224 New Customhouse
Denver 2, Colorado

MAR 7 1957

Memorandum

To: Chairman, Operating Committee, DMEA

From: DMEA Field Team, Region III

Subject: Docket No. DMEA 2771 (Uranium), Contract No. Idm-2577, Granlich Exploration Company (Brown's Hole Area), San Juan County, Utah - FINAL REPORT.

Enclosed are the original and three copies of a joint final engineering and geologic report, dated February 15, 1957, by Frank M. Byers, Geologist, Geological Survey, and Paul V. Fille, Mining Engineer, Bureau of Mines; and memoranda in transmittal thereof, in turn, by Stephen R. Wilson, dated February 21, 1957, and J. William Hasler, dated February 25, 1957.

The original and one copy of the Operator's final report were forwarded by our memorandum of October 11, 1956.

The exploration work completed consisted of expending 58 hours of bulldozer time in preparing access roads and drill sites, the drilling of 58 core drill holes, aggregating 8,597.4 feet, and analysis of 19 samples for U_3O_8 content; all at a total accepted cost of $33,880.89, toward which the Government contributed 90%, or an amount of $30,492.80.

Final payment to the Operator was processed by this office October 12, 1956, in conformance with the Report of Review of reported project costs, by the Contract Administration and Audit Division, DMEA, dated August 1, 1956.

The exploration work resulted in the discovery or development of a significant quantity of uranium ore, on which a Certification was issued May 22, 1956.

Original signed by
E. N. HARSHMAN

By _____
E. N. Harshman
Acting Executive Officer

JWT:prl
cc: Allen E. Jones, A.E.C.
E. R. Gordon, A.E.C.) w/copy of
Final Report file) Joint Final
Region III) Engineering
Harshman) and Geologic
Wilson) Report.
Hasler)
Townsend
Corres. file
Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 12, UTAH

DMEA
DEPARTMENT OF THE INTERIOR
MAR 7 1957
REGION III
DENVER, COLORADO

March 5, 1957

Memorandum

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

From: Stephen R. Wilson

Subject: Docket No. DMEA 2771 (Uranium), Contract Idm-E577, Gramlich Exploration Co., San Juan County, Utah

Reference is made to your memorandum of March 1, 1957, concerning minor discrepancies noted in the subject final engineering and geologic report.

Under "Description of the Project Work" on page 16, work completed under Stages 1, 2, and 3 should be as shown in your memorandum. Page 16 has been retyped to conform. The number of holes completed under Stages 1 and 3 are incorrectly listed on page 17. This page has been retyped.

Under "Production and Ore Reserves" on page 11, it is stated that 706.5 tons of ore has been produced from the Blue Jay claim. This tonnage was not meant to be directly related to the tonnage subject to DMEA royalty. As shown in Table 2 on page 12, a total of 706.5 tons of ore was produced from the Blue Jay claim during the period 1950-1955. Page 11 has been retyped, however, with a qualifying statement. A qualifying phrase concerning the royalty paying period also has been added to paragraph 3, page 18, and this page retyped.

Sufficient copies of the revised pages, 11, 16, 17, and 18, are attached for substitution in all copies of the report.

Stephen R. Wilson
Stephen R. Wilson

cc: J. W. Hasler

Revised pages substituted in report

224 New Customhouse
Denver 2, Colorado

March 1, 1957

MEMORANDUM

To: E. H. Wilson

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

Subject: Docket No. DMEA 2771 (Uranium), Contract No. I4m-2577, Gramlich Exploration Company (Brown's Hole Area), San Juan County, Utah

In reviewing the joint final engineering and geologic report, dated February 15, 1957, pertaining to work completed under the subject contract, minor discrepancies are noted which we believe should be corrected.

In reference to the tabular material on page 16, the MF-104 reports on file indicate the following:

Stage I

Bulldozing, 3 hours
Diamond drilling, 19 holes, 2650 feet
Sample analysis, 3 samples

Stage II

Bulldozing, 3 hours
Diamond drilling, 20 holes, 2561.6 feet
Sample analysis, 11 samples

Stage III

Bulldozing, 32 hours
Diamond drilling, 19 holes, 3385.8 feet
Sample analysis, 5 samples

In the third paragraph on page 17, the figure "18 holes" in Stage I should be changed to read "19 holes," and the figure "20 holes" in Stage III should be changed to read "19 holes."

If you find our analysis to be correct, please submit sufficient copies of revised pages 16 and 17, and revised pages for any other pages affected by the revision of the material on pages 16 and 17 for our substitution in all copies of the report.

On page 11 of the report, it states that 706.5 tons had been produced to date. The Royalty Review by the Contract Administration and Audit Division, dated November 21, 1956, covering the period from April 12, 1954 through August 12, 1956, indicates that the total production for that period, subject to royalty payments, was only 205.5 dry tons.

If the stated production figure of 706.5 tons is correct, it appears that it should be qualified and a breakdown of production given, inasmuch as Amendment No. 3 establishes the date of April 12, 1954 as being the date for start of payment of royalty on production instead of the date of the Contract, as is usually the case.

Please review the latter matter on production and submit a revised page if you are in agreement with our analysis and opinion in the matter.

Original signed by
E. N. HARSHMAN

E. N. Harshman

JWT:prl

cc: Harshman
Hasler
Townsend
Corres. file
Chron.

224 New Customhouse
Denver 2, Colorado

February 25, 1957

Memorandum

To: S. R. Wilson

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

Subject: Semiannual Report Period 7/1/56 - 12/31/56. Docket DMEA 2771 (Uranium), Contract Idm-2577, Uranlich Exploration Company (Brown's Hole Area), San Juan County, Utah

Enclosed is a copy of the Chairman's letter dated February 18, 1957 which is self explanatory.

Undoubtedly your engineer was misguided by the data contained in the listing of uranium projects enclosed with our memorandum dated January 18, 1957 pertaining to the general subject of semiannual reports of certified projects.

The figures noted in this list are in error and should be corrected as follows:

Total amount of Bonus Paid to Operator to Date	$7,615.39
Bonus Royalty Paid	422.02
Bonus Royalty Due	none

The last item may perhaps be more clearly understood as Balance of Bonus Royalty Due. The word "none" is used so as to be consistent with the notation following the item Amount of Royalty Due found on page 1 of the subject report.

Four copies of this memorandum are being forwarded to the Chairman for filing as a supplement to the original report.

We suggest that you hold all semiannual reports on uranium projects until advised otherwise by this office.

Original signed by
E. N. HARSHMAN

E. N. Harshman

Enclosure
NHM/vj
cc: Semiannual Report File 2577
Correspondence File 2577
Chair. Opr. Comm. (4)
Harshman) w/cy Chair. ltr dtd 2/18/57
Hasler)
Marshall
Chron.

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

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

FEB 18 1957

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

Re: Semiannual Reports of Certified Projects

Dear Mr. Traver:

Please refer to the latest semiannual reports on Docket DMEA-2771, Gramlich Exploration Company, Docket DMEA-1957, Ellihill Mining Company, and Docket DMEA-3003, Ol Jato Uranium Company, forwarded with your memoranda, dated February 11, 1957.

Under "Initial Production Bonus," on page 2 of each report, there appears to be a misinterpretation of the meaning of the last two items: Bonus Royalty Paid and Bonus Royalty Due. The engineer has interpreted these items as applying to the initial bonus itself and not the royalty therefrom.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

APPROVED:

Frank D. Lamb
Member, Bureau of Mines

Thos. B. Nolan
Member, Geological Survey

CC TO:
CORRESP E 397
PHOTO CY TO:
CORRESP E 577
CORRESP E 650
Semi-ann Report E 577
" " " " E 650
WILSON (3)

DMEA
DEPARTMENT OF THE INTERIOR
FEB 5 1957
REGION III
DENVER, COLORADO

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

P. O. Box 360
Grand Junction, Colorado

IN REPLY REFER TO:

DEPARTMENT OF THE INTERIOR
FEB 5 1957
REGION III
DENVER, COLORADO

February 4, 1957

Memorandum

To: Executive Officer, DMEA Field Team, Region III

From: J. William Hasler

Subject: Docket No. DMEA 2771 (Uranium), contract No. Idm-E 577, Gramlich Exploration Company (Brown's Hole Area), San Juan County, Utah

As requested in your memorandum of January 25, we are returning the map, as it has served our needs.

J. William Hasler
J. William Hasler,
Geologist

Enclosure

cc: E. N. Harshman
S. R. Wilson
J. W. Townsend
DMEA file
" chron.

Map returned to Townsend suspense file

IN REPLY REFER TO:
DMEA
DEPARTMENT OF THE INTERIOR

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

FEB 4 1957
REGION III
DENVER, COLORADO

P. O. Box 360
Grand Junction, Colo.

February 1, 1957

Memorandum

To: S. R. Wilson, U. S. Bureau of Mines,
Salt Lake City, Utah

From: F. M. Byers, Jr.,
Through: J. William Hasler

Subject: DMEA docket 2771, Gramlich Exploration, Inc., San Juan County, Utah

Enclosed are three maps, figures 2 and 3 for the final report on Gramlich, docket 2771, contract Idm-E 577, and figure 3 for the final report on Marble Canyon Uranium, Inc., contract Idm-E 816, docket 3612.

The prints are somewhat faded, but I feel certain that with better adjustment of speed on our ozalid machine better prints can be turned out.

Also enclosed are the old prints which we altered and were submitted to the draftsman. Please let us know if the changes are satisfactory.

F. M. Byers, Jr.,
Geologist

FMB/mlr

Enclosures

cc: E. N. Harshman
W. M. Traver
DMEA file
" chron.

224 New Customhouse
Denver 2, Colorado

January 25, 1957

Memorandum

To: J. W. Hasler

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket No. DMEA 2771 (Uranium), Contract No. Idm-E577, Gramlich Exploration Company (Brown's Hole Area), San Juan County, Utah.

In a telephone conversation with S. R. Wilson on January 24, he requested that, if we had a copy of the map supplied by Gramlich in his request for additional funds, which was denied by the Administrator May 11, 1956, we forward it immediately to you.

We know of no other map than the one a copy of which is enclosed. Please return the map to this office when it has served your needs.

Original signed by
W. M. TRAVER

W. M. Traver

Enclosure

JWT:prl

cc: Harshman
Wilson
Townsend
Corres. file
Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
P. O. Box 360
Grand Junction, Colo.

IN REPLY REFER TO:
DMEA
DEPARTMENT OF THE INTERIOR
DEC 13 1956
REGION III
DENVER, COLORADO

December 12, 1956

Memorandum

To: Executive Officer, DMEA Field Team, Region III

Through: E. N. Harshman

From: F. M. Byers, Jr.,

Subject: Reply to your memo of November 19.
DMEA docket 2771 (Uranium), contract Idm-E 577,
Gramlich Exploration, Inc., San Juan County, Utah

We have deferred replying to your memorandum of November 19 concerning the subject contract, inasmuch as we were about to transmit the geologist's portion of the final report.

Three of the four claims listed by the operator, but not shown on his original maps, are shown on figure 2 of the interim geologic report forwarded to you on April 6, 1956. These three claims are the Golden West 11, Red Bird, and Blue Bird. The fourth claim you mentioned, the Big Chief, is not shown on any of the maps in our files. Possibly Steve Wilson may have a map showing the location of this claim; therefore, I am sending him a copy of this memorandum along with the geologist's portion of the final report.

In answer to your question regarding the bearing of the claim lines on our figure 2 of the interim geologic report, the claims should be correctly shown at an angle of about 15° to the section lines, for our figure 2 was based on a map prepared by a registered surveyor. According to Gordon Weir, the geologist, who was associated with much of the administration of this contract, the original claim map with the claim lines parallel to the section lines was in error in that magnetic north was mistaken for true north. As far as I can tell everything on the original maps, except the section lines, were in error, but by a simple rotation in the amount of the magnetic declination, all map features, except the section lines can be shown correctly; therefore, no conflicts with adjacent properties are involved. The claim map submitted with the forthcoming final report is identical with figure 2 of the interim report and, therefore, will be correct.

F. M. Byers, Jr.
For J. William Hasler,
Geologist

COPY TO: ROYALTY
PHOTOCOPY TO: TOWNSEND
12/14/56

FMB/mlr

cc: S. R. Wilson w/ cc rpt.
E. N. Harshman

Corresp File

IN REPLY REFER TO:
DMEA
DEPARTMENT OF THE INTERIOR
DEC 13 1956
REGION III
DENVER, COLORADO

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

P.O. Box 360
Grand Junction, Colo.

December 11, 1956

Memorandum

Certified Mail

To: S. R. Wilson, U. S. Bureau of Mines,
Salt Lake City, Utah

From: F. M. Byers

Subject: Forwarding geologist's portion of final report,
DMEA docket 2771 (Uranium), contract Idm-E 577,
Gramlich Exploration Company

I am forwarding to you via Certified Mail a copy of the geologist's portion of the final report on the subject contract. Also enclosed are copies of figures 2 and 3. Figure 1, the index map, is normally prepared by the Bureau engineer.

Our report is fairly complete and we believe that with very few changes and additions the report will be ready for transmittal. We have left blanks in the report where costs and total footage drilled under contract are mentioned. You can easily fill these blanks from the data on the MF 104's in your office.

Please return the joint report to us for final checking, and we will transmit it to Denver.

F. M. Byers, Jr.
For J. William Hasler,
Geologist

FMB/mlr

Enclosures

cc: W. M. Traver (2)
E. N. Harshman (1)

COPY TO: ROYALTY FILE
PHOTOCOPY TO: TOWNSEND
12/14/56

RET. FOR DIST.

CORRESP. FILE

224 New Customhouse
Denver 2, Colorado

November 29, 1956

Mr. J. W. Gramlich, Sr., President
Gramlich Exploration Company
Moab, Utah

Re: Docket DMEA 2771 (Uranium), Contract Idm-E577,
Gramlich Exploration Company (Brown's Hole Area)
San Juan County, Utah

Dear Mr. Gramlich:

The results of Report of Royalty Review covering the subject contract for the period April 12, 1954 to November 15, 1956, discloses that there is an overpayment of $86.58. Our records further indicate, however, that there is a balance of $15.72 due as royalty on AEC production bonus payment for shipment of ore covered by VCA settlement sheet, Lot No. 72483, which results in a net overpayment of $70.86.

Accordingly, this is to inform you that the amount of $70.86 is being credited to your royalty account.

Yours very truly,

Original signed
W. M. TRAVER

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

MEM/vj

cc: Royalty File E577
Corres. File E577
Sec. Opr. Comm. (2)
S. R. Wilson
Finance Office, Reg. III
Marshall
Chron.

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

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

224 New Customhouse
Denver 2, Colorado

November 29, 1956

Memorandum

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

From: Donald T. Finch, Auditor

Subject: Report of Royalty Review, Gramlich Exploration Company
Docket No. DMEA-2771 (Uranium), Contract Idm-E577
(Brown's Hole Area) San Juan County, Utah

Attached is your copy of Report of Royalty Review covering subject contract for the period April 12, 1954 to November 15, 1956.

Donald T. Finch
Donald T. Finch, Auditor

Enc.
DTF:bh
cc-East/Christensen
Wilson
Royalty File E-577
Subject
Chron.

Corresp.

DEFENSE MINERALS EXPLORATION ADMINISTRATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

REPORT OF ROYALTY REVIEW

I have reviewed the files of the Executive Officer, DMEA Field Team, Region III, Denver, Colorado, pertaining to Contract Idm-E577, Docket No. DMEA-2771, including Amendments Nos. 1 through 5, (Uranium), dated August 6, 1953, with

Gramlich Exploration Company
Formerly Gramlich Minerals, Inc.
Moab, Utah

for the purpose of determining the amount of royalties due the U. S. Government on sales of Uranium and Vanadium ores from property involving 60 claims in San Juan County near Moab, Utah, and commonly referred to as the Brown's Hole Area, during the period April 12, 1954 to November 15, 1956.

My review included a tabulation and recomputation of all ore sales settlement sheets, confirmation of royalty receipts recorded by the Regional Finance Officer and reconciliation of total pounds of U_3O_8 sold, with the records of the Field Operations Office of the Atomic Energy Commission, Grand Junction, Colorado.

A Certification of Discovery or Development was issued May 22, 1956, and Annex II, Amendment No. 3 to the Exploration Contract provides for percentage royalty on all minerals mined from April 12, 1954, for a period of eleven years from August 6, 1953, or until the total net amount contributed by the Government without interest is fully repaid, whichever occurs first. A Report of Review in lieu of a final audit dated August 1, 1956 indicated accepted costs under the Exploration Contract amounting to $33,880.89, with the Government's contribution on a 90 percent basis being $30,492.80.

This royalty review was made in lieu of an on-site audit of the Operator's accounts and records for the following reasons:

(a) The Examining Engineer is of the opinion that all sales of ore produced during the period April 12, 1954 to November 15, 1956, for which settlement sheets have been released, have been properly accounted for.

(b) The administrative cost to the Government of an on-site royalty audit at this time would be excessive in relation to the amount of possible additional royalty which might be disclosed.

The review established the total net sales of Uranium and Vanadium ores to be $20,915.99, as summarized in Exhibit A, attached. Royalty due the U. S. Government at the contract rate of 5% is $1,045.80. The royalty paid and balance due are as follows:

Total Royalty Due	$1,045.80
Total Royalty Paid	1,116.66
Overpayment (See Exhibit B)	$ 70.86

November 21, 1956

Donald T. Finch
Donald T. Finch, Auditor

Exhibit A

GRAMLICK EXPLORATION COMPANY
FORMERLY GRAMLICK MINERALS, INC.
MOAB, UTAH

Contract Idm-E577 | Docket No. DMRA-2771

SCHEDULE OF PRODUCTION AND ROYALTIES - PERIOD APRIL 12, 1954 THROUGH AUGUST 6, 1956

A.E.C. Purchasing Agent	A.S.& R. Co.	Climax Ur.	V. C. A.	Total
Dates	5/19/54 to 3/8/55	5/18/54 to 5/23/55	3/28/55 to 9/15/56	4/12/54 to 11/15/56
A.E.C. License No.	P-116	P-116	P-116	P-116
Gross Weight, Pounds	208,260	4,559.50	217,260	430,079.5
Dry Weight, Pounds	197,272	4,152	209,597	411,021
Dry Weight, Tons	98.636	2.0760	104.7985	205.5105
Average Assays				
U_3O_8 (Uranium)	.2877	22.1187	.3703	.55523
V_2O_5 (Vanadium)	1.6337	14.8642	2.0005	1.95442
Pounds, U_3O_8	587.58	918.37	776.18	2,282.13
Base Payment U_3O_8	$1,987.68	$3,214.30	$2,716.65	$7,918.63
Development Allowance	$ 293.77	$ 459.19	$ 388.11	$1,141.07
Premiums				
Excess of 4 lbs. U_3O_8 per ton				
Excess lbs. U_3O_8	219.52	910.05	356.98	1,486.55
Amount @ 75¢ per lb.	$164.63	$682.54	$267.75	$1,114.92
Excess of 10 lbs. U_3O_8 per ton				
Excess lbs. U_3O_8		897.57		897.57
Amount @ 25¢ per lb.		$224.40		$224.40
Haulage Allowance				
Per Wet Ton (Average)	2.20	22.00	1.46	2.03
Number of Wet Tons	104.1300	2.27975	108.6300	215.03975
Amount of Haulage Allowance	$228.83	$50.15	$158.16	$437.14
Pounds, V_2O_5	3,222.92	617.16	4,193.00	8,033.08
Amount of V_2O_5 Payment @ 31¢ per lb.	$999.10	$191.32	$1,299.83	$2,490.25
Penalty for Excessive Lime	$152.86		$69.95	$222.81
Sampling Fee	$ 3.00			$ 3.00
Total Receiving Station Payment	$3,518.15	$4,821.90	$4,760.55	$13,100.60
A.E.C. Bonus Payments	1,884.44	3,214.30	2,716.65	7,815.39
Total Value Subject to DMRA Royalty	$5,402.59	$8,036.20	$7,477.20	$20,915.99
Average Value per Ton	$ 54.77	$3,871.00	$ 71.35	$ 101.77
Royalty Percentage	5%	5%	5%	5%
DMRA Royalty Due	$270.13	$ 401.80	$373.87	$1,045.80
DMRA Royalty Received	356.71	401.80	358.15	1,116.66
Overpayment	$ 86.58	--	$ 15.72	$ 70.86

Last Settlement Sheet: V.C.A. 72483 dated 9/15/56.

Exhibit B

GRANLICH EXPLORATION COMPANY
FORMERLY GRANLICH MINERALS, INC.
MOAB, UTAH

Contract Idm-2577

Docket No. IMEA-2771

SCHEDULE OF ROYALTY OVERPAYMENT

American Smelting and Refining Company Liquidation Settlement No. 6127, dated September 22, 1954, included production from San Juan Claim and Pine Tree Claim. The San Juan Claim is not subordinated to the Exploration Contract.

Total Royalty Paid for this Liquidation	$104.81	
Royalty due Pine Tree Claim only was 5% of $364.51, or	18.23	
Overpayment Liquidation Settlement No. 6127		$86.58

Less:

Royalty due on Vanadium Corporation of America Liquidation Settlement No. 72483 for Period Aug. 28, 1956 to Sept. 15, 1956	$ 42.40	
Royalty Received this Statement	26.68	AEC BONUS
Balance of Royalty Due		$15.72
Net Overpayment		$70.86

/AEC LTR DTD 8/16/56 BONUS BAL ON DUP-C6-395 is 5689.13#
UP TO AND INCLUDING YCA LOC NO 67213 Bond 3/16-3/27/56

Check Sheet of Examining Engineer

Operator's Name Gramlich Exploration Company

Address Moab, Utah

Exploration Contract No. 1[illegible]-E577 Docket No. DMEA-2771

		Check One Yes	Check One No
1. (a)	Does the Operator stockpile ore subject to royalty repayment?		✓
(b)	If so, is segregation and identification procedure adequate?		
2. (a)	Does Operator commingle production subject to DMEA royalties with exempt production?		✓
(b)	If so, do you consider the allocation of the comingled production equitable?		
3. (a)	Does the Operator stockpile mine or mill rejects (low grade ore, tailing, middlings, etc.) that may have potential value within the royalty payment period?		✓
(b)	If so, are adequate records maintained on such material to protect the Government's interest?		
4.	Do you consider the assay controls in effect are adequate?	✓	
5.	Do you consider that the manner of disposing of production gives the Government its fair royalty returns?	✓	
6.	Do your periodic examinations of operations indicate the Operator is properly reporting his production of ores subject to DMEA royalties?	✓	
7.	Does the Operator buy from or sell to other Operators?		✓
8.	Comment on any item 2 (b) to 6 if answer is No.		

Date Aug. 21, 1956
Nov. 21, 1956
W.E.Y.

W. E. Young
Mining Engineer

224 New Customhouse
Denver 2, Colorado

November 19, 1956

Memorandum

To: J. W. Hasler

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 2771 (Uranium), Contract Idm-E577, Gramlich Exploration Company (Brown's Hole Area), San Juan County, Utah

A review of the contract file discloses the following claims listed on Annex I, II and III of Amendment No. 3 to the exploration contract are not shown on the available maps of the claims subordinated thereto:

Golden West 11
Red Bird
Blue Bird
Big Chief

In order that the contract file may be completed, you are requested to prepare and submit 12 copies of a complete map of the 60 claims listed on Annex I, II and III.

We note that the map prepared by your office and part of Amendment No. 1 indicates that the bulk of the claims are aligned parallel to the side lines of adjacent sections. The same claims are canted in Figure-2 "Claim Map of Gramlich Exploration Company Lease", included in Interim Geologic Report forwarded to this office by your memorandum of April 6, 1956.

It is desirable that a complete claim map also be included with the forthcoming final report.

Original signed by
W. M. TRAVER

W. M. Traver

MMM/vj
cc: Royalty File E577
Corres. File E577
Geo. Opr. Comm. (2)
S. R. Wilson
E. N. Harshman
J. W. Townsend
Marshall
Chron.

224 New Customhouse
Denver 2, Colorado

November 15, 1956

Memorandum

To: S. R. Wilson

From: Executive Officer, DMEA Field Team, Region III

Subject: Check Sheet of Examining Engineer, Gramlich Exploration Co. Docket No. DMEA-2771 (Uranium), Contract No. Idm-E577 (Brown's Hole Property) San Juan County, Utah

Reference is made to memorandum dated October 26, 1956, which transmitted four copies of Engineer's Check Sheet for amendment of date of signature by Mr. Young.

The Auditor advises that he has been able to make positive reconciliation of Gramlich production with the Operations Field Office of A.E.C. at Grand Junction, but cannot complete his royalty report untill receipt of the check sheets in question. Please expedite their return to this office.

Original signed by
W. M. TRAVER

W. M. Traver

DTF:bh
cc-Finch
Royalty File E-577
Corres. File E-577
Chron.

224 New Customhouse
Denver 2, Colorado

October 26, 1956

Memorandum

To: S. R. Wilson

From: Executive Officer, DMEA Field Team, Region III

Subject: Check Sheet of Examining Engineer, Gramlich Exploration Co. Docket No. DMEA-2771 (Uranium), Contract No. Idm-E577 (Brown's Hole Property) San Juan County, Utah

There has been considerable unavoidable delay in reconciling Gramlich's production with the A.E.C. It is, therefore, desired to have an Engineer's check sheet that is current.

Enclosed are four copies of Engineer's check sheet which Mr. Young signed August 21, 1956. Please have him review these and amend the date. The amended four copies should be returned to this office for use by the auditor.

Original signed by
W. M. TRAVER

W. M. Traver

Enc.
DTF:bh
cc-Finch
Roy. File E-577
Corres. File E-577
Chron.

DMEA
DEPARTMENT OF THE INTERIOR
OCT 11 1956
REGION II
DENVER, COLORADO

October 9, 1956
Grand Junction,
Colorado

E-577

Mr. John W. Gramlich, Sr.
Gramlich Exploration Co.
Moab, Utah

Dear Mr. Gramlich:

Reference is made to our recent phone conversation regarding the final report on DMEA Contract Idm-E577. As I reported in our conversation, this report was mailed to you on September 18, 1956. I have checked the Post Office here and they have no idea of its whereabouts. My return address was plainly marked so feel the report would have been returned had no delivery been made in Moab.

To avoid any further delay, I am making up additional copies for you to send in to the DMEA.

Very truly yours,

Ernest E. Burgh

Ernest E. Burgh
Mining Engineer

10/11/56
Copies sent to:
Horshmon
Wilson
Hooler

224 New Customhouse
Denver 2, Colorado

October 11, 1956

Memorandum

To: Chairman, Operating Committee, DMEA

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

Subject: Docket No. DMEA 2771 (Uranium), Contract No. Idm-2577, Oramlich Exploration Company (Brown's Hole Area), San Juan County, Utah.

Enclosed are the original and one copy of the final engineering and geologic report submitted by the Operator pertaining to work completed under the subject contract.

E. N. Harshman

E. N. Harshman

Enclosures

JWT:prl

cc: Final report file, Reg. III)
Harshman) w/copy of Operator's final report.
Wilson)
Hasler
Townsend
Corres. file
Chron.

224 New Customhouse
Denver 2, Colorado

October 11, 1956

Mr. John W. Gremlich, Sr.
Gremlich Exploration Company
Moab, Utah

Re: Docket No. DMEA 2771 (Uranium)
Contract No. I4m-2577
Gremlich Exploration Company
(Brown's Hole Area)
San Juan County, Utah

Dear Mr. Gremlich:

Reference is made to your letter of October 9, 1956 whereby you forwarded the original and four copies of your final engineering and geologic report and requested reinstatement of costs of drilling Hole III-17, which were disallowed in processing form MP-104 for the period March through June, 1955.

A review of the matter indicates that Hole III-17 was drilled some 300 feet east of the approved location and some 800 feet east of the most easterly hole approved for drilling by the Field Team's letter of April 22, 1955.

Under the circumstances, it is deemed that Hole III-17 was not drilled within the provisions of the Contract. Therefore, your request for reinstatement of the drilling costs previously disallowed by this office is denied.

Upon receipt of your final engineering and geologic report today, we initiated action to effect final payment to you of the amount withheld in processing form MP-104, "Operator's Monthly Report and Voucher," for the period March through June, 1955, and you should receive the Government's check within the next few days.

Very truly yours,

E. N. Harshman

E. N. Harshman
Acting Executive Officer, DMEA
Field Team, Region III

JWT:prl
cc: Chairman, Op.Comm. (2)
Harshman
Wilson
Hasler
Townsend
Corres. file
Chron.

w/copy of Operator's letter of Oct. 9, 1956

DMEA
DEPARTMENT OF THE INTERIOR
OCT 21 1956
RECEIVED
DENVER, COLORADO

Grand Junction, Colorado
October 9, 1956

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

Re: Docket DMEA - Contract Idm-E577

Dear Mr. Traver:

Enclosed is a letter from Mr. Ernest E. Burgh of Grand Junction stating he forwarded copies of a final report on the above DMEA contract. You will note this material was forwarded September 18, 1956, but to date, I have not received same. I have, therefore, requested Mr. Burgh to supply additional copies which I have now received and am forwarding same to you.

Reference is made to Administrative Audit Difference Statement, dated July 4, 1955, wherein $979.50 was disallowed inasmuch as Hole No. III-17 allegedly did not come within the contract terms. We should like for you to reconsider payment for this hole for the following reason:

> This hole was drilled under the authorization shown by a map attached to your letter of April 22, 1955 signed by W. M. Traver and E. N. Harshman. The decision to drill III-17 was based on the general E-W trend of ore as shown by previous stages. It was planned to drill south and west of III-16 no more or less than 100 feet distant. However, the rough terrain and existence of several large and cherty boulders made the location of III-17 some 200 feet west of III-16 the most advantageous from drill site preparation cost standpoint.

I am sorry for the inconvenience any delays on my part have caused and I sincerely hope that this DMEA contract can now be finalized.

Very truly yours,

J. W. Gramlich Sr.

John W. Gramlich, Sr.
Gramlich Exploration Company

jwg/lc

Enc.

224 New Customhouse
Denver 2, Colorado

October 12, 1956

Memorandum

To: T. A. Christensen

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

Subject: Docket DMEA 2771 (Uranium) Contract Idm-E577,
Gramlich Exploration Company (Brown's Hole area)
San Juan County, Utah - FINAL PAYMENT

Reference is made to our memorandum dated July 12, 1955 whereby we transmitted final Form MF-104, Operator's Monthly Report and Voucher, for the period March, April, May and June, 1955 and requested that you withhold the amount of $500.00 from reimbursement to the Operator pending receipt of the Operator's final report.

The Operator's final report was received in this office October 11, 1956; therefore, we recommend that final payment to the Operator be made on the following basis, which is in conformance with the Report of Review of contract expenditures by the Contract Administration and Audit Division dated August 1, 1956, which was released to this office August 27, 1956.

Basis for Final Payment

Total accepted cost -	$33,880.89
Government participation at 90 percent - - - - - - - -	30,492.80
Total prior payments -	30,012.05
Balance due the Operator	$ 480.75

E. N. Harshman

E. N. Harshman

JDC:jy
cc: MF-104 File E577
Corresp. File
Sec. Op. Comm. (2)
Wilson
Harshman
Townsend
Chron.

224 New Customhouse
Denver 2, Colorado

October 15, 1956

Mr. J. W. Gramlich, Sr.
Gramlich Exploration Company
Moab, Utah

Re: Docket DMEA 2771 (Uranium)
Contract Idm-E577
Gramlich Exploration Company
Brown's Hole Area
San Juan County, Utah

Dear Mr. Gramlich:

Reference is made to the Administrative Audit Difference Statement dated July 14, 1955, whereby you were informed that an amount of $500.00 was withheld from the March-June, 1955 monthly report and voucher pending additional work or receipt of your Final Report. The Final Report has been received in this office.

During the review of contract expenditures by the Contract Administration and Audit Division, DMEA, it was determined that the maximum allowable drill footage for Stage I was exceeded by five feet. Final payment to you is now being processed by this office, from which the Government's share of the cost for five feet of drilling at the Fixed Unit Cost of $3.89 per foot will be deducted.

Very truly yours,

J. W. Townsend
Acting Executive Officer,
DMEA Field Team, Region III

JDC:jy
cc: Corresp. E577
Sec. Op. Comm. (2)
Harshman
Wilson
Townsend
Chron.

Moab, Utah

DMEA
DEPARTMENT OF THE INTERIOR
SEP 24 1956
REGION III
DENVER, COLORADO

Sept. 22, 1956

D.M.E.A.
Mr. W. M. Grover, Build Team Reg III

Contract 2 771
Ind E 377.

Dear Mr Grover:

Have been after Mr Schmucker for several months to get this report to you. Just rec'd his letter of 19 Sept. advising he cannot get to it so is turning it over to a Mr. Earnest Burgh who says he will get it to you in the very near future.

I am indeed sorry this has been delayed so long, however Soil Engineers are so busy they don't care whether they do a job or not.

Mr Burgh is just getting started so perhaps we can depend on him to do a good early job.

Sincerely

H. Greenlick Sr.

9/24/56
Sent Photo copy to:
Administrator (2)
Harshman
Wilson
Hosler
Townsend

224 New Customhouse
Denver 2, Colorado

September 19, 1956

Mr. John W. Gramlich, Sr., President
Gramlich Exploration Company
Moab, Utah

Re: Docket DMEA 2771 (Uranium)
Contract Idm-E577
Gramlich Exploration Company
Brown's hole area
San Juan County, Utah

Dear Mr. Gramlich:

Reference is made to our letter to you, dated July 23, 1956, wherein we requested advice from you as to when we could expect to receive the final engineering and geologic report for Contract Idm-E577.

A letter, dated July 25, 1956, was received from your bookkeeper, Merna Bench. In her letter she stated that you had made arrangements with Mr. John Schumacher to write the report and forward it to this office. As of this date, we have had no further word concerning the final report.

If the final report has not been received in this office within thirty days from the date of this letter, the matter will be referred to the Washington Office for such action as may be deemed necessary.

Very truly yours,

W. M. Traver

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

JDC:jy
cc: Corresp. E577
Sec. Op. Comm. (2)
Harshman
Wilson
Hasler
Townsend Chron.

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

224 New Customhouse
Denver 2, Colorado

DMEA
Date Rec'd.
AUG 27 1956

BUREAU OF MINES
Denver, Colorado

August 27, 1956

Memorandum

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

From: Donald T. Finch, Auditor

Subject: Report of Review - Gramlich Exploration Company
Docket DMEA-2771 (Uranium), Contract No. Idm-E577
(Brown's Hole Area) San Juan County, Utah

Enclosed is your copy of Report of Review covering subject contract for the months of June, 1954 to June, 1955, inclusive.

Donald T. Finch
Donald T. Finch, Auditor

Enc.

DTF:bh

cc-East/Christensen
Wilson
Townsend (MF-104 File)
Subject
Chron.

DEFENSE MINERALS EXPLORATION ADMINISTRATION
CONTRACT ADMINISTRATION AND AUDIT DIVISION

REPORT OF REVIEW

I have reviewed the Monthly Reports of:

Gremlich Exploration Company
(Formerly Gremlich Minerals, Inc.)
Moab, Utah

pertaining to Exploration Project Contract No. Idm-E577, Docket No. DMEA-2771, including Amendments Nos. 1 through 5, for the months of June, 1954 to June, 1955, inclusive, covering a project for the exploration of Uranium on property known as Brown's Hole Area located in San Juan County, approximately 22 miles south of Moab, Utah.

My review included an examination of the Monthly Reports (Form MF-104) and supporting documents attached thereto, comparison of the costs claimed with the contract and pertinent schedules, consultation with the Executive Officer of the DMEA Field Team, Region III, and a determination of the reasonableness and propriety of the costs.

This review was made in lieu of a final audit of the Operator's accounts and records for the following reason:

> All of the costs incurred were under a contract provision for payment by the Government on the basis of agreed estimated costs of units of work actually performed.

The review disclosed the following facts in regard to the amount paid or to be paid the contractor:

Total cost as billed by Contractor		$34,809.55
Exceptions: (Schedule attached)		
By DMEA Finance Officer	$917.26	
Harewith	11.40	928.66
Total Accepted Cost		$33,880.89

The contract calls for a 90 percent participation of exploration expenses by the United States Government. Therefore, payment to the contractor by the Government in the amount of Thirty thousand, four hundred ninety-two and 80/100ths Dollars

** $30,492.80 **

is considered valid and proper, provided that the Regional Executive Officer, the Administrator, or other competent official has accepted or will accept the project as having otherwise met the terms of the contract.

August 1, 1956

Donald T. Finch, Auditor

GRAMLICH EXPLORATION COMPANY
(FORMERLY GRAMLICH MINERALS, INC.)

CONTRACT IEM-2577 DOCKET NO. DMEA-2772

SCHEDULE OF EXCEPTIONS

Exceptions by DMEA Finance Officer

251.5 Feet of diamond drilling @ $3.89 per foot applicable to Stage No. 3 Drill Hole No. 17, which was not located in conformance with the exploration contract $979.50

Less Operator's error on MF-104 report for months of March, April, May, June, 1955

Total diamond drilling footage for Stage 3 Holes Nos. 11 through 20

According to drill logs was	2,018.2 Feet
Operator claimed	2,002.2 "
Under Claim	16.0 "

Amount under claimed 16 feet @ $3.89 per foot $ 62.24

Net disallowance by Certifying Officer upon recommendation of Examining Engineer and approval of Executive Officer, DMEA Field Team, Region III $917.26

Exceptions Herewith

5.5 Feet of diamond drilling @ $3.89 per foot which was in excess of maximum footage allowed for Stage No. 1 $ 21.40

Less Operator's error in addition in cumulative total to date shown on MF-104 for months of March, April, May, June, 1955 10.00 11.40

Total Exceptions $928.66

On August 1, 1956 all of the foregoing exceptions were reviewed with the Executive Officer of the DMEA Field Team, Region III. Both the Executive Officer and the Auditor concur in these exceptions.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 12, UTAH

August 21, 1956

DMEA
AUG 23 1956
BUREAU OF MINES
Denver, Colorado

cc + ch. sheet
to auditors 8/23

Memorandum

To: Executive Officer, DMEA Field Team, Region III, Denver, Colo.

From: Stephen R. Wilson

Subject: Docket No. DMEA-2771, Contract Idm-E577, Gramlich Exploration Co., San Juan County, Utah

Enclosed are the original and three copies of Check Sheet of Examining Engineer pertaining to the subject contract. The inspecting engineer, W. E. Young, has completed and signed the form.

Stephen R. Wilson
Stephen R. Wilson

cc: J. Bruce Clemmer

224 New Customhouse
Denver 2, Colorado

August 7, 1956

Memorandum

To: S. R. Wilson

From: Executive Officer, DMEA Field Team, Region III

Subject: Check Sheet of Examining Engineer, Gramlich Exploration Co.
Docket DMEA 2771 (Uranium), Contract No. Idm-E577
(Brown's Hole Lease), San Juan County, Utah

Enclosed are five copies of Check Sheet for attachment to royalty report on subject company.

Please have the Examining Engineer complete, sign and return four copies for use with the Auditor's report.

W. M. Traver

W. M. Traver

Enc.

WMT:bh

cc-Finch
Corres. File E-577
Royalty File E-577
Chron.

224 New Customhouse
Denver 2, Colorado

July 27, 1956

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 2771 (Uranium), Contract Iam-E577, Gramlich Exploration Company (Brown's Hole Area), San Juan County, Utah.

Enclosed for your records are two copies of a self-explanatory letter, dated July 25, 1956 from the Operator's bookkeeper, which is in reply to our letter of July 25, 1956 pertaining to the Operator's rendering the final engineering and geologic report.

W. M. Traver

W. M. Traver

Enclosures

JWT:prl

cc: Harshman) w/copy of enclosure
Wilson)
Hasler)
Corres.
Townsend
Chron.

DMEA
Date Rec'd.
JUL 26 1956
BUREAU OF MINES
Denver, Colorado

Moab, Utah
July 25 - 56

2771
W 577

Mr. W. M. Traver
Denver, Colo.

Dear Mr. Traver:

I regret that this report has not reached you before now.

Arrangements were made by Mr. Gramlich for Mr. John Schumacher of Grand Junction, Colo., to make the report on this contract and send it to you, over a month ago.

Mr. Gramlich is out of town at present but will be back about August 1st. I am certain he will take care of this just as soon as he returns.

Sincerely Yours
Merna Beech

Book keeper

700

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

DMEA
Date Rec'd.
JUL 25 1956
BUREAU OF MINES
Denver, Colorado

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

JUL 23 1956

Re: Docket No. DMEA-2771 (Uranium)
Contract No. Idm-E577
Gramlich Exploration Company
Brown's Hole Area
San Juan County, Utah

Dear Mr. Traver:

Reference is made to your memorandum of July 11, 1956, requesting advice as to whether a correction should be made to Annex II of the original contract and Annex III of Owner's Consent to Lien, dated August 10, 1954, with respect to the designation and recording page of the Blue Bird or Big Chief claim.

Inasmuch as we have Mr. J. W. Gramlich, Sr.'s letter of March 1, 1954, countersigned by H. W. Balsley, the owner, explaining the correct designation and page of recordation; and inasmuch as we have an Owner's Consent to Lien, dated January 25, 1954, signed by Howard W. Balsley, with the correct designation of the claim, we believe that further correction at this date is unnecessary.

It is suggested that in any future reference or business involving the claim in question the following correct designation and recording data be used:

Big Chief	Book R	Page 420

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee

APPROVED:

Member, Bureau of Mines

Member, Geological Survey

7/25/56
Copies distributed to
Finch
Hershman
Wilson
Hasler

224 New Customhouse
Denver 2, Colorado

CERTIFIED MAIL

July 23, 1956

Mr. John W. Gremlich, Sr., President
Gremlich Exploration Company
Moab, Utah

Re: Docket DMEA 2771 (Uranium)
Contract Idm-2577
Gremlich Exploration Company
(Brown's Hole Area)
San Juan County, Utah

Dear Mr. Gremlich:

By letter of May 18, 1956, we called to your attention the provisions under Article 5 (b) of Exploration Project Contract Idm-2577 requiring the rendering by your company of a final engineering and geologic report pertaining to the work completed under the contract.

We will appreciate advice from you by return mail as to the date on which you expect to forward the required report to this office.

Very truly yours,

W. M. Traver

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

JWT:prl

cc: Chairman, Oper. Comm. (2)
Harshman
Wilson
Hasler
Townsend
Corres. file
Chron.

224 New Customhouse
Denver 2, Colorado

July 11, 1956

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 2771 (Uranium), Contract Idm-E577
Gramlich Exploration Company (Brown's Hole Area)
San Juan County, Utah

The Owner's Consent to Lien, Annex III to Amendment No. 3 dated July 29, 1954 shows

Blue Bird	Book R	Page 419
Blue Bird	Book R-1	Page 466

Annex II of the original contract agrees with the above.

A review of the correspondence file indicates that the above first mentioned Blue Bird should be

Big Chief	Book R	Page 420

Please see letter dated March 1, 1954 to W. H. King signed by J. W. Gramlich, Sr., J. W. Gramlich and countersigned by H. W. Balsley, copies of which were forwarded you with our letter of March 5, 1954.

This project was certified by Certificate May 22, 1956.

Please advise if a correction should be made to Annex II of the original contract and Annex III of Amendment No. 3, showing Big Chief, Book R, Page 420. A Report of Review by the auditors is being deferred pending your decision.

HMC

W. M. Traver

HMC:bh

cc-Harshman
Wilson
Hasler
Finch
Townsend
Corres. File E-577
Chron.

HMC
Review & write Ch. Op. Comm.
cc to include Finch
DMM

Memorandum:

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

From: Donald T. Finch, Auditor

Subject: Contract IDME-577, Docket DMEA 2771, Uranium - Gramlich Exploration Co., Assignee of Gramlich Minerals, Inc.

1. Reference is made to our discussion July 6, 1956 concerning the claims listed on page 2 of Annex II attached to the Exploration Contract. Under the name "Howard Bolsby of Moab, Utah - Jasper" there appears a list of seven claims. Included in this list are:

Blue Bird — Recorded in Book No. R1 Page 466
Blue Bird — Recorded in Book No. R Page 419 x

2. A review of the correspondence for this Contract in your files indicates that Annex II of the Contract should have been corrected to show claim Big Chief recorded in Book No. R Page 420 in place of Blue Bird recorded in Book R Page 419. x
See letter copy dated 3-1-54 to W. H. King signed J. W. Gramlich, Jr., J. W. Gramlich

and Countersigned by H. W. Baldry. See also letter to Chairman, Operating Committee, D M E a from Executive Officer, D M E a Field Team, Region IV dated March 5, 1954.

3. The project was certified by Certificate May 22, 1956.

4. It is my understanding from our conference that your office will undertake to determine if a correction should be made of Annex II of the Exploration Contract. Completion of the Report of Review will be deferred pending your determination and advice to me.

7-6-56 Donald J. Lynch

STANDARD FORM No. 14
APPROVED BY THE PRESIDENT
MARCH 10, 1926

TELETYPE

TELEGRAM

OFFICIAL BUSINESS—GOVERNMENT RATES

FROM

BUREAU

CHG. APPROPRIATION

U. S. GOVERNMENT PRINTING OFFICE 10—1723

June 15, 1956

To: Secretary to the Operating Committee, DMEA, Washington
Attention: C. O. Mittendorf

Reur telephone call 6-14-56 DMEA-2771, Contract Idm-E577 Gramlich Exploration Company. Find we have copies of all correspondence referred to in our files. Will request further information from field regarding delay in examination of Docket 4103, Deer Trail.

W. M. TRAVER

W. M. Traver

CONFIRMATION
WMT/pw
cc: Harshman
E577
DMEA-4103

OPR WA 310 OK VVV
WA 310- G PLS ACK
TI
ACK FOR WHAT PLS OPR JUST 310- G MO

WASH DC BU MINES 310 GA PLS

DN 235 BUR MINES 6-15-56 10-06

SECRETARY TO OPERATING COMMITTEE, DMEA
ATTN-- C O MITTENDOFR

REURTELEPHONE CALL 6-14-56 DMEA 2771, CONTRACT IDM-E577, GRAMLICH EXPLORATION CO. FIND WE HAVE COPIES OF ALL CORRESPONDENCE REFERRED TO IN OUR FILES. WILL REQUEST FURTHER INFORMATION FROM FIELD REGARDING DELAY NXX IN EXAMINATION OF DOCKET 4103, DEER TRAIL.

W M TRAVER
END PL ACK 10-07 VT
PNWKBRECD OK RT
O

224 New Customhouse
Denver 2, Colorado

May 29, 1956

Memorandum

To: E. N. Marshman

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

Subject: Docket DMEA 2771 (Uranium), Contract Idm-E577, Gremlich Exploration Company (Brown's Hole Area), San Juan County, Utah.

Enclosed for your records is a copy of a letter dated May 15, 1956 from J. W. Gremlich, Sr. to the Administrator, DMEA, and the Administrator's reply of May 23, 1956 relative to the Government's denial of the Operator's request for approval of additional work and funds under the subject Contract.

J. W. Townsend

Enclosures

JWT:prl
cc: Wilson) w/copies of enclosures
Hasler)
Townsend)
Corres. file)
Chron.

Corres.

700
DMEA
Date Rec'd.
MAY 28 1956
BUREAU OF MINES
Denver, Colorado

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

Cov. File
Reg. III

MAY 23 1956

Mr. John W. Gramlich, Sr., President
Gramlich Exploration Company
Moab, Utah

Re: Docket No. DMEA-2771 (Uranium)
Contract No. Idm-E577
Brown's Hole Area
San Juan County, Utah

Dear Mr. Gramlich:

This is with reference to your letter of May 15, 1956, regarding the subject property.

I have noted your comments concerning your property and operations as well as your reference to the field examination made on your property. Our decision to deny your application was made only after a careful study of the many pertinent factors involved. The work completed under the subject contract has undoubtedly contributed greatly to our knowledge of your property. This and other information made available in recent months do not support the idea of the presence of extensive ore bodies in the central area. Therefore, in the absence of more tangible geological evidence favoring such occurrences, we do not believe that further Government participation in exploring your property is warranted.

However, in the event further work on your part discloses new and more favorable evidence of large-scale mineralization in the central area, we shall be pleased to consider a new application.

Sincerely yours,

G. O. Mittendorf

Administrator

MChing/FEJohnson/gla
5-23-56
cc to: Admr.'s Reading File
Mails & Files docket
Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA
Code 700
Mr. Ching
DMEA Field Team, Region III (2) w/2cc
Mr. Gramlich's letter 5/15/56

DMEA
Date Rec'd.

MAY 28 1956

BUREAU OF MINES
Denver, Colorado

Moab, Utah
May 15, 1956

U. S. Department of Interior, D.M.E.A.
Washington, D. C.

Attention: Mr. C. O. Mittendorf

RE: Extension D.M.E.A. 771 Contract Idm E 577

Gentlemen:

It was my desire when in Washington last week to visit and talk with you personally in regard to our project above. However, I was advised of your temporary absence and referred to Mr. Ellis whom I found to be very pleasant and cooperative. In due course, Mr. Ling, geologist in charge of our application, was called in. Mr. Ling made no commitments but advised that some action would be taken within two or three weeks and we would be duly notified later.

During the discourse it became quite obvious to me that his decision would ultimately be unfavorable. He stressed quite strongly that since only small and medium sized deposits had been mined around the edges of this area, the potential deposits could be expected to be similar and therefore, not a suitable drill target.

In view of the following, I wonder if you agree with that approach - to me, it seems illogical.

On these claims rich uranium ore has been and is being mined - proof of its presence and a source. Since many of us know that a favorable structure or structures need exist to hold a major deposition and that these structures seldom show on the surface of the average covered area, then the only solution of their existence is to find them by drilling. (a D.M.E.A. function).

The area embraced by this application has many features favorable to the formation of above structures or traps, namely:

1. Variable thick and thin sands (some known up to 108 ft.)
2. Abundant and necessary clays and shales.
3. Many fractures and faulting causing tilting and irregularities of beds.

Besides being traversed by The Big Indian (Lisbon) fault, along which some of the largest and richest known deposits of uranium have been discovered, the Rattle Snake mine is barely two miles to the southeast, being the nearest, and in identical geological formations.

c
o
p
y

As an example of the folly of the small deposit theory, let me quote the following from actual experience.

In 1945 I located the Green River Utah Vanura group of claims; started shipping ore at beginning of A.E.C. programs in 1948 under direct supervision of my son, Philip, who produced a large tonnage from various outcrops and deposits near edge of claims. Though an area two miles long on the outcrop was worked, we never encountered a deposit containing over 300 tons - many as small as a few hundred pounds each.

Phil wasdrafted off the job and sent to Korean war. I had too much property to manage alone so sold the G. R. property to Four Corners Uranium Corporation and retained the Brown's Hole property, believing then and still do, that it is the better of the two. During my ownership of the G.R. property, I tried at numerous times to get the U.S.G.S. and A.E.C. to give me some of the drilling they were doing in what they considered favorable areas. They sent in various geologists at different times to determine if it was worth drilling.

The geologic conclusion was - viz: Since there had been no major ore bodies found or mined and since only small deposits had been encountered over a considerable area, there was no reason to believe a large deposit was possible in this area. Therefore,the target would be too small to justify a drilling program.

No drilling was done - area rejected.

After selling to Four Corner Uranium Company, they solicited my opinion as to where to drill and asked if I thought there was a chance for large deposits in that area.

My reply was -- The presence of rich ore in any amount indicates a source: drill back where there is more cover and where a more constant moisture content is present and if the proper trap or structure exists you will have a chance of major deposits.

Results: They began striking large deposits. In some instances a few hundred feet away and others over a quarter of a mile from the small deposits. The largest ore body to date (one continuous deposit) contains over 57,000 tons. Others range from 4,000 to 40,000 tons. Currently, considerably over 200,000 tons have been found in a comparatively small radius on the Green River Claims, and all this in an area rejected by geologists because only small deposits had been found previously.

Being an official of Four Corners Uranium Corporation, I can verify the figures quoted above as authentic.

Your field geologists do not spend enough time on the ground to study physical possibilities. The one reporting to you on this application was on the property only one day.

Thank you for bearing with me thus far and trusting you can give the potentialities of this area some consideration in view of the above, I am

DMEA
Date Rec'd.
MAY 28 1956
BUREAU OF MINES
Denver, Colorado

Yours very truly,

/s/ J. W. Gramlich, Sr.

JWG:pp By: J. W. Gramlich, Sr.

P. S.

While this letter wasin the hands of the typist, I have just this morning received your letter of the 11th stating your denial of application. The decision to me is inconceivable -- Since the Radium days of 1914 and until now, I have worked with, studied, found and mined uranium ores. Surely within that time I should have learned how to select the most promising areas. This denial covers one of them -- I would bet my last dollar that millions will yet be taken from this condmned property and I had hoped D.M.E.A. could participate in this worthy project.

If you would review my first application you would see that I was not allowed to expend the first part of this contract in the area. I requested to explore and where the larger deposits will be found.

Because we had just encountered some rich uraninite in a tunnel on the Blue Jay claim, your geologists designated that area and to get anything, I had to acquiesce. We did find it there just as I expected - small rich deposits, however, even there, enough ore was found to guarantee return of entire cost to the government at five percent participation.

Is this rejection final? Or, is there a chance for appeal. If only 15 or 20 holes could be allowed to be properly placed around the two on the Golden West claims the big deposits would begin to shop up.

Thanking you again for further consideration, I am

Very truly,

J. W. Gramlich, Sr.

/s/ J. W. G. Sr.

700

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

DMEA
Date Rec'd. MAY 14 1956
BUREAU OF MINES
Denver, Colorado

MAY 11 1956

Mr. John W. Granlich, Jr., President
Granlich Exploration Company
Moab, Utah

Re: Docket No. DMEA-2771 (Uranium)
Contract No. Idm-1577
Brown's Hole Area
San Juan County, Utah

Dear Mr. Granlich:

Your application, dated October 12, 1955, for additional aid under the subject 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.

Based upon the results of the work performed under the exploration contract and other information available to us, further participation by the Government in exploring for uranium on your property does not appear to be justified. We regret to advise you that, under these circumstances, your application for additional exploration assistance is denied.

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

Sincerely yours,

C. O. Mittendorf

Administrator

5-14-56 Copies forwarded to Hershman Wilson Haslar

MChing/lam 5-11-56
cc to: Docket
Code 700
Mr. Ching
Admr.'s Reading File
Operating Committee
DMEA Field Team, Region III (2)

Messrs. JECrawford, Rm. 3643
TKKillingsard, Rm. 5224
JMoated, Rm. 321D, GSA

224 New Customhouse
Denver 2, Colorado

May 18, 1956

Mr. John W. Gramlich, Sr., President
Gramlich Exploration Company
Moab, Utah

Re: Docket DMEA 2771 (Uranium)
Contract Idm-2577
Gramlich Exploration Company
(Brown Hole Area)
San Juan County, Utah

Dear Mr. Gramlich:

Reference is made to the letter, dated May 11, 1956, from the Administrator, DMEA, wherein your request for additional Government assistance under the Defense Minerals Exploration Administration program was denied.

Inasmuch as all presently approved work has been completed and the Government's approval for additional work will not be forthcoming, your attention is directed to the provision under Article 5(b) of Exploration Project Contract form MF-500A (February 1952) on which Contract Idm-2577 is prepared, relative to your rendering a final engineering and geologic report pertaining to the work completed under the contract.

As we are desirous of closing this account at an early date, we will appreciate your prompt attention to the matter of rendering the original and four copies of your final engineering and geologic report, each copy complete with maps and all other pertinent data.

Very truly yours,

W. M. Traver

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

JWT:prl
cc: Chairman, Oper. Comm. (2)
Harshman
Wilson
Hasler
Townsend
Corres. file
Chron.

224 New Customhouse
Denver 2, Colorado

May 3, 1956

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Gamma-ray log interpretations - DMEA 2771 (Uranium) Contract Idm-E577, Gramlich Exploration Company (Brown's Hole area) San Juan County, Utah

Enclosed are four copies each of gamma-ray log interpretations for holes drilled on the subject property.

W. M. Traver

W. M. Traver

Enclosures

JDC:jy
cc: Corresp. E577
Harshman
Wilson
Chron.

Berk

DMEA
Date Rec'd.

APR 30 1956

BUREAU OF MINES
Denver, Colorado

Walter Gramlich
San Juan County, Utah
Private Holes

2171

GAMMA-RAY LOG INTERPRETATION

Hole No.	Depth Drilled	Depth Cased	Depth Logged From*	Depth Logged To	Anomaly Detected From*	Anomaly Detected To	Anomaly Thickness	Counts per minute	CPM Corrected for Casing	CPM Corrected for G-M Tube	Grade $\%_eU_3O_8$	Remarks
SJ-5	203.6	None	11.4	203.7	202.6	203.4	0.8	11,000			0.40	
SJ-6	235.5	None	10.7	217.2	Barren							
SJ-7	204.7	None	9.8	200.6	135.3	136.9	1.6	280			<0.005	
					138.2	138.9	0.7	280			<0.010	
					195.6	196.5	0.9	4,200			0.16	
					196.5	197.3	0.8	1,000			0.024	
					197.3	197.9	0.6	1,500			0.06	
					197.9	199.1	1.2	1,200			0.027	
					199.1	200.4	1.3	21,000			0.66	
SJ-8	203.0	None	11.6	191.6	191.0	191.6+	>0.6	>4,300			>0.24	
SJ-18	365.0	None	11.1	256.7	216.1	248.4	Salted					
					248.4	249.2	0.8	47,000			3.3	
					249.2	250.6	1.4	600			0.014	
					250.6	252.0	1.4	26,000			0.80	
SJ-22	260.6	None	12.1	261.8	248.2	249.0	0.8	3,700			0.15	
					249.0	250.8	1.8	1,200			0.025	
					250.8	251.8	1.0	4,300			0.16	
					251.8	261.8	Salted					

* From top to bottom depths

Walter Gramlich
San Juan County, Utah
Private Holes

GAMMA-RAY LOG INTERPRETATION

Hole No.	Depth Drilled	Depth Cased	Depth Logged From* To	Anomaly Detected From* To	Anomaly Thickness	Counts per minute	CPM Corrected for Casing	CPM Corrected for G-M Tube	Grade $\%_eU_3O_8$	Remarks
SJ-5	203.6	None	11.4-203.7	202.6 - 203.4	0.8	11,000			0.40	
SJ-6	235.5	None	10.7-217.2	Barren						
SJ-7	204.7	None	9.8-200.6	135.3 - 136.9	1.6	280			<0.005	
				138.2 - 138.9	0.7	280			<0.010	
				195.6 - 196.5	0.9	4,200			0.16	
				196.5 - 197.3	0.8	1,000			0.024	
				197.3 - 197.9	0.6	1,500			0.06	
				197.9 - 199.1	1.2	1,200			0.027	
				199.1 - 200.4	1.3	21,000			0.66	
SJ-8	203.0	None	11.6-191.6	191.0 - 191.6+	>0.6	>4,300			>0.24	
SJ-18	365.0	None	11.1-256.7	216.1 - 248.4	Salted					
				248.4 - 249.2	0.8	47,000			3.3	
				249.2 - 250.6	1.4	600			0.014	
				250.6 - 252.0	1.4	26,000			0.80	
SJ-22	260.6	None	12.1-261.8	248.2 - 249.0	0.8	3,700			0.15	
				249.0 - 250.8	1.8	1,200			0.025	
				250.8 - 251.8	1.0	4,300			0.16	
				251.8 - 261.8	Salted					

* From top to bottom depths

224 New Customhouse
Denver 2, Colorado

April 16, 1956

Memorandum

To: Chairman, Operating Committee, DMEA

From: DMEA Field Team, Region III

Subject: Docket DMEA 2771 (Uranium), Contract Idm-2577, Gramlich Exploration Company (Brown's Hole Area), San Juan County, Utah.

Enclosed is the following material pertaining to a request by the Operator for the Government's approval of additional work and funds under Contract Idm-2577:

1. Original and one copy of the Operator's request.

2. Original and three copies of an interim geologic report by Frank Byers, Geologist, Geological Survey, dated April 11, 1956, and transmittal thereof from J. William Hasler, Geological Survey, dated April 6, 1956.

3. Original and three copies of a memorandum from Stephen R. Wilson, Bureau of Mines, dated April 11, 1956, wherein he concurs in the recommendations contained in the report prepared by F. M. Byers.

The Operator estimates the additional work proposed will cost $363,349.00 and has indicated Government participation at 90%, or an amount of $327,014.10.

For reasons stated in the interim report, Byers recommends that the Operator's request be denied, that Contract Idm-2577 be terminated, and that a certification of discovery or development be issued.

The examining geologist, in his interim report, appears to consider the economics of the matter in stating that it is quite probable that the proposed drilling would be extremely costly in proportion to the value of the ore bodies contained in any mineralized ground that might be discovered.

A review of past operations and conditions encountered indicates to us that the probability of making a significant discovery as a result of the additional work proposed is very unlikely. In addition, procrastination by the Operator and his general lack of co-operation with DMEA personnel in administration of the contract work performed to date, lead this office to recommend that the Operator's request be denied, that the contract, I4m-8577, be terminated, and that the project be certified as a discovery or development as a result of the work performed to date.

DMEA Field Team, Region III

W. M. Traver

E. N. Harshman

Enclosures

JWT:prl
cc: Harshman
Wilson
Hasler
Townsend
Corres. file
Chron.

None
None
Berk

Pay. III
Corr. t/a

EXHIBITS

Number	
a	General Letter of Application
1	Map of General Area
2	Log of Hole No. 1, Golden West No. 5
3	Assay sheets of Hole No. 1, Golden West No. 5
4	Log of Hole No. 2, Golden West No. 5
5 (a)	Assay of Hole No. 2, Golden West No. 5
6 (b)	Assay of Hole No. 2, Golden West No. 5
7	Four Corners offer for J. W. Gramlich, Sr.'s services
8	Drilling Costs
9	Estimate Drilling Costs, Minerals Engineering Co.
10	Estimate Drilling Costs, Euvon ~~Bud~~ and Johnson Drlg Co
11	Estimate Drilling Costs, Jones Drilling Co.

EXHIBIT "A"

RE: EXPLORATION PROJECT CONTRACT

GRAMLICH EXPLORATION CO.

Moab, Utah
October 12, 1955

Docket D.M.E.A. - 2771
Idm-E577

Subject: Extension - Additional Funds for Exploration.

Developments in general area since first application:

1. Drilling on Blue Jay claim indicates ore reserves of around 12,000 tons or more.

2. Drilling on Amuranium Corporation claims 1/4 mile northerly from our Blue Goose claims reports very large tonnage drilled out and yet drilling, also presently mining and shipping.

3. Rattlesnake Mine of Continental Uranium Corp. about 2 miles southeast from our southeast boundary reports discoveries of over 120,000 tons uranium ore from drilling and are presently engaged in a huge strip mining operation.

PHYSICAL CHARACTERISTICS

The approximately 1600 acres owned by applicant in this area (of which approximately 1040 acres are embraced under D.M.E.A. 2771) are situated between above producers - are traversed by the same Big Indian fault zone - reveal the same favorable geological characteristics and with proper drilling should indicate uranium deposits of huge tonnage and of above average grades.

The surface of areas to be drilled are mostly of the upper Brushy Basin formation, with some Dakota formation faulted down on the north side of fault in the vicinity of Golden West claims

Nos. 4, 5 and 6 (drilled through 60 feet of Dakota sand in hole No. 1, Golden West No. 1. See map, Exhibit 1.)

Surface of general area is extremely rough with gullies and hills and covered largely with hard flinty chert slabs and boulders in all sizes up to many tons. This condition will prohibit road building and drilling in some local areas, and is the reason why proposed drill sites cannot definitely be pin pointed (variation should be allowed of up to 500 feet.) In some places several holes will need to be started in order to find an opening. This will prove costly and retard progress.

ORE CHANNEL TRENDS

The ore belt trend in middle or 2nd Salt Wash sand indicates from drilling and mining on Blue Jay and San Juan claims an easterly and westerly direction.

The trend on 3rd or upper Salt Wash member has not definitely been determined on this property; however, we can reasonably believe it will also be easterly-westerly since A.M. Uranium to the north has found it so and the Rattlesnake mine to the south-east also indicates easterly-westerly. However, some drilling should be done to determine if trend might be northwest and south-east.

On the extreme south end of the property (near Sunny Side claim) where all formations are exposed from Entrada to Brushy Basin, there are five distinct Salt Wash sands with shales between, and each of these sands either show ore or have yellow and green

leaching on surface which is very indicative of ore bodies somewhere back of exposures. Good tonnages have been mined from the top on third rim on the Sunnyside Claim and from the second rim or member of the Salt Wash sands on the San Juan Claim.

DRILL HOLES

In hole No. 1, Golden West No. 5 claim drilled by applicant (around which we propose to commence next drilling) (see log enclosed, Exhibit No. 2), mineralization was encountered at 359 feet and continued at intervals down to 428 feet. Parts of three lenses were assayed (see assay sheets attached, Exhibit No. 3) as follows:

Sample	c/o U_3O_8	c/o V_2O_5
No. 1 - 360' to 362½' hard sandy black shale	.017	.04
No. 2 - 388' to 390½' sandy black shale and carbon	.038	.06
No. 3 - 423.6' to 424.6' sandy G.S. with carbon layers	.025	.03

Below this to bottom of hole, 531 feet, the formation is poor to semi-favorable. The formation is in the third member of the Salt Wash, depth of 359-428 feet.

Gamma Log was run on this hole by A.E.C. Unit No. 976 from Dry Valley, on November 2, 1953 (see your records.) (Note this log information was denied to D.M.E.A. applicant.)

In Hole No. 2 (see Exhibit No. 4 log) Golden West No. 5 claim (drilled by applicant), extremely favorable mineralization was also encountered in what we believe to be the 2nd or middle Salt Wash member.

The upper, or 3rd, Salt Wash member in this hole was encountered at 315.5 feet and continued through 418.5 feet - having an unusual thickness of 104 feet but of only semi-favorable appearance. In this respect this hole is very significant because of the channel or bar character of the sand deposition; in this district the ore bodies proven in this rim are in environments where thick sands have thinned. Therefore between this thickness and where it thins down, there should be ore.

Apparently there was but 4 feet of red shale between top and middle sands, at 423.5 feet.

Immediately under the red shale, mineralization commenced and continued to 445 feet. One foot, 428.7 to 429.7, assayed .016 U_3O_8 and 0.58 V_2O_5 (see Exhibit No. 5.) 7 foot core assayed.

An assay (Exhibit No. 6) was run on core 423.5 to 430.5 feet. Results: U_3O_8 .012, V_2O_5 .22. 7 ft. core assayed.

An assay (Exhibit No. 6) was run on core 430.5 to 437.5 feet. Results: U_3O_8 .005, V_2O_5 .01. 7 ft. core assayed.

This mineralization or vein matter was identical to that encountered in Blue Jay drilling where sometimes it was within a few feet from commercial ore.

DRILLING PATTERN

Valuable geological information and depth data should be obtained by drilling Hole No. 15 (Golden West No. 1) and Holes Nos 13 (Canary No.3) and 38 (Golden West No. 3) (see map, Exhibit 1.) These holes being back of known producing out-crops have good potential as well as giving displacement at two places on Big Indian or Lisbon fault. (Fault displacement unknown to date)

Next, due to the very favorable mineralization of above described Golden West No. 5 holes Nos. 1-2, it is proposed to drill four offset holes at distances of from 200 feet to 600 feet around each of above two original holes. Then a fence pattern holes No. 9-10-11-12-14-17 should be drilled to penetrate probable channel between outcrop on Pinetree Claim and mineralization on the Golden West No. 5 Claim. (See cost sheet, Stage 1A, Exhibit 8.)

Should any or all of above 17 holes encounter or indicate ore, then additional offset holes on approximately 100 foot centers should be drilled. It may be necessary in locating trends or where terrain dictates, to make a few 50 foot centers optional. (See cost sheet, Stage 1B, Exhibit 8.)

Should it be found inadvisable, from results of above first 17 holes, to drill offsets (above paragraph), then exploratory holes Nos. 17 to 37 should be drilled, including same offset provision as above (see stage II, exhibit 8.)

Two holes of the 17 above should be drilled through bottom member of Salt Wash, also at least every fifth hole of the Nos. 17 to 36 exploratory holes should be drilled to this depth, especially as drilling progresses in a southerly direction.

In the event offset holes in Stage IB and Stage II are completed, then Stage III offsets are to be completed.

As drilling progresses, revealing new data which would indicate a change of hole location in any phase, then U.S.G.S. field man in cooperation with applicant should have pre-vested authority to make such changes, without the customary time consuming, customary formality of filing an amendment and awaiting an approval.

ESTIMATED COSTS

(a) To penetrate through the two principle producing sands (middle and 3rd Salt Wash) will require an average depth of approximately 450 feet. However, the occasional holes to test bottom Salt Wash rim may run as deep as 550 to 600 feet.

(b) From Exhibit 8 (sample estimate) you will observe that costs for roads, drill sites, sample analysis, core boxes, engineering, supervision, etc. will run at approximately $.66 per foot.

Bid estimates from: Minerals Engineering Co., Johnson and Youvon Drilling Co., and Jones Drilling Co. (see Exhibit Nos. 9-10-11) would indicate a drilling cost of from $6.00 to $8.00 per foot. However, we believe that by using our own drill rigs and crews, we could do the drilling for $6.00 per foot. This in addition to the $.66 per foot (paragraph (b)) would give an overall price per foot of $6.66.

This rate would be offered in anticipation of plug drilling all shales and include coring and boxing of sands. (No sludge possible.)

SUMMARY OF COSTS

All costs drilling Stage I	$ 49,996.00
All costs drilling Stage I(a)	190,476.00
All costs drilling Stage II	62,937.00
All costs drilling Stage III	59,940.00
Total cost:	$363,349.00
Operator participating 10% =	- 36,334.90
Government participating 90% =	$327,014.10

By far the simplest, most satisfactory and practical manner to execute this contract would be to not have stages or phases - but to allow a maximum amount at a given rate per foot, drilling pattern to take shape and continued as indications, ore, topography, weather and general conditions dictate as drilling progresses.

Contract time required will probably be about three years.

Applicant does not favor drilling to prove or disprove geologic theories. The object is to find ore as economically and with as few holes as possible.

We anticipate, from the results of this drilling, to locate large ore bodies, mine them and repay every cent of the Government participation.

Thank you.

GRAMLICH EXPLORATION CO.

By: J. W. Gramlich Sr.

J. W. Gramlich, Sr., Owner

EXHIBIT NO. 2

D.M.E.A. 2771 Idm E577

Log of Drill Hole No. 1, Golden West No. 5 Claim

Feet	
.0 to 5	- Top soil
5 to 65	- Dakota sand
65 to 305	- Brushy Basin (red and blue shale hard ribs.) Plug drilled.
	Cored here to bottom.
305 to 314	- Brushy Basin, blue clay and purple clay (Blue predominating)
314 to 325	- Soft coarse G.S.
325 to 328	- Blk sandy shale, hard
328 to 335	- Fine grained G. sand with dark layers and seams
335 to 345	- Red and green mottled shale
345 to 348	- Red shale
348 to 356	- Fine grained G.S. with B.G. and R.G. seams
356 to 357	- Sandy B.G. with pink tint
357 to 359	- Hard G.S.
	Third Salt Wash possibly begins here
359 to 367	- Sandy hard blk shale, some count, mineralization V .04 U .017 (see assay, Exhibit No. 3)
367 to 375	- G.S., fine grained with dark B.G. seams
375 to 387	- R. shale with G.C. spots
	Definitely 3rd Salt Wash below
387 to 392	- Black sandy shale and carbon, some count (V .06%, U .038%. See assay, Exhibit 3)
392 to 398	- G.S. white bleached, fine grained.
398 to 400	- G.S., white bleached with carbon seams
400 to 413	- G.S., white bleached
413 to 421	- G.S. with B.G. and blk G. nodules (roll action)
421 to 424.6	- G.S. smoky tint with carbon seams, some count (V .034 U .025%. See Exhibit 3.)
424.6 to 425.5	- G.S., rusty tint.
425.5 to 427.0	- G.S., smoky tint.
427.0 to 428.0	- G.S.
	Bottom 3rd Salt Wash
428.0 to 481.0	- R. shale, blk shale with hard ribs
481.0 to 485.0	- Sandy R.G.
485.0 to 495.0	- G.S. fine grained, soft (probably 2nd or middle Salt Wash)
495.0 to 551.0	- Red shale, green shale, hard ribs
	Bottom of hole.

Smith's Laboratory

CHEMIST AND ASSAYER

MOAB, UTAH

Exhibit No 3

Gramlich Exploration
Moab
Utah

Oct. 18, 1955

Sample Description	% U_3O_8	% V_2O_5	%	%	%	%			
G. W. 5 claim									
Hole #1 360-362½	0.017	0.04							
388-390½	0.038	0.04							
423.6-424.6	0.025	0.03							

TOTAL CHARGES $ _____

J. Earl Smith
CHEMIST

EXHIBIT NO. 4

D.M.E.A. 2771 Idm E577

Log Drill Hole No. 2, Golden West No. 5 Claim

Feet		
.0 to 252.5	- Brushy Basin (Red and blue shale - hard ribs) 4th Salt Wash sand begins.	
Cored;		
252.5 to 262.0	- Fine grained G.S. with some B.C. seams.	
265.5 to 270.0	- Coarse G.S., large limonite spots (lower half.) 4th Salt Wash sand ends.	
270.0 to 314.5	- Alternate red and blue shale. 3rd Salt Wash sand begins.	
314.5 to 418.5	- G.S., some B.C. seams, horizontal stratification. 104' thickness, only semi-favorable. 3rd Salt Wash sand ends.	
418.5 to 423.5	- Red shale 2nd or middle Salt Wash begins.	
423.5 to 425.5	- Vein matter, possible LGV, slight count carbon)	
425.5 to 428.7	- Blk sandy shale, much carbon, angle stratas)	Assay
428.7 to 429.7	- Smoky sand L.G.V. (assay V_2O_5 .58%, U_3O_8 .016%))	Exhibit 6
429.7 to 430.5	- Smoky sands L.G.V. (Exhibit No. 5)	
430.5 to 436.0	- Favorable G.S. and sandy blk clay, carbon.	
436.0 to 440.0	- Red clay, blk clay, angle stratas	
440.0 to 445.0	- Smoky sand, B.C. seams, angle stratas	
445.5 to 449.0	- Red clay seams with smoky sand between 2nd or middle Salt Wash sand ends.	
449.0 to 455.0	- Red shale. 1st or bottom Salt Wash begins?	
455.0 to 461.0	- Pink sand	
461.0 to 465.0	- Red clay	
465.0 to 484.5	- G.S., pink tint	
484.5 to 490.5	- Sandy R.C. and B.C.	
490.5 to 492.5	- Variegated cross angle, G.S. purple tint	
492.5 to 493.0	- Blue clay	
493.0 to 503.6	- Hard ribs in red shale Bottom of hole.	

Smith's Laboratory

CHEMIST AND ASSAYER

MOAB, UTAH

Exhibit No 5

Gramlick Exploration

May 31, 1955

Sample Description	% U_3O_8	% V_2O_5	%	%	%	%			
Golden West #5									
Hole #2									
Core 428.7' to 429.7'	0.016	0.58							

TOTAL CHARGES $ 4.00

J. Earl Smith
CHEMIST

Smith's Laboratory

CHEMIST AND ASSAYER

MOAB, UTAH

Granlich Exploration

Exhibit No 6

June 4, 1955

Sample Description	% U_3O_8	% V_2O_5	%	%	%	%			
Golden Wheel #5 claim Hole #2									
core 423.5' to 430.5'	0.012	0.22		seven feet core					
430.5' to 437.5'	0.005	0.01		" " " "					

TOTAL CHARGES $ 8.00

J. Earl Smith
CHEMIST

Exhibit No 7.

FOUR CORNERS URANIUM CORPORATION

U.S. NATIONAL BANK BUILDING
PHONE 5-3287
DENVER 2, COLORADO

December 7, 1954

Mr. J. U. Gramlich, Sr.
Moab, Utah

Dear Mr. Gramlich:

The management of Four Corners Uranium Corporation has been discussing for some time the growing need for additional experienced help in securing and evaluating new acquisitions.

Your many years of successful experience and operation in the many phases of uranium production makes your services very desirable, especially in directing our various drilling programs and the determining of most favorable areas to drill.

From your success in finding ore we believe you could, perhaps, save us thousands of feet of exploratory drilling.

It is my considered opinion that your services would be of such value to us that I would like to arrange with you to do this specialized work for the company on the basis of $100.00 per diem, plus traveling expenses to points designated by Four Corners Uranium Corporation.

If you feel that the terms are satisfactory and you have time available, I would appreciate hearing from you setting forth your view in this matter.

Very truly yours,

E. H. Sanders, President

EHS:mc

EXHIBIT NO. 8

D.M.E.A. 2771

Idm E577
Application
Extension

Estimated Costs and Plan

STAGE I (see Map Exhibit 1)

Drill holes Nos. 1 to 15 including No. 38 = 16 holes.
2 holes to test all members of Salt Wash 2 X 600 feet = 1,200 feet.
14 holes thru middle or 2nd Salt Wash 14 X 450 feet = 6,300 feet.
Total footage: 7,500 feet.

7,500 feet @$6.00 per foot:	$45,000.00
Roads and drill sites Dozer 110 hrs. @ $12.00 (price here)	1,320.00
Sample analysis 2 per hole 32 X 2	96.00
Core boxes 5 per hole or 80 X $1.00	80.00
Engineering, Surveying, Maps, etc.	2,000.00
Supervision foreman and pickup	1,500.00
	$49,996.00

Overall cost $49,996.00 ÷ 7,500 ft. = $6.66/ft.

STAGE I(b)

Approximately 4 offset holes around each of above = 4X16 = 64 holes
64 holes X average depth 450 ft. = 28,600 ft.
28,600 ft. X $6.66 per ft. = $190,476.00

STAGE II

Drill balance exploratory holes Nos. 16 to 37 = 21 holes
21 holes X 450 ft. average depth = 9,450 ft.
9,450 ft. X $6.66 per ft. = $62,937.00

STAGE III

Drill 20 offset holes around most favorable of holes Stage 2
20 X 450 average depth = 9,000 ft.

9,000 X $6.66 per ft. =	$59,940.00	Stage 3
	49,996.00	Stage 1
	190,476.00	Stage 1(b)
	62,937.00	Stage 2
TOTAL APPLIED FOR:	$363,349.00	

Exhibit No 9

MINERALS ENGINEERING COMPANY

TUNGSTEN HILL AND MINES
ELEN, MONTANA
REFINERY
SALT LAKE CITY

ENGINEERING AND PRODUCTION OF MINERALS AND METALS
URANIUM DRILLING AND ELECTRONICS

TELEPHONE 430 801 4TH AVENUE P. O. Box 957
Grand Junction, Colorado

4/15/55

To Whom It May Concern:

Upon examination of Gramlich - Brown's Hole Property with reference to Non - Coring and Core Drilling costs. I find the formation one of the most difficult on the Plateau area to get holes down to the desired depth.

Quartsite slabs and boulders are expensive to penetrate for two reasons. They wear any type of bit very rapidly and they tend to make the hole crooked which in turn makes it very difficult to insert casing. It is normal figuring to have about 25 % loss on casing recovery in this formation.

Basing my opinion on facts already encountered on the Rattlesnake Property which formation is identical to the above mentioned area. I would recommend an average of $ 6.00 per foot cost on drilling from the top of the ground to the bottom of the coring depth.

This would definately not include drill sites, roads, engineering, etc, necessary to complete the job.

MINERALS ENGINEERING COMPANY

By [illegible]
Field Drilling Supt.

We're Building a Company . . .
ME Co.
. . . and We're in a Hurry

Exhibit No 10

Moab, Utah
April 26, 1955

Gramlich Exploration Co.
Moab, Utah

Dear Sirs:

As per your request for an estimate on core drilling your property in Sections 27, 28, 33 and 34 in Township 28 S., Range 23 East., I give you the following:

On previous drilling in almost the same formation and conditions, we have encountered extreme difficulty in drilling thru the top bed of loose quartsite slabs, and boulders. Several methods were tried to penetrate these beds, and I believe that by using a roller bit to smooth these boulders so that they can be drilled with diamond bits is the most practical. However, this requires running several strings of casing, changing drill bits and extreme wear on diamond bits.

After penetrating the upper bed of loose quartsite slabs and boulders and reaching solid formation, drilling can then proceed in a normal manner.

Due to the uncertainty of the depth and condition of the top 200 to 300 feet, extreme wear on diamond bits, high loss of casing, I would recommend a price of $6.75 per foot for drilling depths up to 600 feet.

JOHNSON & YOUVON DRILLING CO.

Jack Youvon

Jack Youvon, Partner

PLANT ADDRESS:
6006 INDUSTRIAL BLVD.

MAILING ADDRESS:
P. O. BOX 5332

TELEPHONE:
HARWOOD 2806

Exhibit No 11

JONES Core Drilling COMPANY

DIAMOND DRILLING AND PRESSURE GROUTING

CONTRACTORS

DALLAS 2, TEXAS

July 17, 1955

Granlich Exploration Co.
Moab, Utah

Dear Sirs,

In reply to your request for an estimate on drilling in sections 27, 28, 33 & 34 in Township 28 S., Range 23 East., We give the following as an estimate only;

Due to the bad surface conditionssuch as hard boulders, faulting and loss of drilling fluid the cost would be high. The casing loss would be thirty to thirty five percent.

Ordinarily coring is much higher than the non-coring portion of a hole but in this area I would estimate the non-coring at the same price as the coring.

I would estimate the following prices;

0 to 200	non-coring	$ 5.50 per ft.	Core drilling	$ 6.00 per ft.
200 to 400	Non-coring	$ 6.50 per ft.	Core drilling	$ 7.00 per ft.
400 to 600	Non-coring	$ 7.00 per ft.	Core drilling	$ 8.00 per ft.
Stand-by time at the request of the owner				$ 12.50 per hr.
Casing left in the hole at the request of the owner				$ 1.75 per ft.

Jones Core Drilling Co. Inc.

By Glen Martin
Glen Martin Drlg. Supt.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

DMEA
Date Rec'd.

APR 13 1956

BUREAU OF MINES
Denver, Colorado

April 11, 1956

Memorandum

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

From: Stephen R. Wilson

Subject: Docket No. DMEA-2771 (Uranium), Contract Idm-E577, Gramlich Exploration Co., San Juan County, Utah

Reference is made to your memoranda of November 28, 1955, and March 16, 1956, relative to a request by the subject operator for additional DMEA funds. A copy of the operator's letter, dated October 12, 1955, was attached to your memorandum of November 28, 1955.

A report prepared by F. M. Byers, Geological Survey, has been transmitted to E. N. Harshman in Denver. The report recommends denial of the operator's request for additional funds. I am in accord with the recommendations contained in the report.

The operator's request letter, with attached exhibits, is herewith enclosed.

Stephen R. Wilson
Stephen R. Wilson

Enclosure

cc: J. B. Clemmer

MINERAL DEPOSITS
IN REPLY REFER TO:
RECEIVED
APR 10 1956
U.S.
GEOLOGICAL SURVEY
DENVER, COLORADO

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

P. O. Box 360
Grand Junction, Colorado

April 6, 1956

Memorandum

DMEA
Date Rec'd.
APR 12 1956
BUREAU OF MINES
Denver, Colorado

To: Executive Officer, DMEA Field Team, Region III

Through: E. N. Harshman

From: J. William Hasler

Subject: Transmittal of interim report reviewing work completed under DMEA contract Idm-E 577, DMEA docket 2771 (Uranium), Gramlich Exploration Company, Brown's Hole area, San Juan County, Utah, with recommendations concerning request for additional funds to further test the area.

The Gramlich Exploration Company originally applied to the Defense Minerals Exploration Administration to explore for uranium on the Blue Jay, Pine Tree, Sunnyside, and San Juan claims in the Brown's Hole area, San Juan County, Utah. The application was referred to the field and the application was approved following several field examinations. The work was completed by the applicant in June, 1955, during which time some ore was discovered, and it is, therefore, recommended that a certification of discovery be made.

The Gramlich Exploration Company has recently applied for an amendment or an extension to contract Idm-E 577, DMEA docket 2771, to provide for a drilling program costing about $363,000.

The ore deposits in the Brown's Hole area are found in characteristic pods and rolls common to the uranium-vanadium ore deposits occurring in the Salt Wash member of the Morrison formation of Jurassic age. The deposits in the applicant's property are spotty, although they are in places high grade. Exploration for deposits of this kind is difficult, in that there are no specific trends of channels or rolls to guide the exploration, which makes successful exploration projects unduly expensive.

In the opinion of the examining field team, the small size of the known deposits on the applicant's property indicates that they are not likely to be sufficiently large enough to provide a reasonable target for drilling which will average 450 feet in depth, as will be required in this case. The minimum size target of mineralized ground would probably

not exceed deposits larger than 100 feet in width nor 600 feet in length; ore targets would be even smaller. Because of the small drilling target that would be expected and the deep drilling required, it is quite probable that drilling in the central portion of the applicant's area would be extremely costly in proportion to the value of ore bodies contained in any mineralized ground that might be discovered.

During the administration of contract Idm-E 577, relations with Mr. Gramlich became quite untenable, as he regards himself as being a competent geologist and capable of supervising a drill contract, thus making suggestions and advice by competent Geological Survey geologists very difficult. Mr. Gramlich has been a successful operator, in that he has been involved in several ventures which have produced ore and also promotional activities which have net him considerable profits. His ability to find and discover ore has largely been a matter of good fortune in our estimation, rather than through geological knowledge of the area.

Because of the small drilling target that would be expected and the deep drilling required, and the complications that would be involved in executing a contract with Mr. Gramlich, the applicant, it is recommended that the request of the Gramlich Exploration Company for further exploration assistance under contract Idm-E 577 be denied. If a contract should be approved, it should be emphasized that any future contracts with the operator should provide for the retention of a competent geologist or mining engineer to supervise the work at all times.

It is further recommended that DMEA contract Idm-E 577 be terminated and that a certification of discovery be made.

J. William Hasler

J. William Hasler,
Geologist

JWH/mlr

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA 2771

Brown's Hole Area

Grenlich Exploration Company

San Juan County, Utah

Uranium

Interim Geologic Report

by

Frank Byers
Geologist
Geological Survey

April 11, 1956

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2. Claim map of Gremlich Exploration Company Lease, showing proposed Stage I drill hole locations under amendment to contract Idm-5577, Brown's hole area, San Juan County, Utah. DMEA 2771	13

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INTRODUCTION, SUMMARY AND RECOMMENDATIONS

Gramlich Exploration Company (earlier called Gramlich Minerals, Inc., in original application and in contract Idm-E 577) has applied for an amendment to their DMEA contract, Idm-E 577, setting up an exploration program requiring an additional $363,349 for deep drilling, to test the Salt Wash member of the Jurassic Morrison formation beneath their Brown's Hole lease. The applicant has requested a DMEA allotment of $327,014.10 under the assumption that the Government would participate at 90 percent of the total cost. Thirty-eight drill holes, more or less randomly distributed on the property, would constitute the first stage.

The Brown's Hole lease of Gramlich Exploration Company (fig. 1) is reached by U. S. Highway 160, twenty-four miles south of Moab, Utah; thence easterly for two miles on a gravel road that leaves the main highway one mile north of La Sal Junction.

The Brown's Hole lease of Gramlich Exploration Company consists of 91 claims, covering most of the mesa south of Brown's Hole. This mesa is about two miles across and exposes most of the Salt Wash and Brushy Basin members of the Jurassic Morrison formation and the capping Burro Canyon sandstone. The Blue Jay, Pine Tree, Sunnyside, and San Juan claims each have produced up to about 700 tons of uranium ore during 1948 to 1955 from small ore pods and mineralized logs in lenses of Salt Wash sandstone member, which is exposed on three sides of the mesa. The Junction and Junction No. 3 claims of the Old Texas Mining Company on the south side of the mesa have had a production of 260 tons of ore during 1955, but have almost exhausted their reserve. Indicated reserves on the Blue Jay claim, as a

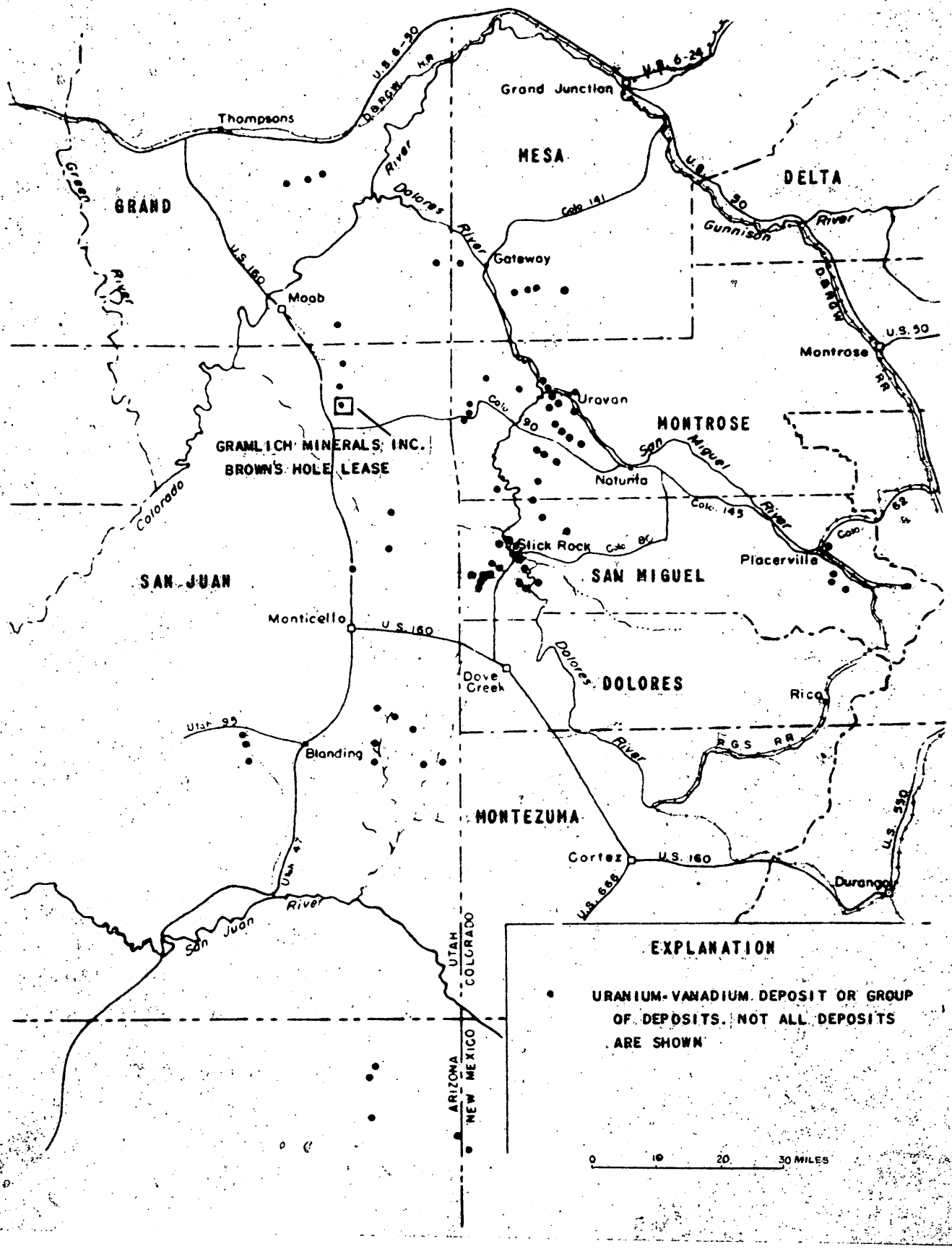


FIGURE 1. INDEX MAP SHOWING APPROXIMATE LOCATION OF THE GRAMLICH EXPLORATION COMPANY LEASE, BROWN'S HOLE AREA, SAN JUAN COUNTY, UTAH.

result of the DMEA drilling under contract Idm E-577, consists of about 700 tons of ore or approximately equal to the past production. A similar indicated reserve occurs on the San Juan claim.

The 38 stage I drill holes proposed by the applicant are in the central part of the mesa (fig. 2), where most of the holes would be collared high in the Brushy Basin member; one hole would even be collared in the Burro Canyon formation. These holes would average 450 feet in depth. Two holes already drilled on the Golden West No. 5 claim were 551 and 503 feet deep, respectively; these holes penetrated one foot of very weakly mineralized sandstone. Another hole recently drilled by Gramlich near the northwest corner of Grand View No. 4 claim is reported to have penetrated one inch of vanadiferous sandstone. It is possible that scattered, small areas underlain by mineralized ground, as much as 125 by 600 feet might exist beneath the central part of the mesa; however, the total ore reserve within such a mineralized deposit would probably be less than 1,500 tons. It is concluded that the cost of finding such deposits under the mesa by any exploration program would be excessive and would constitute prospecting rather than exploration.

In conclusion, it should be pointed out that Mr. Gramlich has, at times, during the administration of contract Idm-E 577 been rather obstinate and has refused to follow the suggestions of the inspection team. If any DMEA contract is ever again let to Gramlich, it should contain a provision for hiring a professional geologist-engineer for supervision of the work.

Because of the adverse ratio of exploration cost to value of possible undiscovered ore, it is recommended that the request for additional DMEA funds under contract Idm-E 577, docket 2771, be denied. It is further recommended that the contract be terminated and that a certification of discovery be made.

GEOLOGY

The Salt Wash member of the Jurassic Morrison formation, which contains the ore deposits in the Brown's Hole area, is about 350 feet thick. The Salt Wash rests on the Jurassic Summerville formation, which is thin and poorly exposed. The overlying Brushy Basin member of the Jurassic Morrison formation consists mainly of thin-bedded mudstone and sandstone and is estimated to be about 400 feet thick. About 60 feet of hard quartzitic Burro Canyon sandstone of lower Cretaceous age cap the mesa and rests on the Brushy Basin member. Large blocks of this hard sandstone, which are largely residual remnants of the Burro Canyon, have become buried in the weathered mudstone mantle of the Brushy Basin member. These hard sandstone blocks often cause considerable difficulty in drilling.

The sedimentary sequence from about the middle of the Salt Wash member through the top of the Burro Canyon sandstone is exposed at irregular intervals on three sides of the mesa where the Gramlich-held claims have been staked south of Brown's Hole (fig. 2). The beds dip about 3 degrees northeasterly. The Lisbon Valley fault strikes northwest

across the Gramlich-held claims (fig. 2) and the displacement decreases from about 200 feet at the southeastern part of the property to about 100 feet in the northwestern part of the property just south of the Blue Jay claims. The dip on the fault is steeply northeast.

ORE DEPOSITS

Several uranium-vanadium deposits are known around the rim of the mesa south of Brown's Hole (fig. 2) and most of these are held by Gramlich Exploration Company. The deposit on the Blue Jay claim is probably the largest as determined by the DMEA drilling program under contract Idm-E 577, docket 2771. Although DMEA contract Idm-E 577 contained a special provision for alternative drilling on the Pine Tree and Sunnyside claims as stage 4 in the event there was no stage 3, the total footage was practically exhausted on the Blue Jay and adjacent claims in the first three stages. The deposits around the Salt Wash rim and the results of Gramlich drilling in the interior of the mesa are described below.

Blue Jay and adjacent claims

The middle and upper part of the Salt Wash member is exposed on the Blue Jay claim. Inasmuch as the sandstone beds are lenticular, it is probably misleading to refer to them such as "second" or "third" sandstone. The number of Salt Wash sandstone lenses may vary from 3 to 6 within a claim length. The ore-bearing sandstone lens on the Blue Jay claim will be informally called the "Blue Jay" sandstone and the uppermost sandstone will be called the "top" sandstone, although it is realized that

the "top" sandstone at the Blue Jay claim may not be the top sandstone at another nearby claim. However, the "top" sandstone bed appears in general to be thicker and more extensive than any sandstone unit below and is probably the ore-bearing sandstone two miles to the southeast in the area of Continental Uranium's Rattlesnake pit. Between the "Blue Jay" sandstone and the "top" sandstone is a discontinuous sandstone with many mudstone splits. This sandstone is not known to be mineralized and cannot even be recognized in some of the holes drilled under DMEA contract Idm-E 577.

The Blue Jay deposit (fig. 2) is in a sandstone lens known locally as the "Blue Jay" sandstone, which ranges from less than 10 feet to about 25 feet in thickness. At the outcrop in the vicinity of the Blue Jay mine portals (fig. ~~3~~ 2), the thicker part of the "Blue Jay" sandstone lens is about 200 feet wide. The mineralized portion of the "Blue Jay" sandstone is about 125 feet wide and does not extend beyond the thicker part of the lens. Grayish-green claystone at the base of the "Blue Jay" sandstone thickens beneath the mineralized sandstone but "does not extend far beyond its edge" (Gordon W. Weir, memorandum report dated September 30, 1953). The trend of the "Blue Jay" sandstone lens, as demonstrated by the recent DMEA drilling program (fig. 2), is east; the mineralized sandstone within the lens extends about 650 feet easterly from the portal into the mesa (fig. 2). Two smaller mineralized areas, each inferred

from two drill holes, occur at about 700 feet and 1,300 feet, respectively, east of the outcrop. In the easternmost part of the DMEA-drilled area, the "Blue Jay" sandstone thins and is unfavorable.

Pine Tree deposits

The Pine Tree (fig. 2) deposits occur in the "first" and "second" sandstone beds below the top of the Salt Wash member. The larger deposits are found in the "second" sandstone bed, which is about 20 feet thick at the mine. This sandstone may thin laterally from the mine, but exposures are poor and relations are not clear. Exposures at the outcrop and in the mine workings suggest that areas of mineralized ground are less than 100 feet in diameter; ore bodies are probably less than 60 feet in diameter and are from 1 to 4 feet thick.

The main mine workings, which are in the "second" sandstone, are located about 200 feet west of the Lisbon Valley fault, which in this area probably has a throw of no more than 150 feet. No deposits have been found along the fault and the increased depth required for drilling the downthrown (northeastern) side of the fault has discouraged exploration.

The deposit in the "first" or "top" sandstone, according to Union Mines Development Corporation map (Wardwell, 1946, fig. 10), is near the pinchout of a lens about 15 feet thick. The area of mineralized ground is about 100 feet wide; the length is unknown. Mine workings and jackhammer drilling behind the rim (W. C. Gramlich, personal communication) suggests that this deposit contains little material of ore grade and thickness.

Sunnyside deposit

The Sunnyside (fig. 2) deposit occurs in a "first" and a "second" sandstone bed below the top of the Salt Wash member. The larger deposits are found in the "first" or "top" sandstone bed, which is about 25 feet thick at the mine. The width of the thicker part of this thick sandstone is more than 200 feet. Exposures on the outcrop and in the mine workings suggest that the width of the areas of mineralized ground may be about 100 feet; ore bodies are probably less than 50 feet in diameter and are from 1 to 4 feet thick. The length and trend of the thick sandstone is not known. Exposures on the outcrop and in the mine workings suggest that the deposit may have an easterly or southeasterly trend.

Development work done in 1952 exposed a deposit in the second sandstone bed. The mineralized ground appears to be about 75 feet wide and contains some material of ore grade and thickness.

There has been no production from this claim since 1948 and the mine is currently inactive. Production from this claim prior to 1948 is estimated to be on the order of 400 tons of low- and medium-grade ore.

San Juan deposit

The exposed ore deposit on the San Juan claim (fig. 2) was entirely removed from a large open pit during 1953 and 1954. About 650 tons of uranium ore containing 0.33 percent of U_3O_8 (see production and ore reserves, table 1) was produced from a mineralized zone near the base of a sandstone lens at about the same stratigraphic position as the "Blue Jay" sandstone. The maximum thickness of this sandstone lens is about 40 feet. The greenish-gray mudstone at the base of this ore-bearing

sandstone lens grades into red mudstone within 10 feet beyond the edge of the mineralized zone.

The Gramlich Exploration Company was drilling on the San Juan and Grand View claims at the time of the DMEA examination on January 11, 1956. This activity was 200 to 300 feet east of the large open pit from which the ore in the San Juan ore body was removed. At the east side line of the San Juan claim (fig. 2) and about 250 feet east of the open pit, a fence of six drill holes, 35 feet apart, had been drilled. Three consecutive holes were ore-bearing, according to Mr. J. W. Gramlich, Sr. Holes drilled along a fence 50 feet nearer the pit were barren. The next fence drilled 50 feet east of the San Juan side line also contained two ore-bearing holes, according to Mr. Gramlich (oral communication, March 1, 1956). These ore-bearing holes are approximately located on figure 2.

Old Texas Mining Company

The Old Texas Mining Company, just south of the Gramlich holdings, has driven a tunnel northerly on the Junction 3 claim. This adit was about 200 feet in length and had a few short crosscuts. Near the face of the adit, the back was about 15 feet high, owing to the fact that the ore zone had dropped into the floor and was subsequently recovered. The face was barren, and the ore zone had essentially pinched out. Other mineralized exposures are widely scattered along the walls of the aidt. The deposit appears to have been essentially mined out. About 260 tons have been produced to date (see table 1).

Drill holes in the interior of the mesa

Two deep holes were drilled on the Golden West No. 5 claim by the Gramlich Exploration Company some time prior to the DMEA contract Idm-E 577. Logs of these holes were submitted by Mr. Gramlich and assays were made on portions of the drill core showing anomalous radioactivity. Portions of the cores were examined in the field by the DMEA examining geologist. Drill hole No. 1 was also logged by Gordon W. Weir, geologist, U. S. Geological Survey. Two or three Salt Wash sandstones were penetrated in each of the drill holes; all sandstones were semifavorable or unfavorable in drill hole 1. Two weakly mineralized zones of about a foot are reported by Gramlich to contain 0.017 and 0.038 percent of U_3O_8, respectively. Hole number 2 penetrated unfavorable to semifavorable sandstones and a mineralized zone of one foot that assayed 0.016 percent of U_3O_8, a barren zone by U. S. Geological Survey rating. The mineralized zones in both holes were not in the most favorable sandstones, but were actually in thin Salt Wash sandstones, less than 10 feet thick, which can not be correlated with any exposed on the rim of the mesa. A drill hole close to the northwest corner of Grand View No. 4 was reported by Mr. Gramlich to have penetrated one inch of dark vanadiferous (non-radioactive) sandstone.

PRODUCTION AND ORE RESERVES

The production from the Gramlich Brown's Hole property and from Old Texas Mining Company property, just south of the Gramlich properties, is given in table 1. The 100 tons of high-grade ore produced in 1955 from the Blue Jay claim was the direct result of the DMEA drilling under contract Idm-E 577.

The DMEA drilling under contract Idm-E 577, on the Blue Jay claim, resulted in delineating about as much mineralized ground as now (January 11, 1956) approximately explored by existing workings. Up to January 11, 1955, 706.5 tons of ore, containing 0.46 percent of U_3O_8 and 1.44 percent V_2O_5 had been produced from these workings. Hence, it is reasonable to expect that a similar production from the remaining mineralized ground equal to an indicated reserve of about 700 tons containing 0.45 percent U_3O_8 and 1.45 percent V_2O_5. These reserves are computed in this manner because of the irregular and unpredictable distribution of the small pods of ore and "logs" within the mineralized ground. The best geologic guess that may be made as inferred reserves, is that the inferred ore reserves are possibly equal to the indicated reserves.

Reserves on the San Juan claim as indicated by the recent drilling of Gramlich Exploration Company, are probably equal in tonnage and grade to the ore body already mined out; namely, 650 tons containing 0.33 percent U_3O_8 and 1.80 percent V_2O_5.

A very small reserve of possibly a few hundred tons may exist on the Pine Tree and Sunnyside claims. No reserve can be indicated on the Junction No. 3 claim on the basis of recent development work by the Old Texas Mining Company.

Table 1.--Ore production from Gramlich Exploration Company (Gr) claims and Old Texas Mining Company (OT) claims, AEC records, Grand Junction, Colo.

Claim	Date	Tons	$\%U_3O_8$	$\%V_2O_5$
Blue Jay (Gr)	1950-1952	170.9	0.32	1.47
	1953	270.8	0.46	1.29
	1954	165.1	0.51	1.26
	1st Q '55	43.6	0.33	1.71
	2nd Q '55	47.1	0.86	2.40
	3rd Q '55	9.0	0.45	2.39
	(4th Q	None)		
Total, Blue Jay	1955	99.7	0.59	2.10
Total, Blue Jay	1950- 55	706.5	0.46	1.44
Pine Tree (Gr)	1948-1953	66.6	0.20	1.98
	1st Q '54	10.0	0.16	1.33
	2nd Q '54	22.0	0.13	1.69
Total Pine Tree		98.6		
San Juan (Gr)	1953-1954	650.5	0.33	1.80
Sunnyside (Gr)	1951	22	0.27	1.73
Junction (OT)	1955	9.7	0.26	0.97
Junction No. 3 (OT)	2nd Q 1955	11.0	0.28	1.04
Junction No. 3 (OT)	3rd Q 1955	85.0	0.19	0.87
Junction No. 3 (OT)	4th Q 1955	155.0	0.24	1.22
Total)OT)	1955	260.7	0.23	1.09
Total production		1,738.3	0.36	1.55

Royalty

Contract dated August 6, 1953

Royalty due from April 12, 1954 See Amendment No. 3.

for period of 11 years from August 6, 1953. See Amendment No. 3.

CONCLUSIONS AND RECOMMENDATIONS

The Gramlich Exploration Company has applied for an amendment or extension to contract Idm-E 577, docket 2771, to provide for a drilling program, costing $363,014.10, with Government participation at $327,014.10 or 90 percent of the total. Thirty-eight holes, averaging 450 feet in depth would constitute the first stage (see fig. 2). Stages II and III are also proposed, but the applicant is somewhat vague in his proposal as to how many holes are to be drilled under stages II and III.

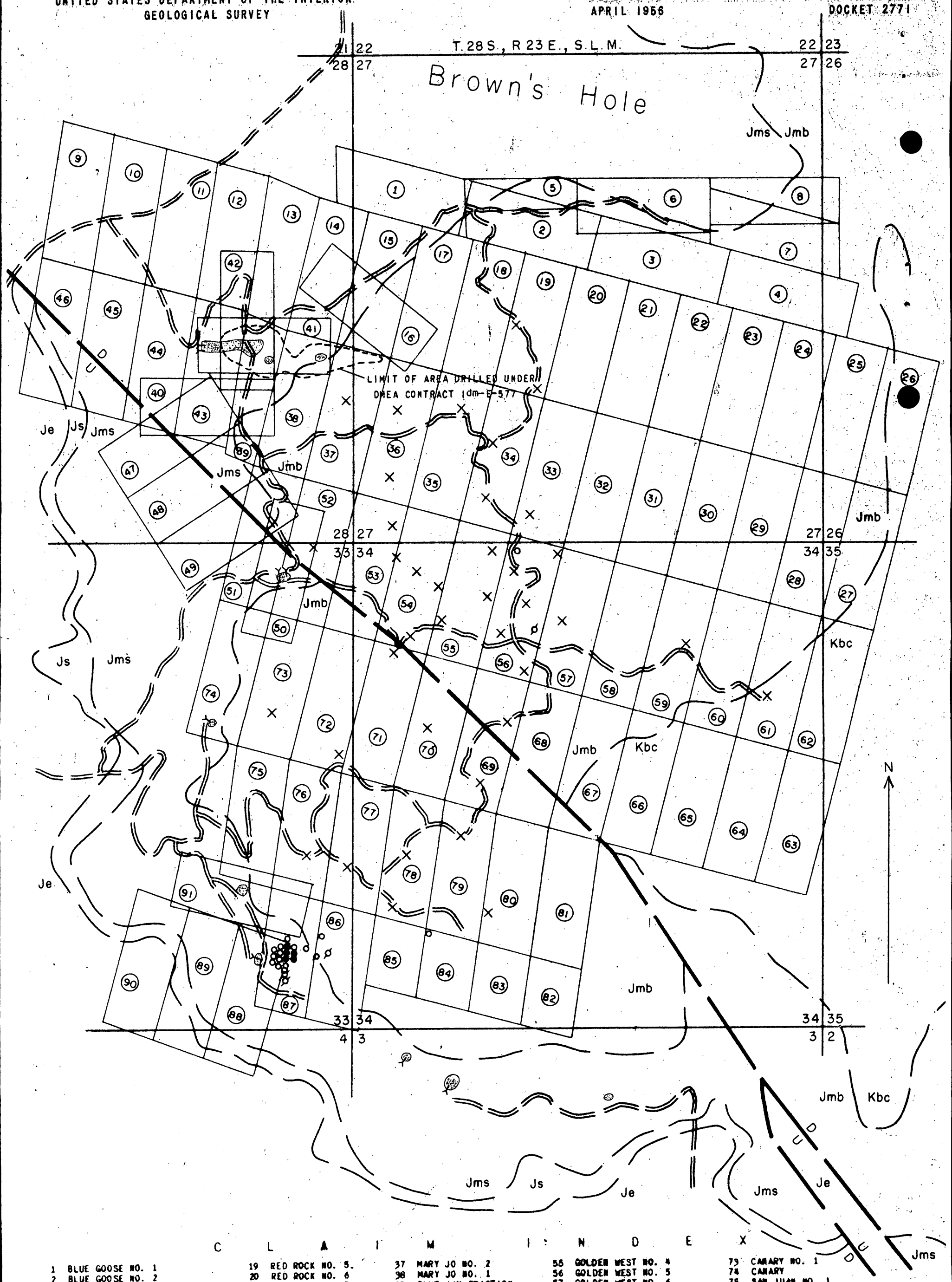
In the opinion of the DMEA examining geologist, the small size of the known deposits around the edge of the mesa (fig.2), indicates that deposits within the mesa are not likely to be sufficiently large to provide a reasonable target for drilling averaging 450 feet. One of the holes would be collared in the Burro Canyon and would need to be 700 feet deep to penetrate the Salt Wash. The maximum size target, as indicated by the Blue Jay deposits, would probably not exceed 100 feet in width nor 600 feet in length; much weakly mineralized and even some barren ground would occur within any overall mineralized area such as on the Blue Jay claim.

In administration of contract Idm-E 577, Mr. Gramlich has occasionally moved drill-hole sites without consulting the DMEA field team, notwithstanding the fact that he was later paid for the holes. Mr. Gramlich regards himself as being competent in doing geological work and to date he has had some luck in picking sites that later proved to be locations of ore holes. Nonetheless, it should be pointed out that in letting any future contracts to Gramlich Exploration Company, a provision should be made for hiring a geologist-engineer, other than Mr. Gramlich.

Because of the small drilling target that would be expected, and the deep drilling required, it is quite probable that drilling in the central portion of the mesa would be extremely costly in proportion to the value of ore bodies contained in any mineralized ground that might be discovered. It is recommended that the request of Gramlich Exploration Company for further DMEA assistance under contract Idm-E 577 be denied. It is further recommended that DMEA contract Idm-E 577 be terminated and a certification of discovery be made.

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
APRIL 1956
DOCKET 2771



CLAIM INDEX

1 BLUE GOOSE NO. 1
2 BLUE GOOSE NO. 2
3 BLUE GOOSE NO. 3
4 BLUE GOOSE NO. 4
5 BLUE GOOSE NO. 5 FRACTION
6 BLUE GOOSE NO. 6 FRACTION
7 BLUE GOOSE NO. 7
8 BLUE GOOSE NO. 7 FRACTION
9 DONNA M
10 SHIRLEY J NO. 1
11 SHIRLEY J
12 DONNA M NO. 1
13 RED ROCK NO. 1 FRACTION
14 RED ROCK NO. 1
15 RED ROCK NO. 2
16 REDBIRD
17 RED ROCK NO. 3
18 RED ROCK NO. 4
19 RED ROCK NO. 5
20 RED ROCK NO. 6
21 RED ROCK NO. 7
22 RED ROCK NO. 8
23 RED ROCK NO. 9
24 RED ROCK NO. 10
25 RED ROCK NO. 11
26 RED ROCK NO. 12
27 MARY JO NO. 12
28 MARY JO NO. 11
29 MARY JO NO. 10
30 MARY JO NO. 9
31 MARY JO NO. 8
32 MARY JO NO. 7
33 MARY JO NO. 6
34 MARY JO NO. 5
35 MARY JO NO. 4
36 MARY JO NO. 3
37 MARY JO NO. 2
38 MARY JO NO. 1
39 BLUE JAY FRACTION
40 OLD TREE
41 BLUE JAY
42 BLUEBIRD
43
44 DUGOUT
45 DUGOUT NO. 1
46 ROSE
47 SUNSET
48 SUNSET NO. 1
49 SUNSET NO. 2
50 PINE TREE
51 GOLDEN WEST
52 GOLDEN WEST NO. 1
53 GOLDEN WEST NO. 2
54 GOLDEN WEST NO. 3
55 GOLDEN WEST NO. 4
56 GOLDEN WEST NO. 5
57 GOLDEN WEST NO. 6
58 GOLDEN WEST NO. 7
59 GOLDEN WEST NO. 8
60 GOLDEN WEST NO. 9
61 GOLDEN WEST NO. 10
62 GOLDEN WEST NO. 11
63 CANARY NO. 11
64 CANARY NO. 10
65 CANARY NO. 9
66 CANARY NO. 8
67 CANARY NO. 7
68 CANARY NO. 6
69 CANARY NO. 5
70 CANARY NO. 4
71 CANARY NO. 3
72 CANARY NO. 2
73 CANARY NO. 1
74 CANARY
75 SAN JUAN NO. 1
76 SAN JUAN NO. 2
77 SAN JUAN NO. 3
78 SAN JUAN NO. 4
79 SAN JUAN NO. 5
80 SAN JUAN NO. 6
81 GRAND VIEW NO. 7
82 GRAND VIEW NO. 6
83 GRAND VIEW NO. 5
84 GRAND VIEW NO. 4
85 GRAND VIEW NO. 3
86 GRAND VIEW NO. 2
87 GRAND VIEW NO. 1
88 SAN JUAN
89 ROSEBUD
90 ROSEBUD NO. 1
91 SUNNYSIDE

EXPLANATION

Kbc — CRETACEOUS BURRO CANYON

Jmb, Jms — JURASSIC MORRISON FORMATION; BRUSHY BASIN MEMBER, Jmb; SALT WASH MEMBER, Jms

Js — JURASSIC SUMMERVILLE FORMATION

Je — JURASSIC ENTRADA SANDSTONE

GEOLOGIC CONTACT, APPROXIMATELY LOCATED

D / U — LISBON VALLEY FAULT, APPROXIMATELY LOCATED; D, DOWNTHROWN SIDE; U, UPTHROWN SIDE

MINERALIZED GROUND

ADIT

DRILL HOLES, (INDIVIDUAL DMEA HOLES ON BLUE JAY AND ADJACENT CLAIMS NOT SHOWN)

ORE BEARING

MINERALIZED

BARREN

STAGE I DRILL HOLE PROPOSED UNDER EXTENSION OF CONTRACT IDM-E-577

Note: GEOLOGY AND CLAIM BOUNDARIES FROM MAP PREPARED BY GEORGE H. NEWELL, REGISTERED SURVEYOR

1000 0 5000 FEET

FIGURE 2. CLAIM MAP OF GRAMLICH EXPLORATION COMPANY LEASE, SHOWING PROPOSED STAGE I DRILL HOLE LOCATIONS UNDER AMENDMENT TO CONTRACT IDM-E-577, BROWN'S HOLE AREA, SAN JUAN COUNTY, UTAH.

DMEA
Date Rec'd.
MAR 22 1956
BUREAU OF MINES
Denver, Colorado

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
P. O. Box 360
Grand Junction, Colorado

IN REPLY REFER TO:
MINERAL DEPOSITS
DMEA
RECEIVED
MAR 21 1956
U. S.
GEOLOGICAL SURVEY
DENVER, COLORADO

March 20, 1956

Memorandum

To: Executive Officer, DMEA Field Team, Region III

From: J. William Hasler
Through: E. N. Harshman EMH

Subject: DMEA docket 2771 (Uranium), Contract Idm-E 577, Gramlich Exploration Company, San Juan County, Utah

In reply to memorandum of March 16, concerning operator's request for additional funds under docket 2771, we have evaluated the results of drilling to date and have an interim report in draft, recommending denial of the operator's request. This report, with a copy to S. R. Wilson, should be transmitted to Harshman on about April 2.

J. William Hasler
J. William Hasler,
Geologist

FMB/mlr

cc: S. R. Wilson

Copy returned to Harshman 3/22/56

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

DMEA
Date Rec'd.
MAR 21 1956
BUREAU OF MINES
Denver, Colorado

March 19, 1956

Memorandum

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

From: Stephen R. Wilson

Subject: Docket No. DMEA-2771 (Uranium), Contract Idm-E577, Gramlich Exploration Co., San Juan County, Utah

Reference is made to your memorandum of March 16, 1956, wherein you have requested information relative to the status of the operator's request for additional funds.

At the time of my last visit to Denver February 1, 1956, I discussed the subject with J. W. Hasler. It was agreed that he would prepare recommendations for denial of the operator's request and forward a copy of his recommendations to this office.

It was agreed that this office will concur in Hasler's recommendations. This concurrence will be given by memorandum as soon as the information is received from Hasler.

Stephen R. Wilson
Stephen R. Wilson

cc: J. B. Clemmer

224 New Customhouse
Denver 2, Colorado

March 16, 1956

Memorandum

To: S. R. Wilson
J. W. Hasler

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 2771 (Uranium), Contract Ism-5577, Granlich Exploration Company, San Juan County, Utah

Please advise as to the date we can expect to receive your recommendations relative to the Operator's request for approval of additional work and funds, which was forwarded to you by our memorandum of November 28,1955.

W. M. Traver

W. M. Traver

JWT:prl
cc: Chairman, Oper. Comm (2)
Harshman
Townsend
Corres. file
Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 12, UTAH

DMEA
Dair Rec'd
DEC 12 1955
BUREAU OF MINES
Denver, Colorado

December 8, 1955

Memorandum

To: J. W. Hasler, U. S. Geological Survey, Grand Junction, Colo.

From: Stephen R. Wilson

Subject: Docket No. DMEA-2771 (Uranium), Contract Idm-E~~377~~ 577, Gramlich Exploration Co., San Juan County, Utah

Attached is our file of MF-104 forms pertaining to the subject contract. This information is transmitted to you in accordance with our telephone conversation December 7, 1955. Please return the file as soon as it has served your needs.

Stephen R. Wilson
Stephen R. Wilson

Enclosure

cc: W. M. Traver
J. B. Clemmer

20th New Customhouse
Denver 2, Colorado

November 28, 1955

Memorandum

To: S. R. Wilson } w/copy of Operator's application, complete
J. W. Hasler }

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 2771 (Uranium), Contract I6n-2577, Gralich Exploration Company, San Juan County, Utah

Enclosed is a copy of the Operator's letter of October 12, 1955, with attached Exhibits 1 to 11, inclusive, which were delivered to this office in person November 22, 1955.

The Operator is applying for an amendment to Contract I6n-2577, to authorize additional work and additional funds in the amount of $363,349.00, the work to be performed on a three-stage basis.

The Operator has estimated the Government participation on a 90% basis, which would not be the case, as 75% would be the maximum Government participation.

Please submit a joint memorandum report of your recommendations in the matter.

When the enclosed material has served your needs, please return it to this office.

W. M. Traver

By J. W. Townsend

Enclosures

JWT:pri
cc: Chairman, Oper. Comm. (2)

Harshman - w/copy of Operator's request (to be returned)
Townsend
Corres. file
Chron.

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

Denver Federal Center
Denver, Colorado

November 23, 1955

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Gamma-ray log interpretations

Enclosed are four copies of gamma-ray log interpretations on the following DMEA exploration projects:

DMEA Docket

2772 - Walter Grunlich
3297 - Continental Uranium Company
3475 - Amuranium Corporation
3514 - Climax Uranium Company
3555 - Four Corners Exploration - Bachelor group
3579 - Bula Belle Uranium, Inc.
3582 - Walter Duncan Mining Co.
3632 - Colemer Corporation
3649 - Simpson Uranium Co.
3660 - Mid Continent Uranium Corp.
3675 - Great Frontier Uranium Company
3730 - Vaughey & Vaughey, Gurey Ventures
3939 - Westvaco Mineral Products

Bert

W. M. Traver

By JW Lamical

Enclosures

Copy to: Shaw (2)
Hasler
Harshman
~~Townsend~~
Chron.

Correspondence

E577

WHarshman:arh

DMEA 2771

Walter Gramlich
Private Drilling
Blue Jay Mine Area-Browns Hole

GAMMA-RAY LOG INTERPRETATION

Hole No.	Depth Drilled	Depth Cased	Depth Logged From* To	Anomaly Detected From* To	Anomaly Thickness	Counts per minute	CPM Corrected for Casing	CPM Corrected for G-M Tube	Grade % U_3O_8	Remarks
BG-1	?	None	5.0-86.1	Barren						
PT-1	252.2	None	5.0-237.8	Salted						
PT-2	133.0	None	5.0-132.8	Barren						
PT-3	123.6	None	5.0-121.4	100.5 - 113.9	13.4	300			0.005	

* From top to bottom depths

Continental Uranium Company
School Section # 2
Big Indian Area
DMEA Docket No. 3297

GAMMA-RAY LOG INTERPRETATION

Hole No.	Depth Drilled	Depth Cased	Depth Logged From* To	Anomaly Detected From* To	Anomaly Thickness	Counts per minute	CPM Corrected for Casing	CPM Corrected for G-M Tube	Grade % U_3O_8	Remarks
C-21-A	87.5	None	2.6 - 84.0	66.0 - 67.8	1.8	380			<0.010	
				68.9 - 70.0	1.1	880			0.028	
				70.4 - 71.1	0.7	350			0.010	
				75.9 - 76.5	0.6	3000			0.150	
				76.5 - 77.0	0.5	1600			0.065	
				77.6 - 78.0	0.4	1100			0.050	
C-31-A	265.0	None	5.0 - 216.3	Barren						
C-33	90.0	None	2.2 - 88.7	Barren						
C-41-A	275.0	None	3.7 - 144.7	Barren						
C-44	685.0	None	1.3 - 608.8	Barren						
C-47	745.0	None	5.0 - 534.8	Barren						
C-48	695.0	None	4.7 - 591.9	Barren						
C-54	185.0	None	4.9 - 108.0	Barren						
C-56	205.0	None	4.5 - 203.5	162.6 - 163.9	1.3	260			<0.005	
				165.1 - 166.9	1.8	530			0.011	
				171.8 - 175.8	4.0	230			<0.005	
				182.0 - 185.1	3.1	240			<0.005	
				188.7 - 189.7	1.0	480			0.012	
				190.0 - 190.7	0.7	280			<0.010	
				191.5 - 192.3	0.8	480			0.014	
C-57	135.0	None	5.0 - 89.8	Barren						
C-59	190.0	None	4.7 - 183.4	149.8 - 150.6	0.8	1100			0.027	
				151.1 - 152.9	1.8	340			<0.010	

* From top to bottom depths

Continental Mining Co.
School Section # 2
Big Indian Area - San Juan Co., Utah
DMEA Docket #3297

GAMMA-RAY LOG INTERPRETATION

Hole No.	Depth Drilled	Depth Cased	Depth Logged From*	Depth Logged To	Anomaly Detected From*	Anomaly Detected To	Anomaly Thickness	Counts per minute	CPM Corrected for Casing	CPM Corrected for G-M Tube	Grade $\%_e U_3O_8$	Remarks
C-46	685.0	None	0.0	662.2	655.0	656.3	1.3	240			<0.005	
					657.6	658.4	0.8	1200			0.030	
					658.4	659.9	1.5	2000			0.048	

* From top to bottom depths

Amuranium Corporation
JF Redd Claims - Rattle Snake Area
DMEA Docket No. 3475

GAMMA-RAY LOG INTERPRETATION

Hole No.	Depth Drilled	Depth Cased	Depth Logged From*	Depth Logged To	Anomaly Detected From*	Anomaly Detected To	Anomaly Thickness	Counts per minute	CPM Corrected for Casing	CPM Corrected for G-M Tube	Grade $\%_e U_3O_8$	Remarks
JFR-37-B	520.0	None	0.5	507.3	Barren							

* From top to bottom depths

Amuranium Corp.

GAMMA-RAY LOG INTERPRETATION F Redd Claims-Rattle Snake Area

DMEA Docket No. 3475

Hole No.	Depth Drilled	Depth Cased	Depth Logged From*	Depth Logged To	Anomaly Detected From*	Anomaly Detected To	Anomaly Thickness	Counts per minute	CPM Corrected for Casing	CPM Corrected for G-M Tube	Grade $\%_e U_3O_8$	Remarks
JFR-38B	710.0	None	0.0	708.1	454.6	455.4	0.8	3400			0.14	

* From top to bottom depths

Climax Uranium Company
Beaver Mesa
DMEA Docket No. 3514

GAMMA-RAY LOG INTERPRETATION

Hole No.	Depth Drilled	Depth Cased	Depth Logged From*	To	Anomaly Detected From*	To	Anomaly Thickness	Counts per minute	CPM Corrected for Casing	G-M Tube	Grade $\%_eU_3O_8$	Remarks
D-33	625.0	545.0 BX	2.0	624.0	Barren							
D-34	600.+	None	0.0	600.0	Barren							
D-35	605.0	535.0 BX	3.0	605.0	Barren							
D-36	605.0	None	2.2	534.8	Barren							

* From top to bottom depths

Climax Uranium Company
Beaver Mesa
GAMMA-RAY LOG INTERPRETATION AEC Docket No. 3514

Hole No.	Depth Drilled	Depth Cased	Depth Logged From* To	Anomaly Detected From* To	Anomaly Thickness	Counts per minute	CPM Corrected for Casing	CPM Corrected for G-M Tube	Grade $\%_e U_3O_8$	Remarks
D-37	625.0	None	3.2 - 493.7	Barren						
D-38	620.0	550' BX	2.5 - 620.0	509.7 - 510.5	0.8	320	400		0.011	
				510.5 - 512.3	1.8	240	270		<0.005	
				534.4 - 535.8	1.4	280	350		<0.010	
				564.7 - 565.6	0.9	1300			0.033	
				566.1 - 566.6	0.5	360			0.012	
				568.0 - 568.7	0.7	280			<0.010	
				581.1 - 581.9	0.8	420			0.012	
				585.3 - 587.5	2.2	240			<0.005	
				590.2 - 591.0	0.8	220			<0.005	
				592.0 - 593.1	1.1	900			0.020	
				593.1 - 593.9	0.8	200			<0.005	
				593.9 - 594.6	0.7	800			0.033	
				601.8 - 602.6	0.8	220			<0.005	
				603.9 - 605.4	1.5	200			<0.005	
				609.2 - 609.8	0.6	200			<0.005	
				610.7 - 613.1	2.4	340			<0.010	
				614.5 - 615.5	1.0	740			0.023	
				615.5 - 620.0	4.5	380			<0.010	
D-39	620.0	520.0 BX	2.8 - 618.0	657.9 - 659.1	1.2	840			0.024	
				660.5 - 661.8	1.3	200			<0.005	
D-41	425.0	385.0 BX	0.2 - 396.0	127.5 - 129.8	2.3	240	300		<0.010	
				378.7 - 379.7	1.0	340	425		-0.010	
				382.9 - 385.1	2.2	200	250		<0.005	
				385.8 - 386.6	0.8	1700			0.050	
				388.3 - 388.8	0.5	200			<0.010	

* From top to bottom depths

Caggini, Anderson, Kalp
Batchelor Claim No. 1
DMEA Docket No. 3555

GAMMA-RAY LOG INTERPRETATION

Hole No.	Depth Drilled	Depth Cased	Depth Logged From*	Depth Logged To	Anomaly Detected From*	Anomaly Detected To	Anomaly Thickness	Counts per minute	CPM Corrected for Casing	CPM Corrected for G-M Tube	Grade $\%_e U_3O_8$	Remarks
B1	245.5	15' 2.5" pipe	91.6	244.2	Barren							

* From top to bottom depths

Uranium Inc.
Ulabelle - Mesa Creek
DMEA Docket No. 3579

GAMMA-RAY LOG INTERPRETATION

Hole No.	Depth Drilled	Depth Cased	Depth Logged From*	Depth Logged To	Anomaly Detected From*	Anomaly Detected To	Anomaly Thickness	Counts per minute	CPM Corrected for Casing	CPM Corrected for G-M Tube	Grade $\%_e U_3O_8$	Remarks
#7	255.0		10.8	245.0	Barren							
#9	340.0		10.6	340.0	Barren							
#10	131.0		10.8	130.1	Barren							
#11	135.0		10.0	135.0	Barren							
#12	135.0		11.0	135.0	Barren							
#13	110.0		9.3	102.0	95.9	97.6	1.7	220			<0.005	
					98.6	99.5	0.9	640			0.019	
#14	55.0		10.1	55.0	Barren							
#15	76.0		9.8	74.0	Barren							
#31	115.0		10.4	110.0	95.3	96.8	1.5	390			<0.010	
					98.4	99.2	0.8	4300			0.180	
					102.7	103.6	0.9	280			<0.010	
#32	115.0		10.0	84.0	18.3	20.6	2.3	320			<0.010	
					23.3	24.5	1.2	410			<0.010	
					26.0	27.3	1.3	360			<0.010	
					30.2	32.5	2.3	340			<0.010	
#33	110.0		9.4	110.0	96.1	98.5	2.4	520			0.010	
					99.7	101.0	1.3	280			<0.010	
					101.7	104.2	2.5	740			0.016	
					104.2	105.5	1.3	220			<0.005	
					105.5	106.3	0.8	2700			0.096	
#34	93.0		11.4	93.0	Barren							
#35	78.0		9.5	76.0	52.0	53.3	1.3	300			<0.010	
					53.3	54.5	1.2	800			0.023	
					54.5	55.2	0.7	300			<0.010	

* From top to bottom depths

Walter Duncan Mining Co.

GAMMA-RAY LOG INTERPRETATION Red Rock Claims - Lisbon Valley

DMEA Docket No. 3582

Hole No.	Depth Drilled	Depth Cased	Depth Logged From* To	Anomaly Detected From* To	Anomaly Thickness	Counts per minute	CPM Corrected for Casing	CPM Corrected for G-M Tube	Grade $\%_e U_3O_8$	Remarks
DMEA-5	645.0	None	5.0-632.6	611.4-613.5	2.1	260			<0.005	
				613.9-615.6	1.7	680			0.015	
DMEA-14	672.0	None	4.8-652.4	Barren						
DMEA-15	640.0	None	4.0-620.0	600.2-601.2	1.0	240			<0.005	
				603.7-604.4	0.7	320			<0.010	
				608.1-609.0	0.9	1,200			0.029	
DMEA-16	668.0	None	5.0-224.3	Barren						
DMEA-17	676.0	None	0.0-670.1	638.7-639.7	1.0	600			0.017	
				641.5-643.0	1.5	210			<0.005	
				645.4-646.4	1.0	280			<0.010	
				648.2-649.1	0.9	300			<0.010	
				651.2-654.6	3.4	360			<0.010	
DMEA-18	613.0	None	3.6-232.5	Barren						

* From top to bottom depths

Colamer Corporation
McKinley Co., N. Mexico
Section # 8
DMEA Docket No. 3632

GAMMA-RAY LOG INTERPRETATION

Hole No.	Depth Drilled	Depth Cased	Depth Logged From* To	Anomaly Detected From* To	Anomaly Thickness	Counts per minute	CPM Corrected for Casing	CPM Corrected for G-M Tube	Grade $\%_e U_3O_8$	Remarks
61			0.0 - 200.5	99.0 - 100.4	1.4	280			<0.005	
				175.8 - 177.3	1.5	360			<0.010	
				190.7 - 192.2	1.5	1400			0.031	
				192.2 - 194.3	2.1	1800			0.039	
				195.6 - 197.3	1.7	1000			0.024	
61-4			2.0 - 162.0	Barren						

* From top to bottom depths

Simpson Uranium Co.
Beaver Mesa
GAMMA-RAY LOG INTERPRETATIONDMEA Docket No. 3649

Hole No.	Depth Drilled	Depth Cased	Depth Logged From*	Depth Logged To	Anomaly Detected From*	Anomaly Detected To	Anomaly Thickness	Counts per minute	CPM Corrected for Casing	CPM Corrected for G-M Tube	Grade $\%_e U_3O_8$	Remarks
HR-21	425.0	340.0 AX	10.0	422.3	232.3	233.8	1.8	400			<0.010	
					234.2	235.1	0.9	600			0.018	
					235.1	235.9	0.8	360			<0.010	
					350.2	351.7	1.8	260			<0.005	
					402.1	402.9	0.8	8600			0.480	
					406.2	407.5	1.3	280			<0.010	
HR-22	330.0	None	0.0	314.0	188.4	189.8	1.4	200			<0.005	
					193.3	195.4	2.1	600			0.012	
					195.4	197.0	1.6	1200			0.026	
					197.0	198.1	1.1	400			<0.010	
					198.1	199.5	1.4	200			<0.005	
					200.9	201.5	0.6	260			<0.010	
HR-26	437.0	360.0	0.4	434.1	229.6	230.6	1.0	540	675		0.021	
					231.0	231.6	0.6	260	325		<0.010	
					232.3	233.4	1.1	240	300		<0.010	
					400.9	404.3	3.4	240			<0.005	
					404.3	405.2	0.9	500			0.014	
					420.3	422.1	1.8	360			<0.010	

* From top to bottom depths

Simpson Uranium
Beaver Mesa
DMEA Docket No. 3649

GAMMA-RAY LOG INTERPRETATION

Hole No.	Depth Drilled	Depth Cased	Depth Logged From* To	Anomaly Detected From* To	Anomaly Thickness	Counts per minute	CPM Corrected for Casing	CPM Corrected for G-M Tube	Grade $\%_e U_3O_8$	Remarks
HR-24	445.0	360.0 AX	1.5 - 442.4	253.5 - 255.3	1.8	320	370		<0.010	
				332.0 - 333.2	1.2	620	710		0.019	
				422.6 - 423.2	0.6	520			0.018	

* From top to bottom depths

Mid-Continent Uranium Co.
Beaver Mesa

GAMMA-RAY LOG INTERPRETATIONDMEA Docket No. 3660

Hole No.	Depth Drilled	Depth Cased	Depth Logged From* To	Anomaly Detected From* To	Anomaly Thickness	Counts per minute	CPM Corrected for Casing	CPM Corrected for G-M Tube	Grade $\%_e U_3O_8$	Remarks
PS-3	278.5	170.0 BX	1.4 - 276.5	246.6 - 247.5	0.9	880			0.031	
PS-4	232.0	135.0 BX	5.0 - 228.4	166.6 - 167.4	0.8	480			0.014	
				167.4 - 168.1	0.7	1200			0.035	
				168.8 - 169.3	0.5	660			0.028	
PS-6	224.0	None	2.0 - 212.0	74.3 - 77.0	2.7	400			<0.010	
PS-7	215.0	110.0 BX	4.0 - 204.0	191.5 - 192.6	1.1	900			0.028	

* From top to bottom depths

Mid Continent Uranium Corp.
Beaver Mesa
DMEA Docket No. 3660

GAMMA-RAY LOG INTERPRETATION

Hole No.	Depth Drilled	Depth Cased	Depth Logged From*	Depth Logged To	Anomaly Detected From*	Anomaly Detected To	Anomaly Thickness	Counts per minute	CPM Corrected for Casing	CPM Corrected for G-M Tube	Grade $\%_e U_3O_8$	Remarks
PS-5A	230.0	120.0 BX	1.1	229.2	Barren							
PS-8	327.0	220.0 BX	1.6	326.4	322.5	323.3	0.8	240			<0.010	

* From top to bottom depths

Great Frontier Uranium Company
Beaver Mesa

GAMMA-RAY LOG INTERPRETATION DMEA Docket No. 3675

Hole No.	Depth Drilled	Depth Cased	Depth Logged From* To	Anomaly Detected From* To	Anomaly Thickness	Counts per minute	CPM Corrected for Casing	CPM Corrected for G-M Tube	Grade $\%_e U_3O_8$	Remarks
YB-7	201.0	None	0.0 - 201.0	188.3 - 189.0	0.7	360			0.010	
				189.0 - 190.0	1.0	240			<0.005	
YD-2	200.0	None	0.0 - 192.6	Barren						
YD-3	290.0	None	16.0 - 282.4	140.0 - 140.9	0.9	2000			0.060	
				141.8 - 142.5	0.7	500			0.017	
				179.1 - 179.7	0.6	280			<0.010	
				179.7 - 180.6	0.9	200			<0.005	
YD-5	230.0	None	0.0 - 212.5	176.5 - 178.1	1.6	220			<0.005	
				179.0 - 179.7	0.7	2600			0.120	
				181.4 - 185.0	3.6	320			<0.010	
				185.8 - 188.5	2.7	200			<0.005	
				196.0 - 199.1	3.1	300			<0.010	
				199.8 - 203.9	4.1	320			<0.010	
				203.9 - 206.4	2.5	240			<0.005	
				206.4 - 212.5	6.1	340			<0.010	
YD-11	225.0	None	0.0 - 224.8	162.3 - 163.2	0.9	1400			0.045	
				163.5 - 165.3	1.8	380			<0.010	
				167.1 - 180.3	3.2	800			0.018	
				180.7 - 181.2	0.5	360			0.012	

* From top to bottom depths

Vaughey & Vaughey - Ouray Ventures
San Rafael Reef Area - Hilda Claims

GAMMA-RAY LOG INTERPRETATION DMEA Docket No. 3730

Hole No.	Depth Drilled	Depth Cased	Depth Logged From*	Depth Logged To	Anomaly Detected From*	Anomaly Detected To	Anomaly Thickness	Counts per minute	CPM Corrected for Casing	CPM Corrected for G-M Tube	Grade $\%_e U_3O_8$	Remarks
#8	370.0	None	1.7	365.3	Barren							
#12	409.0	None	340.0	365.5	Barren							
#16	386.0	None	5.0	371.9	Barren							
#17	393.0	None	5.0	382.1	Barren							
#20	315.0	None	4.9	299.2	Barren							

* From top to bottom depths

Vaughey & Vaughey Ouray Ventures

GAMMA-RAY LOG INTERPRETATION Hilda Claims - San Rafael Reef

DMEA Docket # 3730

Hole No.	Depth Drilled	Depth Cased	Depth Logged From*	Depth Logged To	Anomaly Detected From*	Anomaly Detected To	Anomaly Thickness	Counts per minute	CPM Corrected for Casing	CPM Corrected for G-M Tube	Grade % U_3O_8	Remarks
#22	558.0	None	4.2	555.7	Barren							
#23	485.0	None	2.1	450.1	Barren							

* From top to bottom depths

Westvaco Mineral Products
McKinley Co., N. Mex.
Sec. 7, T. 13 N., R. 9 W.
DMEA Docket No. 3939

GAMMA-RAY LOG INTERPRETATION

Hole No.	Depth Drilled	Depth Cased	Depth Logged From*	Depth Logged To	Anomaly Detected From*	Anomaly Detected To	Anomaly Thickness	Counts per minute	CPM Corrected for Casing	CPM Corrected for G-M Tube	Grade $\%_e U_3O_8$	Remarks
2600N 1000E			0.0	280.2	Barren							
1000N 1000E			0.0	281.2	Barren							
1800N 2600E			0.0	327.5	53.2	58.1	4.9	240			<0.005	
					67.0	68.2	1.2	260			<0.005	
					69.9	73.5	3.6	240			<0.005	
					95.9	97.7	1.8	460			<0.010	
					147.6	149.1	1.5	300			<0.005	
					317.6	319.4	1.8	400			<0.010	

* From top to bottom depths

224 New Customhouse
Denver 2, Colorado

November 3, 1955

Mr. John W. Gramlich, Sr., President
Gramlich Exploration Company
Moab, Utah

Re: Docket DMEA-2771 (Uranium)
Contract Idm-E577, Gramlich
Exploration Company, San Juan
County, Utah

Dear Mr. Gramlich:

In your March-June Operator's Narrative Report you indicated that you plan to submit an application to extend Contract Idm-E577, and that the application would be forwarded at an early date. It has now been four months since we received the above report, during which period we have kept the contract active.

Please inform this office by return mail whether you do or do not still plan to apply for the extension, and if you do so plan, by what date we may expect to receive the application.

In case you have abandoned your plan to request additional funds this will remind you that a Final Engineering and Geologic Report is required of the Operator by Article 6(c) of the contract and that we are still withholding the amount of $500.00 from your last MF-104 Voucher pending receipt of this report.

Very truly yours,

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

By J. W. Townsend
J. W. Townsend

JDC:jy
cc: Corresp. File E577
Sec. Op. Comm. (2)
Harshman
Wilson
Hasler
Townsend
Chron.

2?4 New Customhouse
Denver 2, Colorado

November 9, 1955

Mr. John W. Gramlich, Sr., President
Gramlich Exploration Company
Moab, Utah

Re: Docket DMEA 2771 (Uranium),
Contract Idm-2577

Dear Mr. Gramlich:

Thank you for your letter of November 7 in reply to our letter of November 3. We will hold our files open on contract Idm-2577 to enable you to formulate plans in conjunction with your request for an extension of the contract to authorize additional exploration work.

Relative to your inquiry regarding another sizeable group of claims in a different area on which you wish to submit an application for DMEA exploration assistance, it appears that it would be necessary for you to submit a separate application. If you are in need of forms for that purpose please advise us.

Very truly yours,

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

By J. W. Townsend
J. W. Townsend

JWT:prl
cc: Chairman, Oper. Comm. (2))
Marshman)
Wilson)
Easler)
Townsend)
Corres. file ✓)
Chron.)

w/copy of Operator's letter of Nov. 7,

DMEA
Date Rec'd.
NOV 8 1955
BUREAU OF MINES
Denver, Colorado

Moab, Utah
Nov. 7, 1955

U.S. Dept Interior D.M.E.A.
224 Customhouse.

Re: Docket DMEA 2771
Contract Adm E 5-77

Attention: Mr. W.M. Traver
Mr. J.W. Townsend

Gentlemen:

In reply, yours of Nov. 3rd. Thank you kindly for keeping contract open.

We are definitely intending to submit application to extend contract & will submit same upon completion. Hope to have it in your hands soon. To formulate a pattern that will be workable as well as practical is taking much study & thought both on & off the property. but it is now taking shape.

We now have another sizeable group of claims at base of Mt. Melenthin, La Sal Mountains at base of igneous intrusion where marrion has been pushed up to an elevation of about 10,000 ft — found some 15 to 20% Cu, Co, float & have dug off a rim showing of good Vanadium containing L.G.U. averaging from 2 ft to 6 ft thick. Would like to drill this on D.M.E.A. Could this be included under our present Extension or must it be by new contract? conditions + costs are about same as Brown's hole, however working season will be short.

Thanking you for past co-operation & a reply on last question we are: Sincerely,

Gramlich Exploration Co
By J.W. Gramlich Jr.

Lumpe

October 11, 1955

224 New Customhouse
Denver 2, Colorado

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Gamma-ray log interpretations for:
Wilson DMEA 2771, Contract Idm-E377, Gramlich Exploration Company
DMEA 3297, Contract Idm-E800, Continental Uranium, Inc.
DMEA 3449, Contract Idm-E745, United States Uranium Company
DMEA 3475, Contract Idm-E760, Amuranium Corporation
DMEA 3555, Contract Idm-E791, W. A. Greer (Four Corners Exploration Company)
DMEA 3649, Contract Idm-E812, Simpson et al Mining Company
DMEA 3579, Contract Idm-E794, Bula Belle Uranium, Inc.
DMEA 3582, Contract Idm-E796, Walter Duncan Mining Company
DMEA 3514, Contract Idm-E823, Climax Uranium Company
DMEA 3614, Contract Idm-E795, Western Oil Fields, Inc.

Enclosed are four copies of gamma-ray log interpretations for holes drilled on the subject properties with transmittal memorandum by E. N. Harshman, Region III DMEA Field Team member.

W. M. Traver
By [illegible]

JC:ab
cc: Corresp. File E377, 745, 760, 791, 795
Corresp. File E800, 812, 794, 796, 823
Harshman
Hasler
Shaw (2) w/one copy log interpretations
Townsend
Caron.

Ans

Back

Walter Gramlich - Private Holes
La Sal Mtns. - San Juan Co., Utah
IDA Claims

GAMMA-RAY LOG INTERPRETATION

Hole No.	Depth Drilled	Depth Cased	Depth Logged From* To	Anomaly Detected From* To	Anomaly Thickness	Counts per minute	CPM Corrected for Casing	CPM Corrected for G-M Tube	Grade $\%_e U_3O_8$	Remarks
IDA-1	310.7	50.0 NX	5.5-309.9	196.8-200.3	3.5	250			<0.005	
IDA-2	230.0	None	0.4-194.8	None						
IDA-3	231.0	50.0 NX	2.0-230.2	196.1-197.2 205.4-207.1	1.1 1.7	300 380			<0.010 <0.010	
IDA-4	212.0	None	5.1-209.2							
IDA-5	183.8	None	4.9-180.7							
IDA-6	284.0	100.0 NX	3.8-282.9							

* From top to bottom depths

IN REPLY REFER TO:

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

DMEA
Date Rec'd
OCT 7 1955
BUREAU OF MINES
Denver Colo.

October 6, 1955

Memorandum

To: Executive Officer, DMEA Field Team, Region III

From: E. N. Harshman

Subject: Gamma-ray log interpretation data

Enclosed are eight copies each of gamma-ray log interpretations for the following projects:

DMEA 2771 - Walter Gramlich
" 3297 - Continental Uranium Corp., Big Indian area
" 3449 - U. S. Uranium, Red Hill claim
" 3475 - Amuranium Corporation
" 3555 - Four Corners Exploration Co., Bull Canyon
" 3571 - Simpson Mining Company, Rajah claims
" 3579 - Jerome Craig, Ula Bella claims
" 3582 - Walter Duncan Mining Co.
" 3614 - Climax Uranium, Beaver Mesa
" 3614 - Western Oil Fields, Sinder group

Four copies of each log interpretation should be forwarded to the Chairman of the Operating Committee for information.

E N Harshman

E. N. Harshman
Member, Field Team

Enclosures (10)

ENHarshman:arh

224 New Customhouse
Denver 2, Colorado

August 24, 1955

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Gamma-ray log interpretations
Docket 2771, Contract Idm-E577, Gramlich Exploration Company, Utah
Docket 3094, Contract Idm-E649, Camoose Uranium Mines of America, Inc., Colorado
Docket 3151, Contract Idm-E671, Four Corners Exploration Company, New Mexico
Docket 3190, Contract Idm-E672, Flattop Mining Company, New Mexico
Docket 3266, Contract Idm-E733, Big Indian Uranium Corporation, Utah
Docket 3297, Contract Idm-E800, Continental Uranium, Inc., Utah
Docket 3360, Contract Idm-E723, Mid-Continent Uranium Corporation, Utah
Docket 3449, Contract Idm-E745, United States Uranium Company, Colorado
Docket 3475, Contract Idm-E760, Amuranium Corporation, Utah
Docket 3550, Contract Idm-E782, Radium Hill Uranium, Inc., Colorado
Docket 3565, Contract Idm-E778, The Golden Cycle Corporation, Colorado
Docket 3579, Contract Idm-794, Eula Belle Uranium, Inc., Colorado
Docket 3582, Contract Idm-796, Walter Duncan Mining Company, Utah
Docket 3620, Contract Idm-808, Uranium Prospectors Company, Ltd., Colorado.

Enclosed are four copies of gamma-ray log interpretations for holes drilled on the subject properties, and transmittal by E. N. Harshman, Region III DMEA Field Team member.

Enclosures
JDC:jy

W. M. TRAVER,

W. M. Traver

cc:
Correspondence File E-577; 649; 671; 672; 733; 800; 723; 745; 760; 782; 778; 794; 796; 808

Shaw (2)
Hasler
Harshman
Townsend
Chron.

GAMMA-RAY LOG INTERPRETATION

Gramlich Exploration Co.
Brown's Hole, Moab, Utah -- DMEA

2771

Hole No.	Depth Drilled	Depth Cased	Depth Logged From* To	Anomaly Detected From* To	Anomaly Thickness	Counts per minute	CPM Corrected for Casing	CPM Corrected for G-M Tube	Grade $\%_eU_3O_8$	Remarks
III-15	193.5	0.0	6.8-193.5	164.3-166.8	2.5	450			<0.010	
				166.8-167.9	1.1	220			<0.005	
III-16	184.0	40.0	4.8-183.5	None						
III-17	251.8	0.0	Hole caved at 4.5 (Not Logged)							Core does not show anomaly
III-18	179.6	0.0	5.6-179.0	149.2-151.7	2.5	300			0.005	
				151.7-152.7	1.0	270			<0.010	
				153.6-154.6	1.0	520			0.014	
				155.0-156.7	1.7	220			<0.005	
III-19	171.6	0.0	4.0-171.0	70.6- 71.5	0.9	380			<0.010	
				141.2-143.1	1.9	320			<0.010	
				170.4-171.0	0.6	340			0.010	
III-20	203.0	0.0	9.1-202.1	103.3-104.2	0.9	220			<0.005	
				106.3-107.8	1.5	740			0.018	
				108.2-108.9	0.7	260			<0.010	
				200.0-201.0	1.0	400			<0.010	

* From top to bottom depths

Gramlich Exploration Co.
Golden West No. 5, San Juan Co., Utah

GAMMA-RAY LOG INTERPRETATION

Hole No.	Depth Drilled	Depth Cased	Depth Logged From*	Depth Logged To	Anomaly Detected From*	Anomaly Detected To	Anomaly Thickness	Counts per minute	CPM Corrected for Casing	CPM Corrected for G-M Tube	Grade $\%_e U_3O_8$	Remarks
GEC 1	505.6	None	5.8	288.5	Barren		Hole caved when casing was pulled.					
			This is a private hole logged for DMEA information.									

* From top to bottom depths

GAMMA-RAY LOG INTERPRETATION

Gramlich Group, Blue Jay Claims
Brown's Hole, Moab area -- DMEA

2771

Hole No.	Depth Drilled	Depth Cased	Depth Logged From* To	Anomaly Detected From* To	Anomaly Thickness	Counts per minute	CPM Corrected for Casing	CPM Corrected for G-M Tube	Grade $\%_e U_3O_8$	Remarks
DMEA 1	130.5	0.0	5.3-119.5	118.9-119.5	0.6	300			∠0.010	
I-1	123.0	0.0	5.1-123.0	22.0- 22.8	0.8	8500			0.48	
				24.6- 26.4	1.8	660			0.014	
I-2	?	0.0	4.1-124.6	116.5-118.0	1.5	200			∠0.005	
				118.0-119.2	1.2	520			0.013	
				119.2-120.5	1.3	200			∠0.005	
				120.5-122.1	1.6	250			∠0.005	
I-4	Plugged									
I-5	?	0.0	0.8-135.6	119.0-121.8	2.8	1100			0.020	
I-6	128.0	0.0	6.2-126.3	Barren						
I-7	?	0.0	4.0-129.1	14.5- 15.8	1.3	420			∠0.010	
				15.8- 18.0	2.2	220			∠0.005	
				107.1-109.9	2.8	250			∠0.005	
				111.2-115.0	3.8	340			∠0.010	
				115.0-115.9	0.9	2000			0.060	
				117.5-118.4	0.9	640			0.020	
				118.4-121.3	2.9	240			∠0.005	
				124.6-125.8	1.2	360			∠0.010	
I-8	121.0	0.0	6.7-118.4	Barren						
I-9	110.0	0.0	6.2-107.8	Barren						
I-10	117.3	0.0	3.8-116.2	109.3-110.1	0.8	6200			0.30	
				110.1-111.0	0.9	2200			0.065	

* From top to bottom depths

Gramlich Group, Blue Jay Claims
Brown's Hole, Moab area -- DMEA

GAMMA-RAY LOG INTERPRETATION

Hole No.	Depth Drilled	Depth Cased	Depth Logged From* To	Anomaly Detected From* To	Anomaly Thickness	Counts per minute	CPM Corrected for Casing	CPM Corrected for G-M Tube	Grade $\%_e U_3O_8$	Remarks
I-11	131.0	0.0	4.0-128.0	120.4-121.9	1.5	600			0.014	
				121.9-123.1	1.2	2400			0.066	
				123.1-124.1	1.0	600			0.017	
I-12	?	0.0	4.3-187.8	32.5- 33.3	0.8	24000			0.85	
				33.3- 34.4	1.1	8000			0.34	
				133.7-134.7	1.0	85000			>9.0	
				134.7-138.0	3.3	3000			0.074	
I-15	118.4	0.0	3.8-114.2	33.2- 33.8	0.6	1400			0.052	
				105.9-107.4	1.5	400			<0.010	
				107.4-110.2	2.8	240			<0.005	
I-17	160.0	0.0	4.6-153.8	115.1-118.0	2.9	240			<0.005	
				119.6-121.1	1.5	480			0.011	
I-18	140.0	0.0	7.0- 96.6	Barren						
I-19	194.0	0.0	0.0-180.7	142.0-143.3	1.3	430			<0.010	
				145.3-146.3	1.0	280			<0.010	
				150.1-150.5	0.4	220			<0.010	
				157.2-158.0	0.8	320			<0.010	

* From top to bottom depths

Gramlich Group, Blue Jay Claims
Brown's Hole, Moab area -- DMEA

GAMMA-RAY LOG INTERPRETATION

Hole No.	Depth Drilled	Depth Cased	Depth Logged From* To	Anomaly Detected From* To	Anomaly Thickness	Counts per minute	CPM Corrected for Casing	CPM Corrected for G-M Tube	Grade $\%_e U_3O_8$	Remarks
II-1	139.0		2.2-135.7	37.4- 38.2	0.8	1750				
II-2	164.0	0.0	5.3-123.4	Barren						
II-3	144.0	0.0	5.6-139.5	13.1- 15.1	2.0	340			0.010	
				18.5- 19.8	1.3	320			0.010	
				26.5- 27.7	1.2	260			0.010	
				49.5- 50.3	0.8	240			0.010	
				128.3-130.4	2.4	240			0.005	
				132.6-139.5	6.9	360			0.010	
II-4	137.0	0.0	5.4-136.2	104.9-112.1	7.2	460			0.010	
II-5	?	0.0	5.2- 91.5	13.3- 14.2	0.9	220			0.005	
				28.9- 30.0	1.1	640			0.018	
				32.8- 34.0	1.2	400			0.010	
II-9	111.8	0.0	0.0-107.3	0.2- 2.6	2.4	1700			0.035	Hole contaminated, possibly radon gas.
				12.8- 13.9	1.1	1600			0.040	
				13.9- 16.0	2.1	1200			0.023	
II-10	115.5	0.0	2.8-111.1	98.1- 99.3	1.2	240			0.005	
				106.8-111.1	4.3	420			0.010	
II-11	131.0	0.0	0.0- 78.3	3.3- 5.0	1.7	200			0.005	
				11.0- 12.1	1.1	220			0.005	
				17.4- 18.2	0.8	3700			0.15	
				18.2- 19.0	0.8	1000			0.0235	
II-12	135.2	0.0	0.4-132.6	115.3-116.1	0.8	1400			0.038	
				124.7-125.5	0.8	900			0.034	
II-13	120.8	0.0	4.7-115.0	12.4- 13.5	1.1	300			0.010	
				16.3- 17.7	1.4	280			0.010	
				18.3- 21.3	3.0	460			0.010	

* From top to bottom depths

Gramlich Group, Blue Jay Claims
Brown's Hole, Moab area -- DMEA

GAMMA-RAY LOG INTERPRETATION

Hole No.	Depth Drilled	Depth Cased	Depth Logged From*	Depth Logged To	Anomaly Detected From*	Anomaly Detected To	Anomaly Thickness	Counts per minute	CPM Corrected for Casing	CPM Corrected for G-M Tube	Grade $\%_e U_3O_8$	Remarks
II-14	128.1	0.0	5.3	124.5	113.4	114.9	1.5	1400			0.031	
II-15	?				16.8	19.9	3.1	370			∠0.010	
					35.6	37.0	1.4	430			∠0.010	
					38.8	40.1	1.3	300			∠0.010	
					40.1	41.0	0.9	340			∠0.010	
					69.5	70.5	1.0	300			∠0.010	
					96.2	97.7	1.5	510			0.011	
					97.7	100.8	3.1	360			∠0.010	
					115.8	116.8	1.0	1200			0.028	
					118.5	120.0	1.5	430			∠0.010	
II-16	118.2	0.0	7.8	115.9	112.1	113.0	0.9	34000			1.3	
II-17	118.2	0.0	7.6	118.9	86.8	88.9	2.1	240			∠0.005	
					101.7	102.8	1.1	240			∠0.005	
					104.3	105.3	1.0	520			0.014	
					114.5	115.5	1.0	360			∠0.010	
II-18	123.0	0.0	1.7	123.0	20.9	25.3	4.4	260			∠0.005	
					100.3	104.1	3.8	360			∠0.010	
					121.1	123.0	1.9	320			∠0.010	
II-19	127.0	0.0	2.9	127.0	18.7	19.7	1.0	360			∠0.010	
					108.7	109.7	1.0	240			∠0.005	
					112.9	116.2	3.3	440			∠0.010	
					116.2	116.9	0.7	800			0.026	
					116.9	117.9	1.0	1600			0.042	
					117.9	120.3	2.4	440			∠0.010	
					120.3	122.0	1.7	300			∠0.005	
					125.5	126.3	0.8	360			∠0.010	
II-20	130.7	0.0	5.0	128.7	125.9	127.1	1.2	33000			1.1	
					127.1	127.8	0.7	6000			0.35	
					127.8	128.7	0.9	17000			∠0.60	

* From top to bottom depths

GAMMA-RAY LOG INTERPRETATION

Gramlich Group, Blue Jay Claims
Brown's Hole, Moab area -- DMEA

Hole No.	Depth Drilled	Depth Cased	Depth Logged From* To	Anomaly Detected From* To	Anomaly Thickness	Counts per minute	CPM Corrected for Casing	CPM Corrected for G-M Tube	Grade $\%_e U_3O_8$	Remarks
III-11	192.2	0.0	7.4-190.4	Barren						
III-12	183.0	0.0	33.8-181.8	148.9-150.8	1.9	420			∠0.010	
III-13	?			88.8- 89.9	1.1	200			∠0.005	
				107.0-107.7	0.7	7100			0.43	
				107.7-109.0	1.3	1000			0.021	
				109.0-112.1	3.1	260			∠0.005	
				220.7-221.4	0.7	2100			0.074	
III-14	219.0	0.0	6.0-217.7	134.7-135.9	1.2	500			0.012	
				137.6-138.4	0.8	660			0.022	

* From top to bottom depths

Gramlich Group, Blue Jay Claims
Brown's Hole, Moab area -- DMEA

GAMMA-RAY LOG INTERPRETATION

Hole No.	Depth Drilled	Depth Cased	Depth Logged From* To	Anomaly Detected From* To	Anomaly Thickness	Counts per minute	CPM Corrected for Casing	CPM Corrected for G-M Tube	Grade $\%_e U_3O_8$	Remarks
DD-14	154.0		0.2-148.2	Barren						
DD-16	?		4.9-127.1	25.7- 28.9	3.2	540			0.011	
				103.0-125.5	Contaminated					
				126.0-126.7	0.7	1200			0.035	

* From top to bottom depths

224 New Customhouse
Denver 2, Colorado

April 26, 1955

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 2771 (Uranium), Contract Idm-E577, Gramlich Exploration Co., San Juan County, Utah

Enclosed are four copies of project work approval issued by the DMEA Field Team, Region III, relative to work under Stage III of the subject contract. Also enclosed are four sets of data relevant to the matter.

W. M. Traver

W. M. Traver

Enclosures

JWT:jp
cc Subject
Chron
Harshman w/encls
Williams "
Wilson "
Christensen w/copy work approval
Townsend

[illegible] New Customhouse
Denver 2, Colorado

April 22, 1955

Mr. J. V. Grenlich, Sr.
Grenlich Exploration Company
Moab, Utah

Re: Docket DMEA 3773 (Uranium)
Contract IAm-8577

Dear Mr. Grenlich:

Consistent with the stipulation in Contract IAm-8577 relative to the authorization of drilling under Stage III, and confirming verbal approval of March 29, 1955, the remaining footage under Stage III will be expended in drilling holes at the locations shown on the map attached hereto and made a part of this confirmation of work approval.

After the holes at locations indicated by the symbol ⊠ have been drilled, the remaining footage may be expended in drilling holes at any of the locations indicated by the symbol ⊕. The selection of locations of holes indicated by the latter symbol will be those indicated to be most favorable based on the results of prior drilling.

Nothing in this work authority shall be construed to increase the estimated total cost of the project, the amount of the Government's contribution, or any item of allowable cost which is expressly designated "allowable maximum".

Very truly yours,

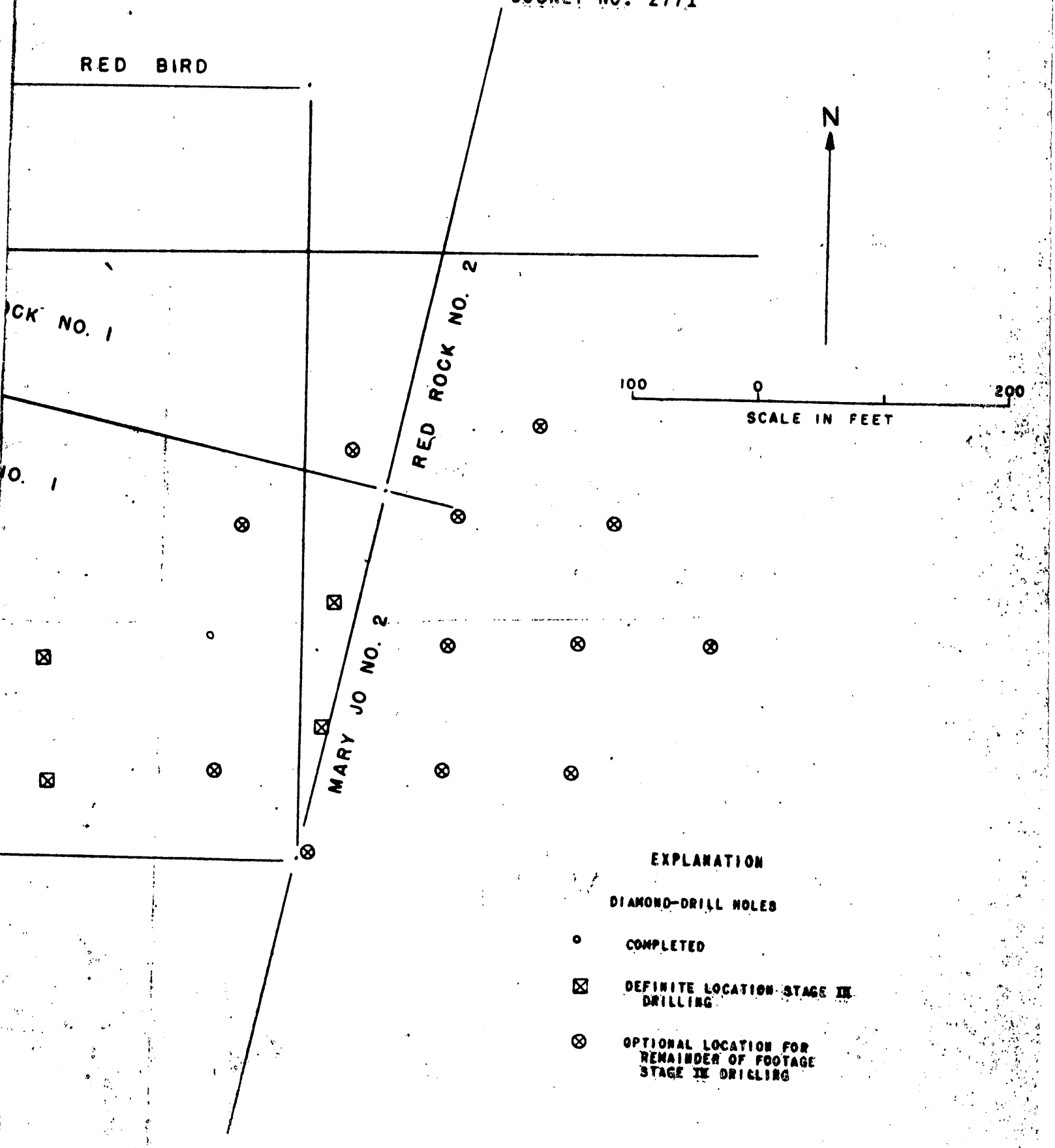
DMEA Field Team, Region III

By W. M. Sawyer
W. M. Sawyer

By E. N. Hawkinson
E. N. Hawkinson

JWF:jp
cc Chairman, Op. Comm. (4)
Hawkinson
Williams
Wilson
Christensen
Amendment File
Subject
Green
Greenwood

DEFENSE MINERALS EXPLORATION ADMINISTRATION
DOCKET NO. 2771



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

DMEA
Date Rec'd.
APR 11 1955
BUREAU OF MINES
Denver, Colorado

April 8, 1955

Memorandum

To: Field Team, Region III

From: E. N. Harshman

Subject: DMEA Docket 2771 (Uranium), Contract Idm-E 577, Gramlich Exploration Company, San Juan County, Utah

Enclosed are 10 copies of a memorandum report by G. W. Weir, U. S. Geological Survey, outlining the remaining holes to be drilled under stage 3 of the above subject contract.

The memorandum is self-explanatory and includes a map showing the locations of the proposed holes and a summary of the Barnaby logs of holes No. 1 to No. 10, inclusive. On March 29, 1955, Gramlich was given verbal authority to proceed with the drilling outlined by Weir.

E. N. Harshman

E. N. Harshman
Member, Field Team

Enclosures (10)

MINERAL DEPOSITS
DMEA
RECEIVED
APR 6 1955
U. S.
GEOLOGICAL SURVEY,
DENVER, COLORADO

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

March 29, 1955

Memorandum

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

From: G. W. Weir Through: W. P. Williams

Subject: Location of holes for remaining footage of stage 3 of DMEA 2771 (Uranium), Gramlich group of claims, Brown's Hole area, San Juan County, Utah

Drilling of the first 10 holes of stage 3 at the Gramlich group of claims has been completed. The preliminary geologic results of this work suggests that potentially ore-bearing area may be extended to the east from the area previously drilled and, therefore, I recommend that the Operator be authorized to proceed at once with the remainder of stage 3 drilling.

According to the Operator, 2043.5 feet remain to be drilled in stage 3. Drilling depths are estimated to average slightly less than 200 feet, allowing a maximum of 10 or possibly 11 holes yet to be drilled. The recommended location of 4 holes to be drilled are specified on the accompanying map. Because the detailed geology of this area is difficult to predict, it is recommended that the remaining 6 or 7 holes be selected by the Operator from the 12 optional hole locations shown on the accompanying map. The locations should be selected by the Operator on the basis of the geologic information developed by drilling the first 4 holes of this final drilling.

G. W. Weir

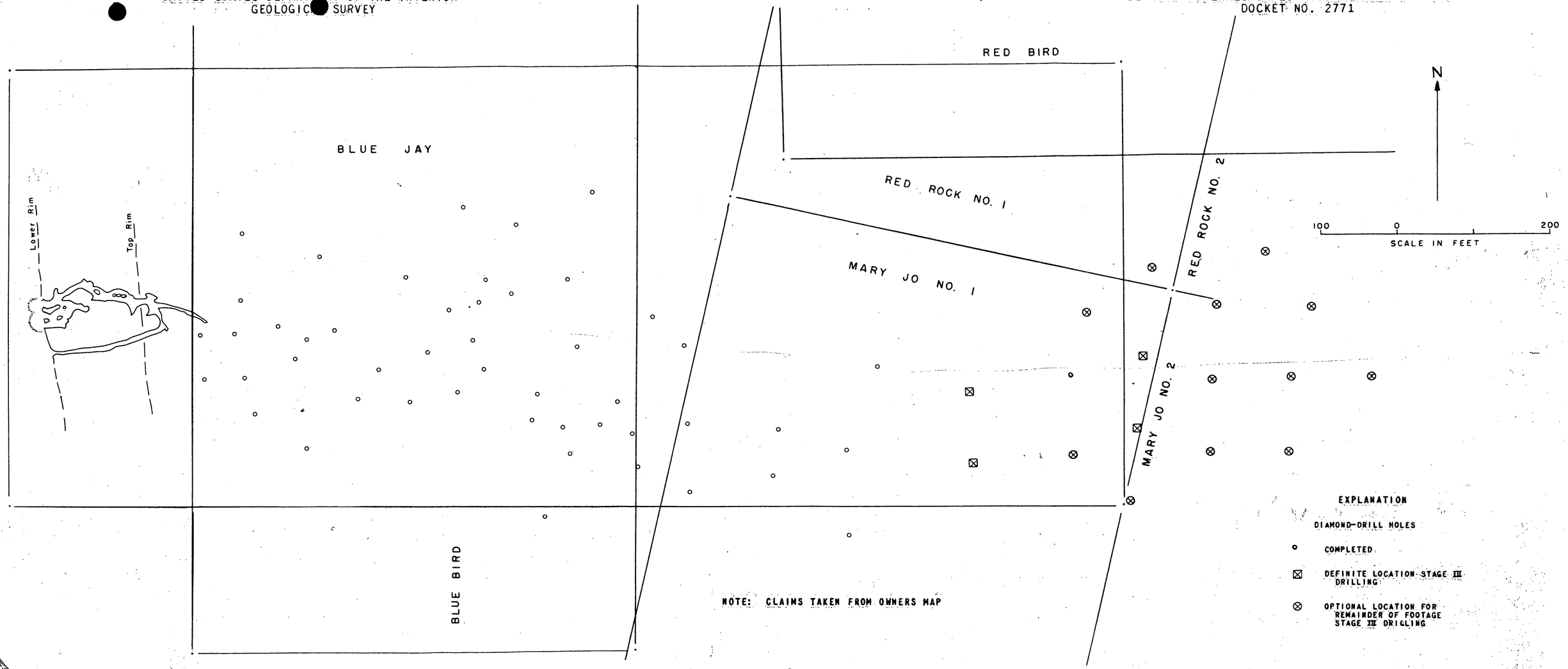
G. W. Weir,
Geologist

GWW/mlr

Enclosure

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
DOCKET NO. 2771



MAP SHOWING HOLES DRILLED IN STAGE I, STAGE II AND PART OF STAGE III AND PROPOSED DRILL HOLE LOCATIONS FOR REMAINDER OF STAGE III
BLUE JAY CLAIMS, GRAMLICH MINERALS INC., SAN JUAN COUNTY, UTAH

GAMMA-RAY LOG INTERPRETATION

Blue Jay - Gramlich Group
San Juan County, Utah -- DMEA

Hole No.	Depth Drilled	Depth Cased	Depth Logged From* To	Anomaly Detected From* To	Anomaly Thickness	Counts per minute	CPM Corrected for Casing	CPM Corrected for G-M Tube	Grade $\%_e U_3O_8$	Remarks
1	120.0	0.0-	3.3-119.1	14.2 - 20.7	6.5	240			<0.005	
				23.0 - 24.0	1.0	300			<0.010	
				24.2 - 25.6	1.4	200			<0.005	
				37.6 - 39.1	1.5	200			<0.005	
				72.3 - 73.5	1.2	200			<0.005	
				85.6 - 86.4	0.8	200			<0.005	
2	117.7	0.0	3.8-117.1	5.4 - 6.1	0.7	200			<0.005	
				44.0 - 44.5	0.5	200			<0.010	
				80.2 - 80.5	0.3	240			<0.010	
				81.6 - 82.2	0.6	220			<0.010	
				90.8 - 91.8	1.0	200			<0.005	
3	120.0	0.0	5.1-117.5	Barren						
4	189.7	0.0	1.6-186.3	52.1 - 52.8	0.7	200			<0.005	
				70.7 - 72.7	2.0	200			<0.005	
				136.3 - 137.1	0.8	200			<0.005	
				148.0 - 148.8	0.8	240			<0.010	
				149.7 - 150.1	0.4	200			<0.010	
				164.2 - 165.0	0.8	200			<0.005	
				165.6 - 167.2	1.6	200			<0.005	
				167.2 - 168.1	0.9	400			<0.010	
5	191.3	0.0	3.7-187.0	Barren						
6	197.4	0.0	2.0-194.6	Barren						
7	194.7	0.0	5.4-169.8	84.8 - 85.5	0.7	2200			0.084	
8	133.8	0.0	6.4-133.0	Barren						
9	156.2	0.0	6.9-155.3	Barren						
10	202.5	0.0	5.2-197.6	193.4 - 194.3	0.9	30,500			1.1	
				194.3 - 196.4	2.1	1200			0.023	
				196.4 - 197.6	1.2	2200			0.059	

* From top to bottom depths

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Colorado Plateau District
P. O. Box 360
Grand Junction, Colorado

DMEA
Date Rec'd.
MAR 30 1955
BUREAU OF MINES
Denver, Colorado

March 29, 1955

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

Re: DMEA 2771, contract Idm-E 577
Stage III hole locations

Dear Mr. Traver:

Please consider this as my request for permission to complete 2043.5 feet of drilling in the final phase of stage III of the subject contract. The drill holes will be located as shown on the attached map. The hole locations on the map have been discussed with G. W. Weir, C. L. Dodson, and W. P. Williams of the U.S.G.S. The drilling plan has my concurrence and agreement.

Sincerely yours,

J. W. Gramlich

J. W. Gramlich

cc: E. N. Harshman

DMEA
Date Rec'd
MAR 17 1955
BUREAU OF MINES
Denver, Colorado

Moab, Utah
March 15, 1955

Mr. W. M. Traver
Executive Officer, D. M. E. A.
Field Team, Region III
224 New Custom House
Denver 2, Colorado

DMEA
Date Rec'd
MAR 17 1955
BUREAU OF MINES
Denver, Colorado

Re: Docket DMEA- 2771 (Uranium)
Contract - IDM-E- 577

Dear Sir;

As per your letter of March 9, 1955, submitted here with are six copies of a map showing locations of proposed holes to cover balance of phase three (2043.5 ft.).

It is proposed to drill holes III - 11 to III - 16 inclusive where shown on the map.

The location of holes III - 17 to III - 20 inclusive will be determined after the results of the III - 11 to III - 16 are determined.

Yours Very Truly,
John W. Gramlich Sr.
John. W. Gramlich, Sr.

cc W. P. Williams
US Geological Survey,
Grand Junction, Colorado

Also copy of map
sent to Mr Williams
J.W.G.

224 New Customhouse
Denver 2, Colorado

April 5, 1955

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 2771 (Uranium), Contract Idm-E577, Gramlich Exploration Company, San Juan County, Utah

Enclosed are the original and two copies of Amendment No. 5 to Contract Idm-E577 which has been executed to extend the period for completion of the project work from March 1, 1955 to on or before June 30, 1955. Also enclosed are three copies of the operator's letter requesting the extension.

Copies of the amendment have been given to the operator, the Finance Office, Region III, and a copy has been retained for our files.

W. M. Traver

W. M. Traver

Enclosures

JWT:jp
cc Subject
Chron
Harshman) with
Wilson) copy
Williams) of
Townsend) amend-
Christensen) ment

224 New Customhouse
Denver 2, Colorado

April 5, 1955

Mr. J. W. Gramlich, Sr., President
Gramlich Exploration Company
Moab, Utah

Re: Docket DMEA 2771 (Uranium)
Contract Idm-E577

Dear Mr. Gramlich:

Enclosed is your copy of Amendment No. 5 to Contract Idm-E577.

Very truly yours,

W. M. Traver

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

Enclosure

JWT:jp
cc Subject
Chron
Townsend

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

March 8, 1955

Re: Docket DMEA 2771
Contract Idm-E577

Dear Mr. Traver:

In reference to your letter of March 8, 1955, it is estimated that an additional four months will be required to complete the exploration work under Contract Idm-E577, therefore this constitutes my request that the period for completion of the project work be extended an additional four months.

Very truly yours,

GRAMLICH EXPLORATION COMPANY

J. W. Gramlich Sr.

J. W. Gramlich, Sr.

224 New Customhouse
Denver 2, Colorado

March 22, 1955

Memorandum

To: W. P. Williams

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 2771 (Uranium), Contract Idm-E577, Gramlich Exploration Company, San Juan County, Utah

We are in receipt of a letter from John W. Gramlich dated March 15, 1955 with attached map relative to additional drilling under Stage III of the contract.

The letter indicates that you were furnished a copy of it, also a copy of the map, therefore we will not forward additional copies to you for your use in submitting your recommendations relative to the operator's request.

W M Traver

W. M. Traver

JWT:jp
cc Subject
Chron
Harshman
Wilson
Townsend

224 New Customhouse
Denver 2, Colorado

March 21, 1955

Mr. J.W.Gramlich, Sr., President
Gramlich Exploration Company
Moab, Utah

Re: Docket DMEA 2771 (Uranium)
Contract Idm-E577

Dear Mr. Gramlich:

Enclosed are the original and five copies of Amendment No. 5 to Contract Idm-E577 which has been prepared in conformance with your request of March 8, 1955 to extend the period for completion of the project work from March 1, 1955 to on or before June 30, 1955.

All copies of the amendment should be signed by you and returned to this office leaving the date blank.

Upon signature by the Executive Officer, DMEA Field Team, Region III for the Government, your copy will be forwarded to you.

Very truly yours,

W. M. Traver

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

Enclosures

JWT:jp
cc Subject
Chron
Wilson
Williams
Townsend
Harshman

224 New Customhouse
Denver 2, Colorado

March 9, 1955

Mr. John W. Gramlich, Sr.
Gramlich Exploration Co.
Moab, Utah

Re: Docket DMEA 2771 (Uranium)
Contract Idm-E577

Dear Mr. Gramlich:

Confirming an agreement reached between you and this office on your visit here March 8, 1955, and in compliance with stipulations in the third paragraph of our letter to you of January 12, 1955, you are to submit a written request with a map showing the location and estimated depths of the balance of the holes proposed for drilling under Stage III of the contract before any further action will be taken by this office relative to the approval for the drilling.

To expedite the matter we suggest that your written request for Government approval for the drilling and the map be forwarded to this office through W. P. Williams, U. S. Geological Survey, Grand Junction, Colorado.

Very truly yours,

W. M. Traver

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

JWT:jp
cc Subject
Chron
Harshman
Williams
Wilson
Townsend

224 New Customhouse
Denver 2, Colorado

March 8, 1955

Mr. J. W. Gramlich
Moab, Utah

Re: Docket DMEA 2771
Contract Idm-E577

Dear Mr. Gramlich:

Your attention is directed to the provisions of Amendment No. 4 which establishes March 1, 1955 as the date on or before which work is to be completed under Contract Idm-E577.

If the work was not completed and you are desirous of maintaining the contract in force subsequent to March 1, 1955 you should advise this office of the facts and request a further extension of the completion date for such additional time as you contemplate will be necessary to enable you to complete the work.

We will appreciate a reply at your earliest convenience.

Very truly yours,

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

JWT:jp
cc Subject
Chron
Harshman
Williams
Wilson
Townsend

224 New Customhouse
Denver 2, Colorado

January 27, 1955

Mr. J.W. Gramlich
Moab
Utah

Re: Docket DMEA 2771 (Uranium)
Contract Idm-E577

Dear Mr. Gramlich:

Reference is made to your letter of January 21, 1955, to the attention of Stephen R. Wilson, Salt Lake City, relative to a $100.00 shortage in a check constituting reimbursement to you on your Progress Report and Voucher for the months of October and November 1954.

The Finance Office inadvertently failed to advise you that the amount of $100.00 had been held from reimbursement to you pending approval of Stage III work. Inasmuch as Stage III work has been approved in the interim, the amount of $100.00 will be reinstated and reimbursement made to you along with the next Form MF-104 Operator's Progress Report and Voucher you submit relative to work performed under the contract.

Very truly yours,

W.M. Traver

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

JWT:jp
cc Subject
Chron
Harshman) with
Christensen) copy
Wilson) opr's
Townsend) ltr
Williams) 1-21-55

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

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

January 25, 1955

Memorandum

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

From: Stephen R. Wilson

Subject: Docket No. DMEA-2771 (Uranium), Contract Idm-E377, Gramlich Exploration Co., San Juan County, Utah

Attached is one copy of a letter received from the subject operator. It appears from records available here that an error has been made in preparation of a check mailed to the operator. Will you please determine the proper payment to the operator and advise him?

Stephen R. Wilson

Enclosure

Moab, Utah
Jan. 21, 1955

U. S. Dept. Interior
Attention: Stephen R. Wilson, Chief, M.D. Branch
Salt Lake City, Ut.

Dear Mr. Wilson:

A check has just been rec'd. from U. S. Treasurer in the amt. $4,724.77 which should be 90% of Oct. and Nov. drlg. costs. From progress report, you will see that we drilled 1,370.40 ft. at 3.89 per ft. + 30.00 dozer wk. or 5,360.86 less 10%

	5,360.86
less 10%	536.08

$4,824.78 . Check should have been this amt? Please advise of reason for above, if any.

After approx. 2 mo. delay for U.S.G.S. to tell us where we might drill, we have been allowed to proceed and now are drilling on 4th hole under phase three.

Please let us hear from you as per above.

Very truly yours and personal regards,

/s/ J. W. Gramlich, Sr.

C O P Y

224 New Customhouse
Denver 2, Colorado

January 21, 1955

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 977A (Uranium), Contract 14m-977, Grenlich Exploration Co., San Juan County, Utah

Enclosed for your records are three copies of the Field Team's approval of a portion of the work to be performed under Stage III of the subject contract. Also enclosed are four sets of data relative to the work authorization.

W. M. TRAVER

W. M. Traver

Enclosures

JWT:jp
cc Subject
Amendment
Chron
Christensen
Marshman)
Williams) w/encls
Wilson)
Townsend

224 New Customhouse
Denver 2, Colorado

January 21, 1955

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 2771 (Uranium), Contract IAm-[illegible],
Gremlich Exploration Co., San Juan County, Utah

Enclosed for your records are three copies of the Field Team's approval of a portion of the work to be performed under Stage III of the subject contract. Also enclosed are four sets of data relative to the work authorization.

W. M. Traver

W. M. Traver

Enclosures

JWT:jp
cc Subject
Amendment
Chron
Christensen
Marshman
Williams } w/encls
Wilson
Townsend

224 New Customhouse
Denver 2, Colorado

January 12, 1955

Mr. John H. Grenlich, Sr.
Grenlich Exploration Company
Moab, Utah

Re: Docket DMEA 2771 (Uranium)
Contract 16m-1577

Dear Mr. Grenlich:

Consistent with the stipulations in Contract 16m-1577 relative to the authorization of work under Stage III, and confirming DMEA Field Team, Region IV approval by telephone of January 5, 1955, you are authorized to purchase the drilling of 10 drill holes under Stage III of the contract at the location shown on the map, Figure 1, entitled "Map of Preliminary Results of Holes Drilled in Stages I and II and Proposed Drill Hole Locations for Stage III, Blue Jay Claim, Grenlich Minerals, Inc. Group of Claims, Brown's Hole Area, San Juan County, Utah" which is attached hereto and made a part of this confirming work approval.

The approval of additional holes to be drilled under Stage III of the contract will be contingent on the results and conditions encountered in drilling the first 10 holes outlined above.

Upon completion of the 10 holes approved hereby, it will be necessary for you to request in writing approval of any additional holes, such request to contain a map showing the additional holes requested in relation to the prior drilling, and furnish an analysis of the results of the prior drilling.

Nothing in this work authority shall be construed to increase the estimated total cost of the project, the amount of the Government's contribution, or any item of allowable cost which is expressly designated "allowable maximum".

Very truly yours,

JWT:jr
cc Chairman, Op.Comm. 5
Harshman
Williams
Wilson
Christensen
Subject
Audit.
Chron
Townsend
w/encl

W. H. KING
W. H. King

E. N. Harshman
E. N. Harshman

DMEA Field Team, Region IV

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
DOCKET 2771

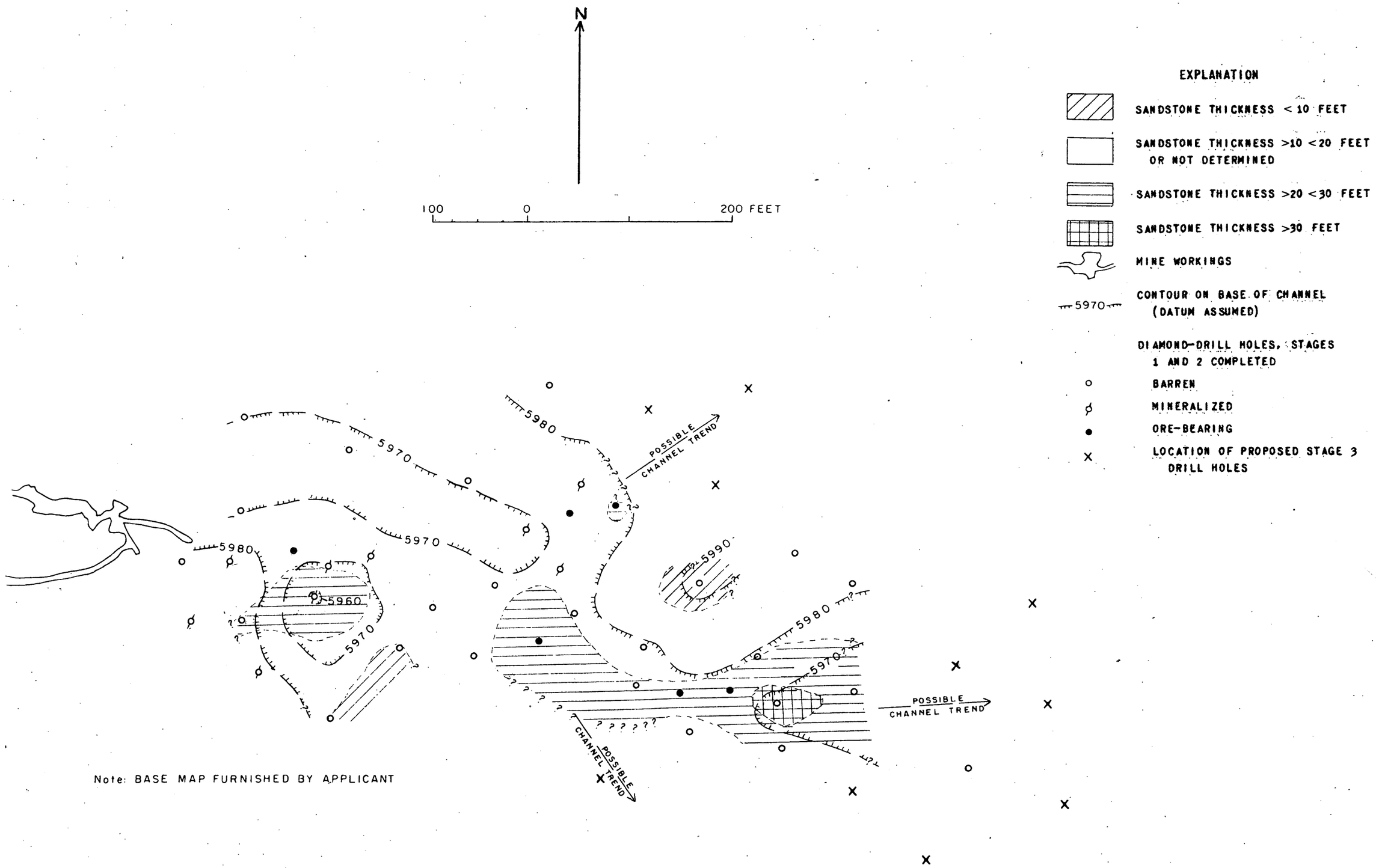


Figure 1. MAP SHOWING PRELIMINARY RESULTS OF HOLES DRILLED IN STAGES 1 AND 2, AND PROPOSED DRILL HOLE LOCATIONS FOR STAGE 3
BLUE JAY CLAIM, GRAMLICH MINERALS INC. GROUP OF CLAIMS, BROWNS HOLE AREA, SAN JUAN COUNTY, UTAH

1.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 1, UTAH

January 11, 1955

Memorandum

To: Executive Officer, DMEA Field Team, Region IV

From: Stephen R. Wilson

Subject: Docket No. DMEA-2771 (Uranium), Contract Idm-E577, Gramlich Exploration Co., San Juan County, Utah

The subject project was inspected by M. M. Gilkey December 16, 1954. As of the inspection date, diamond drilling permitted under Stage II was complete. The operator was awaiting recommendations concerning Stage III as of the inspection date.

This office is in accord with diamond-drilling recommendations for Stage III submitted by the Geological Survey, Grand Junction, Colorado.

Stephen R. Wilson
Stephen R. Wilson

Defense Minerals Exploration Administration
Denver Federal Center
Denver 2, Colorado

January 10, 1955

Memorandum

To: Field Team, Region IV

From: E. N. Harshman

Subject: DMEA Docket 2771 (uranium) Gramlick Minerals Inc., — Browns Hole area, San Juan County, Utah; Contract Idm-E 577

Enclosed are 10 copies of a memorandum report by Gordon W. Weir, U. S. Geological Survey, covering work completed in stages 1 and 2 of the above subject contract, and recommending approval of work under stage 3.

As shown on Figure 1, accompanying the memorandum report, ore was discovered by a number of holes drilled in stages 1 and 2. Weir's recommendation that additional exploration be authorized to explore for ore in possible channel extensions appears justified.

Verbal permission for proceeding with exploration under stage 3 was authorized by the Field team on January 5, 1954. Confirmation by letter to the operator is in order.

E. N. Harshman

E. N. Harshman
Member, Field Team

Enclosures 10

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
COLORADO PLATEAU DISTRICT
GRAND JUNCTION, COLORADO

January 6, 1955

Memorandum

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

From: W. P. Williams

Subject: DMEA 2771, Gramlich Minerals, Inc. Contract Idm-E 577

Attached hereto is a memo report by Gordon W. Weir, covering exploration work performed under the subject contract. The operator has requested permission to commence stage 3 of the contract and Weir concludes that since results obtained in stages 1 and 2 were favorable, that permission be granted by the Field Team to allow the operator to perform stage 3 under the contract. I concur with Weir's recommendations.

On January 5, 1955, I was given permission by the DMEA Field Team to give verbal permission to the operator to commence stage 3 drilling under the contract. Contract Idm-E 577 calls for written permission from the DMEA Field Team. Written permission should, therefore, be granted the operator.

WPWilliams

W. P. Williams,
Geologist

WPW/mlr

Enclosures

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

December 31, 1954

Memorandum

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

From: G. W. Weir Through: W. P. Williams

Subject: DMEA 2771 (Uranium). Gramlich group of claims, Browns Hole area, San Juan County, Utah

Drilling of stages 1 and 2 at the Gramlich group of claims has been completed. The preliminary geologic results of this work are presented in figure 1. These results are judged favorable and I, therefore, recommend that the operator be authorized to proceed at once with stage 3 drilling.

Stage 3 work is described in the amended contract as "Diamond drill a maximum of 3,580 feet of holes on the Blue Jay or adjacent claims on a grid pattern of 100 feet with a minimum of 50-feet spacing from any hole drilled under stage 1 or stage 2". The recommended locations of the first 10 holes of stage 3 drilling are shown on figure 2. These holes are located so as to give information concerning possible extensions of the channel system with which the uranium ore appears to be associated. On the basis of information furnished by the first 10 holes of stage 3, subsequent holes up to the maximum allowed footage should be located so as to continue to extend known channel trends. The locations of the remaining holes of stage 3 work are to be subject to the prior approval of the Government and will depend largely on the results of the first 10 holes and conditions encountered as drilling progresses.

Gordon W. Weir

GWW/mlr

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
DOCKET 2771

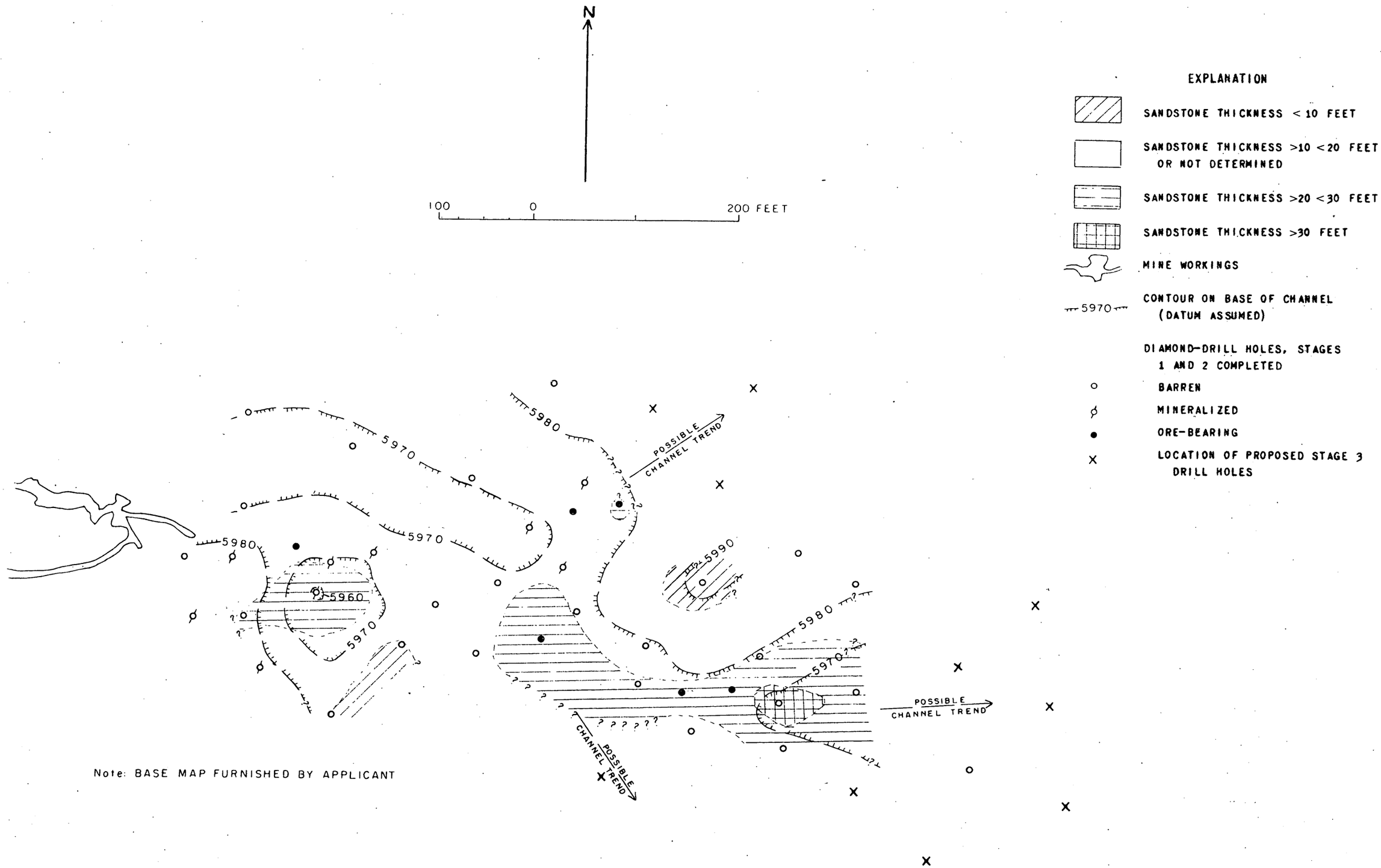


Figure 1. MAP SHOWING PRELIMINARY RESULTS OF HOLES DRILLED IN STAGES 1 AND 2, AND PROPOSED DRILL HOLE LOCATIONS FOR STAGE 3
BLUE JAY CLAIM, GRAMLICH MINERALS INC. GROUP OF CLAIMS, BROWNS HOLE AREA, SAN JUAN COUNTY, UTAH

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

November 26, 1954

Mining Division
Date Rec'd.
NOV 29 1954
BUREAU OF MINES
Denver, Colorado

Mr. J. W. Gramlich, Sr.
Box 435
Moab, Utah

Re: Docket No. DMEA-2771
Contract Idm-577

Dear Mr. Gramlich:

We have received the corrected copies of your August and September 1954 MF-104 forms covering the above referenced contract. You have inadvertently omitted signature on one copy of the August MF-104 form. This form is attached. Will you kindly sign the form and return it to this office?

Very truly yours,

Stephen R. Wilson

Stephen R. Wilson, Chief
Minerals Development Branch
Mining Division, Region IV

cc: W. H. King (2)
SL File
DF

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

Mining Division
Date Rec'd.
NOV 18 1954
BUREAU OF MINES
Denver, Colorado

November 16, 1954

Mr. J. W. Gramlich, Sr.
Gramlich Exploration Co.
Box 435
Moab, Utah

Re: Docket No. DMEA-2771,
Contract Idm-E577

Dear Mr. Gramlich:

We have checked the MF-104 forms submitted to this office for work performed during August and September under the above-referenced contract, and find errors and omissions. The forms are herewith returned. Also attached are corrected forms for the two months, prepared in this office. Please sign the original and four copies of the forms for each month, and return them to this office. One copy of the MF-104 and MF-104(A) forms for each month may be retained for your file.

You have not prepared a sufficient distribution of costs on the MF-104 or MF-104(A) forms. The contract and amendments thereto allow diamond drilling, bulldozing and sample analysis, and all should be shown on the forms with applicable expenditures. Please note that Amendment No. 1 allows a charge of $3.00 for each sample analyzed. You have reported analytical work on five samples, totaling $25.00, or $5.00 for each sample. Your narrative report for September 1954 mentions the charge for the analytical work; therefore this expenditure should not be shown on the August forms, but on the September forms. Your narrative reports for the two months and the maps attached to the MF-104 forms will be retained here. This information will be attached to the corrected forms as soon as they are signed and returned to this office.

Very truly yours,

Stephen R. Wilson

Stephen R. Wilson, Chief
Minerals Development Branch
Mining Division, Region IV

Enclosure
cc: W. H. King (2)
file
df

224 New Customhouse
Denver 2, Colorado

November 3, 1954

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket DMEA 2771 (Uranium), Contract Idm-E577, Granlich Exploration Company, San Juan County, Utah

In reference to your letter of November 1, 1954, we are enclosing the original and two copies of Amendment No. 4 to Contract Idm-E577 and memorandum of transmittal thereof dated October 25, 1954, all of which have been signed by the Executive Officer, DMEA Field Team, Region IV.

W. H. King

Enclosures

JWT:jp
cc Subject
Chron
Townsend

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

Mining Division
Date Rec'd.
NOV 3 - 1954
BUREAU OF MINES
Denver, Colorado

NOV 1 - 1954

re: Docket No. DMEA-2771 (uranium)
Contract No. Idm-E577
Gramlich Exploration Company
San Juan County, Utah

Mr. W. H. King
Executive Officer
DMEA Field Team, Region IV
Bureau of Mines
224 New Customhouse Building
Denver 2, Colorado

Dear Mr. King:

This will acknowledge your memorandum dated October 25, 1954, in which you transmitted the original and two copies of Amendment No. 4 to Contract Idm-E577, Docket No. DMEA-2771 (uranium), Gramlich Exploration Company, San Juan County, Utah.

Neither the memorandum or copies of the Amendment were signed and they are returned herewith for signature.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee

Enclosures

APPROVED:

J. H. Hedges
Member, Bureau of Mines

Thor H. Gilsgaard
Member, Geological Survey

224 New Customhouse
Denver 2, Colorado

October 25, 1954

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket DMEA 2771 (Uranium), Contract Idm-E577, Gramlich Exploration Company, San Juan County, Utah

Enclosed are the original and two copies of Amendment No. 4 to Contract Idm-E577 which has been executed to extend the period for completion of the project work from October 1, 1954 to March 1, 1955. Also enclosed are three copies of the operator's letter requesting the amendment.

Copies of the amendment have been given to the operator, the Finance Office, Region IV, and a copy has been retained for our files.

W. H. King

Enclosures

JWT:jp
cc Subject
Chron
SRWilson) with
AHKoschmann) copy
TAChristensen) of
JWTownsend) amdt.

224 New Customhouse
Denver 2, Colorado

October 25, 1954

Mr. John W. Gramlich, Sr., President
Gramlich Exploration Company
Moab, Utah

Re: Docket DMEA 2771 (Uranium)
Contract Idm-E577

Dear Mr. Gramlich:

Enclosed is your copy of Amendment No. 4 to Contract Idm-E577 which has been executed to extend the period for completion of the project work from October 1, 1954 to March 1, 1955.

Very truly yours,

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

Enclosure

JWT:jp
cc Subject
Chron
SRWilson
JWTownsend

Mining Division
Date Rec'd,

OCT 4 - 1954

BUREAU OF MINES
Denver, Colorado

Moab, Utah,
October 1, 1954.

Mr. W. H. King,
Executive Officer, DMEA,
Field Team, Region IV,
224 New Customhouse,
Denver 2, Colorado.

Re: Docket DMEA 2771 (Uranium)
Contract IDM-E577

Dear Mr. King:

Reference is respectfully made to your letter of September 28, in the above-entitled matter:

I must confess that I had overlooked the fact that the date stipulated for the completion of the work under this project was upon us, and I hasten to make application for an extension of time within which to finish this job.

Inasmuch as we have encountered various obstacles which have retarded the progress of our drilling it has been physically impossible to complete this undertaking by the date specified, although I do feel that we have made a pretty good showing for the time we have been able to carry on actual drilling operations.

Inasmuch as winter is apparently near at hand and so many things can happen to slow up drilling operations, it would be very much appreciated if we could have a six months' extension of time, or until March 31, 1955, within which to complete this project. However, I assure you that we will push for completion at the earliest possible date.

Thanking you for the favorable consideration I trust you will give this application and for all past assistance, I we are

Yours very truly,

Gramlich Exploration Co.,

By J. W. Gramlich Sr.

224 New Customhouse
Denver 2, Colorado

October 6, 1954

Mr. John W. Gramlich, Sr.
President
Gramlich Exploration Company
Moab, Utah

Re: Docket DMEA 2771 (Uranium)
Contract IDM-E577

Dear Mr. Gramlich:

Enclosed are the original and five copies of Amendment No. 4 to Contract IDM-E577 which we have prepared in conformance with your request of October 1, 1954 to extend the period for completion of the project work from October 1, 1954 to March 1, 1955.

All copies of the amendment should be signed by you and returned to this office leaving the date blank.

Upon signature by the Executive Officer, DMEA Field Team, Region IV, for the Government, your copy will be forwarded to you.

Very truly yours,

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

Enclosures

JWT:jp
cc Subject
Chron
SRWilson
AHKoschmann
JWTownsend

224 New Customhouse
Denver 2, Colorado

September 28, 1954

Mr. J. W. Gramlich, Sr.
Gramlich Exploration Company
Moab, Utah

Re: Docket DMEA 2771 (Uranium)
Contract IDM-E577

Dear Mr. Gramlich:

Your attention is directed to the provisions of Article 3 of Exploration Project Contract Idm-E577, as amended by Amendment No. 1, which stipulates the date for completion of the project work as October 1, 1954.

If all work authorized under the contract will not be completed by that date you should request an extension of the date for completion of the work for whatever additional time you deem necessary.

Please supply this office with the original and five copies of such a request.

Very truly yours,

W H King

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

JWT:jp
cc Subject
Chron
SRWilson
AHKoschmann
JWTownsend

S. R. Wilson Sept. 13, 1954

H. K. Thurber, Jr.

CORRESP. FILE

Docket No. RMLA 2771 (Uranium), Contract Idm-2577, Granlich Exploration Co., San Juan County, Utah. Monthly inspection, August 1954

An inspection of the subject property was made on September 2, 1954, in the company of the operator, Mr. Granlich. During the examination, the recently drilled hole sites were visited and the cores of mineralized holes were observed.

Two holes were completed since the last inspection on August 12, 1954. These were holes 13X and 11X. Hole 14X had been drilled to 134 feet at the time of the inspection. All are included in Stage 2 drilling. Hole 12X penetrated the same mineralized zone found in hole 12, but the ore encountered was 3 feet thick and of an estimated grade of 0.40 percent U_3O_8. Parts of the mineralized zone were of higher grade, but the core had not been split for assay, so no definite results are available.

The hole designated as 14X was begun before the operator had received the map attached to the written confirmation of telephoned permission, and thus was not aware of the hole locations proposed by the U. S. Geological Survey geologist, other than that the holes were to be offset from mineralized holes. However, this hole location appears to be logical and justifiable in view of the definite thickening and increase in estimated grade of the ore in hole 13 as compared to the ore in hole 12. The remainder of the holes will be on sites shown on the map.

Some delays were encountered by the operator due to the loss of the regular driller. In view of this, Mr. Granlich intends to present one set of MF-194 forms for August and September.

The core recovery in the last three holes drilled has been very good. An over-all average has been approximately 90 percent, and nearly 100 percent in the sandstone members. The cores are properly stored and marked.

H. K. Thurber, Jr.

H. K. Thurber, Jr.

224 New Customhouse
Denver 2, Colorado

August 26, 1954

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket DMEA 2771 (Uranium), Contract Idm-E577, Gramlich Exploration Company, San Juan County, Utah

Enclosed for your records are three copies of DMEA Field Team, Region IV, authorization for the performance of certain work under Contract Idm-E577. Also enclosed are three sets of data relevant to the work authorization.

W. H. King

Enclosures

JWT:jp
cc Contract
Chron
JWTownsend

224 New Customhouse
Denver 2, Colorado

August 24, 1954

Mr. J. W. Gramlich, Sr.
Gramlich Exploration Company
Moab, Utah

Re: Docket DMEA 2771 (Uranium)
Contract Idm-E577

Dear Mr. Gramlich:

Reference is made to Amendment No. 1 to Contract Idm-E577 which amended EXHIBIT "A" attached to Exploration Project Contract Form MF-200(.) (February 1952), further referring to sub-item, Stage 2, of said Amendment No. 1.

Consistent with the stipulations pertaining to the authorization of work under said Stage 2 and confirming DMEA Field Team, Region IV approval by telephone of August 17, 1954, you are authorized to perform not to exceed a maximum of 2650 feet of drilling described under said Stage 2 at locations shown on the map titled "Map Showing Holes Drilled in Stage 2 and Proposed Drill Hole Locations for Stage 2, Blue Jay Claims, Gramlich Minerals, Inc., San Juan County, Utah" which is attached hereto and made a part of this work approval.

In the event insufficient footage remains within the maximum allowable to enable completion of a hole to its objective, the hole will not be started.

Nothing in this work authority shall be construed to increase the estimated total cost of the project, the amount of the Government's contribution, or any item of allowable cost which is expressly designated "allowable maximum".

JWT:jp
Enclosure
cc Subject
Amendment
Chron
AHKoschmann w/encls
EKWilson w/encls
AButler w/encls & copy of Amdt 1
TAChristensen
Chairman, Oper. Comm.
JWTownsend
ABrokaw w/encls

Very truly yours,

W. H. King

W. H. King

A. H. KOSCHMAN

A. H. Koschmann

DMEA Field Team, Region IV

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

August 18, 1954

Memorandum

To: A. H. Koschmann, DMEA Field Team, Region IV E.W.H. for A.H.K.

From: W. P. Williams

Subject: DMEA 2771, Gramlich Minerals, Inc., Uranium, San Juan County, Utah

I am sending you herewith eleven copies each of 1) a memorandum to the DMEA Field Team, Region IV, from Gordon W. Weir, USGS, recommending that Stage II of the subject contract be approved, and 2) a letter to me from Gordon Weir, giving some of the details of Stage I drilling and reasons for approving Stage II drilling under the subject contract.

On August 17, 1954, verbal consent was given to me by the Field Team, Region IV, allowing the operator to proceed with Stage II of the contract. This verbal consent was relayed by me to the operator. Since the amended exhibit "A" of the subject contract stipulates that written permission must be given the operator by the Field Team, I assume that such written permission will be forthcoming.

We are also enclosing herewith nine extra copies of the map accompanying Gordon Weir's memorandum. Please note that the proposed locations of drill holes to be drilled under Stage II are located 50 feet from any other existing drill hole.

We are also sending copies of the memorandums and maps to Steve Wilson in Salt Lake City, in accordance with your instructions.

W. P. Williams
Geologist

WPW/mlr

Enclosures

cc: S. R. Wilson

UNITED STATES
DEPARTMENT OF THE INTERIOR
Geological Survey

August 16, 1954

Memorandum

To: DMEA field team, Region 4

From: G. W. Weir, U. S. Geological Survey /s/ G. W. Weir

Subject: DMEA 2771 (Uranium), Gramlich group, Brown's Hole area, San Juan County, Utah

On the basis of results of Stage I work at the Gramlich Group, it appears advisable to proceed at once with Stage 2 drilling. The approximate position of Stage 2 holes is shown on the accompanying map. Holes nos. 1 through 13 should be drilled first. If these do not cut any ore, the remaining footage would be allotted to a later stage of drilling.

UNITED STATES
DEPARTMENT OF THE INTERIOR
Geological Survey

Monticello, Utah
August 16, 1954

Mr. Bill Williams
U. S. Geological Survey
Box 360
Grand Junction, Colorado

Dear Bill:

Stage I of the Gramlich Claim, DMEA 2771, was completed Wednesday, August 11. Nineteen holes accounting for an aggregate of 2655 feet were drilled. Two holes, nos. 10 and 12, contained material believed to be of ore grade and thickness. Five holes, nos. 3, 4, 5, 14, and 15, showed traces of mineralized rock (vanadium). The logs of all holes of Stage I drilling will be sent to Grand Junction by the end of the month. Mineralized rock is found at three horizons, one near the surface (hole no. 4), at about 35 feet, and at about 125 feet. The lower horizon appears to be that of the Blue Jay mine and is the one probably offering the greatest possibilities. All holes, however, should be cored their entire depth.

The enclosed map is one supplied by Mr. Gramlich. Holes nos. 17, 18, and 19 are not shown; they are barren and not essential to plans for Stage 2; they lie east of holes nos. 14 and 15. The approximate location of holes 1 through 21 of Stage 2 is shown. Holes 1 through 13 should be drilled first and if these do not cut ore, the remaining footage in my opinion would be better allotted to Stage 3. I trust that the map plus the accompanying memo will satisfy DMEA requirements. Please have the map redrafted and the original returned to me.

I told Mr. Gramlich that you would try to get Stage 2 work authorized immediately by telephone to Denver, and would if possible contact him by telephone through Mr. Howard Balsey, Moab, Utah. Hope you can.

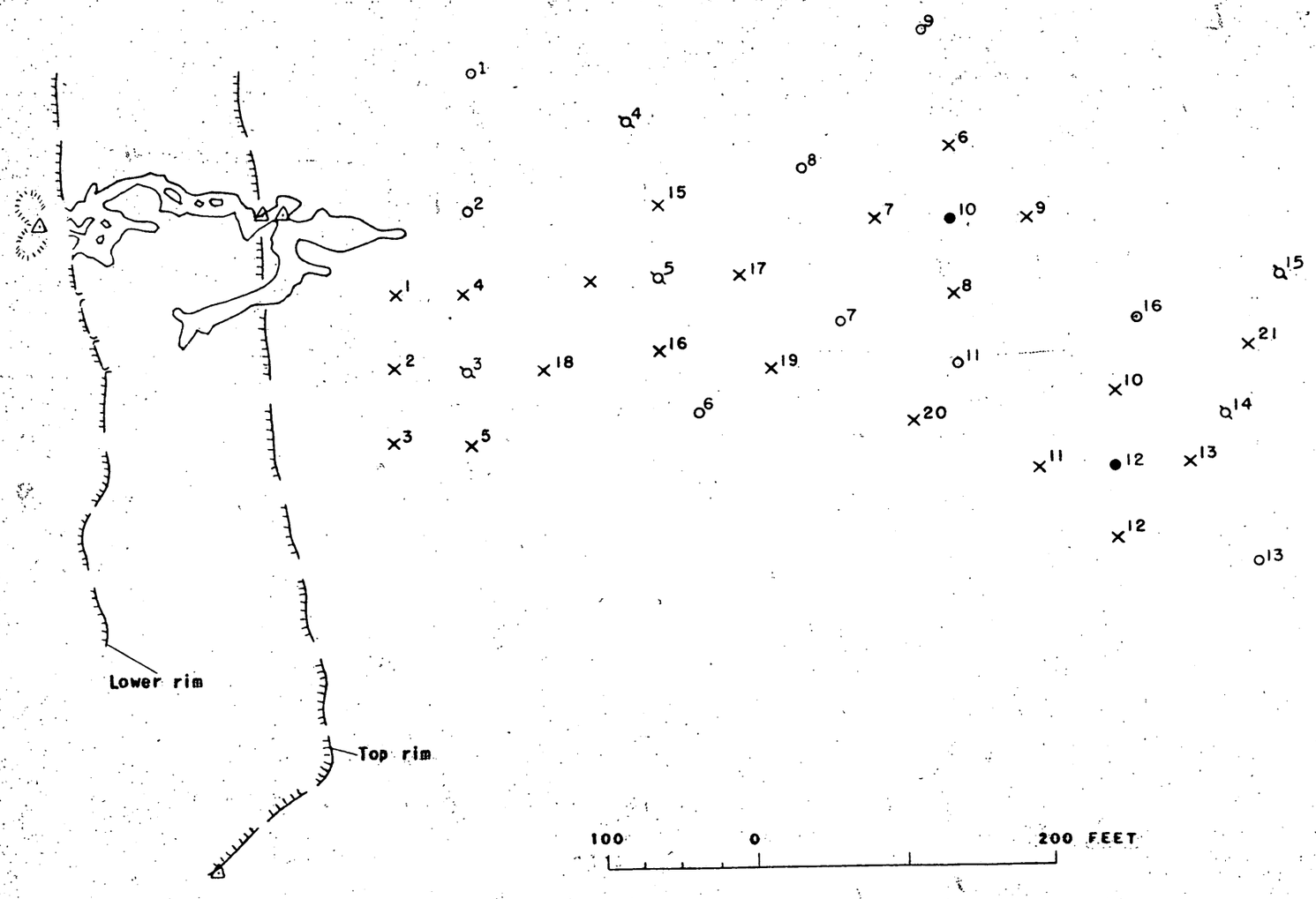
Regards,

/s/ Gordon
Gordon W. Weir

P. S. Please send three copies of the map to Steve Wilson. Mr. Gilkey, USBM, was present when I conferred with Gramlich and approved the general plan of Stage 2 work.

U. S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
DOCKET 2771



EXPLANATION

MINE WORKINGS, UNDERGROUND

ADIT

CONTROL POINT

DIAMOND-DRILL HOLE COMPLETED ON STAGE 1

- BARREN
- WEAKLY MINERALIZED
- ORE-BEARING

APPROXIMATE LOCATION OF STAGE 2 DRILL-HOLE (HOLES NOS. 1 THRU 13 ARE TO BE COMPLETED BEFORE HOLES 14 THRU 21)

NOTE: BASE FROM MAP BY SAN JUAN ENGINEERING CO.

MAP SHOWING HOLES DRILLED IN STAGE 1 AND PROPOSED DRILL HOLE LOCATIONS FOR STAGE 2.
BLE JAY CLAIMS, GRAMLICH MINERALS, INC., SAN JUAN COUNTY, UTAH

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

August 19, 1954

Mining Division
Date Received
AUG 23 1954
BUREAU OF MINES
Denver, Colorado

Mr. J. W. Gramlich, Sr.
Box 435
Moab, Utah

Re: Docket No. DMEA-2771
Contract Idm-E577

Dear Mr. Gramlich:

Enclosed are extra copies of the MF-104 and MF-104(A) forms for June and July 1954, and an extra copy of your narrative for June 1954. This information was included with reports transmitted to this office and is in excess of the number of copies required by this office.

Very truly yours,

Stephen R. Wilson

Stephen R. Wilson, Chief
Minerals Development Branch
Mining Division, Region IV

CC: W. H. King (2)
DF
File

224 New Customhouse
Denver 2, Colorado

August 12, 1954

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket DMEA 2771 (Uranium), Contract Idm-E577, Gremlich Exploration Company, Brown's Hole Area, San Juan County, Utah

Enclosed are the Government, Division, and Docket copies of Amendment No. 3 to Contract Idm-E577 which was prepared in Washington and signed by the Administrator, DMEA, for the Government, all copies of which were forwarded to this office by your letter of July 29, 1954 for signature by the operator. Also enclosed are the original and two copies of three sets of Form MF-203 Owner's Consent to Lien which have been signed by the respective owners as requested in your letter of July 29.

Copies of the Amendment have been given to the operator, the Fiscal Officer, Region IV, and a copy has been retained for our files. A copy of the Owner's Consent to lien has been given to the Fiscal Officer, Region IV, and a copy retained for our files.

W H King

W. H. King

Enclosures

JWT:jp
cc Contract
Chron
SRWilson) with
RJRoberts) copy
AHKoschmann) of
TAChristensen) amend-
JWTownsend) ment

224 New Customhouse
Denver 2, Colorado

August 12, 1954

Mr. J. W. Gramlich, Sr.
Gramlich Exploration Company
Moab, Utah

Re: Docket DMEA 2771 (Uranium)
Contract Idm-E577

Dear Mr. Gramlich:

Enclosed is your copy of Amendment No. 3 to Contract Idm-E577.

Very truly yours,

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

Enclosure

JWT:jp
cc Contract
Chron
SRWilson
JWTownsend

224 New Customhouse
Denver 2, Colorado

August 4, 1954

Mr. John W. Gramlich, Sr.
Gramlich Exploration Company
Moab, Utah

Re: Docket DMEA 2771 (Uranium)
Contract Idm-E577

Dear Mr. Gramlich:

Enclosed are the Government, Division, Docket, Finance Office, and Field Team copies of Amendment No. 3 to Contract Idm-E577 which was prepared in Washington and has been signed by the Administrator, DMEA, for the Government, to substitute the provisions of Annex II which is attached to and made a part of the amendment, in lieu of Annex I attached to the contract. The revised Annex provides that royalty on production is due and payable from April 12, 1954, in lieu of the date of the contract.

In addition we are enclosing three sets, consisting of the original and five copies, of Form MF-203 Owner's Consent to Lien, Revised July 1, 1954, which are necessary to replace the present Owner's Consent to Lien in conjunction with the amendment to the contract.

All copies of the amendment should be signed by you, and all copies of the Owner's Consent to Lien Forms should be signed by the respective owners of the properties, and returned to this office, upon receipt of which the Operator's Copy of Amendment No. 3 will be forwarded to you.

Very truly yours,

WHKing

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

JWT:jp

Encls.

cc Contract
Chron
SRWilson
AHKoschmann
JWTownsend

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

Mining Division
Date Rec'd
AUG 2 - 1954
BUREAU OF MINES
Denver Colorado

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

JUL 29 1954

Re: Docket No. DMEA-2771 (Uranium)
Contract No. Idm-E577
Gramlich Exploration Company
Brown's Hole Area
San Juan County, Utah

Dear Mr. King:

Enclosed are the original and five copies of a proposed Amendment No. 3 to the captioned contract, executed by the Administrator.

Before having the amendment signed by the Operator it will be necessary to attach new Owners' Consents to Lien on the form revised July 1, 1954. In this case the lien should cover a period of eleven years from the date of the contract instead of ten. Note enclosed sample.

Please make the usual distribution of copies of the amendment after their execution by the Operator.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee

Enclosures

APPROVED:

H. H. Nedges
Member, Bureau of Mines

Member, Geological Survey

MF-203
(Revised July 1, 1954)

OWNER'S CONSENT TO LIEN

WHEREAS, the undersigned, as owner, co-owner, lessor, or seller has an interest in certain property in the State of _____, County of _____, described as follows:1/

_____

_____

_____

_____

which is the subject of a proposed exploration project contract, hereinafter called the "contract", between the United States of America, hereinafter called the "Government", and

2/_____

_____

_____

hereinafter called the "Operator"; and

WHEREAS, under the provisions of said contract the Government is entitled to a percentage royalty on production and to other rights and equities which do or may conflict with or be adverse to the rights of the undersigned:

NOW THEREFORE, the undersigned, in consideration of said contract and as an inducement to the Government to enter into same, undertakes and agrees as follows:

1. The Government's equity in and right to dismantle, sever, take possession of, and remove and dispose of facilities, buildings, fixtures, equipment, or other items as provided in the contract or any amendment thereof shall prevail over and be prior and superior to any conflicting or adverse rights of the undersigned, and the Government is authorized to enter upon the land for such purposes.

2. To secure the payment to the Government of the percentage royalty on production3/ provided for under the terms of said exploration project contract or any amendment thereof there is hereby granted to the Government a lien upon the land above referred to and upon any production of minerals therefrom until said royalty is fully paid or ~~ten~~* years have elapsed from the date of the contract, whichever occurs first. * Substitute eleven for the word "ten."

1/ Either (a) insert the legal description of the land, or (b) strike out the words "as follows" and insert "in a lease [or contract, deed, or other document] dated _____, and recorded in book _____ page _____ official records of said county." If (b) is used, the book and page of recordation cannot be dispensed with. If the space provided is insufficient, use an Annex, and refer to the Annex in the space.

2/ Insert the name of the Operator as it will appear in the exploration project contract.

3/ Mining or production from the land is not required, and in the absence of production there is no obligation to repay the Government.

(OVER)

3. The undersigned shall commit no act nor assert any claim that may contravene or conflict with the lien, claim, or rights of the Government under the provisions of said contract. This agreement shall be binding upon the heirs, executors, administrators, successors, and assigns of the undersigned.

4. Changes and added provisions _____

_____

_____

_____

Dated this _____ day of _____, 195___.

_____ [Seal]

_____ [Seal]

_____ [Seal]

Interior—Duplicating Section, Washington, D. C.

64443

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

Mining Division
Date Rec'd
JUL 26 1954
BUREAU OF MINES
Denver, Colorado

July 22, 1954

Mr. J. W. Gramlich
Gramlich Exploration Company
Box 435
Moab, Utah

Dear Mr. Gramlich:

Reference is made to your contract with the Government under docket No. DMEA 2771, Contract Idm-E577.

The MF-104-form report for June 1954, transmitted to this office, is herewith returned for correction because of the following deficiencies:

1. The MF-104 and MF-104(A) forms should be prepared more legibly, preferably by use of a typewriter. A pencil should not be used.

2. An original and four signed copies of the narrative report should accompany the MF-104 forms.

3. It is desirable that five copies of a plan map be submitted each month, showing the location of the holes drilled during the period, the number and depth of each hole, and the depth interval in which mineralization was encountered.

4. Each attachment to the MF-104-form report should be identified as Gramlich Exploration Co., DMEA-2771.

5. All copies of the MF-104 and MF-104(A) forms and the narrative report should have your original signature affixed.

6. Your narrative report should include a notation of the period covered (June 1954, in this case).

We have prepared a set of MF-104 and MF-104(A) forms for June 1954 to enable you to more easily submit the forms for subsequent months. One copy of the forms is for your file. Please sign the forms properly and make the necessary corrections on your narrative report as noted above and return the five copies of the complete report with suggested sketches to this office.

It will assist the inspecting engineer if you mark each core box with the number of the hole and the number of the box (as hole No. 6, box No. 3). It will also be helpful if box No. 1 of each hole is marked with the starting date and the final box of each hole marked with the date of completion of the hole.

It is suggested that you discuss the analyses of core with Survey geologist Gordon Weir. He will be able to assist you in determining which core to have analyzed.

A set of MF-104 forms for use in preparing your report for July 1954 is enclosed. Additional forms will be mailed to you monthly as needed.

Very truly yours,

Stephen R. Wilson

Stephen R. Wilson, Chief
Minerals Development Branch
Mining Division, Region IV

Enclosures

cc: W. H. King (2)

file
df

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

July 22, 1954

Mr. J. W. Gramlich
Gramlich Exploration Company
Box 435
Moab, Utah

Dear Mr. Gramlich:

Reference is made to your contract with the Government under docket No. DMEA 2771, Contract Idm-E577.

The MF-104-form report for June 1954, transmitted to this office, is herewith returned for correction because of the following deficiencies:

1. The MF-104 and MF-104(A) forms should be prepared more legibly, preferably by use of a typewriter. A pencil should not be used.

2. An original and four signed copies of the narrative report should accompany the MF-104 forms.

3. It is desirable that five copies of a plan map be submitted each month, showing the location of the holes drilled during the period, the number and depth of each hole, and the depth interval in which mineralization was encountered.

4. Each attachment to the MF-104-form report should be identified as Gramlich Exploration Co., DMEA-2771.

5. All copies of the MF-104 and MF-104(A) forms and the narrative report should have your original signature affixed.

6. Your narrative report should include a notation of the period covered (June 1954, in this case).

We have prepared a set of MF-104 and MF-104(A) forms for June 1954 to enable you to more easily submit the forms for subsequent months. One copy of the forms is for your file. Please sign the forms properly and make the necessary corrections on your narrative report as noted above and return the five copies of the complete report with suggested sketches to this office.

It will assist the inspecting engineer if you mark each core box with the number of the hole and the number of the box (as hole No. 6, box No. 3). It will also be helpful if box No. 1 of each hole is marked with the starting date and the final box of each hole marked with the date of completion of the hole.

It is suggested that you discuss the analyses of core with Survey geologist Gordon Weir. He will be able to assist you in determining which core to have analyzed.

A set of MF-104 forms for use in preparing your report for July 1954 is enclosed. Additional forms will be mailed to you monthly as needed.

Very truly yours,

Stephen R. Wilson

Stephen R. Wilson, Chief
Minerals Development Branch
Mining Division, Region IV

Enclosures

cc: W. H. King (2)

file
df

STANDARD FORM No. 14
APPROVED BY THE PRESIDENT
MARCH 10, 1926

TELETYPE

TELEGRAM

OFFICIAL BUSINESS—GOVERNMENT RATES

FROM NO[illegible]g

BUREAU DMEA - Department of the Interior

CHG. APPROPRIATION 14X1401(01) Revolving Fund Defense Production Act, Interior, (Allocated Working Fund to the Office of the Secy.)

U. S. GOVERNMENT PRINTING OFFICE 10—1723

W. H. KING, EXECUTIVE OFFICER
DMEA FIELD TEAM, REGION IV
224 NEW CUSTOMHOUSE BUILDING
DENVER 2, COLORADO

JUL 14 1954

REURTT JULY 6 AND MEMORANDUM JUNE 14 GRAHLICH EXPLORATION COMPANY DOCKET 2771 WE PROPOSE AMEND CONTRACT SO ROYALTY PAYMENTS NOT REQUIRED ON PRODUCTION PRIOR APRIL 12, DATE OF AMENDMENT NO. 1 BUT IN EVENT OF CERTIFICATION ROYALTY PERIOD SHALL BE 11 YEARS FROM CONTRACT DATE. AMENDMENT WILL BE DRAWN IN WASHINGTON.

George C. Selfridge

GEORGE C. SELFRIDGE, CHAIRMAN
OPERATING COMMITTEE

Mining Division
Date Rec'd.
JUL 16 1954
BUREAU OF MINES
Denver, Colorado

SENT
JUL 14 1954
Clerical Service Section

Correspondence File

224 New Customhouse
Denver 2, Colorado

June 22, 1954

Memorandum

To: W. P. Williams

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket DMEA 2771 (Uranium), Contract Idm-E577, Gremlich Exploration Company, San Juan County, Utah

Enclosed for your information and appropriate action is a copy of a memorandum from N. K. Thurber, Jr., Mining Engineer, U.S. Bureau of Mines, dated June 17, 1954, and transmittal thereof from the Chief, Minerals Development Branch, Mining Division, Region IV, of the same date, relative to the commencement of work under the subject contract.

W. H. King

W. H. King

Enclosures

JWT:jp
cc Contract
Chron
SRWilson
AHKoschmann w/encls
JWTownsend

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 1, UTAH

Mining Division
Date Rec'd.
JUN 21 1954
BUREAU OF MINES
Denver, Colorado

June 17, 1954

Memorandum

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

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

Subject: Docket No. DMEA 2771 (Uranium), Contract Idm-E577, Gramlich Exploration Co., San Juan County, Utah

Attached are six copies of a memorandum prepared by H. K. Thurber describing initial exploration under the contract. Actual diamond drilling was begun June 8, 1954.

Conversations with the contractor indicate that the work will proceed as outlined in the contract and amendments thereto. It is believed that a geologist from the Survey office in Grand Junction should be in the area to assist in conduct of the exploration.

Stephen R. Wilson
Stephen R. Wilson

Enclosure

S. R. Wilson June 17, 1954

H. K. Thurber, Jr.

Docket No. DMEA 2771 (Uranium), Contract Idm-E577, Gramlich Exploration Co., San Juan County, Utah

The subject property was visited June 8, 1954, at which time the proposed drilling project was discussed with Mr. Gramlich. The project drilling, as outlined by the U. S. Geological Survey, was begun on June 8, 1954. The delay in beginning the project was due to the loss of a diamond bit in a preliminary hole drilled by the operator to determine the stratigraphy in the area. This hole was drilled on company account.

The operator assured the inspecting engineer that work will be continued without interruption until the first phase of the project is completed.

It is suggested that the U. S. Geological Survey office in Grand Junction be notified of the start of the project in order that they may evaluate the results of the first phase promptly and locate drill sites for the succeeding stage.

H. K. Thurber, Jr.

H. K. Thurber, Jr.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 1, UTAH

June 17, 1954

Memorandum

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

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

Subject: Docket No. DMEA 2771 (Uranium), Contract Ida-E577, Gramlich Exploration Co., San Juan County, Utah

Attached are six copies of a memorandum prepared by H. K. Thurber describing initial exploration under the contract. Actual diamond drilling was begun June 8, 1954.

Conversations with the contractor indicate that the work will proceed as outlined in the contract and amendments thereto. It is believed that a geologist from the Survey office in Grand Junction should be in the area to assist in conduct of the exploration.

Stephen R. Wilson

Stephen R. Wilson

Enclosure

S. R. Wilson June 17, 1954

H. K. Thurber, Jr.

Docket No. DMEA 2771 (Uranium), Contract Idm-2577, Gramlich Exploration Co., San Juan County, Utah

The subject property was visited June 8, 1954, at which time the proposed drilling project was discussed with Mr. Gramlich. The project drilling, as outlined by the U. S. Geological Survey, was begun on June 8, 1954. The delay in beginning the project was due to the loss of a diamond bit in a preliminary hole drilled by the operator to determine the stratigraphy in the area. This hole was drilled on company account.

The operator assured the inspecting engineer that work will be continued without interruption until the first phase of the project is completed.

It is suggested that the U. S. Geological Survey office in Grand Junction be notified of the start of the project in order that they may evaluate the results of the first phase promptly and locate drill sites for the succeeding stage.

H. K. Thurber, Jr.

H. K. Thurber, Jr.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 1, UTAH

June 17, 1954

Memorandum

To: W. M. King, Executive Officer, DMEA Field Team, Region IV

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

Subject: Docket No. DMEA 2771 (Uranium), Contract Idm-E577, Gramlich Exploration Co., San Juan County, Utah

Attached are six copies of a memorandum prepared by M. K. Thurber describing initial exploration under the contract. Actual diamond drilling was begun June 8, 1954.

Conversations with the contractor indicate that the work will proceed as outlined in the contract and amendments thereto. It is believed that a geologist from the Survey office in Grand Junction should be in the area to assist in conduct of the exploration.

Stephen R. Wilson
Stephen R. Wilson

Enclosure

S. M. Wilson June 17, 1954

H. K. Thurber, Jr.

Docket No. DMEA 2771 (Uranium), Contract IdA-8377, Granlich Exploration Co., San Juan County, Utah

The subject property was visited June 8, 1954, at which time the proposed drilling project was discussed with Mr. Granlich. The project drilling, as outlined by the U. S. Geological Survey, was begun on June 8, 1954. The delay in beginning the project was due to the loss of a diamond bit in a preliminary hole drilled by the operator to determine the stratigraphy in the area. This hole was drilled on company account.

The operator assured the inspecting engineer that work will be continued without interruption until the first phase of the project is completed.

It is suggested that the U. S. Geological Survey office in Grand Junction be notified of the start of the project in order that they may evaluate the results of the first phase promptly and locate drill sites for the succeeding stage.

H. K. Thurber, Jr.

H. K. Thurber, Jr.

224 New Customhouse
Denver 2, Colorado

May 21, 1954

Memorandum

To: C. C. Mittendorf, Administrator, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket DMEA 2771 (Uranium), Contract Idm-D577, Gramlich Exploration Company, San Juan County, Utah

Enclosed are the original and two copies of Amendment No. 2 to Contract Idm-D577 which has been executed to extend the period for start of work under the terms of the contract from May 1, 1954 to June 1, 1954. Also enclosed are three sets of data relevant to the amendment.

Copies of the amendment have been given to the operator, the Fiscal Officer, Region IV, and a copy has been retained for our files.

W. H. King

Enclosures

JWT:jp
cc Contract
Chron
SRWilson)
RRoberts)
AHKoschmann)
JWTownsend)
TAChristensen)
with copy of amendment

224 New Customhouse
Denver 2, Colorado

May 21, 1954

Mr. John W. Gramlich, Sr.
Gramlich Exploration Company
Moab, Utah

Re: Docket DMEA 2771 (Uranium)
Contract Idm-E577

Dear Mr. Gramlich:

Enclosed is your copy of Amendment No. 2 to Contract Idm-E577 which has been executed to extend the period for start of work under the terms of the contract from May 1, 1954 to June 1, 1954.

Very truly yours,

W H King

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

Enclosure

JWT:jp
cc Contract
Chron
SRWilson
JWTownsend

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

Mining Division
Date Rec'd.
MAY 13 1954
BUREAU OF MINES
Denver, Colorado

May 11, 1954

Memorandum

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

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

Subject: Docket No. DMEA 2771 (Uranium), Contract Idm-E577, Gramlich Exploration Co., San Juan County, Utah

Attached are six copies of a letter received from the subject operator requesting an extension of time to begin operations under the contract. An explanatory memorandum prepared by H. K. Thurber, the inspecting engineer, is also attached. It is recommended that the operator's request be granted.

Stephen R. Wilson
Stephen R. Wilson

Enclosure

gH

S. R. Wilson

May 10, 1954

H. K. Thurber, Jr.

Docket No. DMEA 2771 (Uranium), Contract Idm-E577, Gramlich Exploration Co., San Juan County, Utah. Operator's request for deferment of start of project

Discussion with the operator concerning his inability to start project work reveals that the company-owned drill intended to be used in the proposed work is not equipped to recover core. The operator has ordered the necessary adaptors and related equipment, but has not received the material as yet. Delivery is anticipated within the next two weeks and drilling will be started as soon as the necessary parts are installed. The machine is at present being used at Cisco, Utah.

It is not believed that a delay of one month in starting the proposed drilling will affect the efficiency of the project work. In view of this, it is recommended that the operator be allowed to start work under the subject contract on or before June 1, 1954, as requested in his letter of May 4, 1954.

H. K. Thurber, Jr.

H. K. Thurber, Jr.

Moab, Utah,
May 4, 1954.

U. S. Department of the Interior,
Bureau of Mines,
Attention: Mr. Steve Wilson,
1600 E. First South St.,
Salt Lake City, Utah.

Re: DMEA - 2771
No. Idm - E 577

Dear Mr. Wilson:

We had planned on commencing drilling by May 1 on the above-designated project but we are still awaiting delivery of some additional parts and equipment necessary in converting our Failing drill to diamond-core work. We now anticipate being able to start operations in the immediate future; however, in order to be safe, we respectfully ask for deferment until June 1 to start drilling instead of May 1, as per our contract.

Thanking you kindly for this and previous cooperation, we are

Very truly yours,

Gramlich Exploration Co.,

By J. W. Gramlich

224 New Customhouse
Denver 2, Colorado

May 17, 1954

Mr. John W. Gramlich, Sr.
Moab
Utah

Re: Docket DMEA 2771 (Uranium)
Contract Idm-E577

Dear Mr. Gramlich:

Enclosed are the original and five copies of Amendment No. 2 to Contract Idm-E577 which has been prepared in conformance with your request of May 4, 1954, to extend the period for commencing work under the contract from May 1, 1954 to June 1, 1954.

All copies of the amendment should be signed by you and returned to this office leaving the date blank. Upon signature by the Executive Officer, DMEA Field Team, Region IV, for the Government, your copy will be forwarded to you.

Very truly yours,

W. H. King

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

Enclosures

JWT:jp
cc Contract
Chron
SRWilson
AHKoschmann
JWTownsend

Mining Div
Date Rec'd
MAY 13 1954
BUREAU OF MINES
Denver, Colorado

S. R. Wilson

May 11, 1954

H. K. Thurber, Jr.

Docket No. DMEA 2771 (Uranium), Contract Idm-E577, Gramlich Exploration Co., San Juan County, Utah. Location of proposed drill holes

The proposed work under Amendment No. 1 to the subject contract was discussed with the operator on May 3, 1954, in Moab, Utah. The status of his drilling equipment was determined, and since he had not started work by May 1, as required in the amendment, it was suggested that he request an extension of a month in the starting date to June 1, 1954. This request was submitted May 4.

The locations of the first five holes allowed under Stage 1 of the work proposed in Amendment No. 1 were staked on May 5, 1954, in approximately the locations shown on figure 2, attached to the amendment. Variations from the locations proposed on that map were made because of topographic considerations, and the greatest variation was approximately 20 feet. The holes were originally plotted in the office, with no consideration of the topography of the drill sites. The hole sites and identification of the stakes were discussed with Mr. Gramlich.

H. K. Thurber, Jr.

H. K. Thurber, Jr.

R.H.D.

cc. WHKing (3)

1-Copy placed in Amendment File

224 New Customhouse
Denver 2, Colorado

April 12, 1954

Memorandum

To: C. C. Mittendorf, Administrator, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket DMEA 2771 (Uranium), Contract Idm-E577, Gramlich Exploration Company, San Juan County, Utah

Enclosed are the Government, Division and Docket copies of Amendment No. 1 to Contract Idm-E577 which was prepared in Washington and forwarded for execution by the operator and the Executive Officer, DMEA Field Team, Region IV, for the Government, by letter from the Chairman of the Operating Committee, dated March 16, 1954. Three sets of Owner's Consent to Lien forms and maps Figures 2 and 3 for attachment to the Washington office copies of the amendment were retained by the Chairman of the Operating Committee. Three sets of data relevant to the amendment were forwarded to you by our memorandum of February 26, 1954.

Copies of this amendment have been given to the operator, the Fiscal Officer, Region IV, and a copy has been retained for our files.

W. H. King

Enclosures

JWT:jp
cc Contract
Chron
JWTownsend

224 New Customhouse
Denver 2, Colorado

April 12, 1954

Memorandum

To: M. A. Christensen

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket DMEA 2771 (Uranium), Contract Idm-E577, Gramlich Exploration Company, San Juan County, Utah

Enclosed is your copy of Amendment No. 1 to Contract Idm-E577 which has been executed to modify the description of the work in Exhibit "A" attached to the contract.

W H King
W. H. King

Enclosure

JWT:jp
cc Contract
Chron
SKWilson)
RPFischer) w/encl.
AHKoschmann)
JWTownsend)

224 New Customhouse
Denver 2, Colorado

April 12, 1954

Mr. J. W. Gramlich
Gramlich Exploration Company
Moab, Utah

Re: Docket DMEA 2771 (Uranium)
Contract Idm-E577

Dear Mr. Gramlich:

Enclosed is your copy of Amendment No. 1 to Contract Idm-E577 which has been executed, to modify the description of the work in Exhibit "A" attached to the contract.

Very truly yours,

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

Enclosure

JWT:jp
cc Contract
Chron
JWTownsend

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

Mining Division
Date Rec'd.
APR 8 1954
BUREAU OF MINES
Denver, Colorado

April 6, 1954

Memorandum

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

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

Subject: Docket No. DMEA 2771 (Uranium), Contract Idm-E577, Gramlich Exploration Co., San Juan County, Utah

Enclosed are the original and five copies of Amendment No. 1 to the subject contract. The amendment was transmitted to this office by your memorandum of March 22, 1954.

All copies of the amendment have been signed by John W. Gramlich, Sr. for Gramlich Exploration Co. This organization is operating as a dba group and therefore does not have a corporate seal.

The amendment was delivered to Mr. Gramlich by H. K. Thurber, Jr. Before the amendment was signed by Mr. Gramlich, footnote 3 appearing in the amendment was discussed. It is believed that the operator fully understands the requirements under this footnote.

Stephen R. Wilson
Stephen R. Wilson

Enclosure

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

Mining Division
Date Rec'd.
MAR 19 1954
BUREAU OF MINES
Denver Colorado

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

MAR 16 1954

Re: Docket No. DMEA-2771 (Uranium)
Contract No. Idm-E577
Gramlich Exploration Company
Brown's Hole Area
San Juan County, Utah

Dear Mr. King:

Receipt is acknowledged of your memorandum of February 26, 1954, to the Administrator, with the enclosed copy of a proposed Amendment No. 1 to the captioned contract and three sets of data relevant to the amendment.

The Chief Counsel has redrawn the proposed amendment and we are enclosing the original and five copies for your and the Operator's signatures. Please attach maps designated as Figure 2 and Figure 3 to the copies marked Field Team, Operator, and Finance Office prior to execution. We are retaining the three sets of maps designated as Figure 2 and Figure 3, forwarded with your memorandum, for attachment to the other three copies of the executed amendment, when received from you.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee

Enclosures 15

APPROVED:

A. H. Hedges
Member, Bureau of Mines

D. M. Lavender
Member, Geological Survey

P. S. We have also retained three copies of the three Owners' Consents to Lien, and enclose the other copies for distribution by you.

February 16, 1954

U. S. Department of the Interior
Defense Minerals Exploration Admin.
224 New Customhouse
Denver 2, Colorado

Attention: W. H. King

Re: Docket No. DMEA-2771 (Uranium), Contract No. Idm-E577

Dear Mr. King:

This will acknowledge receipt of your letter of February 9, 1954, in which you request that I accept the proposed amendment to the above Contract; and this is to advise you that I agree to the proposed amendment as suggested by Mr. R. P. Fischer.

For your information, the Gramlich Exploration Company is a trade name and is owned exclusively by the undersigned, J. W. Gramlich, Sr.

I am also enclosing six copies of the Assignment from Gramlich Minerals, Inc. as requested in your letter of January 19th. I failed to note that part of the letter where this transfer be furnished.

If there is any further information that I can furnish, please advise me.

Yours very truly,

GRAMLICH EXPLORATION COMPANY

By J. W. Gramlich Sr.

CH:JWG:ts

Encl. 6

See 9 on 2 of 2

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.
Denver Federal Center
Denver 2, Colorado

December 4, 1953

Memorandum

To: DMEA Field Team, Region IV

From: A. H. Koschmann

Subject: DMEA Docket 2771, Gramlich Minerals, Inc., Brown's Hole, San Juan County, Utah, Amendment to Contract Idm-E577

Enclosed are 11 copies of a memorandum report by G. W. Weir of the U. S. Geological Survey covering the application for amendment to Contract Idm-E577.

A. H. Koschmann

A. H. Koschmann
Supervising Geologist
Colorado-Wyoming

Enclosures (11)

Amendment No 1.

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

September 29, 1953

Memorandum

To: A. H. Koschmann
DMEA Field Team, Region IV

From: R. P. Fischer
Colorado Plateau District Office

Subject: Amendment to contract Idm-E 577, Docket 2771, Gramlich Minerals, Inc., Brown's Hole, San Juan County, Utah

Transmitted herewith are eleven copies of a memorandum by G. W. Weir regarding the application for amendment to contract Idm-E 577, Docket 2771, Gramlich Minerals, Inc., Brown's Hole, San Juan County, Utah. This memorandum is prepared after a joint field examination with H. K. Thurber, USBM; J. W. Gramlich, applicant; A. L. Brokaw, USGS, and myself.

On the basis of the presently available information and Weir's analysis of the size and distribution of uranium deposits in the area of the applicant's claims, it appears that the area offers little chance of yielding much ore, perhaps not enough to be commensurate with the cost of the exploration contracted for. Nevertheless, it was assumed by the examining team that since a contract had been prepared and signed by both the Government and the applicant, it would be necessary to plan a program that would utilize the total footage and cost already contracted for. Weir proposes a plan of exploration that appears to offer the best possible use of the footage contracted for, and I concur with his plan.

R. P. Fischer

R. P. Fischer
Acting District Supervisor

Enclosures (11)

RPF/mlr

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
P. O. Box 360
Grand Junction, Colorado

September 30, 1953

MEMORANDUM

To: Defense Minerals Exploration Administration, Field Team, Region IV

From: G. W. Weir, examining geologist, Geological Survey

Subject: Geological report on application for amendment to Contract, Docket No. DMEA 2771 (Uranium), Gramlich Minerals Inc., Brown's Hole Properties, San Juan County, Utah

INTRODUCTION AND SUMMARY

Mr. J. W. Gramlich acting for Gramlich Minerals, Inc., lessees of the Brown's Hole properties, DMEA 2705, San Juan County, Utah, has requested an amendment to their contract that involves a change in location, spacing, and pattern of diamond drill holes.

Messrs. H. K. Thurber, Bureau of Mines, and C. J. Tillman and B. F. Sorensen, Geological Survey, have previously submitted a report based on an examination by them in January 1953. Their report discusses the general geology of the Brown's Hole properties and recommends an exploration program of diamond drilling on a grid pattern of 500 foot centers (Thurber, H. K., and others, 1953, fig. 2).

The Brown's Hole properties were examined in connection with the proposed amendment on September 17, 1953, by H. K. Thurber, Bureau of Mines, J. W. Gramlich acting for Gramlich Minerals, Inc.,

the lessees, and by G. W. Weir, R. P. Fischer, and A. L. Brokaw, Geological Survey. This report briefly reviews the geology of the ore deposits with emphasis on the exploration possibilities of the Blue Jay and neighboring claims and the Pine Tree and Sunset claims. For the general geology of the area of the Brown's Hole claims, the reader is referred to the more detailed report by Thurber and others (1953).

The contract signed by Gramlich Minerals, Inc., involves bulldozing, sampling, and 8,880 feet of diamond drilling. Total agreed unit cost of the project is $35,300; Government participation at 90 percent is $31,770.

The amendment requested by the lessees and recommended by the field team involves changing the location, pattern, and spacing of the diamond drilling program, which is to be done in four stages, so as to concentrate the initial stages of drilling in the lens or channel-fill in which the Blue Jay mine is located. If the initial stages of drilling are unsuccessful, it is recommended that the remaining footage be allotted to drilling on the Pine Tree and Sunnyside claims. The recommended program is described in this report.

GEOLOGY AND ORE DEPOSITS

General.--The ore deposits of the Brown's Hole area are in the first and second and third sandstone beds below the top of the Salt Wash member of the Morrison formation. The Salt Wash member consists of thick-bedded sandstone and thin-bedded mudstone and is estimated to be about 350 feet thick in the Brown's Hole area. The overlying Brushy Basin member consists mainly of thin-bedded mudstone and sandstone and is estimated to be about 400 feet thick.

The Brown's Hole area has a long history of sporadic production of uranium-vanadium ore dating back to the early 1910's. However, past production and tonnage and grade of reserves have not been sufficient to encourage extensive development and exploration, partly because drilling depths generally exceed 100 feet. Total production of the Brown's Hole area is estimated to be on the order of 2,000 tons of medium-grade ore. Since the U. S. Atomic Energy Commission began buying uranium-vanadium ore in 1948, the production of the Brown's Hole area has totaled about 400 tons of carnotite-type ore averaging about 0.40% U_3O_8 and 1.45% V_2O_5.

The deposits are generally similar in habit to other carnotite-type deposits in the Salt Wash member of the Morrison formation on the Colorado Plateau. The Brown's Hole area differs from some carnotite-producing areas in Colorado in that the deposits are not found in one major ore-bearing sandstone bed, but occur in three and possibly four sandstone beds in the Salt Wash member. Areas of mineralized ground as indicated by existing mine workings are relatively small and probably average less than 500 feet in diameter. Ore bodies within the deposits probably generally do not exceed 100 feet in their longest dimension.

Blue Jay deposit.--The Blue Jay deposit (figs. 2 and 3) is in the third sandstone bed in the Salt Wash member below the Salt Wash-Brushy Basin contact. The deposit is in a lens in the ore-bearing sandstone which thickens from less than 10 feet to about 25 feet at the mine. At the outcrop, the thicker part of the lens is about 200 feet wide and the deposit is slightly less than 200 feet wide and does not extend beyond the thicker part of the

lens. Grayish green claystone at the base of the sandstone, which has proved a reliable guide to favorable sandstone elsewhere on the Colorado Plateau, thickens beneath the deposit and does not extend far beyond its edge. The length of the lens and the length of the deposit are not known, but experience with other lenses in the Salt Wash member elsewhere on the Plateau suggests that such small lenses are generally discontinuous. It is expected that the deposit will not exceed the limit of the lens. The trend of the lens and of the ore deposit are approximately east, but the trend of the ore bodies within the deposit appear to be south of east. Exposures in the mine workings suggest that most of the ore bodies do not exceed 50 feet in diameter and are from 1 to 4 feet thick.

Production from the Blue Jay claim from January 1948 through June 1953 has totaled 290.21 tons of ore with an average grade of 0.43% U_3O_8 and 1.38% V_2O_5. The mine is currently producing. Although the average ore in the Blue Jay deposit is medium grade, high-grade ore bodies consisting of fossil trees richly replaced by carnotite or uraninite have been mined. The possibility of finding high-grade ore bodies in the Blue Jay deposits by exploration partly offsets the probability that the deposit is not extensive.

Pine Tree deposits.--The Pine Tree (fig. 3) deposits occur in the first and second sandstone beds below the top of the Salt Wash member. The larger deposits are found in the second sandstone bed, which is about 20 feet thick at the mine. This sandstone

may thin laterally from the mine, but exposures are poor and relations are not clear. Exposures at the outcrop and in the mine workings suggest that areas of mineralized ground are less than 100 feet in diameter; ore bodies are probably less than 60 feet in diameter and are from 1 to 4 feet thick.

The deposit in the first sandstone, according to Union Mines Development Corp. map (Wardwell, 1946, fig. 10), is near the pinch-out of a lens about 15 feet thick. The area of mineralized ground is about 100 feet wide; the length is unknown. Mine workings and jackhammer drilling behind the rim (W. C. Gramlich, personal communication) suggests that this deposit contains little material of ore grade and thickness.

The main mine workings, which are in the second sandstone, are located about 200 feet west of the Lisbon Valley fault, which in this area probably has a throw of more than 100 feet. No deposits have been found on the fault and the increased depth required for drilling the downthrown (eastern) side of the fault has discouraged wildcat exploration.

Production from the Pine Tree claim from January 1948 through June 1953 has totaled 61.65 tons of ore with an average grade of 0.22% U_3O_8 and 2.05% V_2O_5. Most of this production probably came from the deposit in the second sandstone. There are no indications of high-grade material occurring in this deposit. The mine has been inactive since 1951.

Sunnyside deposit.--The Sunnyside (fig. 3) deposit occurs in the first and second sandstone beds below the top of the Salt Wash member. The larger deposits are found in the first sandstone

bed, which is about 25 feet thick at the mine. The width of this thick sandstone is more than 200 feet. Exposures on the outcrop and in the mine workings suggest that the width of the areas of mineralized ground is about 200 feet; ore bodies are probably less than 50 feet in diameter and are from 1 to 4 feet thick. The length and trend of the thick sandstone is not known. Exposures on the outcrop and in the mine workings suggest that the deposit may have an easterly or southeasterly trend.

Recent development work has exposed a deposit in the second sandstone bed. The mineralized ground appears to be about 75 feet wide and contains some material of ore grade and thickness.

There has been no production from this claim since 1948 and the mine is currently inactive. Production from this claim prior to 1948 is estimated to be on the order of 400 tons of low- and medium-grade ore.

PROPOSED EXPLORATION

The contract signed by Gramlich Minerals, Inc. involves bulldozing, sampling, and 8,880 feet of diamond drilling. Total agreed unit cost of the project is $35,300; Government participation at 90 percent of the total cost is $31,770.

On the basis of the field examination and discussion with Mr. J. W. Gramlich, acting for the applicants, Gramlich Minerals, Inc., the following program is recommended. This program is essentially that proposed by the applicants except that the work is divided into four stages. The fourth stage will be begun only if the first or second stages discover little or no mineralized

ground and ore. This modification is agreeable to the applicants.

Stage 1.--Diamond drilling on the Blue Jay claim on grid pattern of 100 foot spacing back of rim on Blue Jay claim. The average depth of drill holes of stage 1 is estimated to be about 125 feet. The total footage allotted for stage 1 is 2,650 feet which will probably allow about 21 holes to be drilled. The 100-foot grid pattern should be about 200 feet wide and should be planned to follow the trend of the thicker part of the sandstone lens, which is believed favorable to ore. Only the initial five holes, and the possible location of the sixth hole, are shown on figure 2. Other holes should be planned to follow the trend of the thicker part of the sandstone lens. Because there is the possibility that ore may occur in any sandstone in the Salt Wash member, all holes should be cored their entire length. Holes should be bottomed in the first red mudstone below the ore-bearing sandstone of the Blue Jay deposit.

The primary purpose of this first stage is to determine areas and trends of favorable ground. Guides to favorable ground that may be shown by drill cores include thickness of the ore-bearing sandstone (about 20 feet or more), presence of grayish green claystone at the base of the ore-bearing sandstone, and presence of carbonaceous material. The applicants should be required to furnish at the end of each stage of drilling an adequate map showing the location and collar elevations of all holes drilled and adequate logs of all the cores. All cores should be carefully marked and stored for examination by the

DMEA team. Work of stage 2 should not be begun until stage 1 work is completed so that the project can be re-evaluated in the light of additional geologic information obtained and so that recommendations can be made as to advisability of beginning stage 2 work.

Stage 2.--Diamond drilling on the Blue Jay claims on offsets of 50 feet from mineralized and favorable holes of stage 1. The mechanics of the drilling program of stage 2 should be the same as in stage 1. The average depth of drill holes of stage 2 is estimated to be about 125 feet. The total footage allotted for stage 2 is 2,650 feet which will probably allow about 21 holes to be drilled. The purpose of this stage of drilling is to find ore in the areas of mineralized and favorable ground outlined by stage 1 drilling. If little or no mineralized or favorable ground is found in stage 1 drilling, stage 2 and stage 3 drilling should not be begun. If stage 2 drilling is approved by the field team, this stage should be completed before stage 3 drilling is begun, so that the project may be re-evaluated in the light of additional geologic information obtained and so that recommendations as to the advisability of stage 3 drilling can be made.

Stage 3.--Diamond drilling on the Blue Jay or adjacent claims on a grid pattern of 100 feet spacing with offset of 50 feet on mineralized holes. The mechanics of the drilling program should be the same as stage 1 and stage 2. The average depth of stage 3 drill holes is estimated to be about 200 feet. The total footage allotted for stage 3 is 3,580 feet, which will probably allow about 16 holes to be drilled. The purpose of stage 3 is to find

an extension eastward of the favorable and mineralized ground discovered in stage 1 and stage 2 and to find ore bodies by offsetting mineralized holes of stage 3. If results of drilling in stage 1 or stage 2 is unsatisfactory, stage 3 drilling should not be begun, and footage allotted for stage 3 drilling should be transferred to stage 4.

Stage 4.--Diamond drilling on the Pine Tree and Sunnyside claims on a grid pattern with 100 foot spacing and offsets with 25 to 50 foot spacing from mineralized holes. If the results of stage 1 or stage 2 drilling should be unsatisfactory, the remaining footage should be allotted to the Pine Tree and Sunnyside claims. The purpose of this stage of drilling is to find favorable and mineralized ground and to find mineable ore bodies by offsetting mineralized holes. The mechanics of drilling of stage 4 should be in most respects similar to that of stage 1. On the Pine Tree claim the initial drill holes should be placed around the deposit back of the rim so as to determine the trend of favorable ground. Guides to favorable ground are the same as those mentioned for stage 1 drilling. Holes on the Pine Tree claim should be cored their entire length and should be bottomed in the first red mudstone below the sandstone containing the main workings of the Pine Tree deposit. However, before stage 4 work is begun on the Pine Tree claims, the applicants should submit a map showing the location of workings, previous jackhammer holes with an indication of their results, and elevations of the drilling ground behind the Pine Tree mine.

On the Sunnyside claim the initial drill holes should be placed around the deposit behind the rim so as to determine the trend of favorable ground. Holes on the Sunnyside claim should be cored their entire length and should be bottomed in the first red mudstone below the sandstone containing the main Sunnyside mine workings. Before stage 4 work is begun on the Sunnyside claim, the applicant should submit a map showing the location of the workings, the position of the ore-bearing sandstone beds and the elevation of the ground behind the Sunnyside claim. The presence of a colluvial layer of quartzite blocks on the ground behind the Sunnyside claim may possibly hamper drilling of this ground. The amount of footage allotted for stage 4 drilling depends on the results of stage 1 and/or stage 2 drilling; if these find ore deposits, all remaining footage will be allotted to stage 3 drilling and stage 4 drilling will not be performed.

SUMMARY AND CONCLUSIONS

Uranium-bearing rock occurs in three and possibly four sandstone beds on the Gramlich Minerals, Inc., lease in the Brown's Hole area, San Juan County, Utah. Total production of the Brown's Hole area including several mines not on the Gramlich Minerals, Inc. lease is estimated to be on the order of 2,000 tons of medium grade ore. It is recommended that applicants proposal for an amendment which involves changing the location, spacing and pattern of drill holes be approved. The drilling is to be done in four stages.

Initial stages will be concentrated on the Blue Jay claim. If results of the initial stages reveal no ore or mineralized ground it is recommended that the remaining footage be allotted to exploration of the Pine Tree and Sunnyside claims.

REFERENCES CITED

Thurber, H. K., Jr.; Tillman, C. G.; and Sorensen, B. F.; 1953, DMEA Docket 2771, Engineering and geologic report, Gramlich Minerals, Inc., Brown's Hole property, San Juan County, Utah: unpublished report, U. S. Geological Survey files.

Wardwell, H. R., 1946, Report on Moab district, Green River Desert area: unpublished report, Union Mines Development Corp., (in U. S. Geological Survey files, Grand Junction, Colo.)

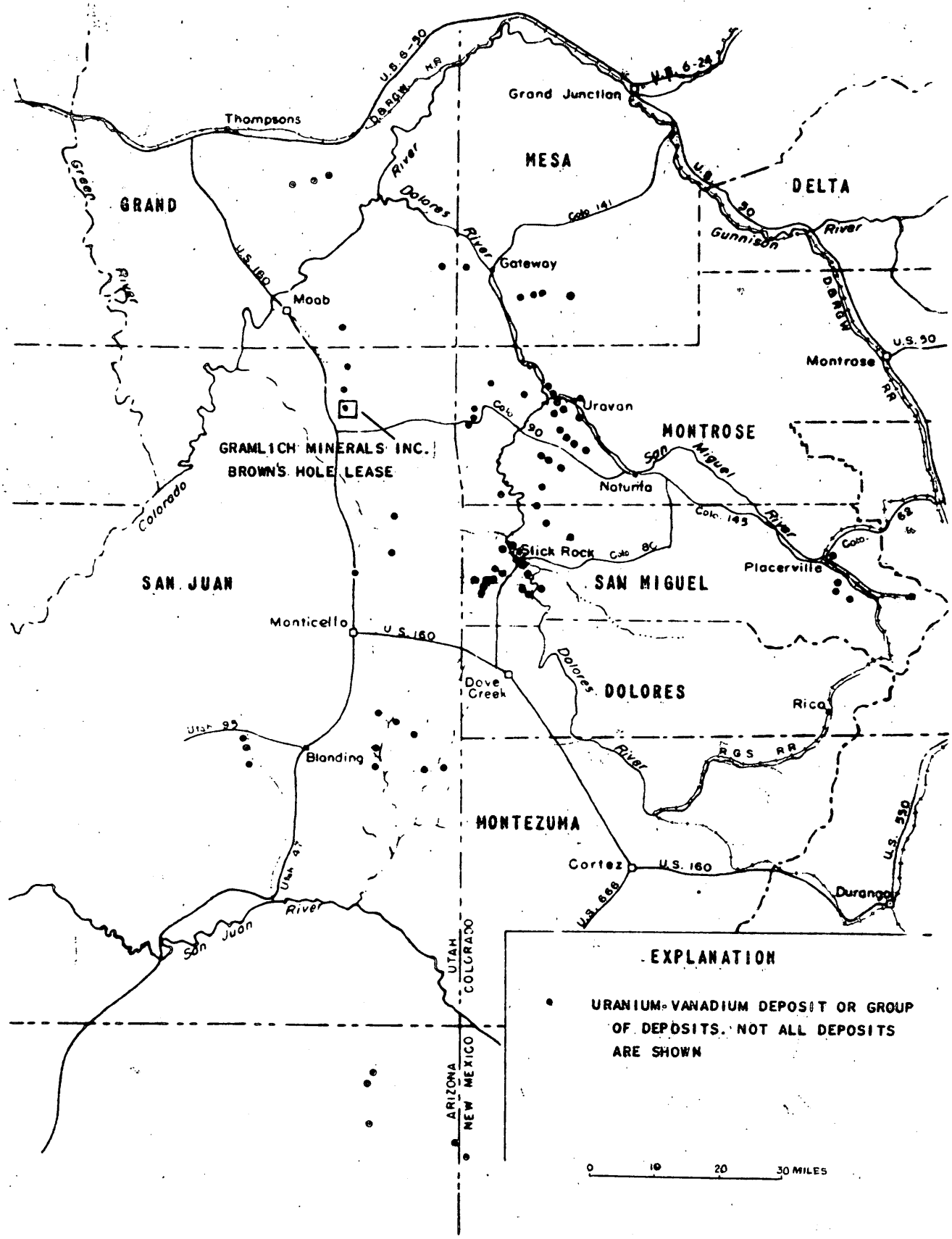


Figure 1. INDEX MAP SHOWING APPROXIMATE LOCATION OF THE GRAMLICH MINERALS INC. LEASE, BROWN'S HOLE LEASE, SAN JUAN COUNTY UTAH

224 New Customhouse
Denver 2, Colorado

March 22, 1954

Memorandum

To: S. R. Wilson

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket DMEA 2771 (Uranium), Contract Idm-E577, Gramlich Exploration Company, Brown's Hole Area, San Juan County, Utah

Enclosed are the original and five copies of Amendment No. 1 to Contract Idm-E577 which was prepared in Washington to revise the amendment forwarded to the Administrator by our memorandum of February 26, 1954. The Washington office made a few minor changes in the body of the amendment, however they added footnote 3 which appears to us may work a hardship on the operator for compliance with the stipulations.

Please review this footnote 3 and if you believe it to be satisfactory forward the amendment to the operator for his signature and affixing of the corporate seal, advising him that upon return of all copies of the amendment to this office for signature by the Executive Officer, Region IV, for the Government, his copy will be forwarded to him.

Attached to the amendment is one copy of a map showing the proposed work. Please return it with all copies of the amendment when they have been properly executed by the operator.

John F. Shaw
For W. H. King

Enclosures

JWT:jp
cc Contract
Chron
AHKoschmann
JWTownsend

224 New Customhouse
Denver 2, Colorado

March 17, 1954

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket DMEA 2771 (Uranium), Contract Idm-E577, Gramlich Exploration Co., San Juan County, Utah

Enclosed is your copy of the assignment of Contract Idm-E577 from Gramlich Minerals, Inc. to Gramlich Exploration Co.

W. H. King

Enclosure

JWT:jp
cc Contract
Chron
JWTownsend

224 New Customhouse
Denver 2, Colorado

March 17, 1954

Mr. J. M. Gramlich, Jr.
Moab, Utah

Re: Docket DMEA 2771 (Uranium)
Contract Idm-E577

Dear Mr. Gramlich:

Enclosed is your copy of "Assignment of Contract, Assignee's Acceptance, Government's Consent" from Gramlich Minerals, Inc., to the Gramlich Exploration Company.

We have been advised by teletype from the Washington office that the proposed amendment changing the description and outline of the project work has been placed in the mail. Upon receipt here it will be forwarded for your execution.

Very truly yours,

W H King

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

Enclosure

JWT:jp
cc Contract
Chron
SRWilson)
RPFischer) w/encl.
AHKoschmann)
JWTownsend)

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

Mining Division
Date Rec'd 700
FEB 23 1954
BUREAU OF MINES
Denver, Colorado

FEB 18 1954

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

Re: Docket No. DMEA-2771 (Uranium)
Contract No. Idm-E577
Gramlich Exploration Company
Assignee of Gramlich Minerals, Inc.
Brown's Hole Area
San Juan County, Utah

Dear Mr. King:

Enclosed are three copies of a combination form of assignment, assignee's acceptance, and Government's consent, executed by the Government.

Also enclosed are the original and five copies of Form MF-203, Owner's Consent to Lien, executed by Howard W. Balsley, for a correction in the description of the property, i.e., the Balsley lease and Annex II of the contract describe a "Sunnyside" claim, whereas a "Sunnyville" claim is recited in the Owner's Consent to Lien form. Further, in connection with the Balsley lease, it was pointed out in our letter of January 15, that there are two Blue Bird claims listed in Annex II of the contract and only one shown on the map labeled Figure 2. It should also be noted that the "Red Bird" claim is not shown on Figure 2.

Our letter of January 15, recited that copies of the instrument or instruments by which the interests in the leases are transferred from Gramlich Minerals, Inc., to the Gramlich Exploration Company are desired. This matter was not referred to in your letter of February 9, nor in Mr. Gramlich's letter to you of February 4.

The enclosed assignment form should not be delivered to the Operator until the matters questioned in this letter have been clarified, or a proper contract amendment executed, if necessary.

See type of Telatype 3/16/54 relative to release of Assignment

All copies of the other two sets of Form MF-203 transmitted to us with your letter of February 9, are being retained in this office until the corrected MF-203 forms executed by Balsley are returned by you, at which time, three copies of each will be sent you for the usual distribution.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee

Enclosures

APPROVED:

R. H. Wedows
Member, Bureau of Mines

Philip W. Guild
Member, Geological Survey

T
DN 235 BUREAU MINES GA PLS

WASH DC BU MINES 310 3-16-54 12-XXXX 11XXX 12-45 PM

W H KING,

REURMEMOS FEBRUARY 26, AND MARCH 5 GRAMLICH EXPLORATION COMPANY DOCKET DMEA-2771, SIX COPIES AMENDMENT NO. 1 AS REWORDED IN WASHINGTON, IN MAIL TODAY. YOU MAY RELEASE ASSIGNMENT OF CONTRACT OXX TO OPERATOR.

GEORGE C SELFRIDGE

HAVE 2 MORE

224 New Customhouse
Denver 2, Colorado

March 5, 1954

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket DMEA 2771 (Uranium), Contract Idm-E577, Gramlich Exploration Company, assignee of Gramlich Minerals, Inc., Brown's Hole Area, San Juan County, Utah

Reference is made to your letter of February 18, 1954, with which you forwarded, along with other material, the original and five copies of Form MF-203 Owner's Consent to Lien executed by Howard W. Balsley for a correction in the description in the property.

In conjunction therewith we are enclosing the original and five copies of Form MF-203 Owner's Consent to Lien which has been corrected by Balsley. The Sunnyville claim has been changed to Sunnyside, and one listing of the Blue Bird claim has been changed to Big Chief claim, which will necessitate a change in Annex II in the claims listed for Howard Balsley, lessor.

Also enclosed are the original and three copies of two letters from J. W. Gramlich, dated March 1 and March 2, 1954, which explain the situation relative to the changes on the enclosed Form MF-203.

After you have reviewed the corrected Form MF-203 please teletype advice as to whether or not all matters have been cleared to your satisfaction and we may now release the assignment of the contract to the operator.

The operator in his letter of March 2 requests that approval of the proposed amendment, forwarded to you by our memorandum of February 26, 1954 for preliminary review prior to release to the field, be expedited as much as possible.

W. H. King

W. H. King

Enclosures

JWT:jp
cc Contract
Chron
SRWilson) w/copy
RPFischer) opr's ltrs
AHKoschmann) 3-1-54 and
JWTownsend) 3-2-54

Moab, Utah
March 2, 1954

Mr. W. H. King
Executive Officer, DMEA
Field Team, Region IV,
Department of the Interior
224 Customhouse
Denver 2, Colorado

Re: Docket DMEA 2771 (Uranium)
Contract Idm-E577

Dear Mr. King:

In addition to the enclosed letter countersigned by H. W. Balsley, I thought that it might be advisable to explain this matter further.

All of the claims involved in this Contract are owned by Howard W. Balsley, S. V. Gramlich, and Irene S. Gramlich. We, therefore, feel that since all of these parties have signed the Owners Consent to Lien, that the exact location of the Red Bird and Blue Bird Claims are not of too much importance and the rights of the Government cannot be affected.

I can assure you definitely that there is no actual conflict between these parties on any of the claims, and the claims of these parties constitute a solid block, so there is no gaps in between them.

I have purchased a complete diamond drilling equipment. The weather and road are perfect, so won't you please get this ammendment okeyed at the earliest possible moment so we can get something accomplished real soon.

Yours very truly,

J. W. Gramlich Sr.

J. W. Gramlich

ts

COPY

COPY

Moab, Utah
March 1, 1954

Mr. W.H. King
Executive Officer, DMEA
Field Team, Region IV
Department of the Interior
224 Customhouse
Denver 2, Colorado

Re: Docket DMEA 2771 (Uranium)
Contract Idm-E577

Dear Mr. King:

Reference is made to your letter of February 24, together with the inclosures, having to do with the above-entitled matter:

Please be advised that someone was in error in listing the "Sunnyville" claim. This should have been the "Sunnyside". The name has been changed in each instance on the Forms MF-203 which are returned to you herewith.

Also, there should have been but one Blue Bird claim listed. Instead of the Blue Bird claim recorded in Book R, Page 419, of the records of San Juan County, this should have been the "Big Chief", recorded in Book R., Page 420, of San Juan County. This change has also been made on each of the forms.

The Red Bird Claim is located easterly from, and in the immediate vicinity of the Blue Jay Claim. As you state, the Red Bird is not shown on Figure 2. This claim has not been surveyed by a licensed surveyor, but I assure you that there will be no conflict over this claim as between Mr. Balsley and the other locators in that area, as evidenced by his counter-signature hereon.

Trusting that we have complied with your requirements in this matter, I am

Yours very truly,

/s/ J.W. Gramlich, Sr.

J. W. Gramlich

Countersigned by

/s/ H.W. Balsley

Copy of this letter with W.O. [illegible] WT
[illegible] March 5, 1954

WASH DC BU MINES 3[illegible] 3-2-54

W H KING,
REURTT FEBRUARY 26 DOCKET 2771 GRAMLICH EXPLORATION COMPANY AS OWNER S CONSENT TO LIEN RECITES THAT ASSIGNEE OF EXPLORATION CONTRACT IS TO OPERATE PROJECT ON THOSE LEASED CLAIMS NAMED IN OWNER S CONSENT TO LIEN, FURTHER CONSENT OF LESSORS TO ASSIGNMENT OF LEASE NOT REQUIRED.

C O MITTENDORF, ADMINISTRATOR

3-21 PM END
TWO MSGS RECED OK FTM

WHB
Shaw

224 New Customhouse
Denver 2, Colorado

February 26, 1954

Memorandum

To: C. C. Mittendorf, Administrator, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket DMEA 2771 (Uranium), Contract IUm-1577, Gramlich Exploration Company, assignee of Gramlich Minerals, Inc., Brown's Hole Area, San Juan County, Utah

In compliance with the request contained in your teletype of February 25, 1954 we are enclosing, for your review prior to release to the Field, one copy of the proposed Amendment No. 1 to Exhibit "A" of the contract to modify the work description. Also enclosed are three sets of data relevant to the amendment.

The maps, Figures 2 and 3, referred to in the proposed amendment, are attached to the data relevant to the amendment.

W H King

W. H. King

Enclosures

JWT:jp
cc Contracts
Chron
SRWilson
AHKoschmann
JWTownsend

DN 235 BUREAU MINES 2-26-54 3-4XX 3-36 PM

C O MITTENDORF

REFERENCE YOUR TELETYPE FEBRUARY 25,1954, DOCKET 2771, CONTRACT IDM-E577, GRAMLICH EXPLORATION COMPANY. RE CONSENT OF LESSORS TO ASSIGNMENT, RECITATION TYPED IN UPPER PORTION OF NEW CONSENT TO LIEN APPEARS TO ACKNWXXX ACKNOWLEDGE AND CONCUR IN ASSIGNMENT. IS ADDITIONAL CONSENT NECESSARY/Q/ HAVE REQUESTED CLARIFICATION ON OTHER MATTERS.

W H KING

END TWO MSGS BMH 3-37 PM

STANDARD FORM No. 14
APPROVED BY THE PRESIDENT
MARCH 10, 1926

TELETYPE

~~TELEGRAM~~

OFFICIAL BUSINESS—GOVERNMENT RATES

FROM MChing/[redacted] 2-25-54

BUREAU IMEA - Department of the Interior

CHG. APPROPRIATION

14X3923.970 Working Fund, DMEA

U. S. GOVERNMENT PRINTING OFFICE 10—1723

W. H. KING, EXECUTIVE OFFICER
DMEA FIELD TEAM, REGION IV
224 NEW CUSTOMHOUSE BUILDING
DENVER 2, COLORADO

REFURLET FEBRUARY 19 DOCKET 2771 GRAMLICH EXPLORATION COMPANY PLEASE FORWARD PROPOSED AMENDMENT WITH JUSTIFICATION THEREFOR TO WASHINGTON FOR REVIEW BEFORE RELEASE TO FIELD. RE ASSIGNMENT OF BOND AND LEASE FROM GRAMLICH MINERALS INC. TO GRAMLICH EXPLORATION COMPANY WE FURTHER REQUIRE COPIES OF WRITTEN CONSENT OF THREE LESSORS TO ASSIGNMENT. CLARIFICATION OF QUESTIONS RAISED IN SECOND PARAGRAPH OUR LETTER FEBRUARY 18 REQUIRED BEFORE PROJECT CAN PROCEED.

E571

C. O. MITTENDORF, ADMINISTRATOR

SENT
FEB 25 1954
Clerical Service Section

Mining Div.
Date Rec'd
MAR 1 1954
BUREAU OF MINES
Denver, Colorado

224 New Customhouse
Denver 2, Colorado

February 24, 1954

Mr. J. W. Gramlich, Sr.
Moab, Utah

Re: Docket DMEA 2771 (Uranium)
Contract Idm-E577

Dear Mr. Gramlich:

Enclosed are the original and five copies of Form MF-203 Owner's Consent to Lien which you had executed and forwarded to this office by your letter of February 4, 1954 along with other instruments pertaining to Contract Idm-E577.

With reference to the executed Owner's Consent to Lien, your attention is directed to the claim listed as Sunnyville, which must have been meant for the Sunny Side claim as listed in Annex II attached to the contract and shown as such on Figure 2 which was made a part of the contract.

We are enclosing seven copies of Form MF-203 for your use in correcting the claim listed. Please have the form properly executed by the lessor and return the original and five copies to this office.

Other matters on which clarification is necessary before further action can be taken on the assignment of the contract from Gramlich Minerals, Inc. to the Gramlich Exploration Company, and preparation of the amendment to modify the work description, are the matter of the two Blue Bird claims listed as part of the Balsley lease in Annex II and advice as to the location of the Red Bird claim included in the listing which is not shown on Figure 2. Referring to the Blue Bird claims, two are listed under the Balsley lease, one being recorded in Book R-1, Page 466, and one being recorded in Book R, Page 419. However, only one Blue Bird claim is shown on Figure 2 attached to the contract.

Upon receipt of the corrected Form MF-203 and clarification of the Blue Bird and Red Bird claims we will then proceed with matters relevant to the assignment and preparation of the amendment to modify the work description.

JWT:jp
cc Contract - Chron
AHKoschmann
JWTownsend

Very truly yours,

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

41

Enclosures

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

WHK

RBS

February 24, 1954

Mines Department
Received
FEB 26 1954
BUREAU OF MINES
Denver, Colorado

Mr. Howard Balsley
Moab, Utah

Dear Mr. Balsley:

Attached is a copy of a letter addressed to you under date of January 26, 1954. If possible, will you please provide the information requested concerning the contract between the Government and Gramlich Minerals, Inc.?

Very truly yours,

Stephen R Wilson

Stephen R. Wilson, Chief
Minerals Development Branch
Mining Division, Region IV

Enclosure
cc: W. H. King
file
df

DMEA-2771

DN 235 BUREAU MINES 2-24-54 1-30 PM

GEORGE C SELFRIDGE

RE THIRD PARAGRAPH OF YOUR LETTER DATED FEBRUARY 18,1954, DOCKET 2771, CONTRACT IDM-E577. IS ASSIGNMENT OF BOND AND LEASE FORWARDED BY OUR MEMORANDUM OF FEBRUARY 19 SATISFACTORY-/Q/

W H KING

END TWO MSGS BMH ACK PLS 1-31 PM
MSGS RECD OK RRT

224 New Customhouse
Denver 2, Colorado

February 19, 1954

Memorandum

To: C. C. Mittendorf, Administrator, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket DMEA 2771 (Uranium), Contract Idm-E577, Gramlich Minerals, Inc., Brown's Hole Area, San Juan County, Utah

Confirming our teletype to you of this date we are enclosing the original and five copies of an Assignment of Bond and Lease from the Gramlich Minerals, Inc. to Gramlich Exploration Company. Also enclosed for your information is a copy of a letter from J. W. Gramlich, Sr., dated February 16, 1954, forwarding the Assignment of Bond and Lease to this office. Mr. Gramlich also indicates in his letter of February 16 that the proposed amendment to Exhibit "A", referred to in previous correspondence, is acceptable to him.

If for any reason you desire to review this amendment before it is released to the Field please teletype your desires in the matter.

W. H. King

W. H. King

Enclosures

JWT:jp
cc Contract
Chron
SRWilson
AHKoschmann
JWTownsend

BUR MINES DN 235 2-19-54 2-13 PM

C O MITTENDORF

RE DOCKET 2771 CONTRACT IDM-E577, GRAMLICH MINERALS, INC., MATERIAL FORWARDED BY OUR MEMO FEBRUARY 9,1954. HAVE TODAY RECEIVED ASSIGNMENT OF BOND AND LEASE FROM GRAMLICH MINEALS, INC., TO GRAMLICH EXPLORATION COMPANY. WILL FORWARD ORIGINAL AND FIVE COPIES TO YOU TODAY.

W H KING

2-09 PM END 2 MSGS PLS AC K FTM
MSG RECD OK RT

224 New Customhouse
Denver 2, Colorado

February 9, 1954.

Memorandum

To: C. O. Mittendorf, Administrator, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket No. DMEA-2771 (Uranium), Contract No. Ida-2577, Gramlich Minerals, Inc., Brown's Hole Area, San Juan County, Utah. Assignment to Gramlich Exploration Company.

Enclosed are the original and five copies of an assignment from Gramlich Minerals, Inc. to Gramlich Exploration Company prepared in Washington and forwarded by the Chairman of the Operating Committee under date of January 15, 1954 for execution by the parties involved in the assignment.

Also enclosed are the original and five copies each of three Forms MF-203, Owner's Consent to Lien.

In addition to the foregoing we are enclosing one copy of a letter from J. W. Gramlich, Sr., dated February 4, 1954, forwarding the instruments to this office and copy of a letter from this office acknowledging receipt of the material and referring to the proposed amendment to Exhibit "A" to the contract.

W. H. King

Enclosures

JWT:cwm

cc: Contract
WMTraver
AHKoschmann (2)
RPFischer
Chron.
JWTownsend (2)

224 New Customhouse
Denver 2, Colorado

February 9, 1954.

Mr. J. W. Gramlich, Sr.
Moab
Utah

Re: Docket No. DMEA-2771 (Uranium),
Contract No. Idm-E577

Dear Mr. Gramlich:

Receipt is acknowledged of your letter of February 4, 1954 whereby you returned the original and five copies of an assignment of the DMEA contract from Gramlich Minerals, Inc. to the Gramlich Exploration Company, and also enclosed the original and five copies each of three Forms MF-203, Owner's Consent to Lien.

In the last sentence of your letter of February 4, 1954 you imply that you are awaiting final word as to when you may start work. In reference thereto, when you were in this office on December 11, 1953 you were given a copy of the proposed amendment to Exhibit "A" on which you were to consult with Mr. R. P. Fischer of the U. S. Geological Survey and advise us as to the acceptability of the proposed amendment as written. Since we have heard nothing further from you no action has been taken toward amending Exhibit "A" attached to the contract to effect a change in the description of the work.

If you are desirous of commencing work within the near future, please return the rough draft of the proposed amendment with your comments thereon without further delay.

A copy of the proposed amendment was forwarded to Mr. Fischer and we have received his comments. Therefore, any further action will be deferred pending receipt of advice from you.

Very truly yours,

W H King

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

JWT:cwm

cc: Contract
Administrator, DMEA
WMTraver
AHKoschmann (2)
RPFischer
Chron.
JWTownsend (2)

Moab, Utah
Feby. 4, 1954

Defense Min Adm.
Attention Mr W. H. King
224 New Customhouse
Denver 2, Colo.

Mining Division
Date Rec'd.
FEB 5 - 1954
BUREAU OF MINES
Denver, Colorado

Dear Mr. King:

Enclosed herewith instruments Re. DMEA 2771 - contract Adm E577, duly signed.

The weather here is beautiful and looks now like we can be ready to commence drilling in very near future.

Thanking you kindly and awaiting final word as to when we may start

I am, Sincerely yours.

J. A. Gramlich Sr.

224 New Customhouse
Denver 2, Colorado

January 26, 1954

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket DMEA 2771 (Uranium), Contract Icm-2577, Gramlich Minerals, Inc., Brown's Hole Area, San Juan County, Utah

Reference is made to your letter of January 20, 1954, wherein you request a copy of a proposed amendment and necessary justification therefor, relative to the revision of Exhibit "A" attached to the subject contract.

Matters pertaining to the proposed amendment have not advanced to the stage where it is possible to supply you with a copy of the proposed amendment.

The operator has deferred sending in final data concerning the proposed amendment pending resolving of matters relative to the assignment of the contract to the Gramlich Exploration Company.

W. H. King

JWT:jp
cc Contract
Chron
SRWilson
AHKoschmann
JWTownsend

700

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

Mining Division
Date Rec'd
JAN 25 1954
BUREAU OF MINES
Denver, Colorado

JAN 2 0 1954

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

Re: Docket No. DMEA-2771 (Uranium)
Contract No. Idm-E577
Gramlich Minerals, Inc.
Brown's Hole Area
San Juan County, Utah

Dear Mr. King:

This refers to your memorandum of December 28, 1953, appertaining to the captioned project. It is noted that you state no work has been performed under the contract, and an amendment is in process to revise Exhibit "A" attached to the contract. We would appreciate receiving a copy of the proposed amendment and the necessary justification therefor.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee

APPROVED:

J. H. Hedges
Member, Bureau of Mines

T. P. Thayer
Member, Geological Survey

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

January 26, 1954

JAN 28 1954

Mr. Howard Balsley
Moab, Utah

DMEA 2771

Dear Mr. Balsley:

Reference is made to an Owner's Consent to Lien form signed by you and attached to a contract between the Government and Gramlich Minerals, Inc., under docket No. DMEA 2771.

Annex 3 attached to the lien form includes two Blue Bird claims. Recording data for one Blue Bird claim is Book R, page 419. The recording data for the second Blue Bird claim is Book R1, page 466. It appears that an error has been made by inclusion of two claims with the same name, or the number is omitted from the description of one claim. Will you please clarify the apparent discrepancy and verify the recording data?

Very truly yours,

Stephen R. Wilson

Stephen R. Wilson, Chief
Minerals Development Branch
Mining Division, Region IV

cc: W. H. King (2)

file
df

577

224 New Customhouse
Denver 2, Colorado

January 19, 1954.

Memorandum

To: Chairman of the Operating Committee

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket No. DMEA-2771 (Uranium), Contract No. Idm-E577, Gramlich Minerals, Inc., Brown's Hole Area, San Juan County, Utah.

This is in response to your letter of January 15, 1954 on the subject docket.

Enclosed is a signed copy of a lease and agreement dated October 1, 1952 between H. W. Balsley and J. W. Gramlich for and in behalf of Gramlich Minerals, Inc.

Also enclosed is copy of a memorandum to S. R. Wilson and copy of a letter to J. W. Gramlich, Sr.

W. H. King

Enclosures

HMC:cwm

cc: Contract
SRWilson
AHKoschmann
Chron.
JWTownsend

224 New Customhouse
Denver 2, Colorado

January 19, 1954.

Memorandum

To: S. R. Wilson

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket No. DMEA-2771 (Uranium), Contract No. Idm-E577, Gramlich Minerals, Inc., Brown's Hole Area, San Juan County, Utah.

In reviewing the land involved in the subject contract, it is noted, with respect to the Balsley lease, two claims are identified as "Blue Bird".

Claim	Recorded in Book	Page
Blue Bird	R	419
Blue Bird	R-1	466

Only one Blue Bird claim is shown on Figure 2 of the report and contract.

Will you please clarify this item and verify the recording data.

W. H. King

W. H. King

HMC

HMC:cwm

cc: Contract
Chairman of the Oper. Comm.
AHKoschmann
Chron.
JWTownsend

224 New Customhouse
Denver 2, Colorado

January 19, 1954.

Mr. J. W. Gramlich, Sr.
Moab
Utah

Re: Docket No. DMEA-2771 (Uranium)
Contract No. Idm-E577

Dear Mr. Gramlich:

Enclosed are six copies of a combination form of Assignment, Assignee's Acceptance, and Government's Consent. The Gramlich Exploration Company has not been identified as an entity; that is, whether it is a partnership, corporation, or other business group. Therefore, you will note that blank spaces have been left in the assignment form for insertion of the appropriate information, including the business address, concerning the Assignee.

We also need a copy of the instrument or instruments by which the interests in the leases are transferred from the presently named Operator to the Assignee.

Also enclosed are three sets of new Owner's Consent to Lien forms, the execution of which by the lessors is required as a condition to consenting to the assignment.

When you return all of the above mentioned data to this office we will forward it to the Washington Office for their consent to assignment.

Very truly yours,

W H King

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

Enclosures

HMC
HMC:cwm

cc: Contract
Chairman of the Oper. Comm.
SRWilson
AHKoschmann
Chron.
JWTownsend

UNITED STATES
DEPARTMENT OF THE INTERIOR 140
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

Mining Division
Date Rec'd
JAN 18 1954
BUREAU OF MINES
Denver, Colorado

JAN 15 1954

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

Re: Docket No. DMEA-2771 (Uranium)
Gramlich Minerals, Inc.
Brown's Hole Area
San Juan County, Utah
Contract Idm-E577

Dear Mr. King:

This responds to your memorandum dated December 28, 1953, to the Administrator recommending that the Government consent to the assignment of the subject contract to Gramlich Exploration Co., and prepare the necessary papers.

We have prepared the enclosed combination form of assignment, assignee's acceptance, and Government's consent. We have also prepared the enclosed three new Owner's Consent-to-Lien forms, the execution of which by the lessors is required as a condition to consenting to the assignment. As there are a few other matters involved, which will be discussed below, and which we should like to review, the Consent to Assignment has not been executed in advance.

Sent W.O 1-19-54

In reviewing the file, we find no copy of the Balsley lease. We should also like to have copies of the instrument or instruments by which the interests in the leases are transferred from the presently named Operator to the Assignee.

The Gramlich Exploration Co. has not been identified as an entity; that is, whether it is a partnership, corporation, or other business group. Therefore, you will note that blank spaces have been left in the assignment form for insertion of appropriate information, including the business address, concerning the Assignee.

Finally, in reviewing the land involved in the contract, we note that, with respect to the Balsley lease, two claims are identified as "Blue Bird." Please clarify this item and verify the recording data.

See letter, Mr. Wilson 1-19-54

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee

Enclosures

Approved:

J. H. Hedges
Member, Bureau of Mines

T. P. Thayer
Member, Geological Survey

224 New Customhouse
Denver 2, Colorado

December 28, 1953

Mr. J. W. Gramlich, Sr.
Moab, Utah

Re: Docket DMEA 2771 (Uranium)
Contract Idm-E577

Dear Mr. Gramlich:

Receipt is acknowledged of your letter of December 19, 1953, wherein you request that Contract Idm-E577 be transferred from Gramlich Minerals, Inc. to the Gramlich Exploration Company.

An assignment of a DMEA contract must be approved by the Government, therefore your request has been forwarded to our Washington office for their consideration and appropriate action.

Very truly yours,

W H King

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

JWT:jp
cc Contracts
Chron
SRWilson
AHKoschmann
RRoberts
JWTownsend

224 New Customhouse
Denver 2, Colorado

December 28, 1953

Memorandum

To: C. O. Mittendorf, Administrator, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket DMEA 2771 (Uranium), Contract Idm-E577, Gramlich Minerals, Inc., Brown's Hole Area, San Juan County, Utah

Enclosed are the original and three copies of a letter from J. W. Gramlich, Sr., dated December 19, 1953, wherein he requests that Contract Idm-E577, Gramlich Minerals, Inc., be transferred to the Gramlich Exploration Company. Inasmuch as the approval of an assignment and release of a DMEA contract is not within the authority delegated to this office we are forwarding the matter for your consideration and appropriate action.

No work has been performed under the contract and an amendment is in process to revise Exhibit "A" attached to the contract to change the description and specifications of the work to be performed.

We recommend that the necessary release and assignment be prepared and forwarded for execution by the operator.

W. H. King

Enclosures

JWT:jp
cc Contract w/copy of incoming letter
Chron "
SRWilson "
AHKoschmann "
RRoberts "
JWTownsend "

C O P Y

December 19, 1953

U. S. Bureau of Mines
D. M. E. A. Division
New Customhouse
Denver, Colorado

Attention: Mr. King

Dear Mr. King:

All operations in the Brown Hole Area, formerly operated by Gramlich Minerals, Inc. have been transferred to the Gramlich Exploration Co.

It is hereby requested that the amended contract for the D. M. E. A. loan be issued in the name of Gramlich Exploration Co.

The operations to be financed by the D. M. E. A. loan will remain under my personal supervision.

Very truly yours,

/s/ J. W. Gramlich, Sr.
J. W. Gramlich, Sr.

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
P. O. Box 360
Grand Junction, Colorado

December 24, 1953

Minno Division
Date Rec'd
DEC 30 1953
BUREAU OF MINES
Denver, Colorado

MEMORANDUM

To: A. H. Koschmann and W. H. King
Field Team, Region IV

From: R. P. Fischer

Subject: Docket DMEA 2771 (Uranium), Contract Idm-E577, Gramlich Minerals, Incorporated, Brown's Hole Area, San Juan County, Utah

In reply to your memorandum of December 14, 1953, I wish to make the following recommendations:

Sludge samples should not be saved. In this area we should be able to get adequate information from the drill core.

All holes should be cored their entire depth. There is some chance that any sandstone in this area may contain ore.

All holes should be bottomed in the first red mudstone below the ore-bearing sandstone. This ore-bearing sandstone is not the same stratigraphic unit in the three mineralized areas discussed in the report. Ore-bearing sandstone refers to the sandstone containing the main mine workings in each of the three areas for which drilling is recommended.

R. P. Fischer

R. P. Fischer

GWW/mlg

cc: A. H. Koschmann (2)

W. H. King

224 New Customhouse
Denver 2, Colorado

December 14, 1953

Memorandum

To: R. P. Fischer

From: Field Team, Region IV

Subject: Docket DMEA 2771 (Uranium), Contract Idm-4577, Gramlich Minerals, Incorporated, Brown's Hole Area, San Juan County, Utah

Enclosed is a copy of Exhibit "A", which we have prepared in conformance with Weir's report of September 30, 1953 and transmitted by your memorandum of September 29, 1953 to revise Exhibit "A" in the subject contract.

Mr. John W. Gramlich, Sr. was in this office December 11, 1953 and discussed the proposed revised Exhibit "A". He requested a copy to take with him so he could discuss the work as outlined with you.

In the event there are changes to be made, please submit your recommendations and also we would especially like your recommendations relative to "Specifications relevant to diamond drilling" on the second page of the proposed Exhibit "A", before we prepare the final draft of the amendment.

Mr. Gramlich stated that he could not see the reason for coring all holes their entire length or the saving of sludge samples. We informed him that it was our policy to core at least one hole its entire depth in each area. Also Mr. Gramlich stated bottoming the holes in the first red mudstone below the ore bearing sandstone strata would only apply to the holes drilled back of the rim on the Blue Jay claim.

We would appreciate receiving your recommendations relative to the matter.

JWT:fwo

cc SRWilson
JWTownsend
Contract
Chron
Enc Koschmann (2)

W. H. King

A. H. Koschmann

224 New Customhouse
Denver 2, Colorado

December 14, 1953

Mr. John W. Gramlich
Moab, Utah

Re: Docket No. DMEA 2771
Contract Idm-1577

Dear Mr. Gramlich:

In conformance with your telephone request enclosed is a map which you left in this office during your visit here on December 11, 1953.

Very truly yours,

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

JWT:fwo

cc Contract
Chron

STANDARD FORM No. 14
APPROVED BY THE PRESIDENT
MARCH 10, 1926

WESTERN UNION

TELEGRAM

OFFICIAL BUSINESS—GOVERNMENT RATES

FROM DEPARTMENT OF INTERIOR

BUREAU OF MINES, REG IV (DMRA)

CHG. APPROPRIATION Elphe/letter Charge (6970.1

Denver, Colorado December 9, 1953

U. S. GOVERNMENT PRINTING OFFICE 10—1723

JWR:bh

R. P. FISCHER
U. S. GEOLOGICAL SURVEY (Telephone 3000, Ext. 265)
GRAND JUNCTION, COLORADO

RE DOCKET 2771, CONTRACT IDM-3577, CHARLIE MINERALS. ADVISE VIA WESTERN UNION THE DATE IN WHICH IT WILL BE FEASIBLE FOR OPERATOR TO COMMENCE WORK. INFORMATION TO BE INCLUDED IN PROPOSED AMENDMENT.

W. I. KING

KJB

cc: Accounts
J.W.Townsend
Sub
Chron

224 New Customhouse
Denver 2, Colorado

December 1, 1953

Memorandum

To: A. H. Koschmann

From: Executive Officer, DMEA Field Team, Region IV

Subject: Revised memorandum of transmittal of geologic report pertaining to the amendment to Contract Idm-E577, Docket DMEA 2771, Gramlich Minerals, Inc., Brown's Hole, San Juan County, Utah

Enclosed is the subject matter for inclusion in the geologic report which was picked up by you for revision of your letter of transmittal upon receipt of Fischer's memorandum on November 23, 1953.

W H King
W. H. King

Enclosure

JWT:jp
cc Contract
Chron
JWTownsend

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

P. O. Box 360
Grand Junction, Colo.

IN REPLY REFER TO:

Mining Division
Date Rec'd
DEC 1 - 1953
BUREAU OF MINES
Denver, Colorado

November 30, 1953

Memorandum

To: W. H. King
DMEA Field Team, Region IV

From: R. P. Fischer
Colorado Plateau District Office

Subject: Revised memorandum of transmittal of geologic report pertaining to the amendment to contract Idm-E 577, Docket 2771, Gramlich Minerals, Inc., Brown's Hole, San Juan County, Utah

Transmitted herewith are eleven copies of the revised memorandum of transmittal of the geologic report regarding amendment to contract Idm-E 577, Docket 2771, Gramlich Minerals, Inc., Brown's Hole, San Juan County, Utah. This memorandum is revised in accordance with our telephone conversation of last week.

R. P. Fischer

R. P. Fischer
Acting District Supervisor

Enclosures (11)

RPF/mlr

cc: A. H. Koschmann (with enclosure)
S. R. Wilson " "

224 New Customhouse
Denver 2, Colorado

November 10, 1953

Memorandum

To: S. R. Wilson

From: Executive Officer, DMEA Field Team, Region IV

Subject: Extra Copies of Contract

Enclosed for your use are extra copies of the following contracts:

E-577 Gramlich Minerals, Inc.
E-585 Beaver Uranium Co.

W. H. King

W. H. King

Enclosures

/fwo

cc Contract
Chron

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

NOV 4 1953

Mining Division
Date Rec'd
NOV 6 - 1953
BUREAU OF MINES
Denver, Colorado

Mr. W. H. King
Executive Officer
Region IV
224 New Customhouse Building
Denver 2, Colorado

Dear Mr. King:

Attached is one copy each of contracts Idm-E577, Docket No. DMEA 2771, Idm-E578, Docket No. DMEA 2964, Idm-E585, Docket No. DMEA 2710, and Idm-E597, Docket No. DMEA 3048. Also attached are the following amendments: Amendment No. 7 to contract Idm-E237, Docket No. DMEA 1325, Amendment No. 1 to contract Idm-E254, Docket No. DMEA 2314, Amendment No. 2 to contract Idm-E345, Docket No. DMEA 2426, and Amendment No. 2 to contract Idm-E411, Docket No. DMEA 2528.

These "extra copies" are for use of your office in making reports on these projects.

Sincerely yours,

C D Mudgendorf

Administrator

Enclosures 8

Mining Division
Date Rec'd
NOV 6 - 1953
BUREAU OF MINES
Denver, Colorado

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

NOV 3 1953

Mr. John W. Gramlich, Sr., President
Gramlich Minerals, Inc.,
Moab, Utah

Re: Docket No. DMEA-2771 (Uranium)
Contract No. Idm-E577
Browns Hole Properties
San Juan County, Utah

Dear Mr. Gramlich:

Reference is made to your above-named Exploration Project Contract for uranium. You are probably aware that in some similar cases it has been found that some part or all of the land which is the subject of the exploration project contract consists of claims located on land which was subject to prior Federal oil and gas leases. The validity of such claims is doubtful, and in some cases the Atomic Energy Commission has issued a lease to the land for whatever benefit that may afford in curing the invalidity as far as uranium is concerned.

By the recent act of Congress approved August 12, 1953 (Public Law 250, 83d Cong.), mining claims located between July 31, 1939, and January 1, 1953, on United States Lands which were then subject to oil and gas leases, may be validated by the owners of such claims, if, not later than December 10, 1953, they

> ".... post on such claim in the manner required for posting notice of location of mining claims and file for record in the office where the notice or certificate of location of such claim is of record an amended notice of location of such claim, stating that such notice is filed pursuant to the provisions of this Act and for the purpose of obtaining the benefits thereof."

If any of the land which is the subject of your Exploration Project Contract includes a located claim or claims, the validity of which might be questioned on account of a previous oil and gas lease, the statute cited is called to your attention so that you may validate your rights as above indicated, if you consider this to be in your interest. This Agency deems such validation to be desirable even though the land in question may be covered by a lease from the Atomic Energy Commission.

Sincerely yours,

C. A. Mettendorf

Administrator

FMMurphy/db
10-30-53
cc to: Docket File
Region IV (2)
Division Contract file

50811

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

Mining Division
Date Rec'd
OCT 16 1953
BUREAU OF MINES
Denver, Colorado

October 14, 1953

Memorandum

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

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

Subject: Docket No. DMEA-2771 (Uranium), Contract Idm-E577, Gramlich Minerals, Inc., San Juan County, Utah.

Enclosed is one copy of a memorandum concerning the subject docket prepared by G. W. Weir of the Geological Survey. This information was transmitted to this office by memorandum of October 9, 1953. A copy of Weir's memorandum has been received from R. P. Fischer.

Stephen R. Wilson
Stephen R. Wilson

Enclosure

224 New Customhouse
Denver 2, Colorado

October 9, 1953

Memorandum

To: S. R. Wilson

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket No. DMEA 2771, (Uranium), Contract Idm-E577, Gramlich Minerals, Inc., San Juan County, Utah

Enclosed for your information is a copy of a memorandum report dated September 30, 1953 from C. H. Weir, examining geologist, Geological Survey, and transmittal thereof from R. P. Fischer, Acting District Supervisor, Colorado Plateau District, of the same date, which are relevant to a revision of the subject contract.

When the copy of the report has served your needs please return it to this office.

W. H. King
W. H. King

Enclosure

JWT:jp
cc Contract
Chron
AHKoschmann
JWTownsend

224 New Customhouse
Denver 2, Colorado

October 5, 1953

REGISTERED

Memorandum

To: C. O. Mittenderf, Administrator, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket No. DMEA 2771 (Uranium), Contract IDM-E577, Gramlich Minerals, Inc., San Juan County, Utah

Enclosed are the original and two copies of Contract IDM-E577. Copies of this contract have been given to the operator, the Fiscal Officer, Region IV, and a copy has been retained for our files.

W. H. King

W. H. King

Enclosures

JFS:jp
cc Contract
Chron

224 New Customhouse
Denver 2, Colorado

October 5, 1953

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket No. DMEA 2771 (Uranium), Contract IDM-E 577, Gramlich Minerals, Inc.

Enclosed is your copy of Contract IDM-E 577.

W. H. King

W. H. King

Enclosure

JFS

JFS:jp
cc Contract
Chron
SRWilson w/copy of contract
AHKoschmann w/copies of contract

OCT 5 1953

224 New Customhouse
Denver 2, Colorado

Gramlich Minerals Inc.
Moab, Utah

(Box 455)

Gentlemen:

Enclosed herewith is your copy of Exploration Project Contract No. IDM-E577, Docket No. 2771.

Also enclosed are six copies of Form MF-104 "Operator's Monthly Report and Voucher" and six copies of Form MF-104A "Operator's Unit Cost and Progress Report." At the completion of the first full calendar month of operation and monthly thereafter, you are required to submit five copies of the forms to Mr. S. R. Wilson, U. S. Bureau of Mines, 1600 East First South Street, Salt Lake City 1, Utah. The sixth form is for your records. Please note that the monthly report requires a narrative report which should be accompanied by maps or sketches. The narrative report must be signed by the operator. The monthly report will not be processed for payment unless accompanied by a narrative report. Additional copies of Forms MF-104 and 104A will be forwarded to you as required.

For your information and in reply to many questions that have been asked, after Forms MF-104 and 104A are received an engineer will check progress and approve your accounts, after which it will be sent to the Regional Office, Region IV, U. S. Bureau of Mines, 224 New Customhouse, Denver 2, Colorado, for auditing and vouchering. If the report is in order, a check will be issued by the Treasury Department for the Government's portion of the costs.

Your attention is directed to the regulation that provides that reimbursement for the cost of work accomplished prior to the date of the contract will not be allowed. This contract is prepared on the short form under the terms of which the Government reimburses you for 90 percent of the agreed estimated costs as they accrue for units of work actually performed, therefore it is necessary that the starting point of the work be determined by a Bureau of Mines Engineer before you commence work under the terms of this contract. Please advise this office in writing the date work actually starts under the contract.

Very truly yours,

W. H. King

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

Enclosures

JFS:es

cc: Contract, Chron., Wilson, Koschmann (2)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

1600 EAST FIRST SOUTH STREET
SALT LAKE CITY 1, UTAH

Mining Division
Lease Rec'd.
OCT 8 - 1953
BUREAU OF MINES
Denver, Colorado

September 30, 1953

Registered Mail

Memorandum

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

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

Subject: Docket No. DMEA 2771 (Uranium), Contract Idm-E577, Gramlich Minerals, Inc., San Juan County, Utah. Your memoranda of August 10 and 11, 1953

Enclosed are the original and four copies of the subject contract. All copies have been signed by John W. Gramlich, Sr., president of the corporation. The signature has been attested by the secretary and the corporate seal affixed.

As requested in your memorandum of August 10, 1953, changes on the Owner's Consent to Lien forms were initialed by the property owners and copies of each of the three forms were attached to all copies of the contract before signature by the operator. The starting date under Article 3 was inserted. This date is 90 days from the effective date of the contract. The operator's copy of the contract has been delivered.

The operator called at this office September 11, 1953. He stated that he was not satisfied with the proposals for diamond drilling as established in the contract and desired to amend the contract. Accordingly, the property was examined by H. K. Thurber with R. P. Fischer and Gordon Weir of the Survey, September 17, 1953. John W. Gramlich, Sr., was present. The contract will require revision to conform to the proposals of the operator. It is possible that the changes may be made by amendment. If not, it will be necessary to rewrite Exhibit "A" of the contract. R. P. Fischer will prepare the recommendations concerning revision of the drilling. The attached memorandum prepared by H. K. Thurber includes engineering proposals for revision of the contract. These should be considered in rewriting Exhibit "A".

Stephen R. Wilson

Stephen R. Wilson

Enclosure

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

September 30, 1953

Registered Mail

Memorandum

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

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

Subject: Docket No. DMEA 2771 (Uranium), Contract Idm-E577, Gramlich Minerals, Inc., San Juan County, Utah. Your memoranda of August 10 and 11, 1953

Enclosed are the original and four copies of the subject contract. All copies have been signed by John W. Gramlich, Sr., president of the corporation. The signature has been attested by the secretary and the corporate seal affixed.

As requested in your memorandum of August 10, 1953, changes on the Owner's Consent to Lien forms were initialed by the property owners and copies of each of the three forms were attached to all copies of the contract before signature by the operator. The starting date under Article 3 was inserted. This date is 90 days from the effective date of the contract. The operator's copy of the contract has been delivered.

The operator called at this office September 11, 1953. He stated that he was not satisfied with the proposals for diamond drilling as established in the contract and desired to amend the contract. Accordingly, the property was examined by H. K. Thurber with R. P. Fischer and Gordon Weir of the Survey, September 17, 1953. John W. Gramlich, Sr., was present. The contract will require revision to conform to the proposals of the operator. It is possible that the changes may be made by amendment. If not, it will be necessary to rewrite Exhibit "A" of the contract. R. P. Fischer will prepare the recommendations concerning revision of the drilling. The attached memorandum prepared by H. K. Thurber includes engineering proposals for revision of the contract. These should be considered in rewriting Exhibit "A".

Stephen R. Wilson

Stephen R. Wilson

Enclosure

S. R. Wilson Sept. 23, 1953

M. K. Thurber, Jr.

Docket No. DMEA 2771 (Uranium), Contract Idm-E577, Gramlich Minerals, Inc., San Juan County, Utah. Joint examination with R. P. Fischer pursuant to operator's request for revised exploration plan

An examination of the subject property was made September 17, 1953, in company of Mr. R. P. Fischer, Mr. Brekaw, and Mr. Gordon Weir, all of the Grand Junction office of the Geological Survey. The examination was made to reappraise the geologic factors at the request of the operator, who was not satisfied with the drilling program as outlined in Exhibit "A" of the subject contract. Underground workings and surface areas on the Blue Jay, Pine Tree, and Sunnyside claims were examined, and the areas of possible drill sites observed.

From conversations and comments in the field, it is believed that Mr. Fischer will recommend a revision of the plan of exploration in Exhibit "A" of the contract to allow all the contract footage to be drilled on a pattern along the apparent trend of the known ore in the Blue Jay workings. No drilling would be done on the Pine Tree or other claims unless the first few holes on the Blue Jay area show that the ore completely pinches out and the favorable geologic conditions are absent. Mr. Fischer suggested that a transfer of the footage remaining under such conditions might be transferred to the Sunnyside claim, where favorable geologic conditions were found, and from which ore had been produced. It is understood that his suggestions will be in the form of a memorandum to A. M. Koschmann and that a copy will be sent to this office. Maps will be made to accompany the memorandum.

It was thought advisable to defer suggesting to Mr. Gramlich that he present a request for amendment until Mr. Fischer had outlined the suggested revision in the drilling program. If it is decided to rewrite the contract, no amendment request would be needed.

Other contract requirements should be scrutinized in view of the practical administration of the contract. Changes in the following items are recommended, if not revised by Mr. Fischer's proposals:

1. Article 9, MF-200A (February 1952). Heretofore this section of other contracts pertaining to drilling projects has required the presentation of certified logs by the operator. It is probable that it was merely an oversight on the part of the person preparing the contract.

2. Exhibit "A" mentions the recovery of sludge from the drilling. Mr. Fischer indicates that it is not general practice to recover sludge samples in diamond drilling on the Colorado Plateau on jobs supervised by the Geological Survey. The Atomic Energy Commission does not require it on their contract drilling. It is suggested that this requirement be eliminated from any amendment written or revision of the contract.

3. Exhibit "A" and the map attached to the contract mention and outline specific areas within which the proposed work is to be done. Recent experience shows that strict outlining can limit the scope and usefulness of a drilling program on an ore zone whose trend is only roughly established. It is suggested that only general limitation of the area to be drilled be included in Exhibit "A" and any maps attached.

4. The difficulties and delays involved in furnishing written approval for certain actions should be considered before including this clause in Exhibit "A" of the revised or amended contract.

5. Some footage of the Brushy Basin member of the Morrison formation will be drilled if the program outlined by Mr. Fischer is accepted. It is suggested that the operator be specifically allowed to use a "plug" bit to drill this formation. This will result in a savings of time for the operator. The practice of plug bit drilling through non-mineralized formations is common in the Colorado Plateau area.

H. K. Thurber, Jr.

H. K. Thurber, Jr.

S. R. Wilson

Sept. 28, 1953

N. K. Thurber, Jr.

Docket No. DMEA 2771 (Uranium), Contract Ida-E577, Gramlich Minerals, Inc., San Juan County, Utah. Joint examination with R. P. Fischer pursuant to operator's request for revised exploration plan

An examination of the subject property was made September 17, 1953, in company of Mr. R. P. Fischer, Mr. Brokaw, and Mr. Gordon Weir, all of the Grand Junction office of the Geological Survey. The examination was made to reappraise the geologic factors at the request of the operator, who was not satisfied with the drilling program as outlined in Exhibit "A" of the subject contract. Underground workings and surface areas on the Blue Jay, Pine Tree, and Sunnyside claims were examined, and the areas of possible drill sites observed.

From conversations and comments in the field, it is believed that Mr. Fischer will recommend a revision of the plan of exploration in Exhibit "A" of the contract to allow all the contract footage to be drilled on a pattern along the apparent trend of the known ore in the Blue Jay workings. No drilling would be done on the Pine Tree or other claims unless the first few holes on the Blue Jay area show that the ore completely pinches out and the favorable geologic conditions are absent. Mr. Fischer suggested that a transfer of the footage remaining under such conditions might be transferred to the Sunnyside claim, where favorable geologic conditions were found, and from which ore had been produced. It is understood that his suggestions will be in the form of a memorandum to A. M. Koschmann and that a copy will be sent to this office. Maps will be made to accompany the memorandum.

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Other contract requirements should be scrutinized in view of the practical administration of the contract. Changes in the following items are recommended, if not revised by Mr. Fischer's proposals:

1. Article 9, MF-200A (February 1952). Heretofore this section of other contracts pertaining to drilling projects has required the presentation of certified logs by the operator. It is probable that it was merely an oversight on the part of the person preparing the contract.

2. Exhibit "A" mentions the recovery of sludge from the drilling. Mr. Fischer indicates that it is not general practice to recover sludge samples in diamond drilling on the Colorado Plateau on jobs supervised by the Geological Survey. The Atomic Energy Commission does not require it on their contract drilling. It is suggested that this requirement be eliminated from any amendment written or revision of the contract.

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4. The difficulties and delays involved in furnishing written approval for certain actions should be considered before including this clause in Exhibit "A" of the revised or amended contract.

5. Some footage of the Brushy Basin member of the Morrison formation will be drilled if the program outlined by Mr. Fischer is accepted. It is suggested that the operator be specifically allowed to use a "plug" bit to drill this formation. This will result in a savings of time for the operator. The practice of plug bit drilling through non-mineralized formations is common in the Colorado Plateau area.

H. K. Thurber, Jr.

H. K. Thurber, Jr.

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

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

AUG 6 1953

Re: Docket No. DMEA-2771 (Uranium)
Gramlich Minerals, Inc.,
Brown's Hole Area
San Juan County, Utah

Dear Mr. King:

Enclosed are the original and five copies of the captioned contract signed by the Government, with attachments.

If the terms and conditions of this contract meet with the approval of your office and the Applicant, insert in Article 3 of each copy of the contract the period of time within which the Operator will be required to begin this work. We are enclosing the 6 copies, each, of "Owner's Consents to Lien" signed by the 3 lessors, which were forwarded to us by your office. In Article 2 on these forms will you please have the amount of Government's contribution changed from $27,026.10 to $31,770.00, or have new MF-203 (Revised July 1, 1953) forms signed by the owners. These completed MF-203 forms should then be attached to each copy of the contract prior to its execution. When the original and all copies of the proposed contract have been signed by the Applicant, will you kindly distribute them according to the usual practice.

If any part of this proposed contract does not meet with the approval of the Applicant, the original and all copies are to be returned to this office with the proposed changes for consideration.

The Applicant requested exploration aid in the amount of $30,000.00 to diamond drill the subject property. The Field Team recommended a drilling program costing a total of $29,675.00, to drill 7500 feet of diamond drill holes (the same number of feet requested by the Applicant). The 600' grid spacing of the drill holes, recommended by the Field Team, was considered to be excessive by the commodity members, and a smaller grid pattern proposal was suggested to the Field Team. The new proposal, which has been agreed to by the Field Team and the Applicant, stipulates the drilling of 8880 feet of diamond drill holes at a total estimated cost of $35,300.00.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Enclosures

APPROVED:

J. H. Hedges

Member, Bureau of Mines

A. R. Kinkel, Jr.

Member, Geological Survey

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

Mining Division
Date Rec'd.
SEP 24 1953
BUREAU OF MINES
Denver, Colorado

September 22, 1953

Mr. J. W. Gramlich
P. O. Box 435
Moab, Utah

Dear Mr. Gramlich:

The question of your starting project work under DMEA Contract Idm-E577 recently signed by you as operator was discussed with Mr. Thurber upon his return to this office. It is believed that you should not start drilling under the contract now in effect because of the possibility of the complete revision of the contract terms which will probably result from Mr. R. P. Fischer's re-appraisal of the geologic conditions in the proposed project area. It is necessary to wait until the completion of the amendment procedure or the revision of the contract, since you probably could not be reimbursed for footage drilled before that time.

This office will process all matters pertaining to your contract as expeditiously as possible to avoid further unnecessary delays.

Very truly yours,

Stephen R. Wilson

Stephen R. Wilson, Chief
Minerals Development Branch
Mining Division, Region IV

cc: W. H. King
file
df

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

Mining Division
Date Rec'd.
SEP 24 1953
BUREAU OF MINES
Denver, Colorado

September 22, 1953

Memorandum

To: R. P. Fischer, Acting District Supervisor, Colorado Plateau District, Geological Survey, Grand Junction, Colo.

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

Subject: Docket No. DMEA 2771, Gramlich Minerals, Inc., San Juan County, Utah. Total amounts of drilling footage and money specified in original contract.

For your information, to aid in revision of the drilling program under the subject contract, the attached excerpt from the "Agreed Unit Costs" section of Exhibit "A" attached to the existing contract, is submitted.

Stephen R. Wilson

Stephen R. Wilson

Enclosure

cc: W. H. King (2)

file
df

Agreed Unit Costs

Stage I

Bulldozing--45 hours at $10.00/hr. 1/	$ 450.00	
Diamond Drilling--4980 feet at $3.89/ft. 2/	19,373.00	
Sample Analyses--57 at $3.00/ea. 3/	171.00	
Total Stage I		$19,994.00

Stage II

Diamond Drilling--3900 feet at $3.89/ft. 2/	$15,171.00	
Sample Analyses--45 at $3.00/ea. 3/	135.00	
Total Stage II		$15,306.00
Total Agreed Unit Cost of Project		**$35,300.00**
Government Participation at 90%		**$31,770.00**

1/ For actual operating time only, including the cost of rental, material, supplies, and operator.

2/ This includes also the cost of (1) the services of a full-time foreman to supervise the project, prepare drill sites, fix the location of drill holes, collect samples, store cores, and maintain records; (2) the services of a consulting engineer, approved by the Government (working a minimum of five days per month) who shall perform the necessary engineering and surveying services, prepare all maps and write all required reports; (3) the cost of all necessary casing and reaming, and core and sludge recovery; and (4) the cost of drill core boxes, and a pick-up truck, including the cost of a driver and all costs of operations of the truck.

3/ This includes all costs of transportation.

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

Mining Division
Date Rec'd
SEP 16 1953
Bureau of Mines
Denver, Colorado

September 14, 1953

Air Mail

Memorandum

To: R. P. Fischer, Acting District Supervisor, Colorado Plateau District, Geological Survey, Grand Junction, Colo.

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

Subject: Docket No. DMEA 2771, Gramlich Minerals, Inc., Grand County, Utah

H. K. Thurber from this office will meet your geologist, Gordon Weir, at Fern's Cafe in Moab September 17, 1953. Thurber should arrive in Moab by 9:00 a.m. J. W. Gramlich called at this office today and he was advised of the plan to examine his property.

Stephen R. Wilson

Stephen R. Wilson

cc: W. H. King (2)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
P. O. Box 360
Grand Junction, Colorado

September 10, 1953

Mining Division
Date Rec'd
SEP 11 1953
BUREAU OF MINES
Denver, Colorado

Mr. S. R. Wilson
U. S. Bureau of Mines
1600 East First South Street
Salt Lake City 1, Utah

Dear Steve:

Mr. J. W. Gramlich was in my office this morning to see about obtaining an amendment to his contract, Docket No. 2771. He said that Thurber suggested to him that he ~~find~~ carry the contract that had been prepared and then apply for an amendment to avoid further delays.

To check on proper procedure in this case, I called Bill King and outlined the problem to him. He suggested that we arrange for a joint examination with someone from your office, a geologist from our office, and Mr. Gramlich to prepare plans for an amendment. We are to request Gramlich to send King a letter applying for amendment and outlining the changes that he would like to obtain. At the same time, you office and ours can each prepare a memorandum report recommending the changes that are mutually agreeable. In this manner, Gramlich can start work in the near future, do that part that he wants to do anyway, and the amendment probably can be prepared before the work is very far along.

If it is possible to do so, we would like to arrange for this joint examination on September 17. Please let me know if this is satisfactory with your office. Mr. Gramlich will be in Salt Lake City early next week, and will probably call you on Monday or Tuesday to see if this date is agreeable. Gordon Weir will probably handle the work for our office, but I hope also to accompany him during the field examination. I suggest we plan to meet between 8:30 and 9:00 a.m. at Fern's Cafe in Moab.

If September 17 is not convenient with your office, please suggest a date sometime later in September.

Sincerely yours,

RB

R. P. Fischer
Acting District Supervisor
Colorado Plateau District

RPF/je
cc: W. H. King, A. H. Koschmann
G. J. file, Reading file

224 New Customhouse
Denver 2, Colorado

August 26, 1953

Memorandum

To: R. P. Fischer

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket No. DMEA 2771, Gramlich Minerals Inc.

Reference is made to your memorandum dated August 21, 1953 regarding the status of Docket No. DMEA 2771.

Copies of the proposed contract between the Government and Gramlich Minerals Inc. were sent to S. R. Wilson on August 10, 1953. The amount of the Government's contribution had been changed from $27,026.10 to $31,770.00.

The Owner's Consent to Lien forms had to be changed accordingly, and the changes initialed by the owners.

No doubt our Salt Lake office has contacted Mr. Gramlich by this time.

W. H. King

JFS:es

cc: Docket
Chron.
Wilson
Koschmann (2)

224 New Customhouse
Denver 2, Colorado

August 26, 1953

Memorandum

To: S. R. Wilson

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket No. DMEA 2771 - Gramlich Minerals Inc.

Enclosed is a copy of a memorandum dated August 21, 1953 from R. P. Fischer and a copy of our reply.

W. H. King
W. H. King

Enclosure

JFS:es

cc: Docket
Chron.
Koschmann (2) w/enc.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
P. O. Box 360
Grand Junction, Colorado

IN REPLY REFER TO:

Mining Division
Date Rec'd
AUG 24 1953
BUREAU OF MINES
Denver, Colorado

W. H. K
Shaw

August 21, 1953

Memorandum

To: W. H. King and A. H. Koschmann A.H.K.

From: R. P. Fischer

Subject: DMEA 2771

Yesterday, Mr. J. W. Gramlich, Gramlich Minerals, Inc., Moab, Utah, visited our office to inquire regarding the delay in processing his application DMEA 2771. Mr. Gramlich is anxious to start drilling operations as soon as possible on the chance that the work can be completed before adverse weather conditions later this year.

I briefly reviewed with Mr. Gramlich the story of the delay on this application, as I could determine it according to our file information, and told him I would write to you. If there is anything our office can do to expedite the processing of this application, please so inform us.

From what I know of the area and the applicant's proposal, it would seem to me that there is justification for a DMEA project on the property. I do not believe that the original proposal of the examining team, however, is the best project that can be undertaken (see my memorandum to W. H. King of June 17, 1953). Before making a definite recommendation for work on this project, however, it would be necessary for us to make a field examination. We will be glad to do so if you wish us to.

R. P. Fischer

R. P. Fischer
Acting District Supervisor
Colorado Plateau District

RPF/je

cc: King and Koschmann (2)
G. J. file
Reading file

AUG 1953
RECEIVED
U.S. Geological Survey
Mineral Deposits Branch
Denver

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
P. O. Box 360
Grand Junction, Colorado

August 21, 1953

Memorandum

To: W. H. King and A. H. Koschmann AHK

From: R. P. Fischer

Subject: DMEA 2771

Yesterday, Mr. J. W. Gramlich, Gramlich Minerals, Inc., Moab, Utah, visited our office to inquire regarding the delay in processing his application DMEA 2771. Mr. Gramlich is anxious to start drilling operations as soon as possible on the chance that the work can be completed before adverse weather conditions later this year.

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From what I know of the area and the applicant's proposal, it would seem to me that there is justification for a DMEA project on the property. I do not believe that the original proposal of the examining team, however, is the best project that can be undertaken (see my memorandum to W. H. King of June 17, 1953). Before making a definite recommendation for work on this project, however, it would be necessary for us to make a field examination. We will be glad to do so if you wish us to.

RPF

R. P. Fischer
Acting District Supervisor
Colorado Plateau District

RPF/je

cc: King and Koschmann (2)
G. J. file
Reading file

224 New Customhouse
Denver 2, Colorado

August 11, 1953

Memorandum

To: S. R. Wilson

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket No. DMEA 2771 (Uranium), Contract Idm-E577, Gramlich Minerals, Inc.

Enclosed is a copy of a transmittal letter, six copies of Form MF-104 and six copies of Form MF-104A to be delivered to the Operator with the signed copy of Contract No. Idm-E577.

The date on this transmittal letter has been left blank, so that you may insert the date of delivery of the contract.

W. H. King

W. H. King

Enclosures

JFS:es

cc: Contract
Chron.
Koschmann (2)

224 New Customhouse
Denver 2, Colorado

August 10, 1953

Memorandum

To: S. R. Wilson

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket No. DMEA 2771 (Uranium), Contract Idm-E577, Gramlich Minerals, Inc.

Enclosed are the original and five copies of Contract Idm-E577. Also enclosed is a transmittal letter from the Chairman of the Operating Committee.

You will note that the amount of Government contribution has been changed from $27,026.10 to $31,770.00. This change should be made on all copies of the Owner's Consent to Lien form, and the changes initialed by the owners. A copy of each of the three Owner's Consent to Lien forms should be attached to each copy of the contract. The original and four copies should then be delivered to the Operator for signature, retaining the Operator's copy. All copies should be signed by an authorized official of the company, the signature certified by the Secretary, the corporate seal affixed, and returned to this office. You may then deliver the Operator's copy of the contract.

The starting date has not been filled in in Article 3 of the contract form. It might be advisable to leave this blank until the corrected Owner's Consent to Lien forms are returned initialed by the owners. A suitable starting date should then be inserted in Article 3 of the contract form before the contracts are delivered to the Operator for signature.

W. H. King
W. H. King

Enclosures

JFS:es JFS

cc: Contract
Chron.
Koschmann (2)

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

Mining Division
Law Rec'd
AUG 10 1953
BUREAU OF MINES
Denver, Colorado

AUG 6 1953

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

Re: Docket No. DMEA-2771 (Uranium)
Gramlich Minerals, Inc.,
Brown's Hole Area
San Juan County, Utah

Dear Mr. King:

Enclosed are the original and five copies of the captioned contract signed by the Government, with attachments.

If the terms and conditions of this contract meet with the approval of your office and the Applicant, insert in Article 3 of each copy of the contract the period of time within which the Operator will be required to begin this work. We are enclosing the 6 copies, each, of "Owner's Consents to Lien" signed by the 3 lessors, which were forwarded to us by your office. In Article 2 on these forms will you please have the amount of Government's contribution changed from $27,026.10 to $31,770.00, or have new MF-203 (Revised July 1, 1953) forms signed by the owners. These completed MF-203 forms should then be attached to each copy of the contract prior to its execution. When the original and all copies of the proposed contract have been signed by the Applicant, will you kindly distribute them according to the usual practice.

If any part of this proposed contract does not meet with the approval of the Applicant, the original and all copies are to be returned to this office with the proposed changes for consideration.

The Applicant requested exploration aid in the amount of $30,000.00 to diamond drill the subject property. The Field Team recommended a drilling program costing a total of $29,675.00, to drill 7500 feet of diamond drill holes (the same number of feet requested by the Applicant). The 600' grid spacing of the drill holes, recommended by the Field Team, was considered to be excessive by the commodity members, and a smaller grid pattern proposal was suggested to the Field Team. The new proposal, which has been agreed to by the Field Team and the Applicant, stipulates the drilling of 8880 feet of diamond drill holes at a total estimated cost of $35,300.00.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee

Enclosures

APPROVED:

G. H. Hedges
Member, Bureau of Mines

C. P. Ruhsell
Member, Geological Survey

224 New Customhouse
Denver 2, Colorado

August 7, 1953

Memorandum

To: C. D. Nittendorf
DMEA Administrator

From: Executive Officer, DMEA Field Team, Region IV

Subject: Gramlich Minerals Inc., Docket 2771

Mr. Gramlich of the Gramlich Minerals Inc. was in the Denver office today inquiring about the status of his contract.

We informed him that the contract was being prepared in the Washington office, and that it would be expedited.

John F. Shaw
John F. Shaw
For W. H. King

JFS:es

cc: Docket
Chron.
Wilson
Koschmann (2)

224 New Customhouse
Denver 2, Colorado

July 17, 1953

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket No. DMEA-2771 (Uranium), Gramlich Minerals, Inc., San Juan County, Utah

Reference is made to your letter of July 7, 1953 concerning the subject docket.

Consideration has been given your counter proposal of closer spacing of the holes than was originally recommended in the final report.

We accept your modifications. Please prepare the contract accordingly.

W. H. King

W. H. King

HMC:es

cc: Docket
Chron.
Connors
Wilson
Koschmann (2)

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

Mining Division
Date Rec'd
JUL 11 1953
BUREAU OF MINES
Denver, Colorado

JUL 7 1953

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

Re: Docket No. DMEA-2771 (Uranium)
Gramlich Minerals, Inc.
San Juan County, Utah

Dear Mr. King:

Reference is made to your memorandum of June 19, 1953, and to the enclosed memorandum from Mr. R. P. Fischer, concerning the above captioned application.

Mr. Fischer and Mr. Butler in their reviews of the method outlined by the Field Team to explore the subject property, both state that the chances of finding ore with drill holes spaced 500 to 600 feet apart are not favorable. They therefore suggest closer spacing of the holes.

As a counter proposal to the one you submitted, we are enclosing a rough sketch showing a grid pattern for drilling the two areas shown in the Field Team's report. The principal drill lines in this sketch are spaced 300 feet apart and the holes on the lines are at 400 foot intervals.

In Area A, the holes 1 to 10 (colored red) are to be drilled first. Then if the Field Team agrees, drill the holes marked in blue (on the sketch), or set up a new grid pattern based on the results obtained from the first ten holes. In Area B, drill the holes marked 1 to 9 (colored red) and then proceed in the same manner as outlined for drilling Area A.

The enclosed sketch is merely to show the proposed spacing for drilling the subject areas, the actual location of the lines and drill holes being dependent on local conditions, will naturally be decided upon by the Field Team.

You will note that each hole (colored red) explores an area of 120,000 square feet, and that the holes (colored blue), spaced at 200 foot intervals on lines 150 feet apart, each explore an area of 30,000 square feet. We believe the spacing of the above holes should be our maxima and minima in exploring this property by diamond drilling, and any offset holes drilled to determine the limits of ore found in the exploration project holes, should be considered development drilling.

The depth of the holes averaging 220 feet in Area A and 320 feet in Area B preclude the possibility of wagon drilling by which method the drill holes could be spaced closer and the drilling costs for the subject areas could still be maintained at a reasonable figure.

In exploring the subject property, consideration should also be given to the possibility of drilling horizontal or slightly inclined diamond drill holes from sites near known ore bodies.

Will you kindly review the above counter proposals and then send us your recommendation either for the original proposal as submitted by the Field Team or a new proposal based on the above suggestions.

Sincerely yours,

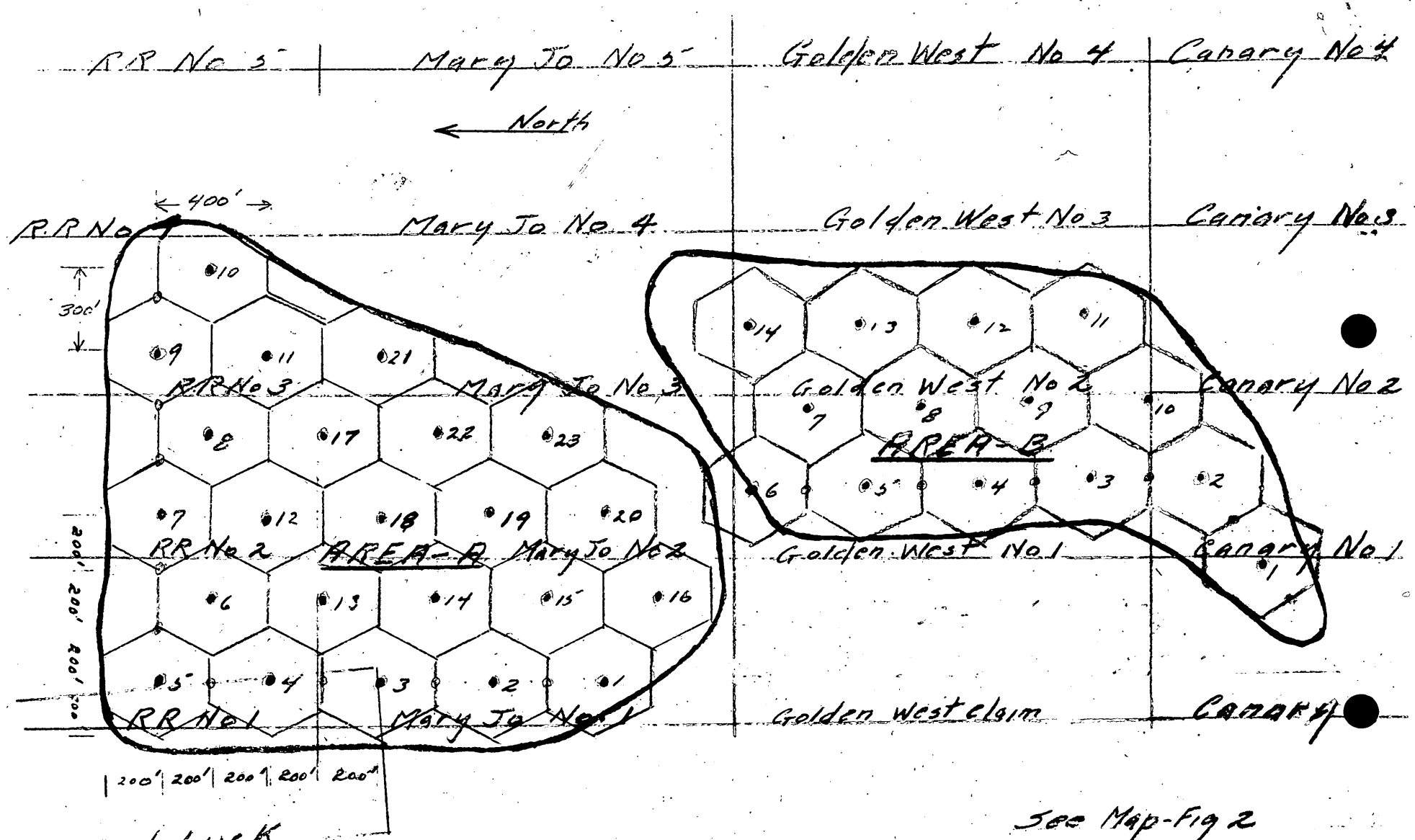
George C. Selfridge
Chairman, Operating Committee

Enclosures

APPROVED:

R. H. Hedges
Member, Bureau of Mines

A. R. Tankel
Member, Geological Survey



Scale 1" = 500'

See Map-Fig 2
DMEA Docket No. 2771
Gramlich Minerals Inc.
San Juan County, Utah.

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

JUL 7 1953

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

Re: Docket No. DMEA-2771 (Uranium)
Gramlich Minerals, Inc.
San Juan County, Utah

Dear Mr. King:

Reference is made to your memorandum of June 19, 1953, and to the enclosed memorandum from Mr. R. P. Fischer, concerning the above captioned application.

Mr. Fischer and Mr. Butler in their reviews of the method outlined by the Field Team to explore the subject property, both state that the chances of finding ore with drill holes spaced 500 to 600 feet apart are not favorable. They therefore suggest closer spacing of the holes.

As a counter proposal to the one you submitted, we are enclosing a rough sketch showing a grid pattern for drilling the two areas shown in the Field Team's report. The principal drill lines in this sketch are spaced 300 feet apart and the holes on the lines are at 400 foot intervals.

In Area A, the holes 1 to 10 (colored red) are to be drilled first. Then if the Field Team agrees, drill the holes marked in blue (on the sketch), or set up a new grid pattern based on the results obtained from the first ten holes. In Area B, drill the holes marked 1 to 9 (colored red) and then proceed in the same manner as outlined for drilling Area A.

The enclosed sketch is merely to show the proposed spacing for drilling the subject areas, the actual location of the lines and drill holes being dependent on local conditions, will naturally be decided upon by the Field Team.

You will note that each hole (colored red) explores an area of 120,000 square feet, and that the holes (colored blue), spaced at 200 foot intervals on lines 150 feet apart, each explore an area of 30,000 square feet. We believe the spacing of the above holes should be our maxima and minima in exploring this property by diamond drilling, and any offset holes drilled to determine the limits of ore found in the exploration project holes should be considered development drilling.

The depth of the holes averaging 220 feet in Area A and 320 feet in Area B preclude the possibility of wagon drilling by which method the drill holes could be spaced closer and the drilling costs for the subject areas could still be maintained at a reasonable figure.

In exploring the subject property, consideration should also be given to the possibility of drilling horizontal or slightly inclined diamond drill holes from sites near known ore bodies.

Will you kindly review the above counter proposals and then send us your recommendation either for the original proposal as submitted by the Field Team or a new proposal based on the above suggestions.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Enclosures

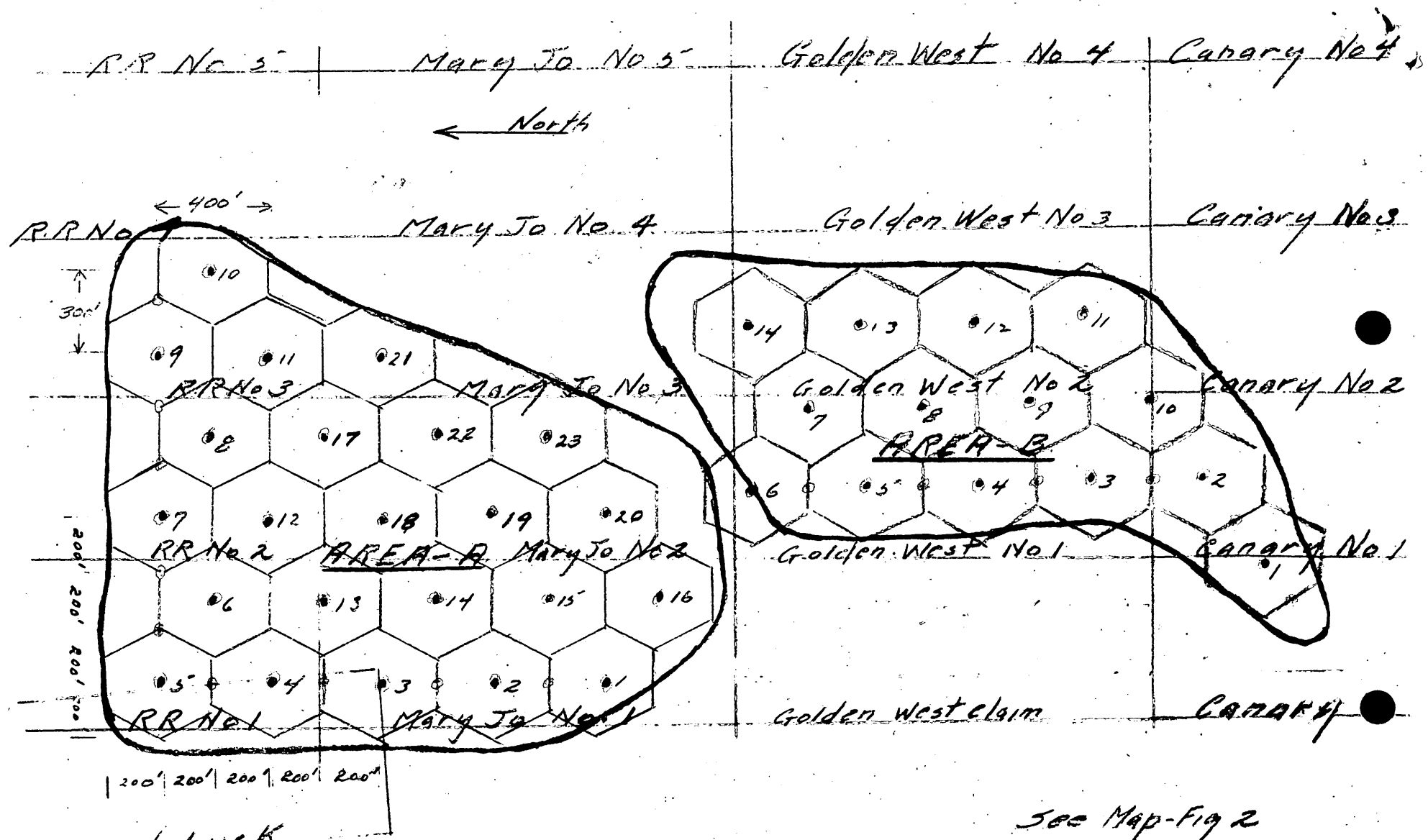
APPROVED:

J. H. Hedges

Member, Bureau of Mines

A. R. Kinkel, Jr.

Member, Geological Survey



Scale 1" = 500'

See Map-Fig 2
DMEA Docket No 2771
Gramlich Minerals Inc.
San Juan County, Utah.

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

JUL 7 1953

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

Re: Docket No. DMEA-2771 (Uranium)
Gramlich Minerals, Inc.
San Juan County, Utah

Dear Mr. King:

Reference is made to your memorandum of June 19, 1953, and to the enclosed memorandum from Mr. R. P. Fischer, concerning the above captioned application.

Mr. Fischer and Mr. Butler in their reviews of the method outlined by the Field Team to explore the subject property, both state that the chances of finding ore with drill holes spaced 500 to 600 feet apart are not favorable. They therefore suggest closer spacing of the holes.

As a counter proposal to the one you submitted, we are enclosing a rough sketch showing a grid pattern for drilling the two areas shown in the Field Team's report. The principal drill lines in this sketch are spaced 300 feet apart and the holes on the lines are at 400 foot intervals.

In Area A, the holes 1 to 10 (colored red) are to be drilled first. Then if the Field Team agrees, drill the holes marked in blue (on the sketch), or set up a new grid pattern based on the results obtained from the first ten holes. In Area B, drill the holes marked 1 to 9 (colored red) and then proceed in the same manner as outlined for drilling Area A.

The enclosed sketch is merely to show the proposed spacing for drilling the subject areas, the actual location of the lines and drill holes being dependent on local conditions, will naturally be decided upon by the Field Team.

You will note that each hole (colored red) explores an area of 120,000 square feet, and that the holes (colored blue), spaced at 200 foot intervals on lines 150 feet apart, each explore an area of 30,000 square feet. We believe the spacing of the above holes should be our maxima and minima in exploring this property by diamond drilling, and any offset holes drilled to determine the limits of ore found in the exploration project holes, should be considered development drilling.

The depth of the holes averaging 220 feet in Area A and 320 feet in Area B preclude the possibility of wagon drilling by which method the drill holes could be spaced closer and the drilling costs for the subject areas could still be maintained at a reasonable figure.

In exploring the subject property, consideration should also be given to the possibility of drilling horizontal or slightly inclined diamond drill holes from sites near known ore bodies.

Will you kindly review the above counter proposals and then send us your recommendation either for the original proposal as submitted by the Field Team or a new proposal based on the above suggestions.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Enclosures

APPROVED:

J. H. Hedges

Member, Bureau of Mines

A. R. Kinkel, Jr.

Member, Geological Survey

FMMurphy/db
7-6-53
cc to: Adm. Reading File
Operating Committee
Docket
Messrs: H.D.Keiser, Rm. 3641
A.P.Butler, Rm. 3206, GSA
Ellis
Murphy
DMEA Field Team, Region IV (2)

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

Mr. W. H. King
Executive Officer
DMEA Field Team, Region IV
221 New Customhouse Building
Denver 2, Colorado

Re: Docket No. DMEA-2771 (Uranium)
Gremlich Minerals, Inc.
San Juan County, Utah

Dear Mr. King:

Reference is made to your memorandum of June 19, 1953, and to the enclosed memorandum from Mr. R. P. Fischer, concerning the above captioned application.

Mr. Fischer and Mr. Butler in their reviews of the method outlined by the Field Team to explore the subject property, both state that the chances of finding ore with drill holes spaced 500 to 600 feet apart are not favorable. They therefore suggest closer spacing of the holes.

As a counter proposal to the one you submitted, we are enclosing a rough sketch showing a grid pattern for drilling the two areas shown in the Field Team's report. The principal drill lines in this sketch are spaced 300 feet apart and the holes on the lines are at 400 foot intervals.

In Area A, the holes 1 to 10 (colored red) are to be drilled first. Then if the Field Team agrees, drill the holes marked in blue (on the sketch), or set up a new grid pattern based on the results obtained from the first ten holes. In Area B, drill the holes marked 1 to 9 (colored red) and then proceed in the same manner as outlined for drilling Area A.

The enclosed sketch is merely to show the proposed spacing for drilling the subject areas, the actual location of the lines and drill holes being dependent on local conditions will naturally be decided upon by the Field Team.

You will note that each hole (colored red) explores an area of 120,000 square feet, and that the holes (colored blue), spaced at 200 foot intervals on lines 150 feet apart, each explore an area of 30,000 square feet. We believe the spacing of the above holes should be our maxima and minima in exploring this property by diamond drilling, and any offset holes drilled to determine the limits of ore found in the exploration project holes should be considered development drilling.

The depth of the holes averaging 220 feet in Area A and 320 feet in Area B preclude the possibility of wagon drilling by which method the drill holes could be spaced closer and the drilling costs for the subject areas could still be maintained at a reasonable figure.

In exploring the subject property, consideration should also be given to the possibility of drilling horizontal or slightly inclined diamond drill holes from sites near known ore bodies.

Will you kindly review the above counter proposals and then send us your recommendation either for the original proposal as submitted by the Field Team or a new proposal based on the above suggestions.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Enclosures

APPROVED:

J. H. Hedges

Member, Bureau of Mines

A. R. Kinkel, Jr.

Member, Geological Survey

FMMurphy/db
7-6-53
cc to: Adm. Reading File
Operating Committee
Docket
Messrs: H.D.Keiser, Rm. 3641
A.P.Butler, Rm. 3206, GSA
Ellis
Murphy
DMEA Field Team, Region IV (2)

224 New Customhouse
Denver 2, Colorado

July 3, 1953

Mr. J. W. Gramlich, Sr., President
Gramlich Minerals, Inc.
Moab, Utah

Dear Mr. Gramlich:

Reference is made to our telephone conversation of July 1, 1953.

The contract on your application for exploration assistance, Docket No. DMEA 2771, is being prepared in the Washington office. We will not know the final form of this contract until it is received in this office. Therefore we are unable to advise you whether or not you will be authorized to perform the work on a contract basis, or whether the work will be authorized on a cost-incurred basis.

Very truly yours,

W. H. King

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

JFS:fwo

cc SRWilson
Contract
Chron
Koschmann (2)

224 New Customhouse
Denver 2, Colorado

June 29, 1953

Mr. J. W. Gramlich, Sr.
President
Gramlich Minerals, Inc.
Moab, Utah

Dear Mr. Gramlich:

This will acknowledge receipt of your letter dated June 23, 1953 to which were attached signed copies of Owner's Consent to Lien, Form MP-203.

The Owner's Consent to Lien forms have been sent to the Washington office for inclusion in the contract.

We would not recommend that you spend any money on the project until you receive a signed copy of the contract. We can not reimburse you for expenses incurred prior to the effective date of the contract.

Very truly yours,

W. H. King

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

JFS:fwe

cc Chairman, OperComm.
SEWilson
Shaw
Chron
Subject

224 New Customhouse
Denver 2, Colorado

June 29, 1953

Memorandum

To: Chairman of the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket No. DMEA 2771, Gramlich Minerals, Inc.

Enclosed are six copies of three sets of Owner's Consent to Lien signed by the respective owners of the claims involved in Docket No. DMEA 2771.

Also enclosed is a copy of a letter from J. W. Gramlich, Sr., and a copy of our reply.

W. H. King
W. H. King

Enclosure

JFS:fwe

cc SRWilson
Shaw
Chron
Koschmann (2)
Subject

Date Rec'd
JUN 26 1953
BUREAU OF MINES
Denver Colorado

Moab, Utah,
June 23, 1953.

Mr. W. H. King,
Executive Officer, DMEA,
Field Team, Region IV,
U. S. Bureau of Mines,
224 New Customhouse,
Denver 2, Colorado.

Re: Docket No. DMEA-2771

Dear Mr. King:

Acknowledging receipt of your letter of June 16, with which you kindly inclosed for execution three sets of six copies each of Owner's Consent to Lien Form MF-203;

Each set of the above-mentioned copies has been signed by the respective owners and all of them are handed to you herewith for your further consideration.

Anything you may be in position to do to expedite the consummation of this loan will be greatly appreciated, especially in view of the fact that a lot of wonderful weather for development work is getting away.

Will you kindly advise me whether or not this loan, when made, will provide for the payments to be forthcoming on the basis of footage drilled during each period and, if so, would you consider it advisable, and would it be agreeable with you folks, for us to go ahead and procure a diamond drill of our own to carry out this drilling program?

Thanking you in advance, I am

Yours very truly,

H. E. Gramlich Sr.
President, Gramlich Minerals, Inc.
and Gramlich Exploration Co

3 Sets inclosures.

224 New Customhouse
Denver 2, Colorado

June 19, 1953

Memorandum

To: Chairman, Operating Committee
Defense Minerals Exploration Administration

From: Executive Officer, DMEA Field Team, Region IV

Subject: DMEA Docket 2771, Gramlich Minerals, Inc., San Juan County, Utah (Uranium)

Reference is made to your letter of May 26, to which are attached memoranda from Mr. Butler of the Geological Survey and Mr. Keiser of the Bureau of Mines.

We have received a copy of a letter dated June 8, 1953, from C. G. Tillman and addressed to Mr. Butler in reply to these memoranda.

We are enclosing a memorandum dated June 17, 1953, from R. F. Fischer, regarding Mr. Butler's comments on this application.

W. H. King
W. H. King

Enclosure

JRS:ld

cc: Wilson w/copy of Fischer's memo
Koschmann
sub
chron

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

P. O. Box 360
Grand Junction, Colorado

IN REPLY REFER TO:
Mining Division
Date Rec'd
JUN 18 1953
BUREAU OF MINES
Denver, Colorado

June 17th, 1953

Memorandum

To: W. H. King

From: R. P. Fischer R. P. Fischer

Subject: DMEA 2771, Gramlich Minerals, Inc., San Juan Co., Utah

Reference is made to your memorandum of June 10, and to attached copies of other memoranda. You request my comments regarding the project plan proposed by the field team report.

In my opinion, A. P. Butler's comments and questions re the proposed plan are pertinent and ~~on these~~ are those I would raise--namely, the exploration target and its size and character.

I am only vaguely familiar with the general area, having seen one or two deposits there about 10 years ago, and we have no other file information on the area.

Although the size and distribution of the known deposits is not given in either the text nor the map of the field team report, it must be assumed that the deposits are small (probably less than 100 feet across) and widely scattered along the outcrop. Thus the chance of hitting deposits with stage 1 drill holes (spaced about 400 to 600 feet apart) is slim.

Perhaps it was the intention of the field team that the target for stage 1 drilling would be geologically favorable ground, as is the target of the first phase of the exploration work being done by the USGS for the AEC. If so, there is no information in the report to indicate the ~~interia~~ criteria that may be useful in appraising ground, and there is no specific plan for applying this approach.

The picture to me in Grand Junction is about the same as it was to Butler in Washington. Neither of us can say that the proposed plan won't find ore, but the chances of discovering minable ore bodies are so small that I would recommend turning it down. Like Butler, I would be far more favorably inclined to a plan of

drilling within 100 or 200 feet of the known deposits, to find extensions of them or possibly nearby deposits, but even for a plan of this kind I would desire more information than available to me now.

I recommend that the project be denied or returned to the field team, either for further supporting information or for a modification of the proposed plan.

R. P. Fischer
Acting District Supervisor

RPF/kws

encl.

224 New Customhouse
Denver 2, Colorado

May 29, 1953

Memorandum

To: S. R. Wilson
Ralph Roberts

From: Executive Officer, DMEA Field Team, Region IV

Subject: Final Report, Docket DMEA-2771, Gramlich Minerals, Inc., San Juan County, Utah

Enclosed is a copy of a letter dated May 26, 1953 from the Chairman of the Operating Committee to the Executive Officer, a copy of a memorandum dated May 18, 1953 from the Bureau of Mines Member, Uranium Commodity Committee, to the DMEA, and a copy of a memorandum dated May 13, 1953 from the USGS Member, Uranium Commodity Committee, to the DMEA.

Please give us your comments regarding the enclosed matter. Processing of this application will be withheld pending receipt of your comments.

for John F. Shaw
W. H. King

Enclosures

JFS:jp
cc Subject
Chron
AHKoschmann w/encls

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

Mining Division
Date Rec'd. MAY 2 6 1953

MAY 29 1953

BUREAU OF MINES
Denver, Colorado

Mr. W. H. King
Executive Officer
DMEA Field Team, Region IV
224 New Customhouse Bldg.
Denver 2, Colorado

Re: Docket No. DMEA 2771 (Uranium)
Gramlich Minerals, Inc.
Brown's Hole Area
San Juan County, Utah

Dear Mr. King:

Enclosed are copies of memoranda from Mr. Butler of the Geological Survey, dated May 13th, and Mr. Keiser, dated May 18, 1953, of the Bureau of Mines, members of the Uranium Commodity Committee, containing comments and recommendations concerning the exploration program, as outlined by the Field Team, for the Brown's Hole area.

We would like your comments on the questions raised by Mr. Butler, before we further process the subject application.

To date, we have not received the lease agreement or the Owner's Consent to Lien on the Brown's Hole property.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee

APPROVED:

J. W. Hedges
Member, Bureau of Mines

A R Kinkel Jr
Member, Geological Survey

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

May 18, 1953

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee, Room 4640

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 19 1953

From: H. D. Keiser, Bureau of Mines Member
Uranium Commodity Committee

Subject: Final Report, DMEA Docket 2771, Gramlich Minerals, Inc., San Juan County, Utah

I have reviewed the subject report and discussed it with Mr. Arthur P. Butler, Geological Survey Member, and Mr. Joseph O. Hosted, representative of the Atomic Energy Commission.

I concur with the views expressed by Mr. Butler in his memorandum on the report, and suggest that the field team be requested to furnish the information indicated by Mr. Butler

Signed

H. D. Keiser

DEPARTMENT OF
Defense Atomic
MAY 19 1953

E. Wm. Ellis, DMEA Member
Uranium Commodity Committee

May 13, 1953

Arthur P. Butler, Jr., USGS Member, Uranium Commodity Committee

Field Team Report, DMEA Docket 2771 (uranium) Gramlich Minerals Inc., applicant, Browns' Hole Property, Red Rocks, Mary Jo, Holden West, and Canary claim groups, Secs. 24-26, and 33-35, T. 28S., R. 23E., San Juan Co., Utah.

I have reviewed the Field Team report pertaining to the property identified in the subject above and discussed it with H. D. Keiser, Bureau of Mines member of the Commodity Committee.

Exploration proposal

The Field Team examined the property and determined in consultation with members of the staffs of the Geological Survey and Atomic Energy Commission, Grand Junction, Colo., that neither organization had drilled the property. The Field Team recommends exploration of the upper part of the Salt Wash member of the Morrison formation, which is the host for uranium ore bodies in the area, by diamond drilling in two stages. In the first stage 19 holes totalling 5,180 feet of drilling would be drilled. Holes are to be spaced 500 feet apart on a mainly rectangular grid starting an unspecified distance back of the outcrop or from known ore bodies. The objectives of this stage would be to search for new ore bodies and to obtain information on the geologic favorability for ore. In stage 2, an additional 2,320 feet would be drilled in holes at sites determined on the basis of information gained in the first stage of drilling.

Comment

These claims have produced some ore as shown by the incomplete record that the Field Team was able to obtain, and the conclusion of the team that other small ore bodies may be found by further exploration appears sound. No estimate of the size of known ore bodies is made in the report nor is the pattern of distribution of the ore bodies indicated in the report or on the map. Both features would be useful in appraising the suitability of the suggested plan of exploration. Although the proposed plan may be an entirely logical way to proceed why, was the advisability of drilling a more closely spaced pattern of holes near known ore bodies not considered? Or, if considered, why was it

discarded in favor of more widespread exploration? In the long run the proposed plan may provide the basis for a better overall appraisal of the claim groups, but closely spaced holes near known ore bodies might find extensions of known ~~new~~ ore bodies, or new ore bodies that could be mined sooner and more easily than ore found at points more remote from the outcrop, and drilling near known ore might also develop information useful in planning exploration in less well known ground.

Perhaps the examining members of the field team reviewed these problems with geologists of the Survey and AEC in Grand Junction who have considerable experience in this type of exploration, and the suggested plan is the result of the consensus of such review. The report, however, does not indicate this.

Recommendation

As the Field Team report does not set forth the geologic factors considered in arriving at the suggested plan of exploration sufficiently clearly to permit judgement of its suitability, or alternatively as it does not indicate that the plan appears reasonable to the local geologists familiar with exploration of similar deposits, although the plan may be the logical one for this property, the basis for estimating the appropriateness of the plan is inadequate although it may be entirely suitable. I suggest that the questions raised in the preceding paragraph be called to the attention of the Field Team.

Arthur P. Butler, Jr.

Copy to: E.Wm. Ellis (2)

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

Mining Division
Date Rec'd
JUN 12 1953
BUREAU OF MINES
Denver, Colorado

June 10, 1953

Memorandum

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

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

Subject: DMEA-2771, Gramlich Minerals, Inc., San Juan County, Utah. Your memorandum of May 29, 1953

The subject report and memoranda transmitted with your communication of above date have been discussed with the examining team. The Survey member of the team, C. G. Tillman, has written a letter to Arthur P. Butler, commenting on the questions brought out in Butler's discussion of the diamond drilling proposals. The original of the letter is attached.

Information presented in Tillman's letter sufficiently clarifies the exploratory proposals and questions asked by Butler. I concur with the conclusions.

Stephen R. Wilson
Stephen R. Wilson

Enclosure

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

June 10, 1953

Memorandum

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

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

Subject: DMEA-2771, Gramlich Minerals, Inc., San Juan County, Utah. Your memorandum of May 29, 1953

The subject report and memoranda transmitted with your communication of above date have been discussed with the examining team. The Survey member of the team, C. G. Tillman, has written a letter to Arthur P. Butler, commenting on the questions brought out in Butler's discussion of the diamond drilling proposals. The original of the letter is attached.

Information presented in Tillman's letter sufficiently clarifies the exploratory proposals and questions asked by Butler. I concur with the conclusions.

Stephen R. Wilson

Enclosure

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Room 208, 222 So. West Temple
Salt Lake City 1, Utah
8 June 1953

Mr. Arthur Butler, Jr.
U.S.G.S. Member
Uranium Commodity Committee
U. S. Geological Survey
Denver Federal Center,
Denver, Colorado

Dear Mr. Butler:

With reference to your memorandum to E. W. Ellis, dated May 13, 1953 concerning the application of Gramlich Minerals, Inc., DMEA Docket 2771, for a DMEA loan on their property in the Brown's Hole area near Moab, Utah, I hope the following discussion will explain our reasons for recommending approval of this application.

The area underlying the Gramlich claims is mesa-like and is a southwestward extension of the LaSal Mountains. The north, west, and south sides of the area are roughly outlined by the contact between the Salt Wash member and the Brushy Basin member of the Jurassic Morrison formation as shown on the map accompanying our report. Uranium minerals have been found discontinuously around the perimeter of this area in the upper part of the Salt Wash member, i.e. near the eastern end of the Blue Goose No. 2 claim, on the Blue Jay claim, on the Pine Tree claim, on the Blue Bird claim, and on a claim, not shown on this map, southeast of the Blue Bird claim. Uranium minerals have also been found on the north side of Brown's Hole near the Martin Farm. Thus, there is evidence of widespread mineralization and, we think, the prospect of finding new ore-bodies, particularly in the vicinity of known ore-bodies, is good.

The showings of uranium ore that were accessible at the time of our examination were small, it was difficult to determine the trend and size of ore bodies. In the Blue Jay workings the thickness of the uranium-bearing layer ranges from an inch in clayey material to two feet in conglomeratic sandstone. The uranium-bearing layer is lenticular, but the workings indicate that the layer extends more than 50 feet eastward under the rim on both the Blue Jay and Pine Tree claims. One objective of the proposed exploratory program to determine the size and trend of the ore bodies; other objectives are to determine the potentialities of the area and to discover new ore bodies if possible. We are not primarily interested in developing known ore bodies, but hope that our drilling grid helps extend known ore bodies.

The area outlined by the proposed drill holes, shown on the accompanying map, was suggested as a likely location for this work because of its proximity to known ore-bodies on the Blue Jay claim and because of the general absence of

Brushy Basin overburden. There appears to be no considerable thinning of the underlying Salt Wash member by erosion. Mining has been carried on at the western end of the Blue Jay claim during 1952 and early 1953. Production data for this claim is included in our earlier report.

The rather wide spacing of the proposed holes was originally requested by the applicant and was approved by the examining team. It was felt that this wide spacing will make possible the exploration of a large and promising area at relatively low cost, whereas drilling of more closely spaced holes would permit exploration of only a small area near the mine workings, a job perhaps more readily done by the operator by extending present workings. The first stage of proposed drilling is of a reconnaissance nature and will, we hope, provide information now lacking concerning the trends of the orebodies, possible eastward extension of the Blue Jay ore-body, and such data concerning structural control of ore-bodies as drilling may provide. The westernmost north-south row of holes will be less than 500 feet east of the rim of the Salt Wash member above the Blue Jay workings. Provision has been made for a second stage of drilling on a more closely-spaced pattern if ore is discovered on the widely spaced pattern.

We have discussed the proposed program informally with Lowell Hilpert who concurs with our drilling plan. He emphasized that a geologist should closely supervise the drilling and suggested that we might make provision for offset holes near the workings. Perhaps this should be included in the drilling plan.

Sincerely yours,

C. G. Tillman/J.T

C. G. Tillman

224 New Customhouse
Denver 2, Colorado

June 16, 1953

Mr. J. W. Gramlich, Sr., President
Gramlich Minerals, Inc.
Moab, Utah

Re: Docket No. DMEA-2771

Dear Mr. Gramlich:

Enclosed are three sets of Owner's Consent to Lien Form MF-203. All six copies of each set should be signed by the owners of the properties listed in the respective Annexes.

When these have been returned to us properly executed we can further process your application for exploration assistance, Docket No. DMEA-2771.

Very truly yours,

W. H. King

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

Enclosures

JFS:jp
cc Subject
Chron
SRWilson
RPFischer
AHKoschmann

224 New Customhouse
Denver 2, Colorado

June 16, 1953

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket No. DMEA-2771, Gramlich Minerals, Inc., Brown's Hole Area, San Juan County, Utah (Uranium)

Owner's Consent to Lien Forms MF-203 have been sent to J. W. Gramlich as requested in your letter dated June 11, 1953.

W. H. King

W. H. King

JFS:jp
cc Subject
Chron
SRWilson

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

Mining Division
Date Rec'd
JUN 15 1953
BUREAU OF MINES
Denver, Colorado

Mr. W. H. King
Executive Officer
DMEA Field Team, Region IV
224 New Customhouse Bldg.,
Denver 2, Colorado

JUN 1 1953

Re: Docket No. DMEA-2771 (Uranium)
Gramlich Minerals, Inc.,
Brown's Hole Area
San Juan County, Utah

Dear Mr. King:

Reference is made to your letter dated May 27, 1953, on the captioned application.

The amount of Government participation will be near the total estimated cost cited in your report of April 30, 1953. Your estimate of the cost of core boxes seems high, nevertheless, you may use your estimate plus the additions mentioned in your letter of May 27, 1953, as the amount of the Government's contribution in the Owner's Consent to Lien form.

The subject application for Defense Minerals Exploration Administration aid requested by Gramlich Minerals, Inc. may continue under that name. However, if a transfer is made, as you mention, to J. W. Gramlich and Sons, we will then need copies of the Assignment of Lease.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee

APPROVED:

J. H. Hedges
Member, Bureau of Mines

A R Kuhel Jr
Member, Geological Survey

O C K sent Gramlich

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

Mr. W. H. King
Executive Officer
DMEA Field Team, Region IV
224 New Customhouse Bldg.,
Denver 2, Colorado

JUN 1953

Re: Docket No. DMEA-2771 (Uranium)
Gramlich Minerals, Inc.,
Brown's Hole Area
San Juan County, Utah

Dear Mr. King:

Reference is made to your letter dated May 27, 1953, on the captioned application.

The amount of Government participation will be near the total estimated cost cited in your report of April 30, 1953. Your estimate of the cost of core boxes seems high, nevertheless, you may use your estimate plus the additions mentioned in your letter of May 27, 1953, as the amount of the Government's contribution in the Owner's Consent to Lien form.

The subject application for Defense Minerals Exploration Administration aid requested by Gramlich Minerals, Inc. may continue under that name. However, if a transfer is made, as you mention, to J. W. Gramlich and Sons, we will then need copies of the Assignment of Lease.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

APPROVED:

J. H. Hedges

Member, Bureau of Mines

A. R. Kinkel, Jr.

Member, Geological Survey

224 New Customhouse
Denver 2, Colorado

June 10, 1953

Memorandum

To: R. P. Fischer

From: Executive Officer, DMEA Field Team, Region IV

Subject: Final Report, Docket DMEA-2771, Gramlich Minerals, Inc., San Juan County, Utah

Enclosed is a copy of a letter dated May 26, 1953 from the Chairman of the Operating Committee to the Executive Officer, a copy of a memorandum dated May 18, 1953 from the Bureau of Mines Member, Uranium Commodity Committee, to the DMEA, and a copy of a memorandum dated May 13, 1953 from the USGS Member, Uranium Commodity Committee, to the DMEA.

Please give us your comments regarding the enclosed matter. Processing of this application will be withheld by the Washington office pending receipt of your comments.

Copies of the enclosures were inadvertently sent to Ralph Roberts rather than to your office on May 29, 1953, therefore we request that you give this matter your immediate attention.

W. H. King

W. H. King

Enclosures

JFS:jp
cc Subject
Chron
SRWilson
RRoberts
AHKoschmann

224 New Customhouse
Denver 2, Colorado

June 10, 1953

Mr. J. W. Gramlich, Sr., President
Gramlich Minerals, Inc.
Moab, Utah

Dear Mr. Gramlich:

This will acknowledge your letter dated June 4, 1953, regarding the status of Docket DMEA-2771.

A contract is being prepared in the Washington office. If they require any additional information we will notify you.

Very truly yours,

W. H. King

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

JFS:jp
cc Subject
Chron
SRWilson
AHKoschmann

Re-Docket U.M.E.A. 2771 Uranium

Moab, Utah.
June 4, 1953

Mr W.H. King
U.S. Dept of Interior
D.M.E.A.
224 New Custom House Bldg
Denver 2, Colo.

Mining Division
Date Rec'd.
JUN 8 - 1953
BUREAU OF MINES
Denver, Colorado

Dear Mr King:

In may I phoned your office relative to present status of above Docket No Foam. & was advised that copies of leases to claims involved & permission of claim owners — (subordination agreements) were not forwarded by your office to Washington with other papers for preparation of contract. - same having been misplaced. Since then I have sent to you Photostatic copies of lease agreement by S.V. & Irene Granlich.

Do you now have all information required by your Washington office? If not will you please advise just what you yet need & send forms, if any, so that I may do all possible to assist you.

This application has been pending for over eight months & we are very very anxious to get operations under way.

Thanking you kindly for past Co-Operation

We are, Very Truly yours
Granlich Minerals Inc.
By J.W. Granlich Sr. Pres

224 New Customhouse
Denver 2, Colorado

May 27, 1953

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Docket DMEA 2771, Gramlich Minerals, Inc., Brown's Hole Property (Uranium)

Reference is made to the letter dated May 14, 1953, from the Chairman of the Operating Committee.

We are enclosing a copy of a bond and lease agreement between Samuel V. Gramlich and Gramlich Minerals, Inc., a photostat of a bond and lease agreement between Irene S. Gramlich and Gramlich Minerals, Inc., and a letter from J.A. Hughes, Attorney, certifying that the first nine pages of the copy of the agreement between Samuel V. Gramlich and Gramlich Minerals, Inc. are an exact copy of the original agreement as signed. We have not requested the applicant to submit an Owner's Consent to Lien because we do not know what the amount of Government participation will be in the completed contract. If you give us this information we will complete Owner's Consent to Lien forms and send them to the applicant.

The estimated cost of operating the truck will be $3.00 per day for 63 days, or $189.00. The workmen's compensation, employees liability insurance and payroll taxes should be estimated at 11% of the payroll of $1500.00, which is $165.00.

We have recently received a letter from the applicant in which he states as follows: "We are anticipating transfer of the Brown's Hole property from Gramlich Minerals, Inc. to J.W. Gramlich and Sons and wish to ask you if the DMEA loan can be transferred (as above) after granting or would it be necessary to file for a change now? Please advise. (Same management and personnel)." Inasmuch as the contract is being prepared in the Washington office we would appreciate it if you would handle this matter with Mr. Gramlich.

JFS:jp
cc Subject
Chron
SRWilson
AHKoschmann

W. H. King
W.H. King

224 New Customhouse
Denver 2, Colorado

May 27, 1953

Mr. J. W. Gramlich, Sr., President
Gramlich Minerals, Inc.
Moab, Utah

Re: Docket DMEA 2771

Dear Mr. Gramlich:

Reference is made to your letter dated May 18, 1953, in which you ask if the DMEA contract can be transferred from Gramlich Minerals, Inc. to J. W. Gramlich and Sons.

Inasmuch as your exploration project contract is being prepared in the Washington office we have referred this request to Washington for their consideration. We suggest that you write Mr. C.O. Mittendorf, Administrator, Defense Minerals Exploration Administration, Washington 25, D.C. if you have any other questions regarding the proposed contract.

Very truly yours,

W. H. King

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

JFS:jp
cc Subject
Chron
SRWilson
AHKoschmann

Moab, Utah

May 18, 1953

Mining Division
Date Rec'd.
MAY 21 1953
BUREAU OF MINES
Denver, Colorado

Mr. W. H. King
Region IV Field Team U.M.E.A.
224 Custom House Bldg
Denver, Colo

Re: Docket 277

Dear Mr. King:

Persuant to our phone conversation today:- I find that the copies of lease agreements between our Co. & S.V. & Irene Gramlich & also between us & H.W. Balsley of the Brown's Hole group of claims, were mailed to Mr. G.C. Tillman in Salt Lake City on Jan 23, 1953 & should have accompanied the other papers to you. Previous to this copies of said agreements were tendered with original application.

Another question:

We are anticipating the transfer of the Brown's Hole property - from Gramlich Minerals Inc. to J.H. Gramlich & Sons. & wish to ask you if the U.M.E.A. loan can be transferred (as above) after granting or would it be necessary to file for a change now? Please advise. (Management same personell)

Thanking you for this & any possible help you may be able to give toward early approval of loan we are,

Sincerely yours,
Gramlich Minerals Inc
By J.H. Gramlich Sr.
Pres.

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

Mining Division
Date Rec'd
MAY 18 1953
BUREAU OF MINES
Denver, Colorado

MAY 14 1953

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

Re: Docket No. DMEA-2771 (Uranium)
Gramlich Minerals, Inc.
Brown's Hole Property
San Juan County, Utah

Dear Mr. King:

We have received the Field Team report on the captioned application, but still lack the lease agreements and Owner's Consent to Lien on the Brown's Hole Property. Please refer to Mr. George C. Selfridge's letter of December 2, 1952 on this subject.

In the field team report no figure was given for the cost of operation of the truck mentioned, workmen's compensation, employee's liability insurance and payroll taxes. Will these items be paid by the Operator alone or should they be included in the cost of the project?

Sincerely yours,

W S Martin

ACTING Chairman, Operating Committee

APPROVED:

J. H. Hedges
Member, Bureau of Mines

T. P. Thayer
Member, Geological Survey

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

Mining Division
Date Rec'd
MAY 18 1953
BUREAU OF MINES
Denver, Colorado

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

MAY 14 1953

Re: Docket No. DMEA-2771 (Uranium)
Gramlich Minerals, Inc.
Brown's Hole Property
San Juan County, Utah

Dear Mr. King:

We have received the Field Team report on the captioned application, but still lack the lease agreements and Owner's Consent to Lien on the Brown's Hole Property. Please refer to Mr. George C. Selfridge's letter of December 2, 1952 on this subject.

In the field team report no figure was given for the cost of operation of the truck mentioned, workmen's compensation, employee's liability insurance and payroll taxes. Will these items be paid by the Operator alone or should they be included in the cost of the project?

Sincerely yours,

W. S. Martin

ACTING Chairman, Operating Committee

APPROVED:

J. H. Hedges
Member, Bureau of Mines

T. P. Thayer
Member, Geological Survey

VM
OPR SU 89 THEY CLOSE IN 3 MINS
OK OOVMVVMK SP RU SU OVVV
SP
CLR VVMBPPPL
DN
DN TV
SU 89 OKN
BUR OF MINES SU 89 GA PLS

BUR MINES DN 235 5-25-53 43-29 PM

S R WILSON

REFR
REFERRING TO FINAL REPORT DOCKET DMEA 2771 / URANIUM/, GRAMLICH MINERALS, INC., BROWN S HOLE PROPERTY, WE RECEIVED A REQUEST FOR THE FOLLOWING INFORMATION FROM THE ACTING CHAIRMAN OF TEXXX THE OPERATING COMMITTEE

IN THE FIELD TEAM REPORT NO FIGURE WAS GIVEN FOR THE COST OF OPERATION OF THE TRUCK MENTIONED, WORMXXX WORKMEN S COMPENSATION, EMPLOYEE S LIABILITY INSURANCE AND PAYROLL TAXES. WILL THESE ITEMS BE PAID BY THE OPERATOR ALONE OR SHOULD THEY BE INCLUDED IN THE COST OF THE PROJECT /Q/

PLEASE TELETYPE REPLY.

W H KING

4-31 PM END PLS ACK FTM

WE WILL ANSWER FIRST THING IN THE MORNING IS THIS O K

YES BECAUSE I M ABOUT NOT TO STAY THKS

END MB RE D O K

Copy

MOYNIHAN-HUGHES-BJELLAND
Attorneys at Law
Montrose, Colorado

May 22, 1953

Bureau of Land Management
224 New Custom House
Denver 2, Colorado

Re: Docket No. 2771, Brown's Hole
Gramlich Minerals, Inc.

Gentlemen:

We enclose herewith a copy of the agreement between Samuel V. Gramlich and Gramlich Minerals, Inc. We have photostated the last page showing the signature and we do hereby certify that the first nine pages are an exact copy of the original agreement as signed.

We are also enclosing a photostatic copy of the bond and lease agreement between Irene S. Gramlich and Gramlich Minerals, Inc.

It is our understanding that Mr. Gramlich is selling all of the property standing in the name of Gramlich Minerals, Inc. except the claims covered by the bond and lease agreements enclosed. The Gramlich Minerals, Inc. will also be sold to the purchasers and Mr. Gramlich contemplates forming a partnership for the operation of these claims.

Very truly yours,

Moynihan-Hughes-Bjelland

By /s/ J.A. Hughes
J.A. Hughes

JAH:JH
Ecn.

224 New Customhouse
Denver 2, Colorado

April 30, 1953.

Memorandum

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

From: Field Team, Region IV

Subject: Final Report, DMEA Docket 2771 (Uranium), Gramlich Minerals, Inc., San Juan County, Utah.

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

It is recommended that exploration assistance in the amount of $29,675.00, Government participation $26,707.50, be granted to the applicant for exploratory diamond drilling on the Brown's Hole property.

Nine extra copies of Figure 2 of the final report are also included which you may wish to use in Exhibit A of the contract.

W. H. King
W. H. King

Ogden Tweto
Ogden Tweto
For A. H. Koschmann

None
Enclosures
HMC:cwm

cc: SRWilson w/copy of Final Report
~~Ralph Roberts w/copy of Final Report~~
ERGordon w/copy of Final Report
RPFischer w/copy of Final Report
AHKoschmann w/copy of Final Report
Mining Division w/copy of Final Report
DMEA w/copy of Final Report
Subject
Chron.
AHKoschmann

Mining Division
Region IV

April 30,1953.

Memorandum

To: Field Team, Region IV

From: Chief, Mining Division, Region IV

Subject: Final Report, DMEA Docket 2771 (Uranium), Gramlich Minerals, Inc., San Juan County, Utah.

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

The applicant requested exploration aid in the amount of $30,000.00 to diamond drill his leased claims in the Brown's Hole area.

The field examiners concur in the belief that a diamond drilling exploration program on this property will disclose additional small ore bodies and they recommend that aid in the amount of $29,675.00, Government participation, $26,707.50, be granted.

We concur in this recommendation.

W. H. King
H. H. King

Enclosures

HMC:cwm

cc: Subject
Chron.
AHKoschmann (2)

700

w.d.k.

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

Mining Division
Date Rec'd.
APR 6 - 1953
BUREAU OF MINES
Denver, Colorado

Copy Koschmann

RAB.

MAR 31 1953

Hon. Eugene D. Millikin
Hon. Ed C. Johnson
United States Senate
Committee on Finance
Washington 25, D. C.

Re: Docket No. DMEA-2771 (Uranium)
Granlich Minerals, Inc.
Brown's Hole Property,
San Juan County, Utah

My dear Senators Millikin and Johnson:

This is in reply to your inquiry dated March 24, 1953, concerning the application with this Agency by the subject company for Government exploration aid.

We referred this application to the Executive Officer, Region IV, DMEA Field Team, 224 New Customhouse Building, Denver 2, Colorado, on December 2, 1952, for a field examination. The property examination was made on January 13, 1953, and the engineering report is being prepared. It will be forwarded to this office for processing when it is completed.

We wish to assure you that the processing of this application by this office will proceed as soon as the report is received.

Sincerely yours,

C. O. Mittendorf

Administrator

FLKnouse/gla
3-30-53
cc to: Hon. Eugene D. Millikin
Rm. 315, Senate Office Building

Hon. Ed. M. Johnson
Rm. 463, Senate Office Building

Adm. Reading File
Docket
Messrs. HDKeiser, R-1347
APButler, R-3206 GSA
Ellis
Knouse
DMEA Field Team, Region IV (2)

224 New Customhouse
Denver 2, Colorado

March 13, 1953

Memorandum

To: S. R. Wilson
Ralph Roberts

From: DMEA Field Team, Region IV

Subject: DMEA Docket 2771 (Uranium), Gramlich Minerals, Inc., San Juan County, Utah.

Returned herewith is the final report and brochure on the subject docket for your further consideration.

In the brochure please note the letter from H.D. Keiser requesting that this application be discussed with Lowell Hilpert, U.S.G.S., and Ernest Gordon of A.E.C., both of Grand Junction, Colorado. Will you please state if this was done as no mention is made of it in the report. We should also like to know if the A.E.C. has a record of any previous drilling on this property.

The application states the average depth of holes would be 200 feet but no depth is mentioned in the report. A statement of average depth in the report would be necessary in preparing the contract. In this connection was consideration given to wagon drilling or churn drilling the maximum distance and core drilling the mineralized area from the bottom of the wagon drill or churn drill holes? This is being done in the Plateau area in some places to great advantage because of the lower total cost per completed hole.

Is our assumption correct that the 21 holes located in Figure 2 will be drilled as Stage 1 in the contract and Stage 2 would be contingent upon the findings of Stage 1, and all holes in Stage 2 would be spotted by the DMEA representatives and kept on an exploration basis?

Since Figure 2 will be used as a part of Exhibit A in the contract, please have Note 2 deleted from the map. This note states "First holes drilled to be in a pattern similar to that shown, remainder of footage to be used to delimit ore if found".

Please forward nine extra copies of corrected Figure 2 with the corrected final report.

HMC:jp
cc Subject
Chron
AHKoschmann (2)

W. H. King

W. H. King

A. H. Koschmann

A. H. Koschmann

Enclosures

Moab, Utah
Mar 5. 1953

U.M.E. Administration
Attention: Mr King.
Denver, Colo.

Mining Division
Date Rec'd.
MAR 9 - 1953
BUREAU OF MINES
Denver, Colorado

Dear Mr King:

Regarding our Brown's Hole drilling application. - I called Bureau of Mines L.L. office & was advised they had forwarded it to you. In sending this to Washington would you please urge them to give earliest possible consideration in issuing contract.

We are very anxious to commence drilling as weather & other conditions are very satisfactory now, also drilling rigs available at present time.

Regarding the Lion Cr application submitted in Feb. It seemed plain enough to me from your letter what you desired from B.L.M. & U.E.B. However they advised, Mr Combo, their atty would contact you in person Monday Mar 4th & take matter up directly with you. Please advise if they gave you the information you desired. If not let me know just what you need from us.

Sincerely Franklin Minerals Inc
By J.E. Franklin Jr.

224 New Customhouse
Denver 2, Colorado

January 6, 1953

Mr. J. W. Gramlich, Sr., President
Gramlich Minerals, Inc.
Moab, Utah

Re: Docket DMEA 2771

Dear Mr. Gramlich:

This will acknowledge receipt of your letter dated December 31, 1952, enclosing the letters which were sent you by mistake from Washington.

You will be advised prior to the date of the field examination so that you or your representative may accompany the field examiners.

Very truly yours,

John F. Shaw
For W. H. King
Executive Officer, DMEA
Field Team, Region IV

HMC:jp
cc Subject
Chron
SRWilson w/copy Gramlich letter
AHKoschmann (2)

Mining Division
Date Rec'd.
JAN 5 - 1953
BUREAU OF MINES
Denver, Colorado

LA COURT HOTEL
GRAND JUNCTION
COLORADO

Moab, Utah
Dec. 31, 1952

Mr. W. H. King
D.M.E.A. F.T. Region IV
Denver, Colo.

Re: Docket D.M.E.A. 2771
(uranium)

Dear Mr. King:

Enclosed herewith - the other copies sent to me by mistake, your letter Dec. 23rd. The enclosed are all that were rec'd by me.

Where will field teams be from & about when will they be able to contact us?

When they arrive in Moab, have them contact Howard Balsly - I am away much of the time but will try & keep Mr Balsly informed.

Duff Ebbly is in Calif for the holidays expects to be back by Jan 15th, I would like very much to have him here to go over the property with your men.

Sorry I did not detect above error.

Sincerely,
J. W. Gramlich Sr.
Gramlich Minerals Inc.

WESTERN COLORADO'S Finest

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

700

Mining Division
Date Rec'd.
JAN 5 - 1953
BUREAU OF MINES
Denver, Colorado

DEC 2 1952

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

Re: Docket No. DMEA-2771 (Uranium)
Gramlich Minerals, Inc.
Brown's Hole Property

Dear Mr. King:

The captioned application is referred to your office for a field examination.

Copies of memoranda from Mr. Arthur P. Butler, Jr., dated November 21, 1952 and from Mr. H. D. Keiser dated November 14, 1952, outlining important questions to be considered by the examining engineers are enclosed.

If your office recommends the program submitted by the Applicant, or an alternate program approved by the applicant detailed costs and maps or sketches showing the proposed work in relation to the geology, sample data, and mining claim lines as justification for the work as is outlined in Form MF-103, should accompany the report.

The description and cost of equipment units required to do the work (classified as units to be purchased or rented) and fair market value and description of units to be furnished by the Operator should also accompany the report. If all or any part of a recommended program is to be done by a contractor it should be so indicated and a detailed breakdown of the cost for the part to be contracted supplied. Also, if any part of the work is to be done on a unit cost basis a detailed breakdown of the cost should be furnished. If an exploration program is recommended we will require from the Applicant a list of the mining claims or property on which the work is to be done and any adjoining claims or property controlled by the Applicant, where the claims or property are recorded, book number, page and entry date.

In item 3 (d) of the application it is stated, "Lease agreements are attached to this application" which is not the case. Please obtain copies of the lease and forward it to this office.

In your memorandum dated November 7, 1952, it is noted only three (3) copies of the application were transmitted to this office we therefore assume you retained one copy for your files.

Sincerely yours,

George C. Selfridge

ACTING Chairman, Operating Committee
FLKnouse/jem
11/28/52
cc to: Adm. Reading File
Docket
Messrs. HDKeiser-1347
APButler-3206 GSA
Ellis Knouse
Opr. Committee
Field Team, Region IV

Enclosures

APPROVED:

J. H. Hedges

Member, Bureau of Mines

A. R. Kinkel, Jr.

Member, Geological Survey

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

700

Mining Division
Date Rec'd.
JAN 5 - 1953
BUREAU OF MINES
Denver, Colorado

DEC 2 1952

Mr. J. W. Gramlich, Sr., President
Gramlich Minerals, Inc.
Moab, Utah

Re: Docket No. DMEA-2771 (Uranium)
Brown's Hole Property

Dear Mr. Gramlich:

The application for assistance in exploring your property in Emery County, Utah, under the above captioned docket number, has been reviewed by the Rare and Miscellaneous Metals Division of the Defense Minerals Exploration Administration. Your application has been referred for a field examination to the Executive Officer of Region IV at the following address:

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

The Regional Office will contact you at the earliest opportunity in regard to your project.

Sincerely yours,

Administrator

FLKnouse/jem
11/28/52
cc to: Adm. Reading File
Docket
Messrs. Ellis
Knouse
Field Team, Region IV (2)

700

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

DEC 2 1952

Mr. J. W. Gramlich, Sr., President
Gramlich Minerals, Inc.
Moab, Utah

Re: Docket No. DMEA-2771 (Uranium)
Brown's Hole Property

Dear Mr. Gramlich:

The application for assistance in exploring your property in Emery County, Utah, under the above captioned docket number, has been reviewed by the Rare and Miscellaneous Metals Division of the Defense Minerals Exploration Administration. Your application has been referred for a field examination to the Executive Officer of Region IV at the following address:

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

The Regional Office will contact you at the earliest opportunity in regard to your project.

Sincerely yours,

Administrator

FLKnouse/jem
11/28/52
cc to: Adm. Reading File
Docket
Messrs. Ellis
Knouse
Field Team, Region IV (2)

224 New Customhouse
Denver 2, Colorado

December 23, 1952

Memorandum

To: S. R. Wilson
Ralph Roberts (with brochure)

From: Field Team, Region IV

Subject: Docket DMEA 2771 (Uranium), Gramlich Minerals, Inc., San Juan County, Utah

Enclosed herewith is the subject application for Government assistance in exploration work estimated to cost $30,000.

Your attention is directed to the enclosed letter from the Operating Committee.

A field examination is required.

W. H. King
W. H. King

W.H.K.

A. H. Koschmann
A. H. Koschmann

Enclosure

HMC

HMC:jp
cc Subject
Chron
AHKoschmann (2)

224 New Customhouse
Denver 2, Colorado

December 23, 1952

Mr. J W. Gramlich, Sr., President
Gramlich Minerals Inc.
Moab, Utah

Re: Docket DMEA 2771 (Uranium)

Dear Mr. Gramlich:

Enclosed is a letter addressed to you and sent to us by mistake from the Acting Administrator.

Will you please return to this office all of the correspondence erroneously sent to you from Washington, as it is imperative that we have these letters.

This correspondence consists of Mr. Sefridge's letter to Mr. King, Mr. Keiser's letter to Mr. Ellis, and Mr. Butler's letter to Mr. Ellis. One copy of this correspondence was forwarded to us by Mr. Ebbley, but we need the other copies for our use in processing your application.

Very truly yours,

W. H. King

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

HMC:es

cc: Mittendorf
Wilson
Docket
Chron.
Koschmann (2)

WALLACE, IDAHO FAIRBANKS, ALASKA

NORMAN EBBLEY JR.
MINING GEOLOGIST

Mining Division
Date Rec'd.
DEC 22 1952
BUREAU OF MINES
Denver, Colorado

Dec. 17, 1952

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

RE: Docket No. DMEA-2771 (Uranium)
Gramlich Minerals, Inc.
Browns' Hole Property

Dear Mr. King:

At a meeting yesterday with Mr. Walter Gramlich, I had the opportunity to read correspondence relative to processing his application for a DMEA loan on the Browns' Hole property. As you may know I originally helped prepare his application.

Apparently, through some error in mailing, Mr. Selfridge's letter to you regarding the application was sent to Mr. Gramlich instead of to you. Accordingly I am enclosing the original of the letter, with copies of H. D. Keiser's letter to Mr. Ellis, of the Uranium Commodity Committee, and Arthur P. Butler, Jr.'s letter to Mr. Ellis. It would be appreciated if you would return these two copies to Mr. Gramlich for his files, at your convenience.

When the field team makes their examination, both Mr. Gramlich and myself would be glad to show them over the property, or furnish any other assistance desired by the examining engineers.

Yours very truly,

Norman Ebbley

Norman Ebbley

Saw Bill Trover at the Colo. Mining Assn. meeting last Monday. He never seems to change much!

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

700

DEC 2 1952

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

Re: Docket No. DMEA-2771 (Uranium)
Gramlich Minerals, Inc.
Brown's Hole Property

Dear Mr. King:

The captioned application is referred to your office for a field examination.

Copies of memoranda from Mr. Arthur P. Butler, Jr., dated November 21, 1952 and from Mr. H. D. Keiser dated November 14, 1952, outlining important questions to be considered by the examining engineers are enclosed.

If your office recommends the program submitted by the Applicant, or an alternate program approved by the applicant detailed costs and maps or sketches showing the proposed work in relation to the geology, sample data, and mining claim lines as justification for the work as is outlined in Form MF-103, should accompany the report.

The description and cost of equipment units required to do the work (classified as units to be purchased or rented) and fair market value and description of units to be furnished by the Operator should also accompany the report. If all or any part of a recommended program is to be done by a contractor it should be so indicated and a detailed breakdown of the cost for the part to be contracted supplied. Also, if any part of the work is to be done on a unit cost basis a detailed breakdown of the cost should be furnished. If an exploration program is recommended we will require from the Applicant a list of the mining claims or property on which the work is to be done and any adjoining claims or property controlled by the Applicant, where the claims or property are recorded, book number, page and entry date.

In item 3 (d) of the application it is stated, "Lease agreements are attached to this application" which is not the case. Please obtain copies of the lease and forward it to this office.

In your memorandum dated November 7, 1952, it is noted only three (3) copies of the application were transmitted to this office we therefore assume you retained one copy for your files.

Sincerely yours,

G. C. Selfridge

ACTING Chairman, Operating Committee

Enclosures

APPROVED:

T. W. Hedges

Member, Bureau of Mines

A P Crabel Jr.

Member, Geological Survey

E. Wm. Ellis, DMEA Member, Uranium Commodity Committee
Arthur P. Butler, Jr., USGS Member, Uranium Commodity Committee
Application DMEA Docket 2771, (uranium), Gramlich Minerals Inc., applicant, Browns' Hole Property, Gramlich claim group and eight other claims, secs. 27, 28, 33, and 34, T. 28S., R. 23E., San Juan Co. Utah.

November 21, 1952

Comment

The applicant proposes to explore by about 7500 feet of diamond drilling several claims as more fully identified in the application referred to in the subject above. It is not possible to verify from available data in the Washington files of the Geological Survey the record of production mentioned by the applicant, but the Atomic Energy Commission has examined some of the claims (Hopkins and Pursley 1951, AEC Preliminary Reconnaissance Report GJEB:R-65, and Droullard and Blair, 1952, AEC, Preliminary Reconnaissance Report GJEB:R-170) and recommended small amounts of drilling under AEC auspices. The Survey has no information as to whether or not any drilling has been done. Assuming the correctness of the production figures given by the applicant and in view of the AEC's appraisal the property is worthy of some further exploration.

Information furnished by the applicant is inadequate for evaluating the relation of the proposed exploration to known ore-bodies and their possible extensions or the proposed amount of drilling, through the proposed plan appears reasonable.

Recommendations

As the property appears to be worthy of some exploration, it is recommended that the application be referred to the Field Team for field examination, if necessary, and determination of the appropriate arrangement and amount of drilling. The examining members of the field team should consult with Geologic staffs of the Grand Junction, Colo. offices of the Atomic Energy Commission and Geological Survey to obtain the benefit of their information and suggestions and to ascertain what plans, if any, either group may have for drilling in the area. Information and maps also may be available that would make actual examination unnecessary.

Arthur P. Butler, Jr.

cc: E. Wm. Ellis

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
NOV 26 1952

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

November 14, 1952

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 14 1952

Memorandum

To: Ernest William Ellis, DMEA Member,
Uranium Commodity Committee, Room 4640

From: H. D. Keiser, Bureau of Mines Member,
Uranium Commodity Committee

Subject: DMEA Docket No. 2771, Gramlich Minerals, Inc., Moab, Utah.

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

It is recommended that the application be referred to the field team for investigation and report, and that the field team be requested to discuss the application with Mr. Lowell Hilpert, Geological Survey, and Mr. Ernest Gordon, Atomic Energy Commission, Grand Junction, Colorado.

Please note that the subject application, as received by me, did not bear a DMEA number, and was not accompanied by the map referred to by the applicant in the third paragraph of item 5 b.

Signed
H. D. Keiser

Attachment

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

November 10, 1952

Mining Division
Date Rec'd.

NOV 14 1952

BUREAU OF MINES
Denver, Colorado

Memorandum

To: Executive Officer, DMEA Field Team, Region IV

From: Chief, Operation's Control and Statistics Division

Subject: Assignment of Docket Number

There is listed below the assigned Docket Number to an application recently received from Region IV.

DMEA-2771 - Gramlich Minerals, Inc.

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

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

Mining Division
Date Rec'd.
NOV 13 1952
BUREAU OF MINES
Denver, Colorado

November 10, 1952

Memorandum

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

From: Chief, Utah-Wyoming Branch, Mining Division

Subject: Gramlich Minerals, Inc., Moab, Utah - Your memorandum of November 7, 1952

We have checked the records of the Bureau of Land Management and find that there are no existing land withdrawals from Sections 27 and 34, T. 28 S., R. 23 E.

Stephen R. Wilson

Stephen R. Wilson

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

224 New Customhouse
Denver 2, Colorado

November 7, 1952

Memorandum

To: S. R. Wilson

From: Executive Officer, Field Team, Region IV

Subject: Application of Gramlich Minerals, Inc., Moab, Utah

We have received an application in the amount of $30,000 for Exploration aid on a uranium property in Brown's Hole, Utah.

Will you please advise if there are any public land withdrawals in Sections 27 and 34, T. 28 S., R. 23 E.

John F. Shaw
John F. Shaw for
W. H. King

HMC:oc

cc: Subject
[redacted] Wash. Office
Chron.
A. H. Koschmann (2)

224 New Customhouse
Denver 2, Colorado

November 7, 1952

2771

Memorandum

To: S. R. Wilson

From: Executive Officer, Field Team, Region IV

Subject: Application of Gramlich Minerals, Inc., Moab, Utah

We have received an application in the amount of $30,000 for Exploration aid on a uranium property in Brown's Hole, Utah.

Will you please advise if there are any public land withdrawals in Sections 27 and 34, T. 28 S., R. 23 E.

John F. Shaw
W. H. King

HMC:oc

cc: Subject
Washington Office
Chron.
A.H.Koschmann (2)

224 New Customhouse
Denver 2, Colorado

November 7, 1952

Mr. J. W. Gramlich
Gramlich Minerals, Inc.
Moab, Utah

2771

Dear Mr. Gramlich:

This will acknowledge receipt of your application for exploration aid on your Brown's Hole properties.

The application is being forwarded to Washington for processing.

Very truly yours,

John F. Shaw

John F. Shaw for
W. H. King

HHC:cc

cc: Secretary to the Operating Committee
SRWilson
Subject
Chron.
AHKoschmann (2)

224 New Customhouse
Denver 2, Colorado

November 7, 1952

Memorandum

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

From: Field Team, Region IV

Subject: (Uranium) Application of Gramlich Minerals, Inc., Brown's Hole Property, Moab, Utah

Enclosed are three copies of the subject application in the amount of $30,000.

Copies of our letters to the applicant and to S. R. Wilson are also attached.

John F. Shaw for
W. H. King

A. H. Koschmann

Enclosures

HMC:oc
cc: Subject
Chron.
AHKoschmann (2)

URANIUM AND VANADIUM MINERAL LEASE

THIS INDENTURE OF LEASE AND AGREEMENT, made and entered into, in duplicate, this 1st day of October, A. D. 1952, by and between H. W. Balsley, of Moab, Grand County, Utah, hereinafter called the Lessor, and J. W. Gramlich, for and in behalf of Gramlich Minerals, Incorporated, of Moab, Grand County, Utah, hereinafter called the Lessee,

WITNESSETH: That the Lessor, in consideration of royalties paid and covenants to be observed by the Lessee, as hereinafter set forth, does hereby grant and lease to the Lessee the exclusive right and privilege to mine and dispose of all uranium and vanadium minerals in the following-described mining claims, situated in what is commonly known as Brown's Hole, county of San Juan, State of Utah. The names of said claims and the book and pages in which the location certificates thereof are recorded in the office of the county recorder of said San Juan County, Utah, are as follows:

Name of Claim	Recorded in Book	On Page
Blue Jay	R	416
Pine Tree	R	417
Blue Bird	R	419
Sunnyside	R	419
Sunset	R	
Red Bird	R-1	467
Blue Bird	R-1	466

containing a total of 140 acres, more or less, together with the right to use and occupy so much of the surface of said land as may be required for all purposes reasonably incident to mining and removal of uranium and vanadium minerals produced in commercial quantities from the said land.

ARTICLE I

TO HAVE AND TO HOLD unto said lessee for the term of ten years from the date hereof, unless sooner forfeited or terminated through the violation of any covenant herein required to be performed by Lessee,

In consideration of such demise, Lessee covenants and agrees with Lessor, as follows, to-wit:

FIRST: To commence exploratory, development or actual mining operations upon one or more of the above-described claims within 180 days from the day and year first above mentioned, and to continue such operations with due diligence throughout the continuance of this Lease, with a view to producing commercial ore from as many of the said claims, within the shortest reasonable time possible and as long thereafter as profitable ore may be produced therefrom during the said ten-year term of this Lease.

SECOND: To pay to the Lessor or cause to be paid to Lessor a royalty of fifteen percent (15%) of the gross proceeds from the sale of ores mined and marketed from the said mining claims, including in such percentages any so-called bonus or other payments paid by the Atomic Energy Commission on account of the production and sale of such ores, but less the development and haulage allowances made by the Atomic Commission.

THIRD: That upon the shipment of any ore under this lease, the Lessee will

instruct the licensed buyer thereof to deduct from the settlement therefor the amount due the Lessor and to remit any such amounts directly to the Lessor, together with a copy of the settlement for the period during which such ore was delivered.

FOURTH: To furnish Lessor, from time to time, as compiled and prepared, copies of all maps, reports and other data resulting from the examination and investigation of the above-described mining claims.

FIFTH: To at all times during the life of this Lease perpetuate and protect the main line tunnels in ingress and egress to and from said lands and the air courses necessary for proper ventilation, by means of proper pillars and timbering as may be in keeping with good mining practice and will meet the requirements of the State Mine Inspector, whether upon this leased land or extending through adjacent lands owned or operated by the Lessee, and upon abandonment or termination of this lease, from any cause, to substantially fence, fill in, cover or close all surface openings or workings if requested so to do by the said Lessor.

SIXTH: To not assign this Lease or any interest therein, nor sublet any portion of the leased premises, or any of the rights and privileges herein granted, without the written consent of the Lessor being first had and obtained.

ARTICLE II

It is expressly understood and agreed that this lease is granted subject in all respects to and under the conditions of the laws of the State of Utah and the Federal Statutes regarding the operation of mineral mines, Employer's Workmen's Compensation Insurance, Social Security and Unemployment Insurance and such existing Rules and Regulations or Rules and Regulations hereafter adopted and approved by the State of Utah.

ARTICLE III

It is further expressly understood and agreed that this Lease covers only the mining and marketing of uranium and vanadium minerals, but that should other minerals be discovered such fact shall be promptly reported to the Lessor.

ARTICLE IV

Upon cancellation of this Lease for any cause hereunder, the Lessee shall be entitled to remove from the lease holdings only his personal and movable property and that improvements attached to the land, such as buildings, timbering or other construction or construction material in place, shall remain undisturbed upon the ground and the property surrendered in good usable condition.

ARTICLE V

It is mutually understood and agreed that the suspension of operations upon the grounds leased as aforesaid by the Lessee for a longer period than ninety days without the written consent of the Lessor being first had and obtained shall be a cause for forfeiture, and that upon the violation of this provision or any other terms of this Lease, the Lessor may, at his option, after thirty days' notice by registered mail, cancel this Lease. After the expiration of the said thirty days and the cancellation of the said Lease, no other notice of such cancellation need be given the Lessee.

ARTICLE VI

It is mutually understood and agreed that the Lessee may terminate this lease at any time upon giving one month's notice in writing to the Lessor, and upon the payment of all rents and royalties and other sums due and payable to the Lessor, and upon complying with the terms of this Lease with respect to the preservation of the workings in such order and condition as to permit of the continued operation of the premises and the preservation of the mine.

ARTICLE VII

It is understood and agreed by and between the parties hereto that the Lessor or his agent or representative shall have the right at all times to go into and upon the leased lands and premises, during the term of said lease to inspect the work done and the progress thereof on said lands and the products obtained therefrom, and to post any notices on the said land that he may deem fit and proper; and also shall permit any authorized representative of the Lessor to examine all books and records pertaining to operations and under this lease, and to make copies of and extracts from the same, if desired.

ARTICLE VIII

The said Lessee hereby stipulates and agrees that for each annual assessment period during the continuance of this lease, he will cause to be done at least $100.00 worth of labor and/or improvements upon or for each of the above-named claims, and that he will cooperate with the Lessor in the filing for record of the Affidavit of Labor each year.

ARTICLE IX

It is mutually understood and agreed by and between both parties hereto that all of the terms, covenants, conditions and obligations in this lease contained shall be binding upon the heirs, executors, administrators and assigns of each of the parties hereto.

IN WITNESS WHEREOF, the parties hereto have hereunto subscribed their names the day and year first above written.

/s/ H. W. Balsley
Lessor

/s/ Norman Ebbley
Witness to the signatures of the Lessor and Lessee.

/s/ J. W. Gramlich, Sr.
Lessee

Brown's Hole Property

BOND AND LEASE.

THIS AGREEMENT OF BOND AND LEASE made and entered into at Montrose, Colorado this 15th day of August, A. D. 1951, by and between SAMUEL V. GRAMLICH, Party of the First Part, Lessor, of Naturita, Montrose County, Colorado and GRAMLICH MINERALS, INC., a Corporation of Montrose, Colorado, Party of the Second Part, Lessee,

WITNESSETH:

That the Lessor, for and in consideration of the payments, rents, royalties, covenants and agreements hereinafter expressed, to be paid, kept and performed by the Lessee, has this day leased, let and demised, and by these presents does lease, let and demise unto Lessee the following described mining properties and premises situate in BROWN'S HOLE (unorganized) Mining District, San Juan County, State of Utah, to wit:-

Golden West, location certificate of which is recorded in Book R-3, Page 283 of the County Clerk and Recorder's records, San Juan County, State of Utah;
Golden West I, location certificate of which is recorded in Book R-2, Page 602 of the County Clerk and Recorder's Records San Juan County, State of Utah;
Golden West II, location certificate of which is recorded in Book R-2, Page 602, of the County Clerk and Recorder's Records San Juan County, State of Utah,
Golden West III, location certificate of which is recorded in Book R-2, Page 603 of the County Clerk and Recorder's records San Juan County, State of Utah,
Golden West IV, location certificate of which is recorded in Book R-3, Page 604 of the County Clerk and Recorder's records San Juan County, State of Utah,
Golden West V, location certificate of which is recorded in Book R-2, Page 604 of the County Clerk and Recorder's Records, San Juan County, State of Utah,
Golden West VI, location certificate d which is recorded in Book R-3, Page 604 of the County Clerk and Recorder's records, San Juan County, State of Utah,
Golden West VII, location certificate of which is recorded in Book R-2, Page 605 of the County Clerk and Recorder's Records, San Juan County, State of Utah,
Golden West VIII, location certificate of which is recorded in Book R-3, Page 605 of the County Clerk and Recorder's Records San Juan County, State of Utah,
Golden West IX, location certificate of which is recorded in Book R-3, Page 609 of the County Clerk and Recorder's records, San Juan County, State of Utah.

Golden West X, location certificate of which is recorded in Book R-3, Page 606 of the County Clerk and Recorder's records of San Juan County, State of Utah;

Golden West XI, location certificate of which is recorded in Book R-3 Page 606 of the County Clerk and Recorder's records of San Juan County, State of Utah.

Canary , location certificate of which is recorded inBook R-3, Page 283, County Clerk and Recorder's records, of San Juan County, State of Utah;

Canary I, location certificate of which is recorded in Book R-3, Page 606, County Clerk and Recorder's records, of San Juan County, State of Utah;

Canary II, location certificate of which is recorded in Book R-3, Page 607, County Clerk and Recorder's records, of San Juan County, State of Utah,

Canary III, location certificate of which is recorded in Book R-3, Page 607, County Clerk and Recorder's records, of San Juan County, State of Utah,

Canary IV, location certificate of which is recorded in Book R-3, Page 607, County Clerk and Recorder's records, of San Juan County, State of Utah,

Canary V, location certificate of which is recorded inBook R-3, Page 608, County Clerk and Recorder's records of San Juan County, State of Utah,

Canary VI, location certificate of which is recorded in Book R-3, Page 608, County Clerk and Recorder's records, of San Juan County, State of Utah.

Canary VII, location certificate of which is recorded in Book R-3, Page 608, County Clerk and Recorder's records, of San Juan County, State of Utah,

Canary VIII, location certificate of which is recorded in Book R-3, Page 609, County Clerk and Recorder's records, of San Juan County, State of Utah,

Canary IX, location certificate of which is recorded in Book R-3, Page 609, County Clerk and Recorder's records, of San Juan County, State of Utah,

Canary X , location certificate of which is recorded in Book R-2, Page 609, County Clerk and Recorder's records, of San Juan County, State of Utah.

San Juan I, location certificate of which is recorded in Book R-3, Page 610, County Clerk and Recorder's records of San Juan County, State of Utah,

San Juan II, location certificate of which is recorded in Book R-3, Page 610, County Clerk and Recorder's records, of San Juan County, State of Utah,

San Juan III, location certificate of which is recorded in Book R-3, Page 610, County Clerk and Recorder's records, of San Juan County, Stateof Utah,

San Juan IV, location certificate of which is recorded in Book R-3, Page 281, County Clerk and Recorder's records, of San Juan County, State of Utah,

San Juan V, location certificate of which is recorded in Book R-3, Page 283, County Clerk and Recorder's records, of San Juan County, State of Utah,

San Juan VI, location certificate of which is recorded in Book R-3, Page 284, County Clerk and Recorder's records, of San Juan County, State of Utah.

TO HAVE AND TO HOLD the above-described premises for the purpose of mining from the 1st day of April, A. D. 1951, to and including the 1st day of April A. D. 1960, unless sooner forfeited or terminated through violation of any of the covenants or conditions herein contained, with no power to assign this lease or any part thereof, or to sublet the whole or any part thereof, or said leased premises without the written consent of the lessor first had and obtained.

THE LESSEE, in consideration of the premises, has covenanted, contracted and agreed, and by these presents does covenant, contract and agree to and with the Lessor, her executors, administrators and assigns as follows, to wit:

1. To enter upon said leased premises and to work the same in mine fashion in manner necessary to good and economical mining, so as to take out the greatest amount of ore possible, with due regard to the development and preservation of said mines or mining properties, as workable mining property, and to the special covenants herein contained.

2. To allow the Lessor or ~~his~~ agent from time to tiem to enter upon and descend into all parts of said leased premises for the purpose of inspection, surveys or taking samples therefrom, and to render to said parties proper assistance in making such surveys or examinations.

3. The Lessor reserves the property and right of property as hereinafter limited and specified, in and to a royalty in all ores extracted from said premises during the period of this lease, and the Lessee covenants and agrees to pay and allow the Lessor as royalty upon all ores minedd, shipped or sold from said leased premises in any manner during the life of this lease as follows, to-wit:

15% of the smelter or processing returns on all ores mined and smelted or processed from the above-described premises, in particular including the uranium and vanadium content of all ores mined by Lessee.

IT IS FURTHER UNDERSTOOD AND AGREED that Lessor is to apply 2/3 of the 15% royalty as received from Lessee, on the purchase price of the above described mining claims which Lessee has conditionally agreed to purchase from Lessor, for the total sum of Twenty-five thousand ($25,000).

IT IS FURTHER AGREED that the remaining 5% royalty shall be retained by Lessor and not credited on the next-hereinabove described purchase price, but shall be retained by Lessor as an overriding royalty so long as Lessee, its administrators or assigns, shall mine the above-described premises.

When Lessee shall have paid the full purchase price of said claims, to-wit, the sum of Twenty-five thousand Dollars ($ 25,000), from the 10% royalty payments hereinabove described, plus additional monthly payments to be made by Lessee as hereinafter set forth, the Lessor shall, after said mining claims have been paid for in full, in accordance with the provisions of this agreement, be paid a 5% overriding royalty as long as ores and minerals are mined from the above described claims by Lessee. However, IT IS UNDERSTOOD AND AGREED that when the full purchase price shall have been paid by Lessee to Lessor, the 10% royalty payments hereinabove referred to shall cease and the Lessee shall no longer be liable for the payment hereinabove referred to, and shall, after said purchase price shall have been paid in full, be liable to Lessor only for said 5% royalty hereinabove referred to.

All settlements to be made upon the smelter, mill or sampler net assay values, deducting therefrom only development and hauling allowances made by the Atomic Energy Commission.

The Lessee shall, and hereby does, assume all responsibility in case of accident to Lessee or any of the employees of Lessee in or about said property.

All taxes assessed against the said demised premises for ores mined and shipped under this lease shall be paid by Lessee.

All bills and expenses incurred by Lessee, or those in privity with said Lessee, shall be promptly paid by Lessee, and by such prompt payment said Lessee shall prevent the filing of any and all liens of miners, mechanics or materialmen, against said demised premises, and if by reason of the failure of Lessee to pay such bills or expenses, any lien

of liens shall be filed against said premises, the Lessor may forthwith pay off and discharge the same and the Lessee holds itself bound to pay to Lessor all sums so advanced or paid by him to clear the said premises from liens which may be filed as aforesaid, and Lessor may also, at his election, declare a forfeiture of this lease.

The Lessee may, if it seems to it necessary, mortgage developed ore (provided, however that the written consent of the Lessor shall be first had and obtained) in order to finance operations which will mine such developed ore.

Lessee further covenants and agrees that no person not in privity with the parties hereto, shall be allowed to hold possession of said premises or any part thereof under any pretext whatever.

Further that the Lessee shall deliver to Lessor quiet and peaceable possession of said demised premises in good order and condition, with all drifts, tunnels and other passages thoroughly drained and cleared of loose rocks and rubbish and said premises ready for immediate continued working, without demand or further notice, on the 1st day of April, A. D. 1960, at noon, or any time previous thereto, upon demand for forfeiture, and it is mutually understood that all machinery and tools which may be placed upon said premises by Lessee may be removed therefrom within ~~ten~~ sixty (~~10~~ 60) days after the termination of this lease, provided, however, that no such tools or machinery shall be so removed while the Lessee may in any manner be indebted to the Lessor under any obligations incurred under this lease.

Upon the violation of any covenant or agreement herein contained, this lease shall at the option of the Lessor expire and terminate and said premises, with the appurtenances and all other buildings and improvements, shall become forfeited to the Lessor, and the Lessor or his agent may thereupon, after demand in writing for possession, enter upon said premises with or without process of law, or, at the option of the Lessor, the Lessee and all persons found occupying said premises, or any part thereof, may be proceeded against as guilty of unlawful detainer.

Time is of the essence of this Agreement and each and every clause of this indenture, and all covenants and conditions contained herein, expressed or implied, shall extend to and be binding upon the successors, heirs, executors, administrators and lawful assigns of all parties hereto.

WITNESS our hands and seals this 15th day of August A. D. 1951.

KNOW ALL MEN BY THESE PRESENTS that SAMUEL V. GRAMLICH, Party of the First Part, herein described as the Lessor in the foregoing Lease, is held and firmly bound unto GRAMLICH MINERALS, INC., a Corporation, Party of the Second Part herein, and described as Lessee in the foregoing Lease, in the penal sum of Twenty-five thousand Dollars ($25,000), for the payment of which, well and truly to be made, I hereby bind myself, my heirs, administrators, executors and assigns, firmly, by these presents

WITNESS MY HAND AND SEAL this 15th day of August 1951.

BUT THE CONDITION of the foregoing obligation is such that

WHEREAS, the above-bounden Party of the First Part, Lessor, has on this date agreed to sell to Party of the Second Part, Lessee, the following described mining property, to wit:

NAME OF CLAIM	RECORDED IN BOOK NO.	PAGE NO.	COUNTY CLERK & RECORDER OF:
Golden West	R-3	283	San Juan County, Utah.
" " I,	" 2	602	" " " "
" " II,	" "	603	" " " "
" " III,	" "	"	" " " "
" " IV,	" 3	604	" " " "
" " V,	" 2	"	" " " "
" " VI,	" 3	"	" " " "
" " VII,	" 2	605	" " " "
" " VIII,	" 3	"	" " " "
" " IX,	" 3	609	" " " "
" " X,	" "	606	" " " "
" " XI,	" "	"	" " " "
Canary	R-3,	283	" " " "
Canary I,	R-3	606	" " " "
Canary II,	" "	607	" " " "
Canary III,	" "	"	" " " "
Canary IV,	" "	"	" " " "
Canary V	" "	608	" " " "
Canary VI,	" "	"	" " " "
Canary VII,	" "	"	" " " "
Canary VIII,	" "	609	" " " "
Canary IX	" "	"	" " " "
Canary X,	" 2	"	" " " "

NAME OF CLAIM	RECORDED IN BOOK NO.	PAGE NO.	COUNTY CLERK & RECORDER OF:
San Juan 1,	R-3	610	San Juan County, Utah,
" " 11,	" "	"	" " " "
" " 111,	" "	"	" " " "
" " IV,	" "	281	" " " "
" " V,	" "	283	" " " "
" " VI,	" "	284,	" " " "

all of the aforesaid claims being situate in BROWN'S HOLE (unorganized) Mining District, San Juan County, State of Utah and said claims being the same property embraced in the foregoing Lease which is simultaneously executed herewith upon the following terms:

NOW, if the said Party of the Second Part, Lessee shall well and truly make the aforesaid payments within the time above limited, Party of the First Part, Lessor, shall forthwith convey said property to the Party of the Second Part, Lessee, by good and sufficient mining deed and will also furnish an abstract of title to said premises, certified by a competent abstractor, showing good and valid title to said premises in Party of the First Part, Lessor, free and clear of all liens and incumbrances at the time of said conveyance. It is hereby agreed that any and all rights of any Party which may have been in existence prior to March 1, 1951, upon any of the territory covered by the above-named and described claims, shall never be contested in any way by Party of the Second Part, his heirs or assigns.

2. As one of the considerations which has induced First Party, Lessor, to enter into the within contract, Second Party, Lessee, at the time of the signing of this Agreement, pays to First Party, Lessor, the sum of One thousand two hundred fifty Dollars ($ 1250), and Second Party, Lessee, further agrees to pay to First Party, Lessor, beginning April 15th, 1952 the sum of Two hundred fifty Dollars ($ 250.00), each and every month hereafter until Second Party, Lessee begins to produce uranium and vanadium ores from the above claims, or any of them, such payments so to be made by Second Party, Lessee, to First Party, Lessor, to be applied on the purchase price of the above-described claims, along with the royalty payments to be made by Lessee to Lessor as herein more specifically set forth.

3. Second Party, Lessee, further covenants and guarantees to First Party, Lessor, that the royalty payments in this contract referred to, and more specifically set forth herein, to be made by Second Party, Lessee, to First Party, Lessor, shall not be less than Two hundred fifty dollars ($250.00) per month, payable on the 15th day of each and every month during the life of this lease.

4. Nothing in this Agreement shall prevent Second Party, Lessee, however, from making full payment of the purchase price herein provided to be made by Second Party, Lessee, to First Party, Lessor, at any time Second Party, Lessee, desires to pay the entire amount remaining due on said purchase price under this BOND AND LEASE.

5. Second Party, Lessee, covenants and agrees to perform all assessment work required by the present Federal Statutes or the Statutes of the State of Utah, or as said Statutes may hereafter be amended with relation to the amount of assessment work required of the Locator of mining claims, and to file the necessary affidavits and notices to keep the above described mining claims in good legal standing at all times; to leave the mine workings in good order and condition and in case of Second Party's Lessee's, withdrawal from the above described mining claims at any time, to furnish Party of the First Part, Lessor, with monthly statements of all ore produced from said daims a t the time the royalty payments herein-above provided for are made.

Second Party, Lessee, reserves the right to quit and discontinue operations under this Agreement at any time by giving First Party, Lessor, thirty (30) days' notice of intention so to do .

IT IS AGREED that if Second Party, Lessee, has violated any terms of this agreement, First party, Lessor, shall be permitted to withold any and all payments made by Second Party to Third Party hereunder, and Second Party, Lessee, shall not be entitled to claim any part of said payment.

On the other hand, if Second Party, Lessee, has not violated any of the covenants and agreements herein contained, IT IS AGREED when Second Party, Lessee, gives notice to First Party that it will discontinue the operation of said mining claims under this Agreement, Second Party, Lessee, shall not be liable for any of the payments that might under the terms of this Agreement be due and payable after the date of such discontinuation by Second Party, Lessee.

The further condition of this Bond is that if by reason of the violation of any of the covenants or conditions contained in the foregoing lease, said lease shll be forfeited under the terms thereof, then the forfeiture of said lease shall likewise operate to terminate this Bond to release the Party of the First Part, Lessor, from any further obligation hereunder.

First Party, Lessor, and Second Party, Lessee, herewith mutually designate CHARLES J. MOYNIHAN, Attorney at Law of Montrose, Colorado, as Escrow Holder herein, who acknowledges receipt of mining deeds covering the above-described mining claims, wherein First Party, Lessor, is Grantor and Second Party, Lessee, is Grantee, which deeds have been duly signed and acknowledged by First Party, Lessor, and have been received by Third Party, Escrow Holder, to be held by said Third Party until Second Party, Lessee, has completed the payments to be made to First Party, Lessor, as herein more particularly provided, after which last-described event Third Party, Esdrow Holder, agrees to deliver said deeds to Second Party, Lessee, after which next-hereinabpve described occurrence, and when Lessee, Second Party, has approved the title to the mining claims hereinabove described, Third Party, Escrow Holder, agrees to deliver the aforesaid deeds to Second Party, Lessee.

IT IS FURTHER AGREED that if the Third Party, Escrow Holder, is unable to act as Escrow Holder, then JOHN A. HUGHES, Attorney at Law of Montrose, Colorado, is hereby designated to act as successor Escrow Holder to perform the duties as are in this contract set forth and described to be performed by said Escrow Holder.

Now, if the Party of the First Party shall well and faithfully perform the covenants and conditions herein, then this Bond obligation to be null and void; otherwise to remain in full force and effect, according to the terms hereof.

IT IS MUTURALLY AGREED between the Parties hereto, and this bond is executed by Party of the First Part and received by Party of the Second Part, with the understanding that should a portion of the purchase price be paid and default should thereafter be made by Party of the Second Part by reason whereof the Party of the First Part shall be relieved from any further liability to carry out the terms of the foregoing obligation, then all moneys which have been paid prior to the said default shall be forfeited to the Party of the First Part as liquidated damates.

IN WITNESE WHEREOF the Parties hereto have hereunto set their hands and seals the day and date first above written.

Samuel V Gramlich (SEAL)
PARTY OF THE FIRST PART and Lessor under Lease.

ATTEST:

GRAMLICH MINERALS, INC., aCorporation

Philip Fred Gramlich Secretary

By W Gramlich Sr Pres
PARTY OF THE SECOND PART, and Lessee under lease.

PARTY OF THE THIRD PART, and Escrow Holder, under Lease.

Signed copy

Adm. Moab, Utah

BROWNS' HOLE PROPERTY

OK Rally will chase it payment JP

BOND AND LEASE.

THIS AGREEMENT OF BOND AND LEASE made and entered into at Montrose, Colorado this 15th day of August, A. D. 1951, by and between IRENE S. GRAMLICH, Party of the First Part, Lessor, of Naturita, Montrose County, Colorado and GRAMLICH MINERALS, INC., a Corporation, of Montrose, Colorado, Party of the Second Part, Lessee,

WITNESSETH:

That the Lessor, for and in consideration of the payments, rents, royalties, covenants and agreements hereinafter expressed, to be paid, kept and performed by the Lessee, has this day leased, let and demised and by these presents does lease, let and demise unto the Lessee the following described mining properties and premises situate in BROWNS' HOLE (unorganized) Mining District, San Juan County, State of Utah, to-wit:

Red Rocks I, location certificate for which is recorded in Book R-2, Page 595 of the County Clerk and Recorder's Office of San Juan County, Sate of Utah;
Red Rocks II, location certificate for which is recorded in Book R-2, Page 595 of the County Clerk and Recorder's Office of San Juan County, State of Utah;
Red rocks III, location certificate for which is recorded in Book R-2, Page 596 of the County Clerk and Recorder's Office of San Juan County, State of Utah,
Red Rocks IV, location certificate for which is recorded in Book R-2, Page 596 of the County clerk and Recorder's Office of San Juan County, State of Utah,
Red Rocks V, location certificate for which is recorded in Book R-2, Page 596 of the County Clerk and Recorder's Office of San Juan County, State of Utah,
Red Rocks VI, location certificate for which is recorded in Book R-2, Page 587 of the County Clerk and Recorder's Office of San Juan County, State of Utah,
Red Rocks VII, loat ion certificate for which is recorded in Book R-2, Page 597 of the County Clerk and Recorder's Office of San Juan County, State of Utah,
Red Rocks VIII, location certificate for which is recorded in Book R-2, Page 597 of the County Clerk and Recorder's Office of San Juan County, State of Utah,
Red Rocks IX, location certificate for which is recorded in Book R-2, Page 598 of the County Clerk and Recorder's Office of San Juan County, State of Utah,
Red Rocks X, location Certificate for which is recorded in Book R-2, Page 598 of the County Clerk and Recorder's Office of San Juan County, State of Utah,
Red Rocks XI, location certificate for which is recorded in Book R 2, Page 598 of the County Clerk and Recorder's Office of San Juan County, State of Ut

Mary Jo I, location certificate for which is recorded in Book R 2, Page 599 of the County Clerk and Recorder's Office of San Juan County, State of Utah;

Mary Jo II, location certificate for which is recorded in Book R-2, Page 599 of the County Clerk and Recorder's Office of San Juan County, State of Utah,

Mary Jo III, location certificate for which is recorded in Book R-2, Page 599 of the County Clerk and Recorder's Office of San Juan County, State of Utah,

Mary Jo IV, location certificate for which is recorded in Book R-2, Page 600 of the County Clerk and Recorder's Office of San Juan County, State of Utah,

Mary Jo V, location certificate for which is recorded in Book R-2, Page 600 of the County Clerk and Recorder's Office of San Juan County, State of Utah,

Mary Jo VI, location certificate for which is recorded in Book R-2, Page 600 of the County Clerk and Recorder's Office of San Juan County, State of Utah,

Mary Jo VII, location certificate for which is recorded in Book R 2, Page 601 of the County Clerk and Recorder's Office of San Juan County, State of Utah,

Mary Jo VIII, location certificate for which is recorded in Book R-2, Page 601 of the County Clerk and Recorder's Office of San Juan County, State of Utah,

Mary Jo IX, location certificate for which is recorded in Book R 2, Page 601 of the County Clerk and Recorder's Office of San Juan County, State of Utah,

Mary Jo X, location certificate for which is recorded in Book R-2, Page 602 of the County Clerk and Recorder's Office of San Juan County, State of Utah,

Mary Jo XI, location certificate for which is recorded in Book R-2, Page 602 of the County Clerk and Recorder's Records of San Uuan County, State of Utah.

Blue Goose I, location certificate for which is recorded in Book R-3, Page 281 of the County Clerk and Recorder's Office of San Juan County, State of Utah;

Blue Goose II, location certificate for which is recorded in Book R-3, Page 281 of the County Clerk and Recorder's Office of San Juan County, State of Utah.

TO HAVE AND TO HOLD the above-described premises for the purpose of mining from the 1st day of April, A. D. 1951, to and including 1st day of April A. D. 1980, unless sooner forfeited or terminated through violation of any of the covenants or conditions herein contained, with no power to assign this lease or any part thereof, or to sublet the whole or any part thereof, or said leased premises without the written consent of the Lessor first had and obtained.

THE LESSEE, in consideration of the premises, has covenanted, contracted and agreed, and by these presents does covenant, contract and agree to and with the Lessor, her executors, administrators and assigns as follows, to wit:

1. To enter upon said leased premises and to work the same in mine fashion in manner necessary to good and economical mining, so as to take out the greatest amount of ore possible, with due regard to the development and preservation of said mines or mining premises, as workable mining property, and to the special covenants herein contained.

2. To allow the Lessor or her agent from time to time to enter upon and descend into all parts of said leased premises for the purpose of inspection, surveys or taking samples therefrom, and to render to said parties proper assistance in making such surveys or examinations.

3. The Lessor reserves the property and right of property as hereinafter limited and specified, in and to a royalty in all ores extracted from said premises during the period of this lease, and the Lessee covenants and agrees to pay and allow the Lessor as royalty upon all ores mined, shipped or sold from said leased premises in any manner during the life of this lease as follows, to-wit:

15% of the smelter or processing returns on all ores mined and smelted or processed from the above-described premises, in particular including the uranium and vandium content of all ores mined by Lessee.

IT IS FURTHER UNDERSTOOD AND AGREED that Lessor is to apply 2/3 of the 15% royalty as received from Lessee, on the purchase price of the above-described mining claims which Lessee has conditionally agreed to purchase from Lessor, for the total sum of Twenty five Thousand Dollars ($ 25,000).

DT DS FURTHER AGREED that the remaining 5% royalty shall be retained by Lessor and not credited on the next-hereinabove described purchase price, but shall be retained by Lessor as an over-riding royalty so long as Lessee, his heirs, executors, administrators or assigns shall mine the above-described premises.

When Lessee shall have paid the full purchase price of said claims, to-wit, the sum of Twenty-five thousand Dollars ($25,000), from the 10% royalty payments hereinabove described, plus additional monthly payments to be made by Lessee as hereinafter set forth, the Lessor shall, after said mining claims have been paid for in full, in accordance with the provisions of this agreement, be paid a 5% overriding royalty as long as ores and minerals are mined from the above-described claims by Lessee. However, IT IS UNDERSTOOD AND AGREED that when the full purchase price shall have been paid by Lessee to Lessor, the 10% royalty payment hereinabove referred to shall cease and Lessee shall no longer be liable for the payment hereinabove referred to, and shall, after said purchase price shall have been paid in full, be liable to Lessor only for said 5% royalty hereinabove referred to.

All settlements to be made upon the smelter, mill or sampler net assay values, deducting therefrom only development and hauling allowance made by the Atomic Energy Commission.

The Lessee shall, and hereby does, assume all responsibility in case of accident to Lessee or any of the employees of Lessee in or about said property.

All taxes assessed against the said demised premises for ores mined and shippped under this lease shall be paid by the Lessee.

All bills and expenses incurred by Lessee, or those in privity with said Lessee , shall be promptly paid by Lessee, and by such prompt payment said Lessee shall prevent the filing of any and all liens of miners, mechanics or materialmen, against said demised premises, and if by reason of the failure of the Lessee to pay such bills or expenses , any lien or liens shall be filed against said premises, the Lessor may forthwith pay off and discharge the same and the Lessee holds itself bound to pay to Lessor all sums so advanced or paid by her to clear said premises from liens which

may be filed as aforesaid, and Lessor may also, at her election, declare a forfeiture of this lease.

The Lessee may, if it seems to him necessary, mortgage developed ore,(provided, however , that the written consent of the Lessor shall be first had and obtained) in order to finance operations which will mine such developed ore.

Lessee further covenants and agrees that no person not in privity with the parties hereto, shall be allowed to hold possession of said premises or any part thereof under any pretext whatever.

Further that the Lessee shall deliver to the Lessor quiet and peaceable possession of said demised premises in good order and condition, with all drifts, tunnels and other passages throoughly drained and cleared of loose rock and rubbish and said premises ready for immediate continued working, without demand or further notice, on the 1st day of April, A. D. 1960, at noon, or any time previous thereto, upon demand for forfeiture, and it is mutually understood that all machinery and tools which may be placed upon said premises by the Lessee may be removed therefrom within ten (10) days after the termination of this lease, provided, however, that no such tools or machinery shall be so removed while the Lessee may be in any manner indebted to the Lessor under any obligations incurred under this lease.

Upon the violation of any covenant or agreement herein contained, this lease shall at the option of the Lessor expire and terminate and said premises, with the appurtenances and all other buildings and improvements, shall become forfeited to the Lessor, and the Lessor or her agent may thereupon, after demand in writing for possession, enter upon said premises and dispossess all persons occupying the same, with or without force, and with or without process of law, or, at the option of the Lessor, the Lessee and all persons found occupying said premises, or any part thereof, may be proceeded against as guilty of unlawful detainer.

Time is of the essence of this Agreement and each and every clause of this indenture, and all covenants and conditions contained herein, expressed or implied, shall extend to and be binding upon the successors, heirs, executors, administrators and lawful assigns of all parties hereto.

WITNESS our hands and seals this 15th day of August 1951.

KNOW ALL MEN BY THESE PRESENTS THAT IRENE S. GRAMLICH, Party of the First Part, herein described as the Lessor in the foregoing Lease, is held and firmly bound unto GRAMLICH MINERALS, INC., a Corporation, Party of the Second Part herein, and described as Lessee in the foregoing Lease, in the penal sum of Twenty-five thousand DOLLARS ($25,000), for the payment of which, well and truly to be made, I hereby bind myself, my heirs, administrators, executors and assigns, firmly, by these presents.

WITNESS MY HAND AND SEAL this 15th day of August 1951.

BUT THE CONDITION of the foregoing obligation is such that

WHEREAS, the above-bounded Party of the First Part, Lessor, has on this date agreed to sell to Party of the Second Part, Lessee, the following-described mining property, to-wit:

NAME OF CLAIM	RECORDED IN BOOK NO.	PAGE NO.	COUNTY AND STATE RECORDED.
Red Rocks 1	R-2	595	San Juan County, Utah, Clerk's Records
" " 11	" "	"	" " " "
" " 111	" "	596	" " " "
" " 1V	" "	596	" " " "
" " V	" "	596	" " " "
" " Vl	" "	597	" " " "
" " Vil	" "	597	" " " "
" " Vill	" "	597	" " " "
" " 1X	" "	598	" " " "
" " X	" "	598	" " " "
" " Xl	" "	598	" " " "

NAME OF CLAIM	RECORDED IN BOOK, NO.	PAGE NO.	COUNTY AND STATE RECORDED.
Mary Jo 1,	R-2	599	San Juan County, Utah Clerk's Records.
" " 11,	" "	"	" " " "
" " 111,	" "	"	" " " "
" " 1V,	" "	600,	" " " "
" " V,	" "	"	" " " "
" " V1,	" "	"	" " " "
" " V11,	" "	601,	" " " "
" " V111,	" "	"	" " " "
" " 1X,	" "	"	" " " "
" " X,	" "	602,	" " " "
" " X1,	" "	"	" " " "
Blue Goose 1,	R-3	281,	" " " "
Blue Goose 11,	" "	281,	" " " "

all of the aforesaid claims being situate in BROWN'S HOLE (unorganized) Mining District, San Juan County, State of Utah, and said claims being the same property embraced in the foregoing Lease which is simultaneously executed herewith upon the following terms:

NOW, if the said Party of the Second Part, Lessee, shall well and truly make the aforesaid payments within the time above limited, Party of the First Party, Lessor, shall forthwith convey said property to the Party of the Second Part, Lessee, by good and sufficient mining deed and will also furnish an abstract of title to said premises, certified by a competent abstractor, showing good and valid title to said premises in Party of the First Part, Lessor, free and clear of all liens and incumbrances at the time of said conveyance. It is hereby agreed that any and all rights of any Party which may have been in existence prior to March 1, 1951, upon any of the territory covered by the above-named and described claims, shall never be contested in any way by the Party of the Second Part, his heirs or assigns.

2. As one of the considerations which has induced First Party, Lessor, to enter into the within contract, Second Party, Lessee, at the time of the

signing of this Agreement pays to First Party, Lessor, the sum of One thousand two hundred fifty DOLLARS ($1250.00), and Second Party, Lessee, further agrees to pay to First Party, Lessor, beginning April 15th, 1942 the sum of Two hundred fifty Dollars ($250.00) each and every month hereafter until Second Party, Lessee, begins to produce uranium and vanadium ore frmm the above claims, or any of them, such payments so to be made by Second Party, Lessee, to First Party, Lessor, to be applied on the purchase price of the above-described claims, along with the royalty payments to be made by Lessee to Lessor as herein more specifically set forth.

3. Second Party, Lessee, further covenants and guarantees to First Party, Lessor, that the royalty payments in this contract referred to, and more specifically set forth herein, to be made by Second Party, Lessee, to First Party, Lessor, shall not be less than Two hundred fifty Dollars ($250.00) per month, payable on the 15th day of each and every month during the life of this lease.

4. Nothing in this Agreement shall prevent Second Party, Lessee, however, from making full payments of the purchase price herein pvovided to be made by Second Party, Lessee, to First Party, Lessor, at any time Second Party, Lessee, desires to pay the entire amount remaining due on said purchase price under the BOND AND LEASE.

5. Second Party, Lessee, covenants and agrees to perform all assessment work required by the present Federal Statutes or the Statutes of the State of Uthh, or as said Statutes may hereafter be amended with relation to the amount of assessment work required of the Locator of mining claims, and to file the necessary affidavits and notices to keep the above-described mining claims in good legal standing at all times; to leave the mine workings in good order and condition and in case Second Party's, Lessee's, withdrawal from the above-described mining claims at any time, to furnish Party of the First Part, Lessor, with monthly statements of all ore produced from said claims at the time the royalty payments hereinabove provided for are made.

Second Party, Lessee, reserves the right to quit and discontinue operations under this Agreement at any time by giving First Party, Lessor, thirty (30) days' notice of intention so to do.

IT IS AGREED that if Second Party, Lessee, has violated any terms of this Agreement, First Party, Lessor, shall be permitted to withold any and all payments made by Second Party to Third Party hereunder, and Second Party, Lessee, shall not be entitled to claim any part of said payments.

On the other hand, if Second Party, Lessee, has not violated any of the covenants and agreements herein contained, IT IS AGREED when Second Party, Lessee, gives notice to First Party that it will discontinue the operation of said mining claims under this Agreement, Second Party, Lessee, shall not be liable for any of the payments that might under the terms of this Agreement be due and payable after the date of such discontinuation by Second Party, Lessee.

The further condition of this Bond is that if by reason of the violation of any of the covenants or conditions contained in the foregoing lease, said lease shall be forfeited under the terms thereof, then the forfeiture of said lease shall likewise operate to terminate this bond and to release the Party of the First, Lessor, from any further obligation hereunder.

First Party, Lessor, and Second Party, Lessee, herewith mutually designate CHARLES J. MOYNIHAN, Attorney at Law of Montrose, Colorad, as Escrow Holder herein, who acknowledges receipt of mining deeds covering the above-described mining claims, wherein First Party, Lessor, is Grantor and Second Party, Lessee, is Grantee, which deeds have been duly signed and acknowledged by First Party, Lessor, and ~~have been duly signed and acknowledged by First Party,~~ Lessor, and have been received by Third Party, Escrow Holder, to be held by said Third Party until Second Party, Lessee, has completed the payments to be made to First Party, Lessor, as herein more particularly provided, after which last-described event, Third Party, Escrow Holder, agrees to deliver said deeds to Second Party, Lessee, after ~~which~~ next-hereinabove described occurrence, and when

Lessee, Second Party, has approved the title to the mining claims hereinabove described, Third Party, Escrow Holder, agrees to deliver the aforesaid deeds to Second Party, Lessee.

IT IS FURTHER AGREED that if Third Party, Escrow Holder, is unable to act as Escrow Holder, then JOHN A. HUGHES, Attorney at Law of Montrose, Colorado, is hereby designated as successor Escrow Holder to perform the duties as are in this contract set forth and described to be performed by said Escrow Holder.

Now, if the Party of the First Part shall well and faithfully perform the covenants and conditions heren, then this Bond obligation to be null and void; otherwise to remain in full force and effect, according to the terms hereof.

IT IS MUTUALLY AGREED between the Parties hereto, and this bond is executed by Party of the First Part and received by Party of the Second Part, with the understanding that should a portion of the purchase price be paid and default should thereafter be made by Party of the Second Part by reason whereof the Party of the First Part shall be relieved from any further liability to carry out the terms of the foregoing obligation, then all moneys which have been paid prior to said default shall be forfeited to the Party of the First Part as liquidated damages.

IN WITNESS WHEREOF the Parties hereto have hereunto set their hands and seals the day and date first above written.

Jesse S. Gramlich (SEAL)
PARTY OF THE FIRST PART and LESSOR under Lease.

GRAMLICH MINERALS, Inc., a Corporation

By H. Gramlich Sr. Pres
PARTY OF THE SECOND PART and LESSEE under Lease.

ATTEST:

Philip Fred Gramlich
Secretary.

By [illegible]

PARTY OF THE THIRD PART and Escrow Holder under Lease.

(original)

DMEA-2771

Mining Division
Date Rec'd.
NOV 5 - 1952
BUREAU OF MINES
Denver, Colorado

Gramlich Minerals, Inc.

Application for D.M.E.A. Loan

of $30,000 for

An Exploratory Drilling Project

for

Carnotite (U_3O_8)

Browns' Hole Property

Moab, Utah.

1952

(Letter of transmittal inside)

Moab, Utah,
Nov. 3, 1952.

Mining Division
Received
NOV 5 - 1952
Bureau of Mines
Denver Colorado

Mr. W. H. King,
Executive Officer of DMEA,
224 New Custom House,
Denver, Colorado.

Subject: Application by Gramlich Minerals, Inc., for a DMEA loan.

Dear Mr. King:

The enclosed application in quadruplicate is for a DMEA loan of $30,000 for a proposed exploratory drilling program of the Browns' Hole properties near Moab, Utah.

These 59 unpatented claims are held by Gramlich Minerals Inc., under two separate leases -- copies of which are attached to the original application form. There are no conflicts of any sort on this ground. Maps showing location of claims and geology are attached to each of the four application forms.

We feel that the factors considered in passing upon applications are in each instance favorable for this property:

(a) The strategic importance of the mineral involved -- Carnotite (U_3O_8)

(b) As brought out in the application the geologic probabilities are very good.

(c) The availability of manpower, materials, supplies, equipment, and water are excellent.

(d) The accessibility is far above average, being only two miles from a U. S. paved highway.

(e) The applicants have all been successfully engaged in uranium-vanadium mining for a long period of time.

We trust that all information required is attached and if further data is needed it will be promptly submitted if available. If so desired we will be glad to assist your examining engineers and geologists upon their inspection trips.

Yours very truly,

W. J. Gramlich, Sr., Pres.
For: Gramlich Minerals, Inc.

MF-103
(Revised April 1952)

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. .....
Metal or Mineral .....
Date Received .....
Estimated Cost .....
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 Minerals, Inc. Moab, Utah. Incorporated in Utah, Colorado, and Arizona. (J. W. Gramlich, Sr., President, Moab, Utah.
Directors: (J. W. Gramlich, Jr., V. Pres. Paradox, Colorado.
(Philip F. Gramlich, Secy-treas., Green River, 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 all claims envolved and ties to ¼ Cors. 27, 28, 33, & 34, of T. 28 S., R. 23 E., Moab District, Green River Desert Area, Utah. The claims are listed on accompanying papers, page 1.

(*b*) State any mine name by which the property is known. Brown's Hole properties.

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise Lessee, under bond to purchase.

(*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 are attached to this application.

(*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. Please refer to accompanying papers, page 1.

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. Page 1

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades. Pages 1 & 2

(*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. Pages 2 & 3

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points. Page 3

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power. Page 3

5. *The exploration project.*—(*a*) State the mineral or minerals for which you wish to explore Carnotite (U_3O_8), with associated Vanadium (V_2O_5)

(*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. Pages 3 & 4

(*c*) The work will start within ..... days and be completed within ..... months from the date of an exploration project contract. Page 4

(*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. Pages 4 & 5

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.). Page 5

(*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. Page 5

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel. Not applicable

(*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. Not applicable

(*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. Page 5

(*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. Page 5

7. (*a*) Are you prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation (Sec. 7, DMEA No. 1)?

(*b*) How do you propose to furnish your share of the costs?

[X] Money [ ] Use of equipment owned by you [ ] Other

Explain in detail on acompanying paper. Page 6

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 Nov 3, 1952

Gramlich Minerals, Inc.
(Applicant)

By J. W. Gramlich Sr. Pres.

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

Gramlich Minerals, Inc., J. W. Gramlich, Sr., Moab, Utah.

Accompanying papers for Form MF-103 Page 1

3. Applicant's property rights.

(a) Under Bond and Lease agreement from Irene S. Gramlich, Party of the First Part, lessor, of Naturita, Colorado, Gramlich Minerals, Inc., have the following claims:

Blue Goose 1 and Blue Goose 2
Red Rocks 1 to 11, Incl.
Mary Jo 1 to 11, "
Golden West
Golden West 1 to 10, "
Canary
Canary 1 to 10, "
San Juan 1 to 6, "

A total of 52 claims comprising approximately 1040 acres.

In addition the applicant has under lease from Howard Balsley, of Moab, Utah, the following claims; adjoining the above listed claims:

Sunset
Bad Luck
Grass Root
Blue Jay
Pine Tree
Blue Bird
Sunnyside
Red Bird (May be Grass Root on map)

A total of seven claims comprising approximately 140 acres.

None of the 59 claims listed above are patented, and the names of said claims and the book and pages in which the location certificates thereof are recorded in the office of the county recorder of said San Juan County, Utah, are given in the lease agreements covering the claims. A copy of these lease agreements are attached.

4. Physical description.

(a) There are no operations at the present time. Past mining operations were carried out on the Sunset, Bad Luck, Blue Jay, Grass Root (Red Bird), Pine Tree, and the Sunnyside claims. These operations were confined mainly to mining rim exposures and consist of relatively short drifts from 50 to 150 feet back from the rim, and shallow open pit operations. There is no equipment on the properties at the present time. All workings are accessible for examination and can be readily reached by road.

(b) Although records are not available for much of the production, the following figures were obtained for part of the production:

Blue Jay and Pine Tree Claims: Records indicate that part of the production (from 1934 to 1944) show:

Highgrade (log material) 5 tons 20 percent U_3O_8
Low grade ore 1500 tons from .30 to 1.00 percent U_3O_8; 1.00 to 5.00 percent V_2O_5

COPY

4. (b) Continued

In addition to the above during this period 200 tons of ore averaging 1.5 percent U_3O_8 and from 4.0 to 7.0 percent V_2O_5 was shipped. This ore as well as the 5 tons of highgrade was shipped to Vitro Chemical Co. The 1500 tons listed above was produced during the Metals Reserve program and was shipped to USV and VCA.

During the summer of 1952, leasers made the following shipments:

Wet Lbs	U_3O_8	V_2O_5
14,505	0.24	0.94
29,133	0.58	1.77
44,190	0.15	0.95
18,173	0.19	1.12
108,223	0.26	1.17
12,681	0.26	1.27

In addition these leasers handpicked approximately 1,000 pounds of highgrade ore assaying from 20.0 to 30.0 percent U_3O_8.

Although there are no records covering production from the Little Joe, Blue Bird, Sunnyside, and Grass Root claims, existing mine openings and estimated deposit thicknesses would indicate a probable total tonnage in excess of an additional 2500 tons produced from these claims.

(c)
The ore occurrences are found in the Salt Wash member of the Morrison formation of Jurassic Age. The deposits are bedded and irregular in shape and size. The minerals of commercial value are Carnotite (U_3O_8) and Vanadium (V_2O_5).

It is strongly believed that the mineral occurrences will be found to extend easterly from the rim in the Salt Wash under the Brushy Basin member of the Morrison formation--ground covered by the above named claims. It is believed advisable to begin exploratory drilling an appreciable distance back from the rim exposures for several reasons. Major (and subsequent minor post-mineral) faulting, combined with excessive erosion of the softer wet shale and clay beds separating the sandstone rims, has evidently resulted in considerable slump action along the rims. This action combined with normal erosion reflects conditions not typical of the undisturbed formations several hundred feet back from the rim.

In any discussion of the geologic probability of making a significant ore discovery in the Colorado Plateau Area several factors must be considered. It is relatively true that certain geologic criteria have been established during the past few years -- primarily through observation and experience of actual mining operations, commonly called hind-sight in less technical fields. However, it is now recognized that such factors as; favorable areas, favorable stratigraphic formations, special horizons or beds within these formations, localized characteristics of these special horizons or beds -- such as thickness, texture, and composition of the sand rock, and established trends or belts within the areas, are all factors that had an apparent effect

COPY

4. (c) Continued

on ore deposition. Although these criteria are important to the extent of determining favorable locations for exploration in a new or unknown area, they are still secondary to one important factor -- that is the presence of known ore bodies or the record of actual production.

The present trend of thought of practical geologists who have had occasion to work in the Colorado Plateau Area is that in an unknown, unproductive, area the above listed criteria are of major significance in considering an exploration program. When commercial ore bodies have been mined within the area, these criteria are of lessor importance, although they somewhat establish the exploratory pattern in the search for additional ore deposits in the area.

In other words, if commercial ore bodies of appreciable size have been mined in an area -- that in itself is the criteria, regardless of the presence or absence of so-called favorable geologic conditions. In the case of the Browns' Hole area most of the favorable conditions are present: (1) a favorable general area; (2) favorable productive Salt Wash formations, and fair to good characteristics of the various sandstone rims within the Salt Wash; and (3) the most important, the known appreciable production of both highgrade and medium grade ores from rim exposures almost incircling the area to be drilled.

(d)

The area is exceptionally accessible being less than two miles from main U. S. Highway 160, between Moab and Monticello, Utah. Access roads connect the area with the main highway, and others traverse the ground in question north and south, and east and west.

Ore produced could be trucked to Monticello, Utah, a distance of 35 miles; or to Thompsons, Utah, a distance of 61 miles.

All necessary mining supplies are available in Moab, a distance of 23 miles, and Monticello, Utah.

(e)

Ample manpower is available in Moab, Monticello, and the Colorado Plateau area in general. All materials, supplies, and necessary equipment can be obtained in Moab and Monticello, Utah, and Grand Junction, Colorado.

More than sufficient water is available from two year-around springs within a distance of one and one-half miles from the property. There is no electrical power available.

5. The exploration project.

(b)
As previously mentioned under 4 (c), it is believed advisable to explore by diamond-drilling the area easterly from the rim near claims Pine Tree and Blue Jay. Under the proposed DMEA loan of $30,000 it is estimated that between 7,500 feet and 9,000 feet of core-drilling can be accomplished under contract.

COPY

5. (b) continued

It is anticipated the depth to the Salt Wash member underlying the Brushy Basin may vary from 100 feet to 250 feet, probably averaging hole depths of 200 feet. Under public invitations to bid, the average price per foot for this depth, formations, locality, and footage, should approximate $3.25 to $4.00 per foot.

It is proposed to begin drilling in the vicinity of the Golden West Nos. 3, 4, 5, and 6 claims on a grid pattern of 500-foot centers. After 12 to 20 holes spaced in this manner have been drilled sufficient geological information should have been obtained to establish location and trends of the most favorable sandstones. Refer to map for preliminary hole locations. Geologic sections drawn in various directions from the core data should establish; (1) trends of favorable formations which will indicate locations for the remainder of the holes to be drilled under the contract, and (2) possible ore bodies or mineralized areas which will determine further hole locations.

It has been intimated by the Exploration Branch of the AEC that in the event either of the above two probabilities occur they would be interested to further explore the area under an AEC drilling program.

(c)

After the application has been approved and the Exploration Project Contract signed, it would take approximately 45 days to send forth invitations to bid, award the contract, and for the contractor to begin actual drilling.

Utilizing two drilling units the contract should be completed in 60 to 80 days. This area should be little affected by winter conditions.

(d) Operating experience.

J. W. Gramlich, Sr. President Gramlich Minerals Inc.

1916 through 1919.	Worked for Standard Chemical Co. As shipping clerk, shift boss, ore sorter, and in charge of ore sorting. Worked for Radium Co. of Colo. As surveyors helper, uranium ore sorter, assistant to accountant. Owned claims and mined and shipped highgrade uranium ores during radium days.
1940 to 1945	Owned and operated Lion Group of claims on La Salle creek, Colorado, producing over 4,000 tons of ore averaging 1.96 percent V205 and 0.30 percent U308.
1948 to 1950	Operated own property near Green River, Utah, producing over 3,000 tons of ore averaging 0.25 percent U308 for AEC procurement.
1950 to Present	Reopened Lion Group property and produced over 3,000 tons of 0.24 U308. ore. Presently active at Lion Group and at Green River, Utah.

COPY

5. (d) Continued

J. W. Gramlich, Jr., Vice president of Gramlich Minerals Inc.

1940 through 1941	Worked for his father at Lion Croup property in all phases of the operation, mining, mucking, tramming, shifting, supervising, and clerical.
1942	Left the operation to enter the U. S. Air Corps, returning to Lion Group operation in 1950 as mine-foreman, a position he now holds.

Philip F. Gramlich Secy-treasure of Gramlich Minerals Inc.

For the past five years worked for and with his father J. W. Gramlich, Sr., in all phases of mining, exploration, and production, of uranium and vanadium ores at the Green River, Utah, operation mentioned above. At the present time he is employed as miner and mine-foreman at the Green River property.

J. W. Gramlich, Sr. will supervise the proposed exploratory drilling program on the Browns' Hole property.

6. Estimate of Costs.

(a) Independent contracts.

All drilling will be under contract on a cost per foot basis. Public invitations for bid will be published and the lowest acceptable contractor will be awarded the job. It is estimated $26,000 will be available to allocate for contract drilling.

Approximately 7,500 feet of hole @ approx. $3.50/ft. $26,000

(b) Labor, supervision, consultants.

Supervision, accounting, core logging and handling, sample preparation, assist. engineering, etc.

J. W. Gramlich, Sr.	$500.00 per month based upon a 3 month period	1,500
	Estimated traveling expense to project 3-month period	450
Engineering and geological studies and mapping: based upon a 3-month period $500/ mo. fee.		1,500
(g) Miscellaneous.	Analytical work (est.)	200
	Rent of quantitative counter	100
(h) Contingencies.	Approx. 8 percent of (b) & (g)	250
	Total	$30,000

COPY

7. Payment of costs.

(a) I am prepared to furnish my share of the cost of the proposed project in accordance with the regulations on Government participation (Sec. 7, DMEA No. 1)

(b) I propose to pay all costs incidental to the proposed project by cash. At the end of each full calendar month I will submit to the DMEA field office a voucher (Form MF-104 and MF-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 agreed-upon proportion of the allowable costs incurred.

COPY

One Copy: Lease AGREEMENT

Between: Irene S. Gramlich

&

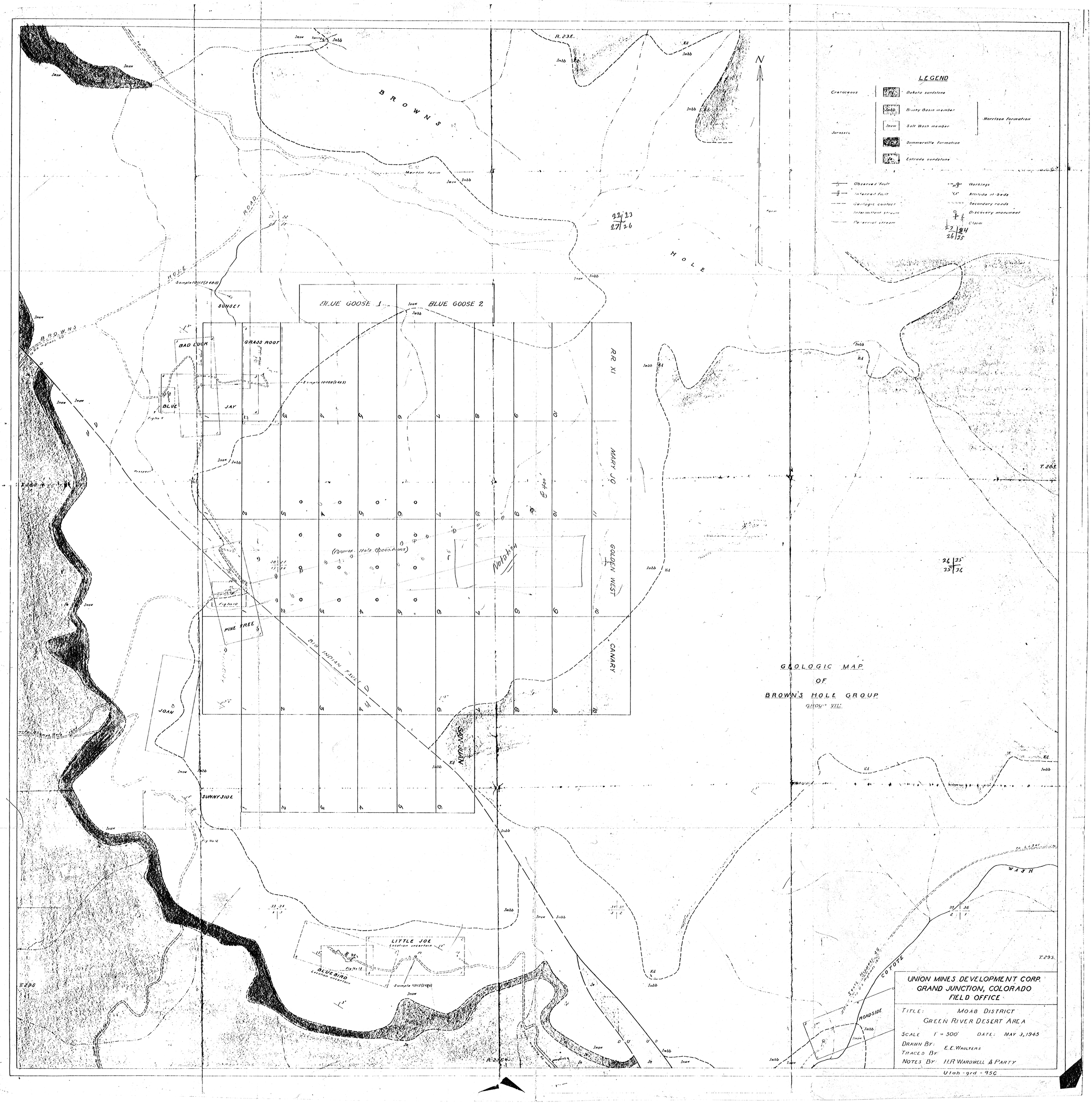
Gramlich Minerals, Inc

One Copy: Lease AGREEMENT

Between: Howard W. Balsley

&

Gramlich Minerals, Inc.


LEGEND
Cretaceous
Kd Dakota sandstone
Jmbb Brushy Basin member
Jmsw Salt Wash member
Morrison formation
Jurassic
Summerville formation
Entrada sandstone
Observed fault
Inferred fault
Geologic contact
Intermittent stream
Perennial stream
Workings
Attitude of beds
Secondary roads
Discovery monument
Claim
N
BROWNS HOLE
BLUE GOOSE 1
BLUE GOOSE 2
SUNSET
BAD LUCK
GRASS ROOT
BLUE JAY
R. 23 E.
R. 24 E.
T. 28 S.
T. 29 S.
GOLDEN WEST
CANARY
PINE TREE
JOAN
SUNNYSIDE
BIG INDIAN FAULT
LITTLE JOE
BLUEBIRD
COYOTE WASH
ROADSIDE
(Approx. 110 holes)
Notchim
GEOLOGIC MAP
OF
BROWN'S HOLE GROUP
GROUP VII
UNION MINES DEVELOPMENT CORP.
GRAND JUNCTION, COLORADO
FIELD OFFICE
TITLE: MOAB DISTRICT
GREEN RIVER DESERT AREA
SCALE 1" = 500' DATE: MAY 3, 1945
DRAWN BY: E.E. WAULTERS
TRACED BY:
NOTES BY: H.R. WARDWELL & PARTY
Utah-grd-95C

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
DOCKET 2771

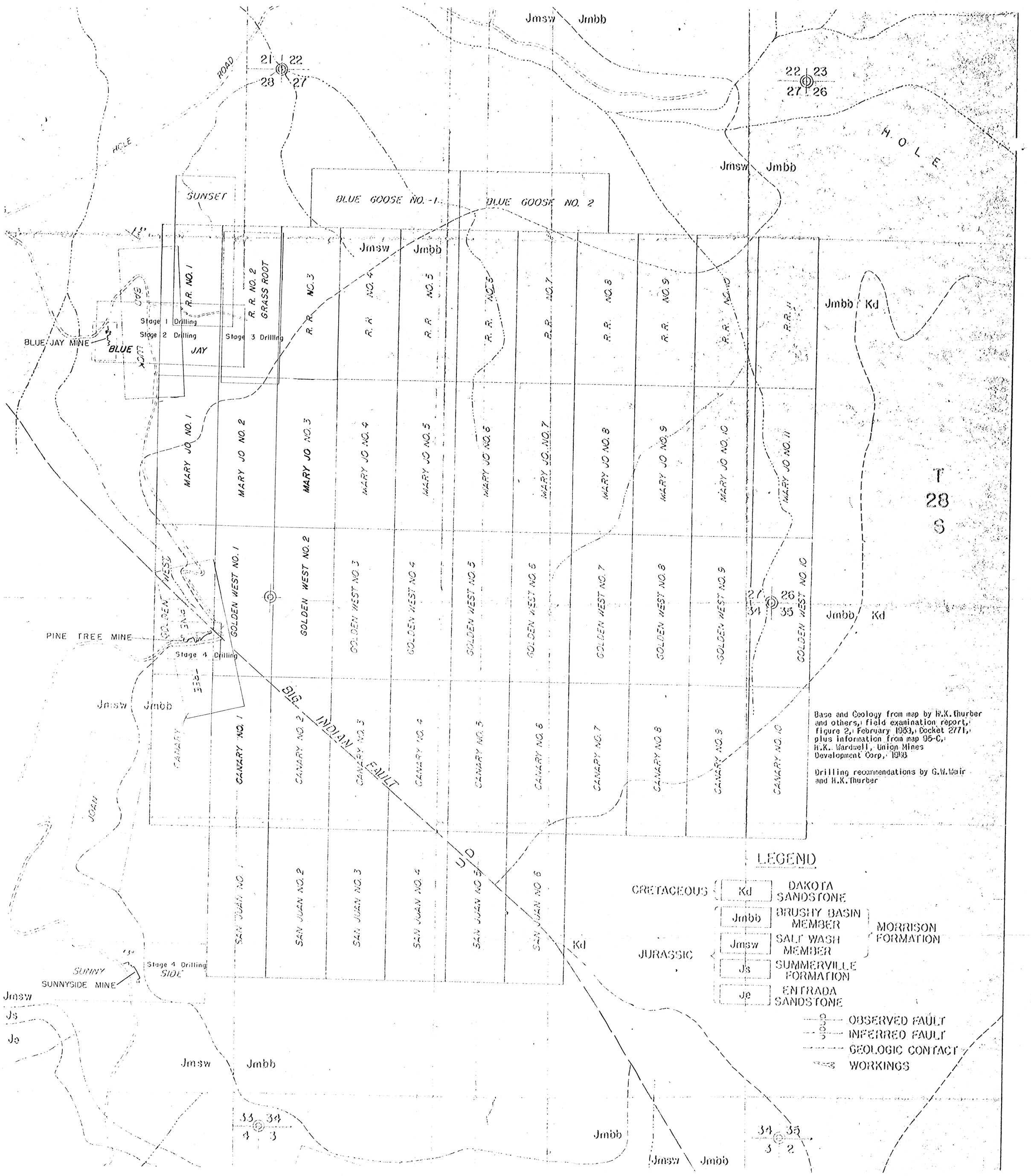


Figure 3. CLAIM MAP OF GRAMLICH MINERALS, INC., LEASE, SHOWING AREAS RECOMMENDED FOR DRILLING UNDER PROPOSED AMENDMENT TO CONTRACT

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS
EXPLORATION ADMINISTRATION
DOCKET 2771

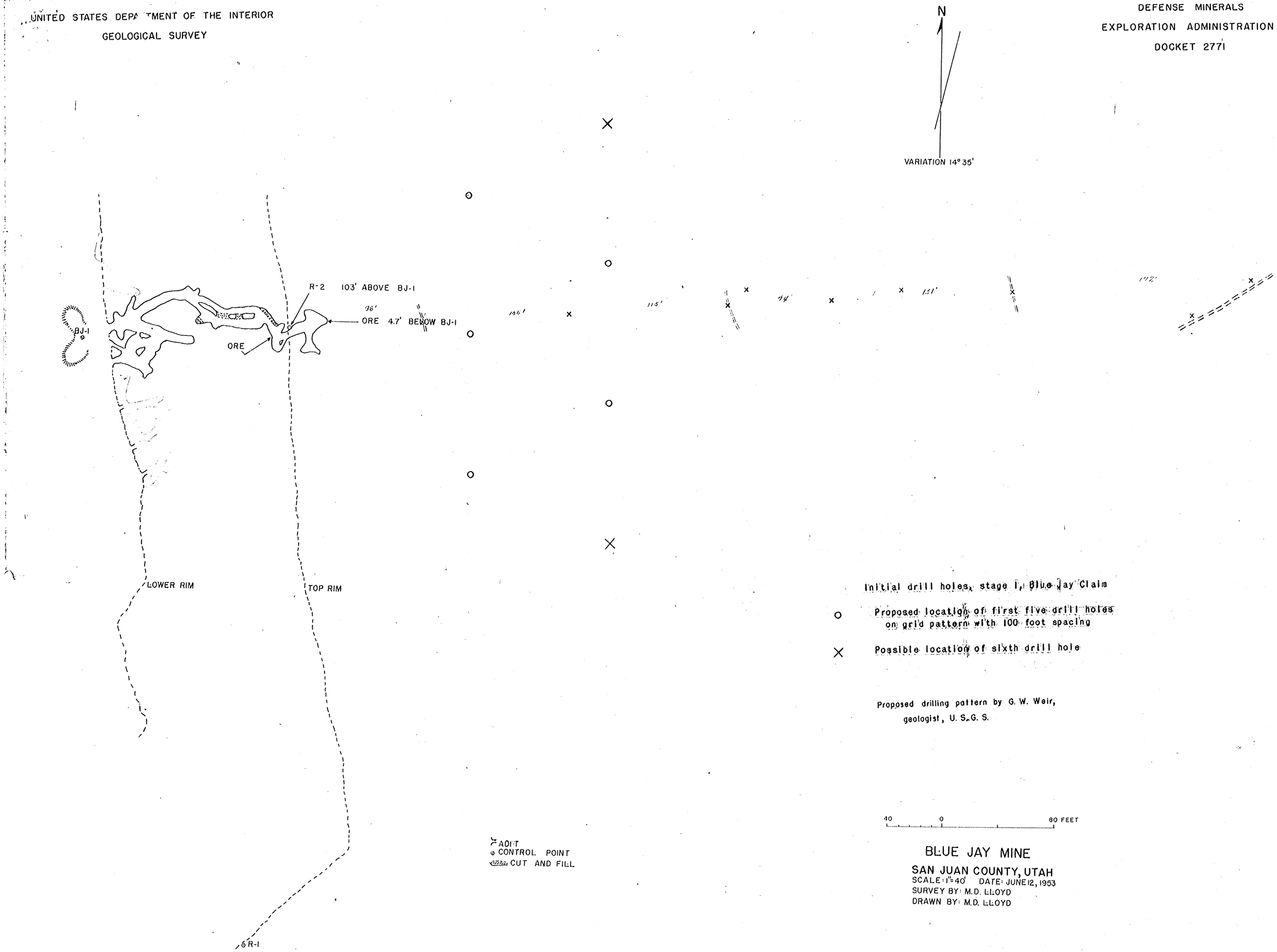


Figure 2. GRAMLICH MINERALS INC. LEASE, BROWN'S HOLE AREA, SAN JUAN COUNTY, UTAH

UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

DOCKET 2771

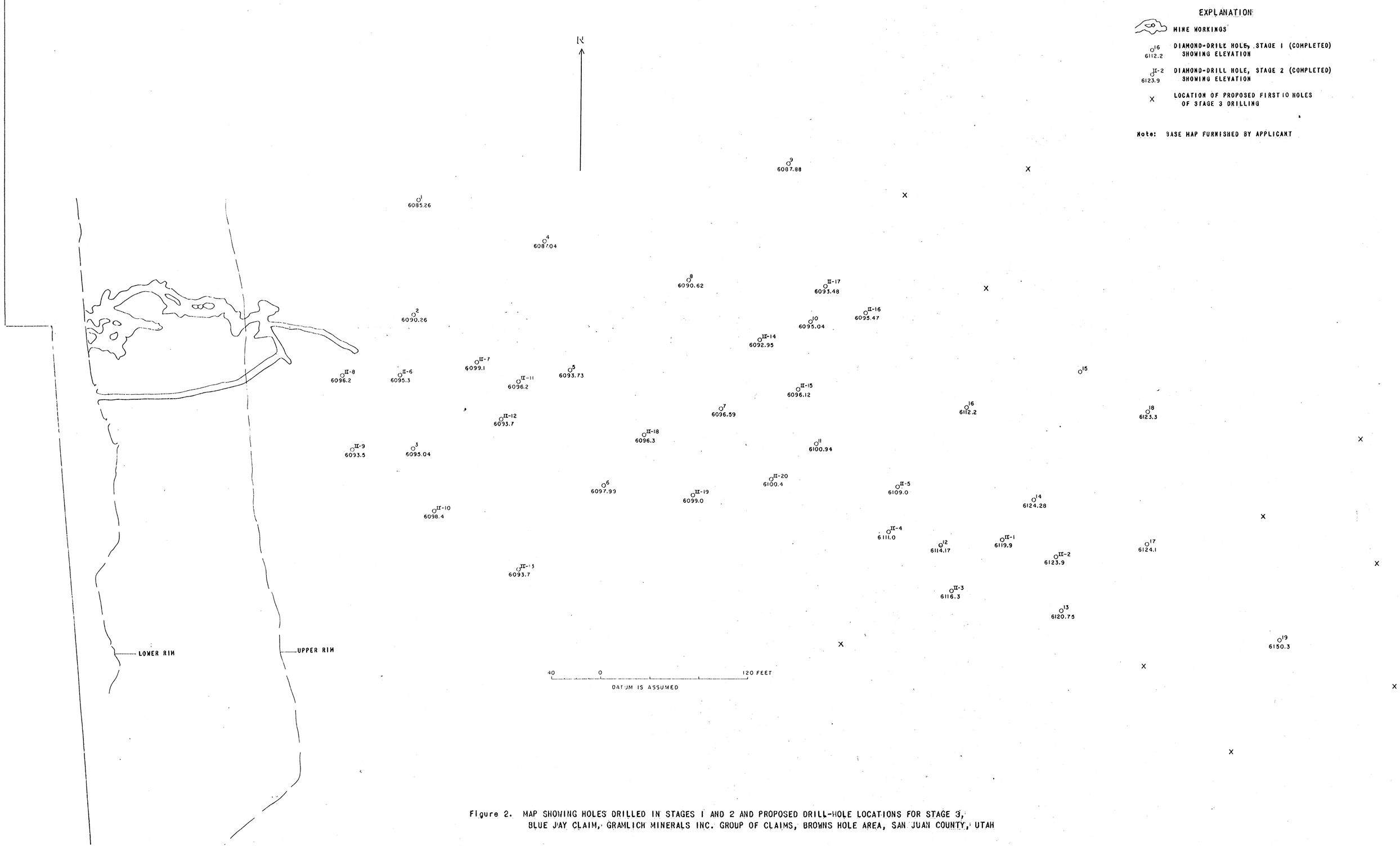
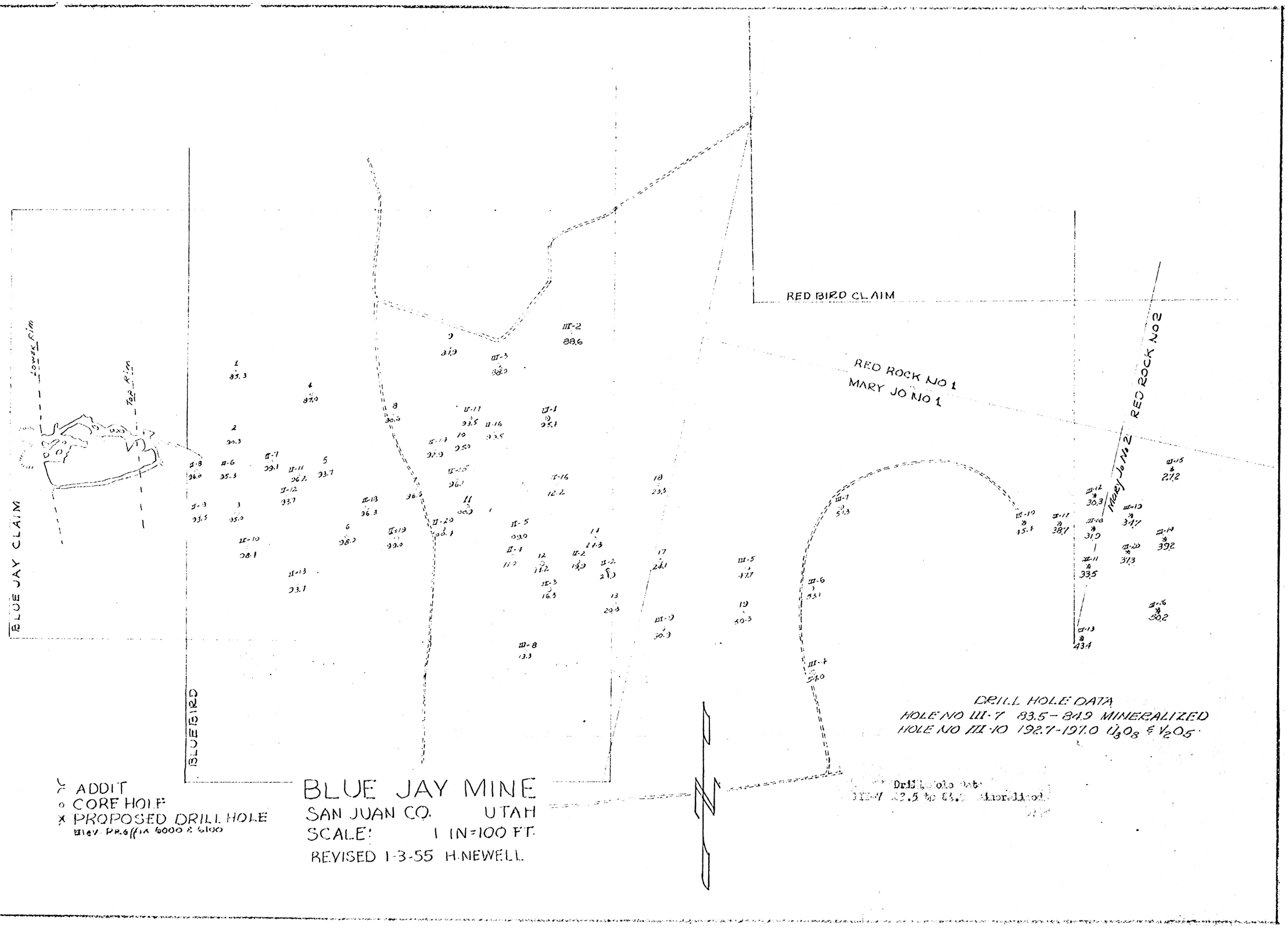
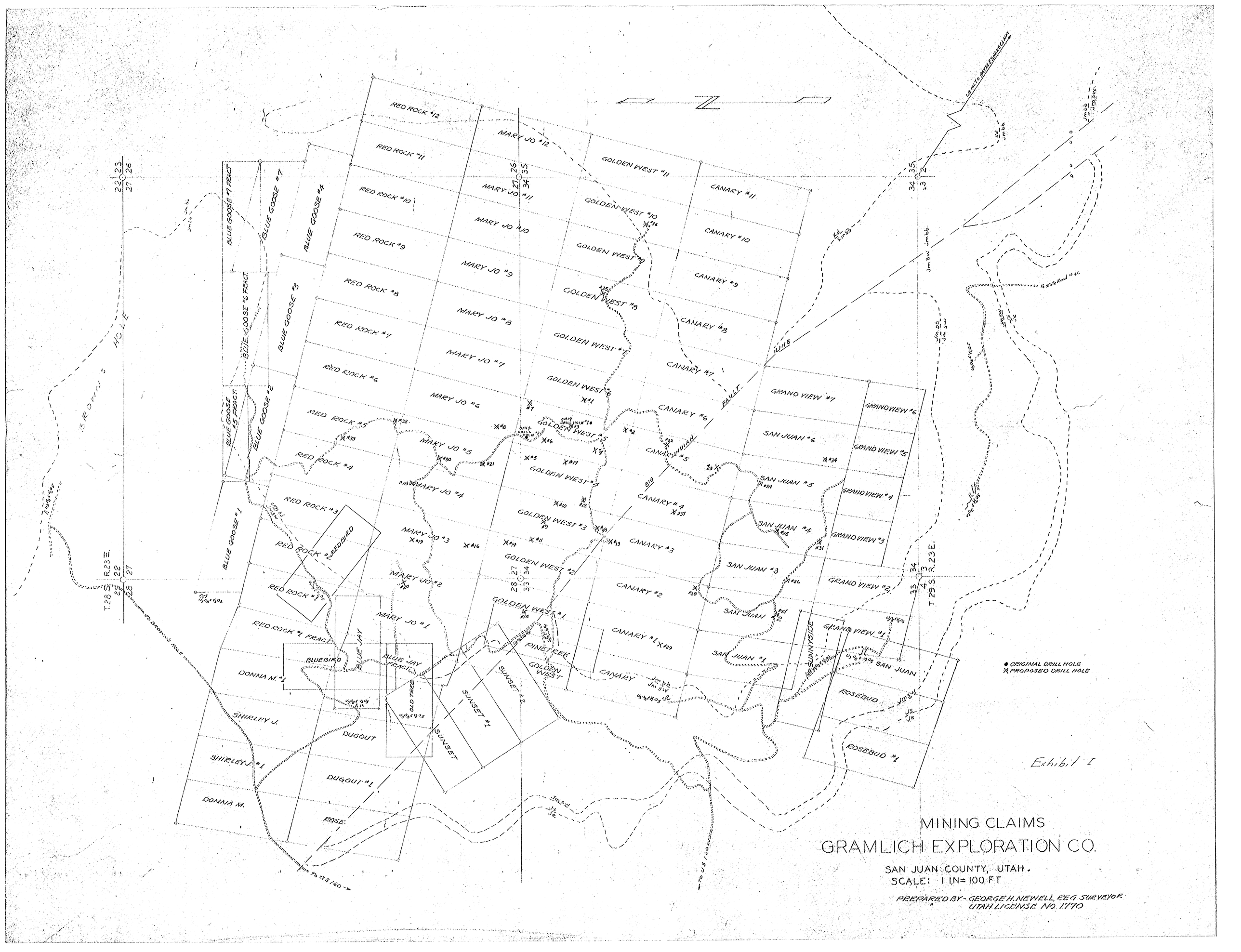
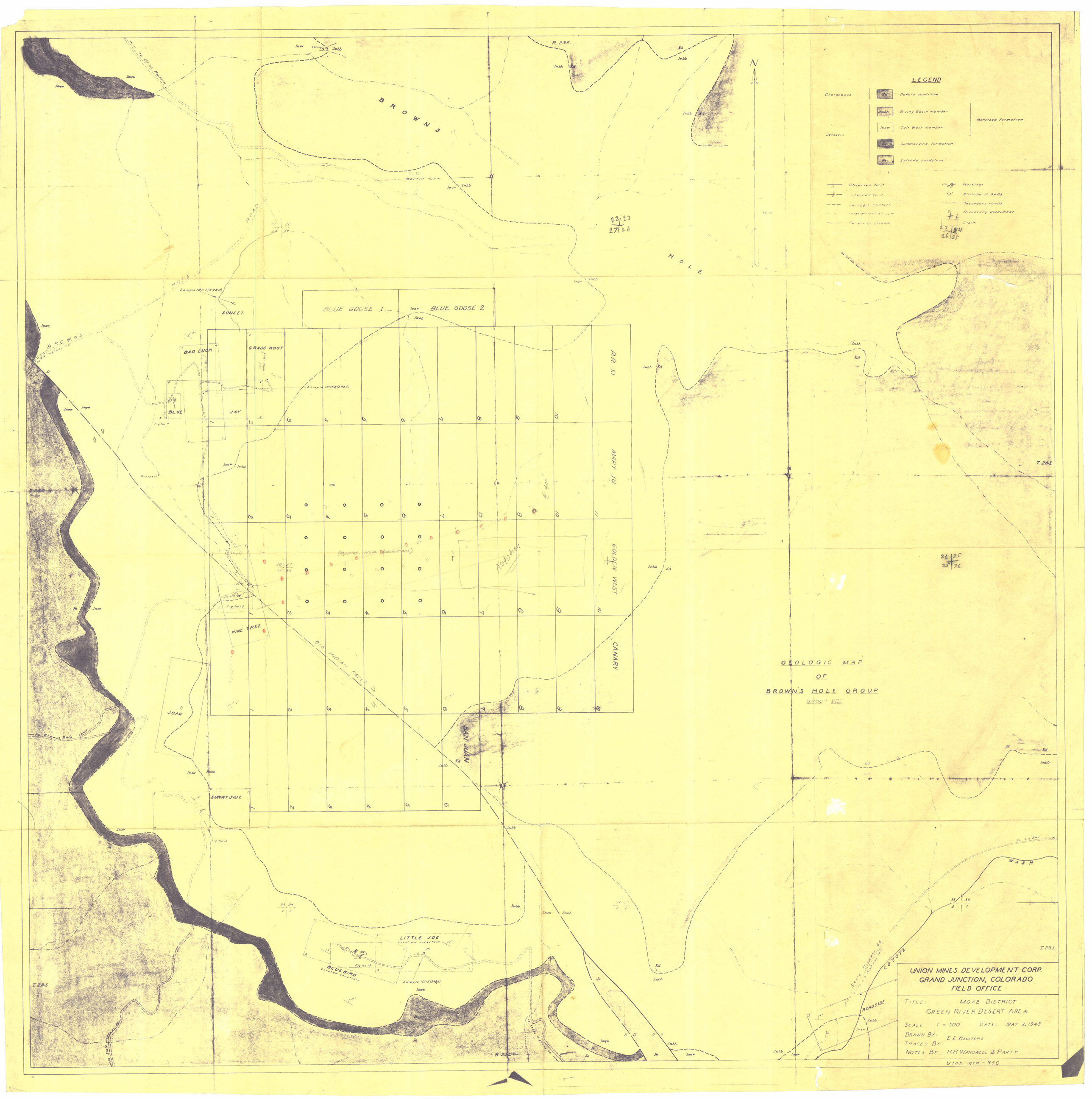
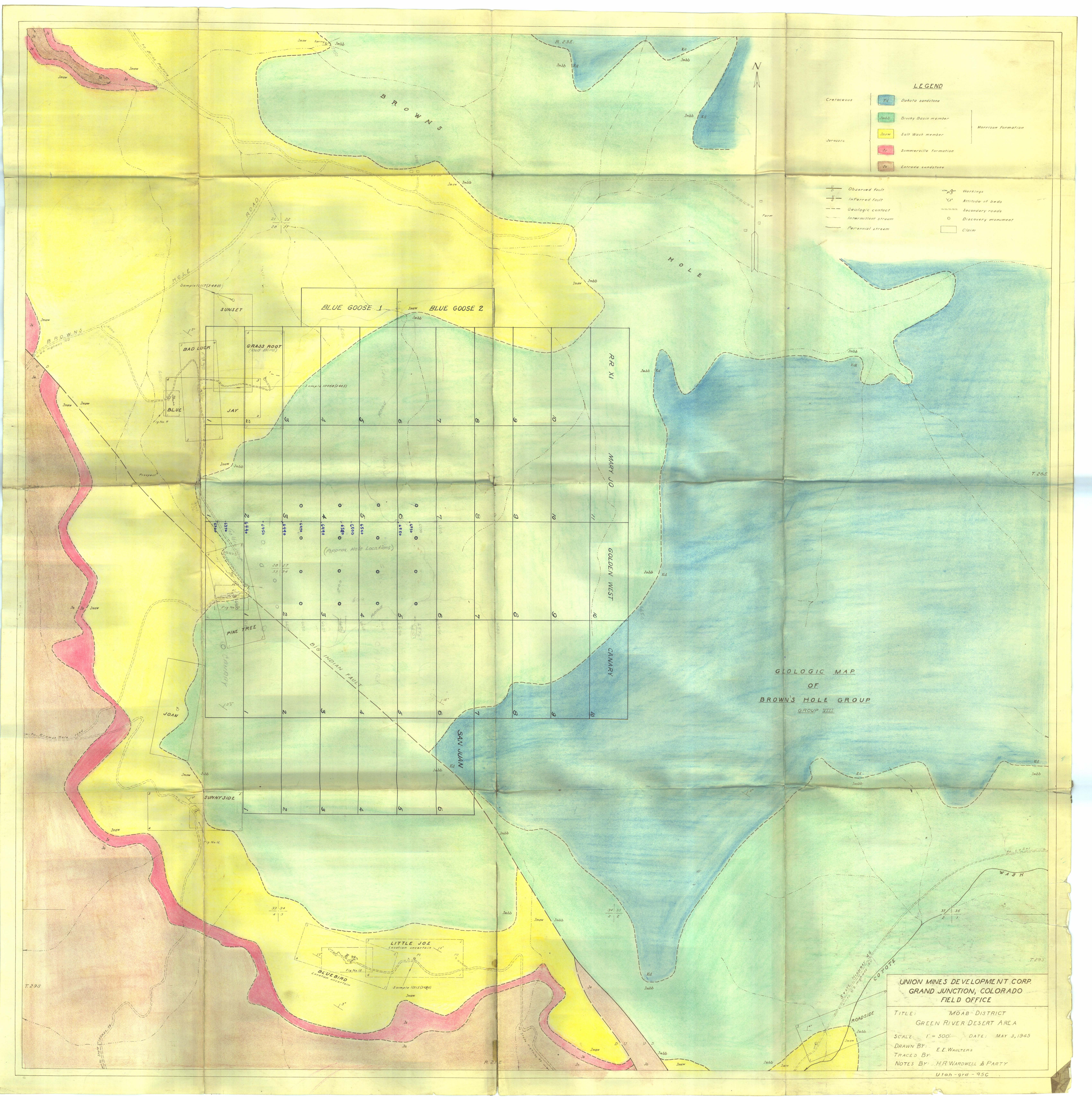


Figure 2. MAP SHOWING HOLES DRILLED IN STAGES 1 AND 2 AND PROPOSED DRILL-HOLE LOCATIONS FOR STAGE 3, BLUE JAY CLAIM, GRAMLICH MINERALS INC. GROUP OF CLAIMS, BROWNS HOLE AREA, SAN JUAN COUNTY, UTAH


RED BIRD CLAIM
RED ROCK NO 1
MARY JO NO 1
RED ROCK NO 2
MARY JO NO 2
BLUE JAY CLAIM
BLUE BIRD
LOWER RIM
TOP RIM
DRILL HOLE DATA
HOLE NO III-7 83.5 - 84.9 MINERALIZED
HOLE NO III-10 192.7-197.0 U_3O_8 & V_2O_5
ADIT
CORE HOLE
PROPOSED DRILL HOLE
Elev. Profile 6000 & 6100
BLUE JAY MINE
SAN JUAN CO. UTAH
SCALE: 1 IN=100 FT.
REVISED 1-3-55 H. NEWELL


N
RED ROCK #12
RED ROCK #11
RED ROCK #10
RED ROCK #9
RED ROCK #8
RED ROCK #7
RED ROCK #6
RED ROCK #5
RED ROCK #4
RED ROCK #3
RED ROCK #2 REDBIRD
RED ROCK #1
RED ROCK #1 FRACT.
MARY JO #12
MARY JO #11
MARY JO #10
MARY JO #9
MARY JO #8
MARY JO #7
MARY JO #6
MARY JO #5
MARY JO #4
MARY JO #3
MARY JO #2
MARY JO #1
GOLDEN WEST #11
GOLDEN WEST #10
GOLDEN WEST #9
GOLDEN WEST #8
GOLDEN WEST #7
GOLDEN WEST #6
GOLDEN WEST #5
GOLDEN WEST #4
GOLDEN WEST #3
GOLDEN WEST #2
GOLDEN WEST #1
CANARY #11
CANARY #10
CANARY #9
CANARY #8
CANARY #7
CANARY #6
CANARY #5
CANARY #4
CANARY #3
CANARY #2
CANARY #1
GRAND VIEW #7
GRAND VIEW #6
GRAND VIEW #5
GRAND VIEW #4
GRAND VIEW #3
GRAND VIEW #2
GRAND VIEW #1
SAN JUAN #6
SAN JUAN #5
SAN JUAN #4
SAN JUAN #3
SAN JUAN #2
SAN JUAN #1
SAN JUAN
ROSEBUD
ROSEBUD #1
BLUE GOOSE #1
BLUE GOOSE #2
BLUE GOOSE #3
BLUE GOOSE #4
BLUE GOOSE #5 FRACT.
BLUE GOOSE #6 FRACT.
BLUE GOOSE #7 FRACT.
BLUEBIRD
BLUE JAY
BLUE JAY FRACT.
OLD TREE
SUNSET
SUNSET #1
SUNSET #2
PINE TREE
GOLDEN WEST
SUNNYSIDE
DONNA M. #1
DONNA M.
SHIRLEY J.
SHIRLEY J. #1
DUGOUT
DUGOUT #1
ROSE
FAULT LINE
BIG INDIAN
BROWN'S HOLE
T 28 S. R. 23 E.
T 29 S. R. 23 E.
TO BROWN'S HOLE
TO U.S. 160
TO STATE ROAD #36
18 MI TO BATTLESHIP CLAIM
● ORIGINAL DRILL HOLE
X PROPOSED DRILL HOLE
Exhibit I
MINING CLAIMS
GRAMLICH EXPLORATION CO.
SAN JUAN COUNTY, UTAH.
SCALE: 1 IN = 100 FT
PREPARED BY - GEORGE H. NEWELL, REG SURVEYOR
UTAH LICENSE NO. 1770


LEGEND
Cretaceous
Dakota sandstone
Jurassic
Morrison formation
Brushy Basin member
Salt Wash member
Summerville formation
Entrada sandstone
Observed fault
Inferred fault
Geologic contact
Intermittent stream
Perennial stream
Workings
Attitude of beds
Secondary roads
Discovery monument
Claim
N
BROWNS HOLE
BLUE GOOSE 1
BLUE GOOSE 2
SUNSET
BAD LUCK
GRASS ROOT
BLUE JAY
RR XI
MAXY JO
GOLDEN WEST
CANARY
PINE TREE
JOAN
SUNNYSIDE
SAN JUAN
BIG INDIAN FAULT
(Approx. Hole locations)
Notation
LITTLE JOE
Location uncertain
BLUEBIRD
Location uncertain
COYOTE WASH
ROADSIDE
R. 23E.
T. 26S.
T. 29S.
GEOLOGIC MAP
OF
BROWNS HOLE GROUP
GROUP VII
UNION MINES DEVELOPMENT CORP.
GRAND JUNCTION, COLORADO
FIELD OFFICE
TITLE: MOAB DISTRICT
GREEN RIVER DESERT AREA
SCALE 1" = 500' DATE: MAY 3, 1945
DRAWN BY: E.E. WAULTERS
TRACED BY:
NOTES BY: H.R. WARDWELL & PARTY
Utah-grd-956


LEGEND
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Js Summerville formation
Je Entrada sandstone
Observed fault
Inferred fault
Geologic contact
Intermittent stream
Perennial stream
Workings
Attitude of beds
Secondary roads
Discovery monument
Claim
N
GEOLOGIC MAP
OF
BROWN'S HOLE GROUP
GROUP VIII
BROWNS HOLE
BLUE GOOSE 1
BLUE GOOSE 2
SUNSET
BAD LUCK
GRASS ROOT
(Red Bird)
BLUE JAY
PINE TREE
JOAN
SUNNYSIDE
SAN JUAN
CANARY
GOLDEN WEST
MARY JO
R.R. XI
BIG INDIAN FAULT
(Approx. Hole Locations)
LITTLE JOE
Location uncertain
BLUEBIRD
Location uncertain
ROADSIDE
COYOTE WASH
R. 23 E.
R. 24 E.
T. 28 S.
T. 29 S.
UNION MINES DEVELOPMENT CORP.
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