costs follow:

10,300 feet drilling @ $5.36/ft.	$55,200.00
400 hrs. bulldozing @ $12.00/hr.	4,800.00
Labor, supervision and consultants (4 mos.)	5,100.00
Miscellaneous	525.00
Contingencies	530.00
Total	$66,155.00
Government participation @ 75%	$49,616.25

Field Team report: September, 1957, F. R. Shawe, USGS
H. F. Robertson, USBM

The potential ore-bearing horizon on the subject property is the upper sandstone unit of the Salt Wash member of the Morrison formation. No ore deposits are known in the general area. In a small (north) cut in the upper Salt Wash rim small streaks up to 8 inches thick of vanadium minerals, with minor associated uranium, are erratically exposed over a stratigraphic thickness of about 12 feet. Lateral extent of the mineralization is not known. The sandstone host rock is iron-red with a few narrow bleached bands -- a type of lithology that is generally considered unfavorable for ore deposits in the Salt Wash member.

A south cut is located in landslide debris and probably does not penetrate to bedrock. Two selected grab samples from this cut reportedly assayed 0.40% U_3O_8 and 4.03% V_2O_5, and 0.89% U_3O_8 and 6.0% V_2O_5, respectively, but these samples cannot be considered as representative.

Of 6 holes drilled through the ore-bearing sandstone, 4 were found barren and 2 showed less than 0.01% eU_3O_8. Two of the barren holes penetrated sandstone that might be considered as favorable but the sandstone penetrated by the other 4 holes was not considered as favorable. All holes showed signs of leaching.

The nearest production is about 8 miles to the west, where a total of 430 tons of material averaging 0.19% U_3O_8 and 2.00% V_2O_5 were produced over a period of 6 years.

A large portion of the property is covered by slide material, reducing the size of the target area. The property is located at an elevation of 11,000 feet and is accessible less than 6 months out of a year.

Denial of the application is recommended.

Commodity Group Comments:

U. S. Geological Survey, N. E. Nelson, Sept. 26, 1957

Concurs with the Field Team recommendation for denial.

U. S. Bureau of Mines, James Paone, Sept. 27, 1957

Agrees with the Field Team and advises denial.

Division of Rare and Miscellaneous Metals,
Michael Ching, October 2, 1957

Size of potential ore bodies are likely to be small and depth of drilling proposed ranges from 300 to 700 feet. An exploration project under such circumstances cannnot be justified.

Conclusions and Recommendations:

The chances of making a significant discovery on the property are not good. It is recommended that the application be denied.

Ernest Wm. Ellis

Ernest Wm. Ellis, Director
Rare and Miscellaneous
Metals Division

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

Date September 27, 1957

DMEA Docket No. 4522
DMEA Contract No.
Commodity Uranium
Name of applicant Gramlich Exploration Co.
Name of property Ida et al claims
Location of property San Juan County, Utah
Estimated cost of project $65,955.00

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Specialist

From: James Paone, Bureau of Mines Member JP
Uranium Commodity Specialist

Subject: Review of Field Team Report
(Application, Field Team Report, etc.)

1. Date of subject document: 9/20/57. 2. Date received by reviewer: 9/26/57

3. Prior reports on this property known to reviewer: Yes ☐ No ☐

4. Prior reports on nearby properties known to reviewer: Yes ☐ No ☐

5. Information available on past production: Yes ☐ No ☐

6. Other pertinent factors known to reviewer: Yes ☐ No ☐

7. Explain items marked yes above:

8. Factors needing special consideration:
   a. Location ☐
   b. Ownership ☐
   c. Evidence of mineralization ☐
   d. Geology ☐
   e. Proposed exploration method ☐
   f. Alternate exploration method ☐
   g. Costs ☐
   h. _____ ☐

9. Action advised:
   a. Obtain information from applicant ☐
   b. Refer to Field Team ☐
   c. Denial ☒
   d. Agree with Field Team ☒
      i. Consult with Mr. _____ at _____ AEC office.
   e. Disagree with Field Team ☐
   f. Suggest alternate plan ☐
   g. Request another examination ☐
   h. Approval ☐

10. Remarks: (Use back of page if necessary)

IN REPLY REFER TO:

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

September 26, 1957
Re: DMEA 4522
Gramlich Exploration Company
Ida claims
San Juan County, Utah
$65,995.00 - Uranium

Memorandum

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

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

Subject: Review of Field Team Report

The applicant requested assistance in exploring, by drilling and bulldozing, a property high in the La Sal Mountains, underlain by the Salt Wash member of the Morrison formation.

Work done by the applicant, to the time of the examination, consisted of 2 large cuts and 6 diamond drill holes. Sandstone encountered in 2 of the drill holes is of the 'favorable' type but is barren. The cuts show some radioactive material, but the mineralization is spotty and low grade in 'unfavorable' sandstone.

In the opinion of the examiners and the Field Team, backed by material from other dependable sources of information, the chances of making a significant uranium discovery is poor. Therefore they recommend that the application be denied.

I concur with the recommendation.

N. E. Nelson

N. E. Nelson

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3 transmittal need

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
224 New Customhouse
Denver 2, Colorado

September 20, 1957

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Memorandum

To: Secretary to the Operating Committee, DMEA

From: DMEA Field Team, Region III

Subject: Docket DMEA 4522 (Uranium) Gramlich Exploration Company (Ida et al. Claims) San Juan County, Utah - Joint Report of Examination

Enclosed are the original and two copies of the Joint Report of Examination on the subject property by H. F. Robertson, USBM, and F. R. Shawe, USGS.

The field examiners conclude that the probability for making a significant discovery is not sufficiently promising to justify Government participation. Accordingly, they recommend that the Applicant's work proposal be denied in which the Field Team concurs.

J. W. Townsend
J. W. Townsend
Alternate Acting Executive Officer

Reviewed by
DMEA OPERATING COMMITTEE
9/27/57

ORIGINAL EXAM. REPORT

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMEA
DEPARTMENT OF THE INTERIOR
SEP 20 1957
REGION III
DENVER, COLORADO

P.O. Box 360
Grand Junction, Colorado

September 18, 1957

TRANSMITTED
SEP 20 1957

Memorandum

To: Executive Officer, DMEA Field Team, Region III

Through: E. N. Harshman *Rec'd for EHH*

From: J. William Hasler

Subject: Transmittal of a joint engineering and geologic report on DMEA docket 4522 (Uranium), Gramlich Exploration Company, Ida et al claims, San Juan County, Utah

Enclosed are 10 copies of a joint engineering and geologic report by M. F. Robertson, U. S. Bureau of Mines, and F. R. Shawe, U. S. Geological Survey, recommending a denial on the Ida et al claims of the Gramlich Exploration Company, San Juan County, Utah.

The Gramlich Exploration Company, P. O. Box 435, Moab, Utah applied for Defense Exploration Administration Assistance on October 24, 1956. The applicant submitted an amendment to the original application on August 7, 1957, increasing the estimated cost of the proposed program.

The Ida claims are located at an elevation of about 11,000 feet above sea level, near Mt. Mellinthin, in the La Sal Mountains, and weather conditions prevented a field examination until August 7, at which time the examination was made in company with the president, Mr. J. W. Gramlich.

Rock units exposed on the subject property range from the Entrada formation of Jurassic age through the Dakota and Mancos formations of Cretaceous age. Much of the claim area is covered by landslide debris and glacial morianes. There are no producing mines in the immediate area.

The potential ore-bearing bed in the area is the upper sandstone unit of the Salt Wash member of the Jurassic Morrison formation. The applicant has found some thin seams containing vanadium minerals exposed in two small prospect cuts and tested the upper sandstone by six diamond core drill holes, located some distance behind the outcrop. Two holes penetrating sandstone might be considered favorable; however, they are completely barren insofar as having any uranium content is concerned. Mineralization exposed in a north crosscut is spotty and has very low uranium as well as being in sandstone that is considered unfavorable for the occurrence of uranium ore. Assay samples taken from the south cut

Reviewed by
DMEA OPERATIONS COORDINATOR
9/27/57

were obtained largely from landslide material and, consequently, could not be considered as being representative samples from the property.

A field examination indicated that the chances of finding a significant uranium discovery on the property is not good; therefore, it is recommended that the application for Government assistance be denied.

The Atomic Energy Commission was consulted for available information on the general area of the Ida claim groups. W. D. Carter and J. L. Qualtieri, geologists with the U. S. Geological Survey, who recently mapped the area, were also consulted. Memorandum of review by W. P. Williams, U. S. Geological Survey, and J. E. Crawford, U. S. Bureau of Mines, were noted. I concur with the conclusions and recommendations of the examining team.

Enclosed are 10 copies of figures 1 and 2 to accompany the subject report.

J. William Hasler

J. William Hasler,
Geologist

JWH/mlr

Enclosures
Figs. 1 and 2 (10)

FOR UNITED STATES GOVERNMENT USE ONLY

TRANSMITTED

SEP 20 1957

UNITED STATES
DEPARTMENT OF THE INTERIOR
FRED A. SEATON, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY EXAMINING TEAM
REGION III

DMEA
DEPARTMENT OF THE INTERIOR
SEP 20 1957
REGION III
DENVER, COLORADO

DMEA 4522

Gramlich Exploration Company

Ida et al. claims

San Juan County, Utah

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DMEA
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Uranium

Joint Engineering and Geologic Report

by

F. R. Shawe
Geological Survey

H. F. Robertson
Bureau of Mines

September 1957

Reviewed by
DMEA OPERATIONS
9/27/57

DMEA 4522
GRAMLICH EXPLORATION COMPANY
IDA ET AL. CLAIMS
SAN JUAN COUNTY, UTAH

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ILLUSTRATIONS

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2.	Geologic map of part of Ida group showing location of proposed Stage I drill holes, Gramlich Exploration Co., San Juan County, Utah	11

DMEA 4522
GRAMLICH EXPLORATION COMPANY
IDA ET AL. CLAIMS
SAN JUAN COUNTY, UTAH

INTRODUCTION AND SUMMARY

The Gramlich Exploration Company, P. O. Box 435, Moab, Utah, applied for Defense Minerals Exploration Administration assistance on October 24, 1956 to explore claims in the La Sal Mountains, San Juan County, Utah. The proposal consisted of approximately 10,300 feet of rotary core and non-core drilling to be done in 28 holes and a limited amount of rim-stripping. The estimated cost of the original program was $64,555.00. On August 7, 1957 the applicant submitted an amendment (dated July 17, 1957) to the original application increasing the estimated cost of the proposed program to $65,955.00. Government participation at 75 percent would be $49,466.25.

Weather conditions prevented a field examination until July 1957, at which time the applicant was contacted to set a date for meeting the examining team. The property was examined on August 7, 1957 by F. R. Shawe, U.S. Geological Survey and H. F. Robertson, U.S. Bureau of Mines accompanied by Mr. J. W. Gramlich, president and general manager of the company.

The Ida, et al group of claims cover a ridge, called Dark Canyon Ridge at an elevation of about 11,000 feet above sea level sloping easterly away from a peak known as Mt. Mellinthin (La Sal Mountain). Rock units exposed on the subject property range from the Entrada formation of

Jurassic age through the Dakota and Mancos formations of Cretaceous age. Much of the claim area is covered by landslide debris and glacial morains. There are no producing mines in the immediate area.

The potential ore-bearing horizon in the area is the upper sandstone unit of the Salt Wash member of the Jurassic Morrison formation. The applicant classes the zone as favorable on the basis of thin seams of vanadium minerals exposed in two small prospect cuts. Six diamond core drill holes that tested the upper sandstone of the Salt Wash were drilled by the applicant. Two of the holes penetrated sandstone that might be considered as a "favorable type" host rock but, as shown by USGS gamma-ray logging unit were completely barren with regard to uranium content. The mineralization exposed in the north cut is spotty, has low uranium content, and is in a type of sandstone considered unfavorable for uranium ore deposits of significant size. The assay samples from the south cut were taken from landslide material consequently the samples are not considered as representative samples by the examining team.

Inspection of exposures on the applicant's claim group and information from other sources indicate to the examining team that the chance of making a significant uranium discovery on the property is not good. Denial of the application for DMEA assistance is recommended.

ACKNOWLEDGMENTS

The applicant furnished pertinent information, maps, and cost estimates of the proposed exploration. Geological and geophysical data on the property were obtained from the Grand Junction office of the Geological Survey. The Atomic Energy Commission was consulted for available information on the general area of the Ida, et al claim groups.

Memoranda of review by W. P. Williams, USGS and J. E. Crawford, USBM were noted.

LOCATION, TOPOGRAPHY, AND PHYSICAL FEATURES

The Ida Nos. 1 through 10, Jay Nos. 1 and 2, and Balsa Nos. 1 and 2 are located in sections 12 and 13, T. 27 S., R. 24 E., Salt Lake Meridian, San Juan County, Utah (figs. 1 and 2). The claims are situated along a heavily timbered ridge, known as Dark Canyon Ridge, which slopes easterly away from Mt. Mellinthin. The property is reached from Moab, Utah by traveling south on U.S. Highway No. 160 for 24 miles to LaSal Junction; thence 14 miles east over Utah Highway No. 46 to the LaSal Pass turnoff; thence 13 miles over a winding mountain road which eventually crosses the property at an altitude of about 11,000 feet above sea level. The last portion of the road is usually blocked by deep snow at least six months of the year.

The climate of the claim area is normal for mountainous land at altitudes from 10,600 feet to 11,300 feet. Deep snow accumulates from early fall to late spring and prohibits surface operations during that time. The melting snow then requires a run-off period during which the property is inaccessible as the access roads are quite often located in the intermittent stream beds.

Road and drill site construction would not present any unusual problems. The large timber and landslide debris on the claims could result in a slightly higher than average unit cost for both preparatory tractor-dozer work and the drilling operation.

Water for mining, drilling, and domestic purposes is obtainable on the property included in the proposed project. Timber is also available, either on the property or from sawmills operating nearby. Power needs would be met by the use of portable light plants.

HISTORY, PRODUCTION, AND OWNERSHIP

Activity in the vicinity of the applicant's claims in the LaSal Mountains has consisted of mining claim location and subsequent yearly assessment work. There are no mining operations within a five mile radius of the Ida group of claims. Mining operations on a very small scale (5 or 10 tons per quarter year) have been active on the west side of the LaSal Mountains since about 1950. These occurrences, however, were being mined for the vanadium content rather than for uranium.

The claims included in the application (as amended on July 17, 1957) are as follows:

Claim Name	Original Location			Amended Location		
	Date	Book	Page	Date	Book	Page
Ida 1 thru 8	6-18-54	131	219-222	6-15-55	321	150-153
Ida 9 and 10	9-5-55	62	356	--	--	--
Jay 1 and 2	2-8-54	273	401	6-15-55	321	149
Balsa 1 and 2	6-15-55	321	147-148	--	--	--
Joker 1	?	337	4	--	--	--

By means of various deeds, leases, etc., the applicant claims control of the ground included in the application but no copies of such instruments were submitted. Location procedures on all claims appear to have been valid and claim corners and discoveries were marked on the ground. However, a detailed check was not made.

PRESENT STATUS

Exploration and Development

Exploration to date has consisted of six diamond core drill holes and two large prospect cuts as shown on figure 2. The results obtained by the exploratory work are discussed in the section on "Ore Deposits".

Mining Equipment and Other Facilities

There are no buildings or equipment on the property. The applicant's proposal included furnishing the necessary equipment and labor for the program and the establishment of living accommodations for project personnel at the site.

GEOLOGY

The Ida group of claims is situated high in the LaSal Mountains close to the laccolithic masses that form the core of the mountain group. The area has a thin mantle cover and much of it is covered by glacial material, landslide material, and rock glaciers; exposures are poor. Seven rock units are present (Carter and Gualtieri, in press). They are, from oldest to youngest, an undifferentiated section of Jurassic Entrada sandstone and Jurassic Carmel formation, the Jurassic Summerville formation, the Salt Wash member of the Jurassic Morrison formation, the Brushy Basin member of the Jurassic Morrison formation, the Cretaceous Burro Canyon formation, Dakota sandstone, and the Cretaceous Mancos shale. The beds are gently tipped and folded and one normal fault of a few hundred feet displacement cuts across the northwest part of the area. No igneous rocks are exposed on the property, however, the proximity of offshoots from the laccoliths is evidenced by small areas of baked mudstones and dense silica cemented sandstones and pebble conglomerates (fig. 2).

The oldest mapped unit, the undifferentiated Entrada sandstone and Carmel formation is exposed in the northwest corner of the property. Probably only Entrada sandstone crops out here; the Entrada is a fine-grained massive and crossbedded sandstone. Only the upper 60 feet is exposed. Overlying the Entrada sandstone are the thin-bedded red, gray, and brown sandy shales and mudstones of the Summerville formation. The Summerville is about 100 to 110 feet thick on the Ida group.

The Morrison formation overlies the Summerville; two members, the lower Salt Wash member and the upper Brushy Basin member, are present. The Salt Wash member consists of interbedded mudstones, siltstones, and sandstones. Presumably three thick sandstones, separated by the thin-bedded sandstones, mudstones, and siltstones, are present as are present elsewhere in the Salt Wash. The uppermost of these sandstones is considered the most favorable uranium-bearing horizon in the Salt Wash. The Salt Wash member of the Morrison formation is about 230 feet thick in this area. The Brushy Basin member has about the same type lithology as the Salt Wash member except without thick sandstone beds and is about 200 feet thick.

Above the Morrison formation, in ascending order, are the Cretaceous Burro Canyon formation, about 160 feet thick of interbedded white, gray, and light orange sandstone and green and purple shale; the Cretaceous Dakota sandstone, about 80 feet thick of coarse lenticular sandstone with some interbedded carbonaceous shale; and the Cretaceous Mancos shale, a gray to black marine shale. Most of the Mancos shale has been removed by

erosion and only about 300 feet is exposed on the property.

Pleistocene and Recent glacial and landslide material and rock glaciers cover much of the area. The thickness of these surficial deposits ranges from a thin veneer to probably greater than 300 feet.

The Dark Canyon fault, a normal fault of a few hundred feet of displacement, is the principal structural feature on the property. It is exposed along the west margin of the area, where Mancos shale is in fault contact with the Dakota sandstone and the Burro Canyon formation. The sedimentary beds dip gently toward the west. Toward the east, the crest of what appears to be a gentle open anticline trends north along the east margin of the area in the Ida No. 8 and Iceland No. 2 claims.

ORE DEPOSITS

No ore deposits are known on the Ida group nor in the general area of the Ida group. In a small cut (north cut, fig. 2) in the upper rim sand of the Salt Wash small streaks up to about 8 inches thick of vanadium minerals with a minor associated uranium content, are erratically exposed for about 12 feet of stratigraphic thickness but the lateral extent of the mineralization is not known. The sandstone host rock is iron-red with a few narrow bleached bands--a type of lithology that is generally considered unfavorable for ore deposits in the Salt Wash member of the Morrison formation.

Another cut on the property (south cut, figure 2) is said to have yielded 2 "selective grab samples" that assayed 0.40 percent U_3O_8 and 4.03 percent V_2O_5 and 0.89 percent U_3O_8 and 6.0 percent V_2O_5 respectively. However, this cut is in landslide debris and it is very doubtful whether it penetrates to the underlying bedrock.

The applicant has also drilled 6 diamond core drill holes through the upper sandstone of the Salt Wash. Two of these holes, I-4 and I-6, penetrated sandstone that might be considered as a "favorable type" of host rock. However, all of the applicant's holes, including I-4 and I-6, show evidence of oxidation and intensive leaching. Table I shows the results of a radiometric survey of the applicant's holes. The holes were probed by a USGS gamma-ray logging unit during September 1955.

Table I. *Radiometric logs of drill holes, DMEA 4522 (Uranium), Gramlich Exploration Company (Ida group), San Juan Co., Utah

Hole No.	Depth Drilled	Depth logged from	Depth logged to	Anomaly footage from	Anomaly footage to	grade percent eU_3O_8
I-1	310.7	5.5	309.9	196.8	200.3	<0.005
I-2	230.0	0.4	194.8	Barren		
I-3	231.0	2.0	230.8	196.1	197.2	<0.010
				205.4	207.1	<0.010
I-4	212.0	5.1	209.2	Barren		
I-5	183.8	4.9	180.7	Barren		
I-6	284.0	3.8	282.9	Barren		

* Radiometric logs made by C. M. Bunker, U.S. Geological Survey.

PROPOSED EXPLORATION

The applicant proposed to explore the property by a combination of core drilling and rim-stripping. Twenty-seven drill holes were proposed for Stage I of the applicant's program; 19 of these holes would average 300 feet in depth, 4 holes would average 450 feet in depth, and 4 holes would average 700 feet in depth. All holes would be drilled by plug-bit to the top of the Salt Wash member of the Morrison formation and then cored to bottom at the base of the uranium-bearing sandstone; one-fifth of the total footage would be cored. Fifty hours of bulldozer work was requested to extend the north and south cuts. The applicant proposed to do the drilling himself at the average cost of the bids submitted and to do the bulldozer work at $12.00 per hour. No program was submitted for subsequent stages, although the applicant indicated he would probably wish further Government assistance. The total estimated cost of the applicant's Stage I program is $65,955.00; Government participation at 75 percent of the total would be $49,466.25. The applicant proposed to furnish his share of the program costs in the form of labor and equipment rental.

CONCLUSIONS AND RECOMMENDATIONS

Topography of the area is such that drilling would have to be done from the top of the ridge that cuts diagonally across the center of the property. The large landslide area that covers the southwest part of the

property further reduces the size of a possible target area. (Two of the applicant's proposed holes are in an area that may well have over 300 feet of landslide debris overlying bedrock.) All of the holes drilled by the applicant show the uranium-bearing horizon as having been badly leached and show either very poor eU_3O_8 values or are barren. Mineralization exposed in the north cut is spotty, has poor uranium content, and is in a type of sandstone that is considered unfavorable for uranium ore deposits. Assays from samples taken in the south cut were taken from landslide material and specimen samples; they should be disregarded.

The nearest production, about 8 miles west of the subject claims, has been small and not especially high grade. A total of 430 tons was mined during a six year period with the ore averaging 0.19 percent U_3O_8 and 2.00 percent V_2O_5. This is the type of operation that, in all probability, would develop on the applicant's property.

The examining team recommends denial of the application for DMEA assistance.

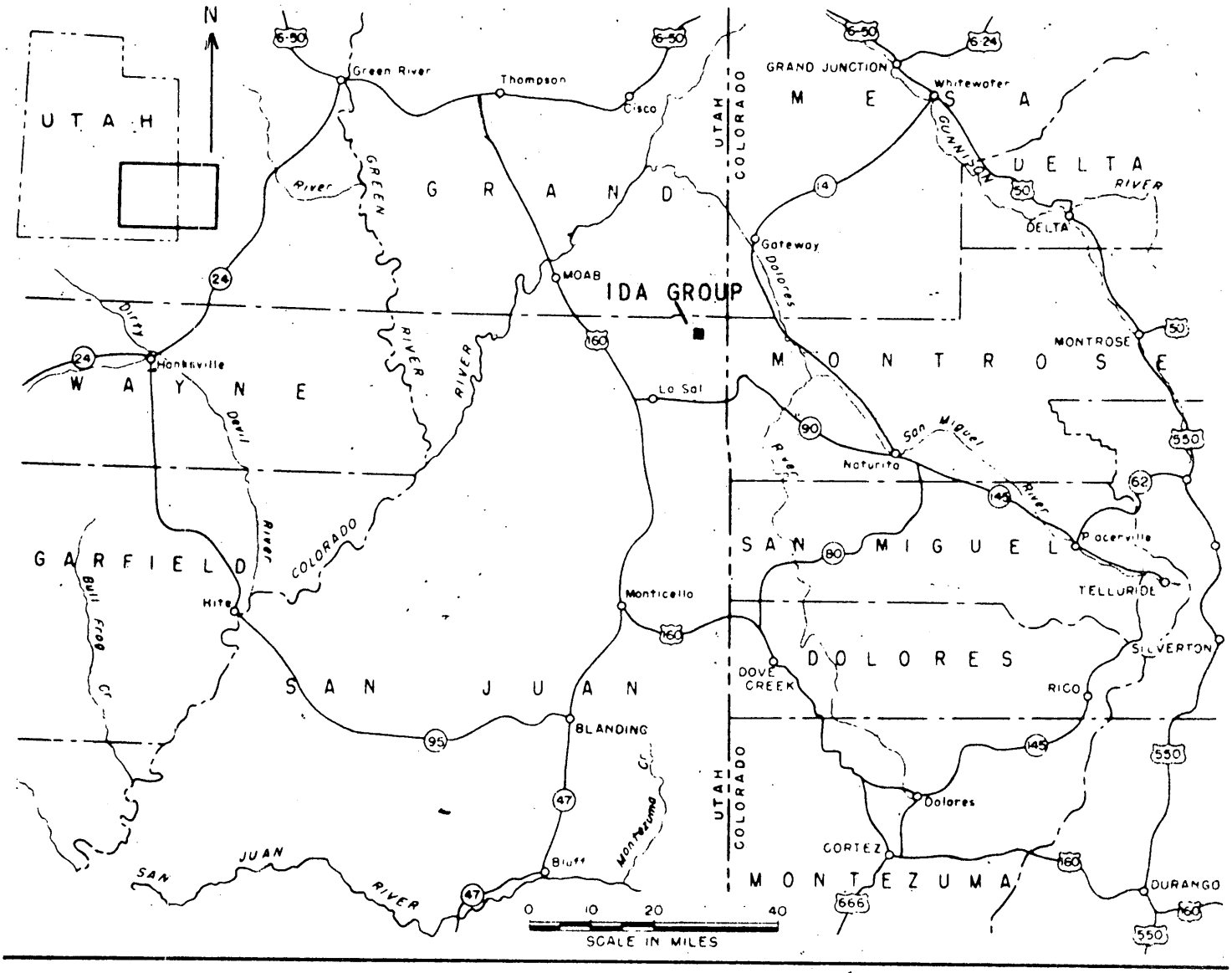
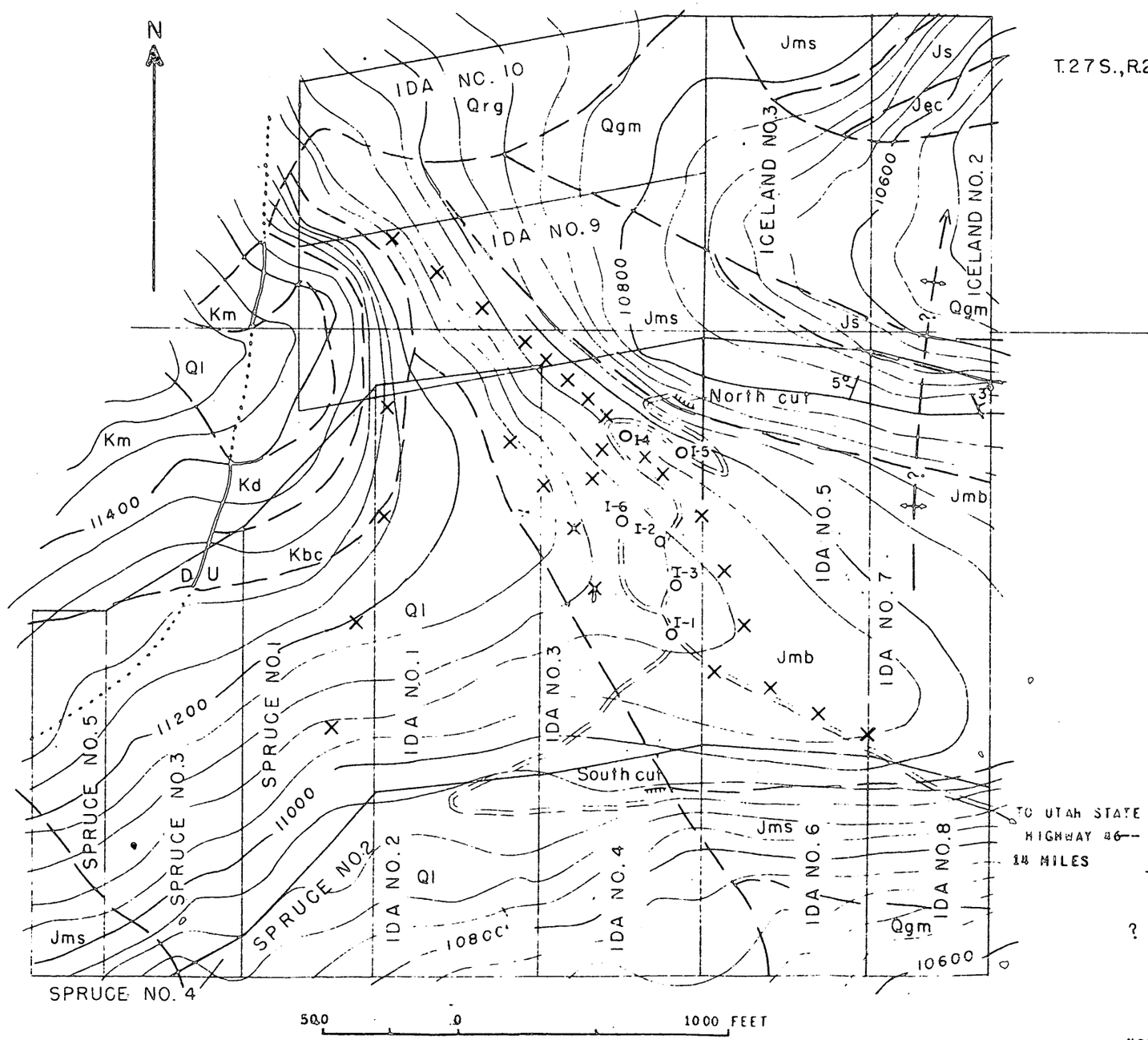
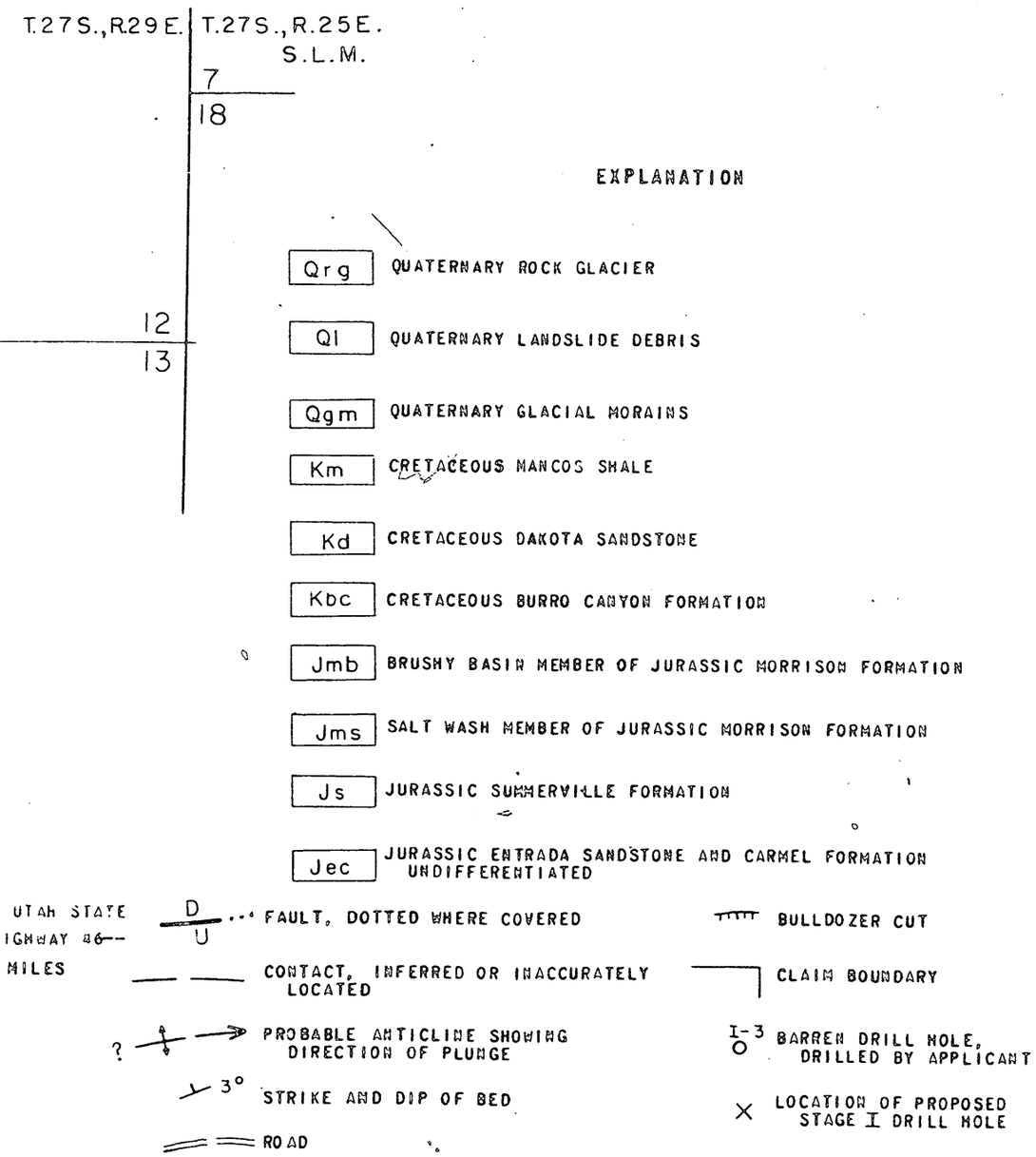


FIGURE 1.--INDEX MAP OF PART OF THE COLORADO PLATEAU SHOWING THE LOCATION OF THE IDA GROUP OF CLAIMS, GRAMLICH EXPLORATION COMPANY, SAN JUAN COUNTY, UTAH.

U.S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
SEPTEMBER 1957 DOCKET 4522





Note: GEOLOGY AND TOPOGRAPHY FROM U.S. GEOLOGICAL SURVEY, PRELIMINARY MAP OF THE MT. PEALE 1NW QUADRANGLE, SAN JUAN COUNTY, UTAH, BY WILLIAM D. CARTER AND JAMES GAULTIERI. (IN PRESS)
CLAIM MAP FROM MAP FURNISHED BY APPLICANT.

FIGURE 2.--GEOLOGIC MAP OF PART OF THE IDA GROUP, SHOWING LOCATIONS OF PROPOSED STAGE I DRILL HOLES, GRAMLICH EXPLORATION COMPANY, T.27 S., R.24 E., S.L.M., SAN JUAN COUNTY, UTAH.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
224 New Customhouse
Denver 2, Colorado

OFFICIAL FILE COPY
DMEA
RECEIVED AUG 21 1957

DATE	INITIALS	CODE
8/21	C	220
"	[illegible]	700

August 19, 1957

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Alternate Acting Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA-4522 (Uranium) Gramlich Exploration Co. (Ida, et al., claims) San Juan County, Utah

Enclosed is one copy each of the following:

1. Supplement to the original application.

2. Memorandum, dated August 15, 1957, from H. F. Robertson, Mining Engineer, U. S. Bureau of Mines, forwarding Item 1 to this office.

You will note from Robertson's memorandum that three bids on the proposed drilling were submitted but are being retained by the field examiners. These bids will be forwarded to your office with the Joint Report of Examination.

J. W. Townsend

J. W. Townsend

Enclosures

DMEA
ARTMENT OF THE INTERIOR
AUG 16 1957
REGION III
DENVER, COLORADO

P. O. Box 360
Grand Junction, Colorado

MEMORANDUM

August 15, 1957

TO: Executive Officer, DMEA Field Team, Region III

FROM: H. F. Robertson

SUBJECT: Amendments to original application, DMEA 4522, (Uranium) Gramlich Exploration Company (Ida group of claims) San Juan County, Utah

Four copies of a supplement to the original application are enclosed for distribution. The fifth copy has been retained in Grand Junction and attached to J. W. Hasler's copy of the brochure.

Three bids on the proposed drilling were also submitted to the Grand Junction office and are being retained by the inspecting engineer for use in the joint report of examination.

All available information indicates that denial of the application will be recommended.

H. F. Robertson

H. F. Robertson
Mining Engineer

OFFICIAL FILE COPY
DMEA
RECEIVED AUG 21 1957

DATE	INITIALS	CODE

Enclosure

12/4/56

DMEA

DEPARTMENT OF THE INTERIOR

NOV 30 1956

REGION III
DENVER, COLORADO

Region III

Building 20
Denver Federal Center
Denver 2, Colorado

November 29, 1956

Memorandum

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

From: Superintendent, Denver Experiment Station, Reg. III

Subject: Docket DMEA 4522 (Uranium), Gramlich Exploration Company (Ida, et al Claims) San Juan County, Utah

The application for Gramlich Exploration Company, Docket DMEA 4522, in the amount of $64,555.00 was received in this office on November 29, 1956.

A field examination will be made and suitable report prepared by an engineer from the Denver or Grand Junction, office.

W. M. KING

W. M. King

cc: W. M. Traver (2)
E. N. Harshman
J. W. Hasler
M. M. Salsbury
J. F. Shaw

Sec.Op.Comm. (2)

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

224 New Customhouse
Denver 2, Colorado

November 27, 1956

Memorandum

To: W. H. King (2) (w/brochure)
J. W. Hasler

From: DMEA Field Team, Region III

Subject: Docket DMEA 4522 (Uranium) Gramlich Exploration Company (Ida, et al Claims) San Juan County, Utah

Enclosed is the subject application in the amount of $64,555.00, copy of its transmittal to the Executive Officer from the Chairman of the Operating Committee, and review memoranda by W. P. Williams, USGS, and J. E. Crawford, USBM. A field examination, when weather conditions permit, and regular reports of examination are requested.

If it appears that a project will be recommended as a result of the examination, and you will so advise promptly, this office will instruct the Applicant with reference to the Lease Agreements and Consent to Liens and Subordination Agreements required. During the examination you should advise the Applicant that it will be necessary for him to furnish you with a map, showing all of the 40 claims included in the application.

Please return the brochure with your report of examination.

DMEA Field Team, Region III

Original signed by
W. M. TRAVER

By W. M. Traver
Executive Officer

Enclosures*
WMT:ytl

cc: Sec. Op. Comm. (2)
*Docket 4522
*Harshman
Chron.

700

FILE COPY
Surname:
Ching
Ellis
Kilgore
Selbrede
Fr Jones

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

NOV 23 1956

Gramlich Exploration Company
Box 435
Moab, Utah

Re: Docket No. DMEA-4522 (Uranium)
Ida, et al., Claims
San Juan County, Utah

Gentlemen:

The application for assistance in exploring your property, 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:

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,

O. O. Mittendorf (for)

Administrator

MChing/izm 11-23-56
cc to: Docket
Code 700
Mr. Ching
Admr.'s Reading File
DMEA Field Team, Region III (2)

R.C.S.

700

FILE COPY

Surname:
Ching
Hood
Selfridge
Kilsgaard
Matthews

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 NOV 23 1956
224 New Customhouse Building
Denver 2, Colorado

Re: Docket No. DMEA-4522 (Uranium)
Gramlich Exploration Company
Ida, et al., Claims
San Juan County, Utah

Dear Mr. Traver:

The subject application is being referred to you for a field examination when weather conditions permit and recommendations.

Copies of memoranda, dated November 16, and 20, 1956, by W. P. Williams, USGS, and John E. Crawford, USBM, respectively, relating to the subject application, are enclosed for your information. Also enclosed is a copy of the application with attached map.

If a contract appears likely, all listed claims not owned by J. L. Gramlich, Sr., should be covered by lease agreements as stated in the application, and Consent to Lien and Subordination Agreement forms should be executed by the owners. Furthermore, a map showing all the claims will be required.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (GB)

Enclosures

APPROVED:

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

Thor H. Kiilsgaard (GB)
Member, Geological Survey

MChing/izm 11-23-56
cc to: Docket
Code 700
Mr. Ching
Admr.'s Reading File
Operating Committee
Messrs. JECrawford, Rm. 3643
THKiilsgaard, Rm. 5224,
JOHosted, Rm. 3210, GSA

RCG

11/21/56 gla

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

RECEIVED NOV 20 1956 D.M.E.A.

Date November 20, 1956

DMEA Docket No. 4522
DMEA Contract No.
Commodity Uranium
Name of applicant Gramlich Exploration Co.
Name of property Ida Group Property
Location of property San Juan County, Utah
Estimated cost of project $64,555.

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee

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

Subject: Review of Application
(Application, Field Team Report, etc.)

1. Date of subject document: 10/24/56. 2. Date received by reviewer: 11/14/56.

3. Prior reports on this property known to reviewer: Yes ☐ No ☐

4. Prior reports on nearby properties known to reviewer: Yes ☐ No ☐

5. Information available on past production: Yes ☐ No ☐

6. Other pertinent factors known to reviewer: Yes ☐ No ☐

7. Explain items marked yes above:

8. Factors meeting special consideration:
   a. Location ☐
   b. Ownership ☐
   c. Evidence of mineralization ☐
   d. Geology ☐
   e. Proposed exploration method ☐
   f. Alternate exploration method ☐
   g. Costs ☐
   h. ☐

9. Action advised:
   a. Obtain information from applicant ☐
   b. Refer to Field Team ☒
   c. Denial ☐
   d. Agree with Field Team ☒
   e. Disagree with Field Team ☐
   f. Suggest alternate plan ☐
   g. Request another examination ☐
   h. Approval ☐
   i. Consult with Mr. _____ at _____ AEC office.

10. Remarks: (Use back of page if necessary) I concur in the recommendation of the Grand Junction Office, DMEA, that a field examination be made. Mr. J. O. Hosted, Washington representative of the Atomic Energy Commission, assisted in the review.

11-16-56

IN REPLY REFER TO:

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

RECEIVED
NOV 16 1956
D.M.E.A.

November 16, 1956

Memorandum

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

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

Subject: Review of application, DMEA 4522, Gramlich Exploration Company, J. W. Gramlich, Pres. and Gen. Mgr., Ida claims, Dark Canyon Ridge, San Juan County, Utah

The applicant proposes to explore for uranium ore deposits in the Dark Canyon region on the east flank of the La Sal mountains. The property involved consists of 40 unpatented lode mining claims.

The proposed project would consist of a total of 10,300 feet of drilling and 400 hours of bulldozing. Total cost of the work including supervision, technical services, and miscellaneous and contingencies would amount to $64,555.

As pointed out by Grand Junction personnel, there is good possibility that the property is favorable for DMEA participation. A field examination of the property should be made whenever, and as soon as, feasible. Because the claims are in rather high country snow conditions will be an important consideration in scheduling the field examination.

W. P. Williams

W. P. Williams

11/13/56

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

RECEIVED NOV 13 1956 D.M.E.A.

224 New Customhouse
Denver 2, Colorado

November 8, 1956

Memorandum

To: Secretary to the Operating Committee

From: DMEA Field Team, Region III

Subject: Docket DMEA 4522 (Uranium) Gramlich Exploration Co. (Ida Group Property) San Juan County, Utah

Enclosed are the original and three copies of a joint memorandum by members of the Grand Junction Office, DMEA, on the subject property. They recommend that the property be examined later next Spring when the weather conditions will permit the examination of the critical outcrops. We concur in this recommendation.

DMEA Field Team, Region III

W. M. Traver

By W. M. Traver
Executive Officer

MINERAL DEPOSITS
DMEA
RECEIVED
NOV 7 1956

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMEA
DEPARTMENT OF THE INTERIOR
NOV 8 1956
REGION III
DENVER, COLORADO

P. O. Box 360

U. S. GEOLOGICAL SURVEY
DENVER, COLORADO
RECEIVED
NOV 16 1956

November 6, 1956

Memorandum

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

Through: E. N. Harshman

From: J. William Hasler
M. H. Salsbury

DMEA 4522

Subject: Recommendation to make DMEA field examination, Gramlich Exploration Company (Uranium), Ida group, San Juan County, Utah.

We have reviewed the subject application and have checked with W. D. Carter and J. L. Gualtieri, geologists of the USGS, La Salle Creek project, who are familiar with the property. They believe the property may merit some DMEA assistance and, therefore, it is recommended that the property be examined in the field.

Mr. Gualtieri informs us that there have been two snow storms in the area during October and that critical outcrops are probably obscured. A field examination of the property is not advisable until late spring due to snow conditions.

J. William Hasler
J. William Hasler,
Geological Survey

M. H. Salsbury
M. H. Salsbury,
Bureau of Mines

FMB/mlr

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration
Washington 25, D. C.

October 29, 1956

Cranlich Exploration Company
P. O. Box 435
Moab, Utah

Subject: DMEA-4522
Re: Exploration Assistance
Dark Canyon Ridge Properties

Gentlemen

Your application for exploration assistance, dated October 24, 1956 submitted to our office at Denver, has been assigned Docket Number DMEA-4522 and referred to the Rare and Miscellaneous Metals Division in the Washington office. Kindly identify all future correspondence relating to your application by this Docket Number.

Sincerely yours,

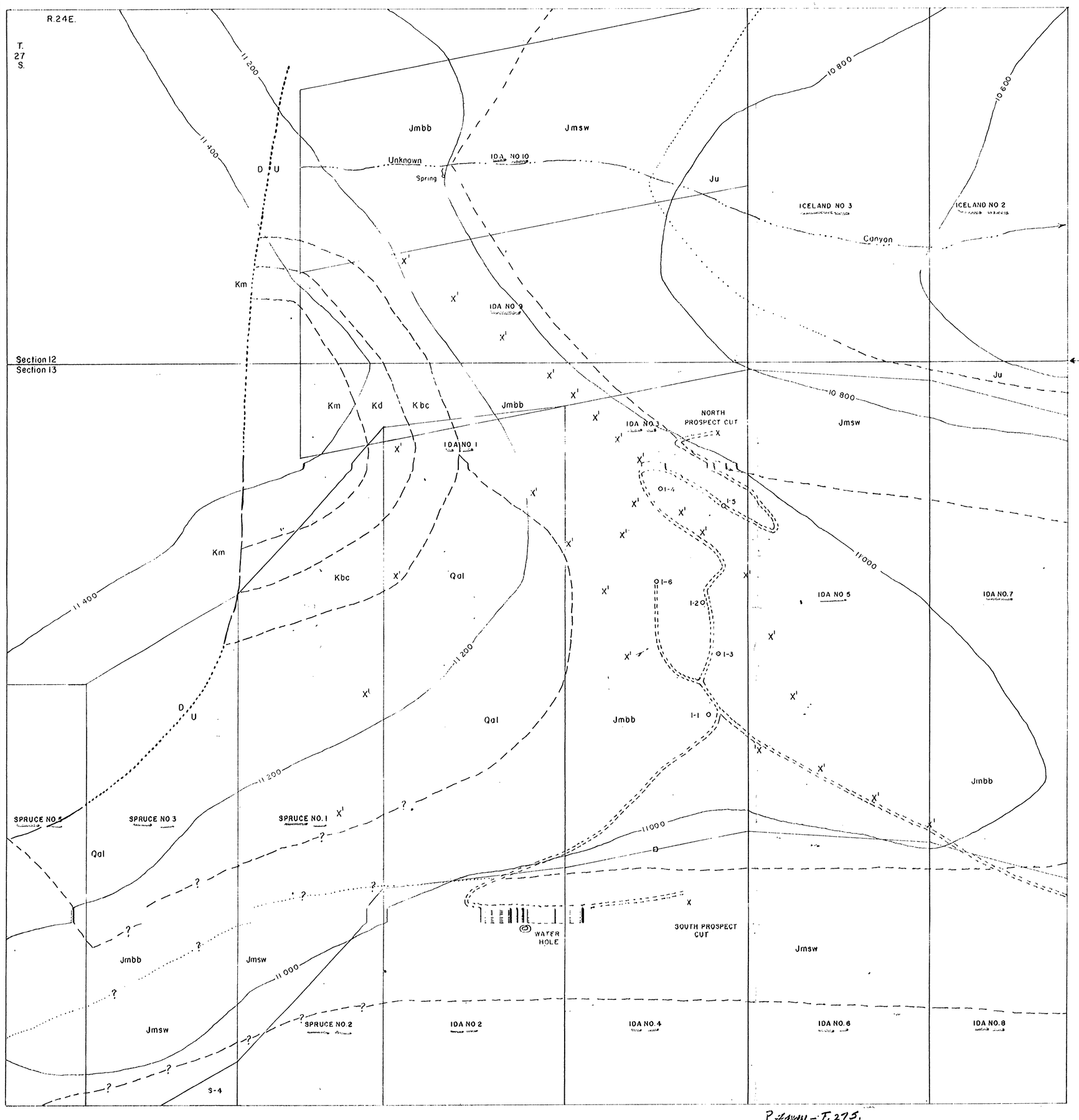
Allen S. Dakan, Chief
Operations Control and
Statistics Division

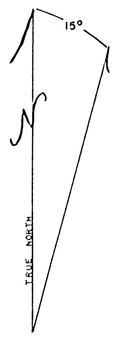
Copy to:

Region III. Denver 2, Colorado

Code 700

3571





EXPLANATION

Qal	Quaternary alluvial and landslide debris.
Km	Mancos shale.
Kd	Dakota formation
Kbc	Burro Canyon formation.
Jmbb	Brushy Basin member — Morrison formation.
Jmsw	Salt Wash sandstone member — Morrison formation.
Ju	Jurassic undifferentiated.
.....	Concealed contact.
-----	Inferred contact.

Contour interval 200 feet, Datum is Mean Sea Level.

o . Drill hole.

X' Proposed Phase-One hole.

NOTE: Geology modified after U.S.G.S. Preliminary Mt. Peale No. 1 NW, Quadrangle, W.D. Carter et al, 1955 and 1956-unpublished. Topography after U.S.G.S. Multiplex Method-1953.

Survey data from a license survey plat submitted by: G.H. Newell, Utah License No. 1770.

SCALE: 1 inch = 200 feet.

200 0 200 400 600 800 FEET.

P. 44M - F. 275.

PRELIMINARY GEOLOGIC MAP OF PART OF THE IDA GROUP OF CLAIMS, LOCATED IN TOWNSHIP 37 SOUTH, RANGES 24 & 25 EAST, S.L.M., SAN JUAN COUNTY, UTAH-OPERATED BY THE GRAMLICH EXPLORATION COMPANY, MOAB, UTAH.

COMPILED BY: WM. O. MC DOUGALD 10-15-56