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DEFENSE MINERALS ADMINISTRATION
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INT.-DUP. SEC., WASH., D.C. 98868

Docket 700
Surname
F L Knouse
Hedges
Chief
Selfridge
Hoffman

FEB 2 4 1954

Mr. J. W. Randall, President
The Mayflower Company
608 Boston Building
Salt Lake City, Utah

Re: Docket No. DMEA-3069 (Uranium)
Sailor and Little Joe Group of Claims
San Juan County, Utah

Dear Mr. Randall:

Your application for aid for an exploration project and other reports available to us in Washington relating to the above named property have been reviewed.

Projects approved by the Defense Minerals Exploration Administration must, in its judgment, show definite promise of yielding materials of acceptable grade in quantities that will significantly improve the mineral supply position for the National Defense Program.

Careful study of all our information, although noting a small amount of ore on your property, indicates to us that the probability of disclosing minable ore reserves by your proposed program is not sufficiently promising to justify Government participation. We regret to advise you, under the circumstances, that your application for exploration assistance is denied.

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

Sincerely yours,

C. O. Mittendorf

Administrator

FLKnouse/fec
2-19-54
cc to: Docket
Code 700
Adm. Reading File
Operating Comm.
FT. Reg. IV
H. D. Keiser, Rm. 3641 -BM
A. P. Butler, Rm. 3212 - OSA - OS
Mr. Knouse

DENIED

RCH
2-24-54

Docket copy

February 17, 1954

Summary of Proposed Project

Docket No. DMEA-3069
Applicant: The Mayflower Company
J. W. Randall, President
402 Boston Building
Salt Lake City, Utah

Subject: Denial of application

Commodity: Uranium
Location of Property: San Juan County, Utah Region IV

Amount of application: $46,050.00
Date of application: June 8, 1953

Outline of Project: The applicant proposed to explore for uranium on the Sailor and Little Joe group of claims, said claims lying in unsurveyed sections #28 and #29, T. 28 S., R. 19 E., Salt Lake Base and Meridian, San Juan County, Utah.

Field Team Report: November 10, 1953
by Warren I. Finch, Geologist
Geological Survey

Recommendations: The amount and negative results of exploration conducted to date by applicant, the extensive essentially barren outcrop of the ore-bearing bed, and the geologically unfavorable character of the ore-bearing bed make it very unlikely that the applicant's proposed program will result in discovery of ore deposits of size and grade sufficient to be economic and to warrant the estimated expenditure. It is recommended that the application be denied.

Commodity Members Comments:

Bureau of Mines: H. D. Keiser, dated February 9, 1954.

Concurs in recommendations by Field Team that application be denied.

Geological Survey: Arthur P. Butler, Jr., dated February 15, 1954.

Concurs in recommendation of denial made by the Field Team, for the reason that the property is unlikely to contain any ore

deposits larger than 50 tons which would be too small to mine in the remote location of the property

Rare & Misc. Metals Division Engineer: F. L. Knouse

Comments: Denial letter written; concurs with Field Team and Commodity Members.

F. L. Knouse

F. L. Knouse

Copies to:

Docket (original)
Operating Committee
Adm. Reading File
Code 700
Mr. Knouse

STANDARD FORM NO. 64

2/18/54 gla

Office Memorandum • UNITED STATES GOVERNMENT

TO : E. Wm. Ellis, DMEA Member, Uranium Commodity Committee

DATE: February 15, 1954

FEB 18 1954

FROM : Arthur P. Butler, Jr., USGS Member, Uranium Commodity Committee

SUBJECT: Final Field Team Report, DMEA Docket 3069 (Uranium), The Mayflower Company, applicant, Salt Lake City, Utah; Little Joe and Sailor claims, Sec. 28 and 29, (Unsurveyed) T. 28 S., R. 19 E., San Juan County, Utah

The Field Team Report ~~and~~ on the result of the examination of the property identified above has been reviewed.

In addition to examining the claims, the Field Team geologist discussed the application and pertinent geology with the field geologists of the Atomic Energy Commission who have studied the area concerned.

The examining geologist concluded that the chances of the applicant finding minable deposits on the property are small, because the Shinarump conglomerate which is locally uranium-bearing is relatively unfavorable for ore in the area examined, and because the applicant has done considerable exploration on the property without discovering any minable ore bodies. The applicant's exploration has included wagon drilling of the most favorable ground. Because the extensive nature of the exposures on the property do not show any large amounts of material of ore-grade, the examining geologist and the AEC geologists agree that drifting is not warranted and that additional rim stripping is not necessary. It was concluded that the property is unlikely to contain any ore deposits larger than 50 tons which would be too small to mine in the remote location of the property. For the foregoing reasons the Field Team recommended that the application be denied. I concur.

Arthur P. Butler, Jr.

Copies to: E. Wm. Ellis (2)

E. Wm. Ellis, DMEA Member, Uranium Commodity Committee

February 15, 1954

Arthur P. Butler, Jr., USGS Member, Uranium Commodity Committee

Final Field Team Report, DMEA Docket 3069 (Uranium), The Mayflower Company, applicant, Salt Lake City, Utah; Little Joe and Sailor claims, Sec. 28 and 29, (Unsurveyed) T. 28 S., R. 19 E., San Juan County, Utah

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Copies to: E. Wm. Ellis (2)

E. Wm. Ellis, DMEA Member, Uranium Commodity Committee

February 15, 1954

Arthur P. Butler, Jr., USGS Member, Uranium Commodity Committee

Final Field Team Report, DMEA Docket 3069 (Uranium), The Mayflower Company, applicant, Salt Lake City, Utah; Little Joe and Sailor claims, Sec. 28 and 29, (Unsurveyed) T. 28 S., R. 19 E., San Juan County, Utah

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Copies to: E. Wm. Ellis (2)

2/10/54 gla

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

DEPARTMENT OF THE INTERIOR
Minerals Administration
RECEIVED
FEB 9 1954

February 9, 1954

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee, Room 4640

From: H. D. Keiser, Bureau of Mines Member
Uranium Commodity Committee

Subject: Report of Examination, DMEA Docket 3069, Mayflower Company, Sailor and Little Joe group of claims, San Juan County, Utah.

I have reviewed the subject report and discussed it with Joseph O. Hosted, representative of the Atomic Energy Commission.

I concur with the recommendation of the Field Team that the application involved under the subject docket be denied.

The report has been forwarded to the Chief, Minerals Division, Bureau of Mines, in accord with the routing slip attached thereto.

H D Keiser

H. D. Keiser

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF THE SECRETARY
WASHINGTON 25, D. C.

OF THE INTERIOR
Minerals Administration
RECEIVED
FEB 9 1954

February 9, 1954

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee, Room 4640

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Signed

H. D. Keiser

Surname
Docket copy

700

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

F. L. Knouse
Ellis
Unattendorf

FEB - 9 1954

Mr. J. W. Randall, President
The Mayflower Company
402 Boston Building
Salt Lake City, Utah

Re: Docket No. DMEA-3069 (Uranium)
Sailor and Little Joe Group of Claims
San Juan County, Utah

Dear Mr. Randall:

Reference is made to your letter of January 29, 1954, and your earlier letter of November 9, 1953, wherein you inquired about the status of the subject application.

The report of the Field Team is presently being reviewed in this office, and we will advise you our decision at the earliest possible date.

Sincerely yours,

SIGNED

Ernest M. Ellis, Chief
Rare & Misc. Metals Division

FLKnouse/gla
2-8-54
cc to: Adm. Reading File
Docket
Messrs. HDKeiser, Rm. 3641
APButler, Jr., Rm. 3212, GSA
Ellis
Knouse
DMEA Field Team, Region IV (2)

R.C.S.
2-9-54

Surname
Docket copy

700

F. L. Knouse
Ellis

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

TELETYPE

FLKnouse/gla

DMEA - Interior

14X3923.970 Working Fund, DMEA

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FEB - 3 1954

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

REQUEST DECEMBER 21, DMEA-3069, THE MAYFLOWER COMPANY. ADVISE WHEN WE MAY RECEIVE FIELD TEAM REPORT. OPERATOR HAS TWICE REQUESTED APPLICATION STATUS.

C. O. Mittendorf

C. O. MITTENDORF, ADMINISTRATOR

FLKnouse/2/3/54/gla
cc to: Adm. Reading File
Docket
Messrs. HDKeiser, Rm. 3641
APButler, Jr., Rm. 3212, GSA
Ellis
Knouse
Confirmation to Region IV

SENT
FEB 3 1954
Clerical Service Section

R.C.B. 2-3-54

2nd

Copy in

may action -

2/5/54 gla

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

DEPARTMENT OF THE INTERIOR
Minerals Administration
RECEIVED
FEB - 4 1954

224 New Customhouse
Denver 2, Colorado

January 28, 1954.

Memorandum

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

From: Field Team, Region IV

Subject: Report of Examination - DMEA Docket No. 3069 (Uranium), Mayflower Company, Sailor and Little Joe, San Juan County, Utah.

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

The applicant requested exploration assistance in stripping, drifting and wagon drilling which he estimated would cost $46,050.00.

Geologically it is believed that the Shinarump conglomerate is unfavorable for ore in this area and we recommend that the application be denied.

W. H. King
W. H. King

A. H. Koschmann
A. H. Koschmann

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
2-8-54
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.
Denver Federal Center
Denver 2, Colorado

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 4 1954

November 12, 1953

Memorandum

To: DMEA Field Team, Region IV

From: A. H. Koschmann

Subject: DMEA Docket 3[illegible], Mayflower Company, Seller and Little Joe group of claims, San Juan County, Utah

Attached are 11 copies of the geologic report by W. I. Finch, U. S. Geological Survey, covering the subject docket.

It has been recommended that the application for exploration assistance be denied.

E. M. Hardman
for A. H. Koschmann
Supervising Geologist
Colorado-Wyoming

Enclosures (11)

Reviewed by
DMEA OPERATING COMMITTEE
2-8-54
(date)

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

November 10, 1953

MEMORANDUM

To: A. H. Koschmann
DMEA Field Team, Region IV

From: R. P. Fischer
Acting Supervisor, Colorado Plateau District

Subject: DMEA Docket 3069, Mayflower Company, Sailor and Little Joe group of claims, San Juan County, Utah.

Transmitted herewith are eleven copies of a geologic report on the Mayflower Company's Sailor and Little Joe group of claims, San Juan County, Utah. The company applied for assistance to explore for uranium deposits in the Shinarump conglomerate by 3,400 feet of bulldozer stripping, 1,000 feet of underground drifting and 4,800 feet of wagon drilling at an estimated cost of $46,050.

The attached report was prepared by W. I. Finch and is based on a field examination made jointly with W. Young, Bureau of Mines, October 28, 1953. The application was discussed with the Atomic Energy Commission's field geologists who have studied the geology of the area concerned, and they concur in general with the appraisal made by the examing field team.

Finch concludes that the applicant has little chance of discovering minable deposits because (1) geologically the Shinarump conglomerate is relatively unfavorable for ore in the area examined, and (2) the applicant has done considerable exploration in this area without discovering new minable ore bodies. Finch recommends that the application be denied. I concur with his recommendation.

Sincerely yours,

R. P. Fischer

R. P. Fischer
Acting District Supervisor
Colorado Plateau District

Enclosures (11)

Reviewed by
DMEA OPERATING COMMITTEE
2-8-54
(date)

UNITED STATES DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

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

2/23/54

DMEA 3069 (Uranium)

The Mayflower Company, Sailor and Little Joe group of claims
San Juan County, Utah

Geologic report

Warren I. Finch, Geologist
Geological Survey

November 10, 1953

Reviewed by
DMEA OPERATING COMMITTEE
2-8-54
(date)

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ILLUSTRATIONS

Figure 1. Index map of part of the Colorado Plateau showing the approximate location of the Sailor and Little Joe group of claims, San Juan County, Utah 2

2. Map of geology and proposed exploration Sailor group of claims, Mayflower Company, San Juan County, Colorado . . . . . .(in back of report)

TABLE

Table 1. Assays of samples from the Sailor and Little Joe group of claims reported by the applicant and the Atomic Energy Commission 7

DMEA 3069

THE MAYFLOWER COMPANY, SAILOR AND LITTLE JOE GROUP OF CLAIMS, SAN JUAN COUNTY, UTAH

INTRODUCTION AND SUMMARY

The Mayflower Company, 623 Judge Building, Salt Lake City, Utah, has applied (DMEA 3069) to the Defense Minerals Exploration Administration for financial assistance to explore for uranium in the area between the Colorado and Green Rivers, San Juan County, Utah (fig. 1). The company holds an assignment of a lease on the Sailor Nos. 1, 2, and 3 claims and the Little Joe No. 1 claim and option to purchase the Sailor Nos. 4, 5, and 6 claims, all in secs. 28, 29 (unsurveyed), T. 28 S., R. 19 E., Salt Lake base and meridian. These seven unpatented mining claims are a contiguous group on the west side of the Colorado River about 20 miles southwest of Moab, Utah. The property is reached from Moab, Utah, by traveling 12 miles north on U. S. Highway 160, then west and south 18 miles on the Dead Horse Point road to "The Neck", and then down Shaeffer trail, an extremely steep and hazardous road, for 26 miles. The property is about 110 miles from the Monticello mill.

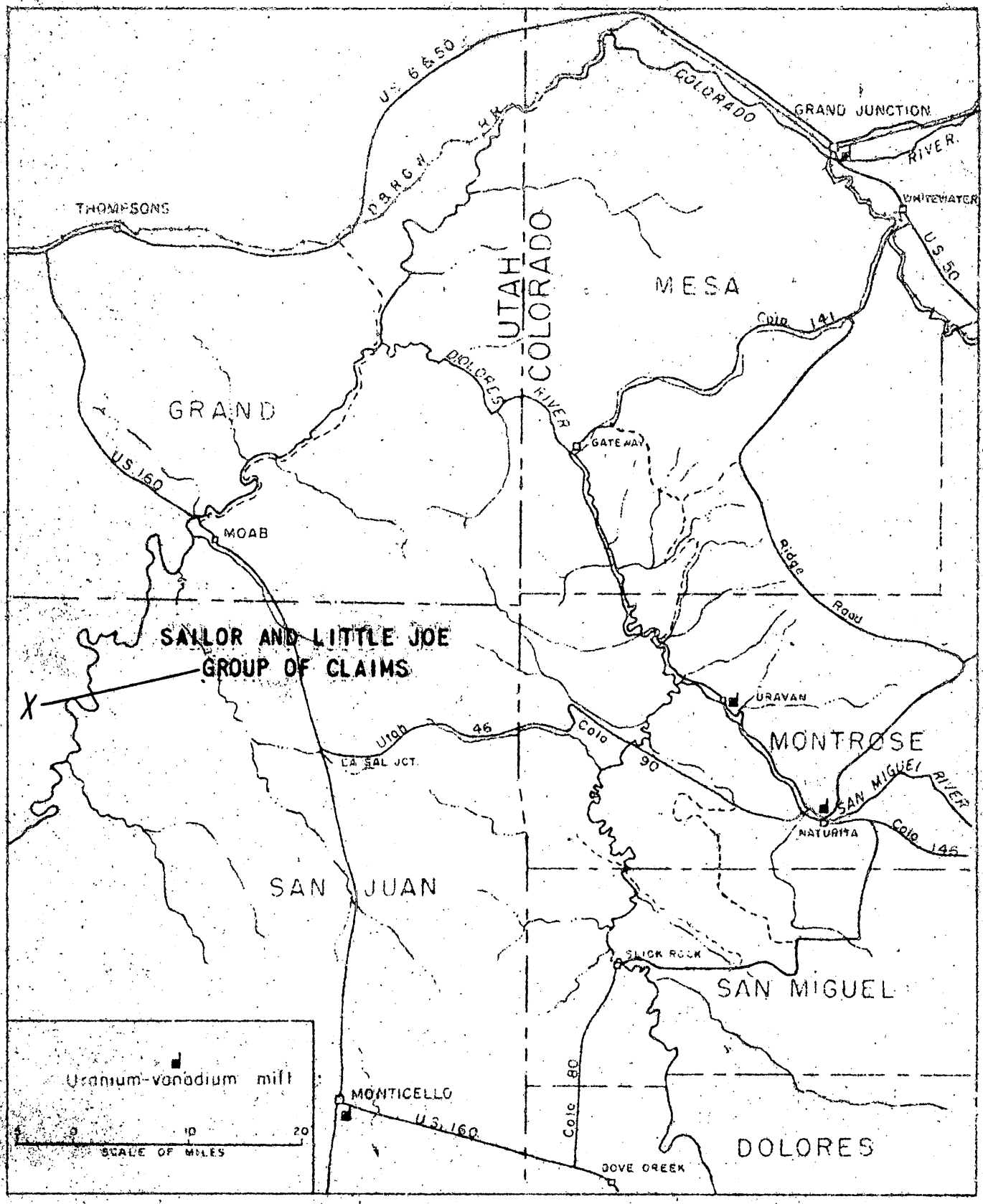

Figure 1. INDEX MAP OF PART OF THE COLORADO PLATEAU SHOWING THE LOCATION OF THE SAILOR AND LITTLE JOE GROUP OF CLAIMS, SAN JUAN COUNTY, UTAH

The ore-bearing zone is in the lower part of the Triassic Shinarump conglomerate which forms a mesa in the claimed area. Considerable rim stripping, drifting, and wagon drilling has been done by the applicant in the proposed area of exploration. Only small pockets of ore-grade material were discovered as the result of this work. The lime content of the ore is much greater than 6 percent, which imposes a penalty on the purchase of the ore, and may be as high as 30 percent.

The applicant proposed about 3,400 feet of rim stripping, 1,300 feet of drifting, and 4,800 feet of wagon drilling (fig. 2). The estimated cost of this work is $46,050, of which the Government participation would be $41,445.

The claims were examined on October 28, 1953, by W. Young, of the U. S. Bureau of Mines, and W. I. Finch, of the U. S. Geological Survey in company with H. Thorne, Foreman of The Mayflower Company. The field examiners are agreed that the amount and negative results of exploration conducted to date by the applicant, the extensive essentially barren outcrop of the ore-bearing bed, and the geologically unfavorable character of the ore-bearing bed makes it very unlikely that the applicant's proposed program will result in the discovery of ore deposits of size and grade sufficient to be economic and to warrant the estimated expenditure. It is recommended, therefore, that the application be denied.

W. Y. Isachsen and R.L. Redmond, geologists for the Atomic Energy Commission and responsible for the Commission's geologic work in this part of the San Juan County area, were consulted on whether they believe the applicant's proposed work is justified. Although they differ with the writer to some extent on the question of whether channels are present in the area examined, they agree that neither the proposed rim stripping nor the drifting is warranted and that the applicant has already wagon-drilled the most favorable ground without discovering any minable ore bodies.

Figure 2 of this report is slightly modified from the base map submitted with the applicant's brochure.

GEOLOGY

The area of the Sailor and Little Joe group of claims is in the deep canyon and plateau country southwest of Moab, Utah. Maximum relief in the area is over 2,000 feet in a distance of four miles. Rocks exposed in the area of the claims consist of sedimentary beds of Triassic age. The rocks in the area examined are essentially flat-lying.

The Moenkopi formation, Shinarump conglomerate, and lower beds of Chinle formation, all of Triassic age, crop out in the claimed area. The Shinarump conglomerate caps a small peninsula-like mesa which juts out from a 1,000 foot cliff formed by higher formations.

The Moenkopi formation consists mainly of red siltstone and fine-grained sandstone. The upper 1 to 3 feet of the Moenkopi is bleached to light-green in color locally near uranium-bearing rock. The upper surface of the Moenkopi is irregular with local scours as much as 6 feet deep. Structural contours on this surface mapped by the Atomic Energy Commission were interpreted as channel scours (fig. 2). However, these relatively shallow channels (not readily observed by eye) do not project to outcrops 500 to 1,000 feet away. Thus, the writer believes that the proposed scours represent irregularities in the Moekopi surface rather than channels.

The Shinarump conglomerate consists mainly of thinly bedded and cross-bedded coarse to conglomeratic sandstone interbedded with mudstone. The rocks are gray, green, and brown in color; are well cemented with lime; and appear to be impermeable. Pebbles consist of chert, quartzite, quartz, limestone, and sandstone. The Shinarump sandstone in this area is dirty compared to the clean Shinarump sandstones which are considered as being favorable for ore deposits. The nearest channels are about 5 miles to the north. Because no definite channels were observed in the area examined, it is believed the Shinarump is relatively unfavorable for ore deposits in this ground. Gypsum, limonite, and carbonaceous material are abundant in the Shinarump beds.

The Shinarump, which averages 35 feet in thickness, grades into the overlying thinly bedded limy fine-grained sandstone and mudstones of the Chinle formation. A maximum thickness of 40 feet of the Chinle is exposed in the area examined.

ORE DEPOSITS

In the general area of the Sailor and Little Joe group of claims, significant uranium deposits are found near the base of Shinarump channels filled with relatively clean conglomeratic sandstone and mudstone. These channels cut into the Moenkopi 10 to 20 feet and can be traced as far as 2,500 feet. Some carbonaceous material is associated with the ore. Pitchblende is the dominant uranium mineral and is associated with copper sulfides and pyrite. These deposits range in size from a few hundred tons to several thousand tons.

Uranium-bearing material in the Sailor and Little Joe group of claims consists mostly of radioactive carbonaceous material near the Shinarump-Moenkopi contact. Yellow uranium minerals were observed in some of the carbonaceous material, but no uranium minerals were found impregnating the surrounding rock. Uranium-bearing material of ore grade consists mostly of carbonaceous seams, fragments of wood, and carbonaceous trash accumulations. The ore seams, or pockets, are small and minable thickness and continuity of ore-grade rock are lacking. Based upon extensive study of uranium deposits elsewhere in the Shinarump conglomerate, it is believed very unlikely that ore deposits greater than 50 tons are present in the Sailor and Little Joe group of claims.

Samples taken by the applicant and the Atomic Energy Commission are shown in table 1. The ore-grade samples range from 0.11 to 0.253 percent U_3O_8. Radiometric analyses of four samples indicate that the uranium is nearly in equilibrium. The lime content of these four samples averages about 30 percent (estimated "high lime" penalties would be $2.20 per ton of ore).

EXPLORATION COMPLETED BY APPLICANT

About 500 feet of rim stripping, 165 feet of drifting, and 148 wagon-drill holes have been completed by the applicant. None of this exploration disclosed ore bodies of minable size. About 15 tons of ore averaging about 0.20 percent U_3O_8 has been mined from two adits, 150 feet and 14 feet long respectively on the Sailor and Little Joe group. This ore is stockpiled at the claim site. Holes were wagon-drilled behind known mineralized outcrops and along one scour interpreted as a channel by the Atomic Energy Commission (fig. 2). Some of the holes were logged by a radiometric unit, and traces of mineralization reported in a few holes. Many of the holes were not logged because the holes closed before the unit was available. Systematic sampling was not done by the applicant

Table 1. Assays of samples from the Sailor and Little Joe group of claims reported by the applicant and the Atomic Energy Commission 1/

Sample No. applicants	Thickness samples	Location and description	Assay in Percent U_3O_8	eU_3O_8	Cu	$CaCO_3$
1	1.0	Cut of tree material Adit No. 1	0.093	-	-	-
2	1.8	Cut on stripped face Little Joe No. 1	0.253	-	-	-
3	2.6	Cut of stripped face Little Joe No. 1	0.046	-	-	-
4	1.8	Cut in Adit No. 2 near bottom of face	0.042	-	-	-
5	1.2	Cut on rim, conglomerate and sandstone, Sailor No. 3	0.087	-	-	-
6	3.0	Cut of conglomerate, sandstone, and clay on rim	0.125	-	-	-
AEC samples						
23914	1.0	East Adit- carbonaceous conglomerate sandstone and mudstones	0.01	0.02	.10	44.9
23915	1.5	Station #36 carbonaceous conglomerate	0.07	0.13	.06	43.7
23916	1.0	West Adit carbonaceous conglomerate	0.11	0.10	.01	29.6
23922	1.0	Drill hole #125, 27-28 foot interval, sample No. 3	0.01	Trace	-	9.6

1/ Approximate location of sample points shown on figure 2.

PROPOSED EXPLORATION

The applicant proposes about 3,400 feet of rim stripping, 1,300 feet of drifting, and 4,800 feet of wagon drilling (fig. 2). Field examination disclosed that only about 800 feet of the proposed rim stripping would be necessary, as the remainder of the rim is sufficiently exposed for prospecting. Because there are no minable ore bodies present in the large amount of outcrop exposures of the ore-bearing unit, additional rim stripping is believed to be unjustified. Most of the ground to be tested by drifting could be explored at 75 percent less cost by wagon drilling, but exploration of this ground is not warranted because of geologically unfavorable sandstone, and because the deposits that might be expected would be small, widely scattered and uneconomic. Wagon drilling has already been done in much of the ground considered most favorable for ore in the area examined. No ore bodies were discovered by this drilling; hence it is believed that no additional wagon drilling as proposed by the applicant is justified.

CONCLUSIONS AND RECOMMENDATIONS

An application has been received for DMEA (uranium) assistance to explore the Sailor and Little Joe group of claims, San Juan County, Utah. These claims belong to the Mayflower Company of Salt Lake City, Utah.

The uranium deposits in the Sailor and Little Joe group are very small and widely scattered in the basal part of the Triassic Shinarump conglomerate.

The uranium-bearing material consists mostly of radioactive carbonaceous material. No distinct Shinarump channels were observed and the ground is considered to be relatively unfavorable geologically for the occurrence of economic ore deposits.

Two adits, 150 feet and 14 feet long, respectively, driven by the applicant in the Sailor and Little Joe group have yielded approximately 15 tons of stockpiled ore estimated to contain 0.20 percent U_3O_8. Of several mineralized samples collected by the applicant and by the Atomic Energy Commission, only three were ore grade on the basis of chemical assays. These three samples contained from 0.11 to 0.253 percent U_3O_8. The lime content of the ore is estimated to be very high, maybe as high as 30 percent, which will impose a penalty (estimated at $2.20 per ton of ore) on the ore shipped to mill.

The applicant has completed 500 feet of rim stripping and 148 wagon-drill holes without finding ore bodies of minable size.

In this application, about 3,400 feet of rim stripping, 1,300 feet of drifting, and 4,800 feet of wagon drilling is proposed. None of this exploration is believed to be realistic or justified because of the following:

1. Deposits of more than 50 tons are not expected in the area examined because the Shinarump is relatively unfavorable geologically for the occurrence of ore.

2. Deposits less than 50 tons would be uneconomic back of the rim, and probably also at the rim because of high transportation costs and penalties imposed on the lime content of the ore.

3. No minable ore bodies have been found by appreciable wagon drilling and rim stripping already done by the applicant, and no economic deposits have been discovered along the large amount of outcrop exposure of the ore-bearing zone. The ore-bearing zone is adequately exposed along 2,600 feet of outcrop included in the 3,400 feet of rim stripping proposed by the applicant.

For these reasons it is believed that Government participation in further exploration of the Sailor and Little Joe group is not justified, and it is recommended that the application be denied.

Mr. C. O. Mittendorf
Feb. 3, 1954
(Unattended service after 4:15)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 4 1954

DN 235 BUREAU MINES 2-3-54 4-06 PM

C O MITTENDORF

REURTT FEBRUARY 2, DMEA-3069, THE MAYFLKXXX MAYFLOWER COMPANY. FIELD TEAM REPORT MALXXX MAILED YOUR OFFICE FEBRUARY 1.

W H KING

Denver, Colo.

FEB 4 8 35 AM '54

BUREAU OF MINES
MAIL ROOM
WASHINGTON D.C.

2/1/54 gla

The Mayflower Company

URANIUM MINES

402 BOSTON BLDG.

SALT LAKE CITY, UTAH

OIL AND GAS LEASES

January 29, 1954

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 1 1954

U. S. Department of the Interior
Defense Minerals Exploration Administration
Washington 25, D. C.

Re: Docket #DMEA-3069 (Uranium)
Sailor & Little Joe Group
of Claims, San Juan County,
Utah.

Attention: Mr. Frank E. Johnson

Gentlemen:

Would you kindly advise us the status of the foregoing matter. We have not heard from your office since our letter to you of November 9, 1953, and we thought perhaps a communication from your office might have been sent but not received.

Very truly yours,

THE MAYFLOWER COMPANY

J. W. Randall

J. W. Randall
President

S

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

DEC 21 1953

Mr. [illegible] King
Executive Officer
DMEA Field Team, Region IV
224 New Customhouse Building
Denver 2, Colorado

Re: Docket No. [illegible]-3069 (Uranium)
The Mayflower Company
Sailor and Little Joe Group of Claims
San Juan County, Utah

Dear Mr. King:

Reference is made to your monthly report for November in which we note that an examination of the subject property was made on October 27, 1953, and the report by Geological Survey was transmitted on November 10, recommending denial. Kindly advise us when we may expect to receive the Field Team report and recommendations.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (JHB)

Concur:

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

T. P. Thayer (JHB)
Member, Geological Survey

FLKnouse/gla/db
12-16-53
cc to: Adm. Reading File
Operating Committee
Docket
Messrs: H.D.Keiser, Rm.3641
A.P.Butler, Jr., Rm. 3212, GSA
Ellis
Knouse

F. L. Knouse
Ellis
Selfridge
Thayer
Hedges

R. C. G.
12-21-53

11/13/53 gla

The Mayflower Company

402 BOSTON BLDG
SALT LAKE CITY, UTAH

URANIUM MINES

OIL AND GAS LEASES

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 12 1953

November 9, 1953

United States Department of the Interior
Defense Minerals Exploration Administration
Washington 25, D. C.

Re: Docket No. DMEA-3069 (Uranium)
Sailor and Little Joe Group of Claims
San Juan County, Utah

Attn: Mr. Frank E. Johnson

Dear Sir:

In connection with the foregoing matter, we inclose herewith, 14 of the revised M.F.-203 Owners Consent to Lien Forms signed by all of the interested parties.

Our foreman, Mr. Hall Thorne, met with representatives of your Regional Office on the claims last week for a field examination.

Thanking you for your cooperation in this matter, we remain,

Yours very truly,

THE MAYFLOWER COMPANY

By J. W. Randall
President
By J. M.

jm

Encl. 14

MF-500

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

REFERENCE SLIP

DATE 11/13/53

REFERRED TO:

1. Code 700
2. Mr. Kugler
3. Docket file
4.

FOR:

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

REMARKS: Pending report from Region IV on field exam.

glo

Check (X) before the items needing attention.

Do you have the docket? yes.

ROBERT E. ADAMS

glo

Initials of sender.

GPO 16—63815-1

Hold until F.T. report arrives.

JMC. 11-13-53

MF-203
(Revised July 1, 1953)

OWNER'S CONSENT TO LIEN

DEPARTMENT OF THE INTERI
Defense Minerals Administrat
RECE
NOV 12 1953

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

Name of Claim	Book Recorded	Page Recorded	Date Recorded
Sailor #4	R-4	37	July 25, 1951
Sailor #5	R-4	38	July 25, 1951
Sailor #6	R-4	38	July 25, 1951

Said claims lying in unsurveyed sections #28 and #29, T. 28 S., R. 19 E., Salt Lake Base and Meridian

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/ THE MAYFLOWER COMPANY, a Utah corporation

hereinafter called the "Operator"; and

WHEREAS, under the provisions of said contract the Government is entitled to a percentage royalty on production (as set forth on the reverse side hereof) 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.

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 20th day of October, 1953.

J C Shake [Seal]
Jack Turner
Agnes C. Turner [Seal]
George R Taylor [Seal]

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 XXXXXXXXXXXXX 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.

RELEVANT CONTRACT PROVISIONS

Repayment by Operator.--a. Certification.--If at any time the Government considers that a discovery or development from which production may be made has resulted from the exploration work, the Government, at any time not later than six months after the Operator has rendered the final report and final account, may so certify in writing to the Operator. Such certification shall describe broadly or indicate the nature of the discovery or development.

b. Percentage royalty.--The Operator, or his successor in interest, shall pay to the Government a royalty on all minerals mined or produced from the land described in Article 2,--(1) regardless of any certification of discovery or development, from the date of the contract until the lapse of the time within which the Government may make such certification of discovery or development, or until the total net amount contributed by the Government, without interest, is fully repaid, whichever occurs first, unless the Government waives its right to a royalty; or (2) if the Government makes a certification of discovery or development, for a period of ten years (or other period fixed by the contract) from the date of the contract, or until the total net amount contributed by the Government, without interest, is fully repaid, whichever occurs first. Said royalty shall be a percentage of the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production, in whatever form disposed of, including ore, concentrates, or metal, as follows:

(a) One and one-half (1½) per cent of any such net amounts not in excess of eight dollars ($8.00) per ton.

(b) One and one-half (1½) per cent of any such net amounts, plus one-half (½) per cent of such net amounts for each additional full fifty cents ($0.50) by which such net amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) per cent of such net amounts.

(For instance: the percentage royalty on a net amount of five dollars ($5.00) per ton, would be one and one-half (1½) per cent; on a net amount of ten dollars ($10.00) per ton, three and one-half (3½) per cent.)

c. Definitions.--As here used, "net smelter returns", "net concentrator returns", and "other net amounts realized from the sale or other disposition", mean gross revenue from sales; or if not sold, the market value of the material after it is mined in the form in which and the place where it is held. In the case of integrated operations in which the material is not disposed of as such, these terms mean what is or would be gross income from mining operations for percentage depletion purposes in income tax determination.

d. Lien for Payment.--To secure the payment of its percentage royalty, the Government shall have and is hereby granted a lien upon the land described in Article 2 and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

e. Notice to Purchasers.--The Operator shall notify any purchaser of the production of the Government's royalty interest, and shall authorize and direct the purchaser to pay the royalty directly to the Government and to furnish the Government with copies of the settlement sheets; but failure or refusal by the purchaser to comply shall not relieve the Operator of liability to pay any royalty falling due.

f. No Obligation to Produce.--This article is not to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any mining or production operations.

MF-203
(Revised July 1, 1953)

OWNER'S CONSENT TO LIEN

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 12 1953

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

Name of Claim	Book Recorded	Page Recorded	Date Recorded
Sailor #4	R-4	37	July 25, 1951
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Sailor #6	R-4	38	July 25, 1951

Said claims lying in unsurveyed sections #28 and #29, T. 28 S., R. 19 E., Salt Lake Base and Meridian

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/ THE MAYFLOWER COMPANY, a Utah corporation

hereinafter called the "Operator"; and

WHEREAS, under the provisions of said contract the Government is entitled to a percentage royalty on production (as set forth on the reverse side hereof) 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.

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 20th day of October, 1953.

J. E. Hughes [Seal]
Jack Turner [Seal]
Agnes E. Turner [Seal]
George R. Taylor [Seal]

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 ~~xxxxxxxxxxxx~~ Oct. 20, 1953 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.

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RELEVANT CONTRACT PROVISIONS

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b. Percentage royalty.--The Operator, or his successor in interest, shall pay to the Government a royalty on all minerals mined or produced from the land described in Article 2,--(1) regardless of any certification of discovery or development, from the date of the contract until the lapse of the time within which the Government may make such certification of discovery or development, or until the total net amount contributed by the Government, without interest, is fully repaid, whichever occurs first, unless the Government waives its right to a royalty; or (2) if the Government makes a certification of discovery or development, for a period of ten years (or other period fixed by the contract) from the date of the contract, or until the total net amount contributed by the Government, without interest, is fully repaid, whichever occurs first. Said royalty shall be a percentage of the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production, in whatever form disposed of, including ore, concentrates, or metal, as follows:

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(b) One and one-half ($1\frac{1}{2}$) per cent of any such net amounts, plus one-half ($\frac{1}{2}$) per cent of such net amounts for each additional full fifty cents ($0.50) by which such net amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) per cent of such net amounts.

(For instance: the percentage royalty on a net amount of five dollars ($5.00) per ton, would be one and one-half ($1\frac{1}{2}$) per cent; on a net amount of ten dollars ($10.00) per ton, three and one-half ($3\frac{1}{2}$) per cent.)

c. Definitions.--As here used, "net smelter returns", "net concentrator returns", and "other net amounts realized from the sale or other disposition", mean gross revenue from sales; or if not sold, the market value of the material after it is mined in the form in which and the place where it is held. In the case of integrated operations in which the material is not disposed of as such, these terms mean what is or would be gross income from mining operations for percentage depletion purposes in income tax determination.

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MF-203
(Revised July 1, 1953)

DEPARTMENT OF THE INTERIOR
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4. Changes and added provisions

Dated this 20th day of October, 1953.

J. S. Hale [Seal]
Jack Turner [Seal]
Agnes E. Turner [Seal]
George R. Taylor [Seal]

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 Oct. 20, 1953 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.

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DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 12 1953

MF-203
(Revised July 1, 1953)

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 Utah, County of San Juan, described as follows:1/

Name of Claim	Book Recorded	Page Recorded	Date Recorded
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Sailor #5	R-4	30	July 25, 1951
Sailor #6	R-4	31	July 25, 1951

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2/ Jack Turner & Associates, a Utah corporation

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Dated this 20th day of October, 1953.

Jack Turner [Seal]
Agnes E. Turner [Seal]
George R Taylor [Seal]

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MF-203
(Revised July 1, 1953)

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OWNER'S CONSENT TO LIEN

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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.

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 20th day of October, 1953.

J. E. Shale [Seal]
Jack Turner [Seal]
Agnes E. Turner [Seal]
Dwight K. Taylor [Seal]

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 ~~XXXXXXXXXXXX~~ 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.

RELEVANT CONTRACT PROVISIONS

Repayment by Operator.--a. Certification.--If at any time the Government considers that a discovery or development from which production may be made has resulted from the exploration work, the Government, at any time not later than six months after the Operator has rendered the final report and final account, may so certify in writing to the Operator. Such certification shall describe broadly or indicate the nature of the discovery or development.

b. Percentage royalty.--The Operator, or his successor in interest, shall pay to the Government a royalty on all minerals mined or produced from the land described in Article 2,--(1) regardless of any certification of discovery or development, from the date of the contract until the lapse of the time within which the Government may make such certification of discovery or development, or until the total net amount contributed by the Government, without interest, is fully repaid, whichever occurs first, unless the Government waives its right to a royalty; or (2) if the Government makes a certification of discovery or development, for a period of ten years (or other period fixed by the contract) from the date of the contract, or until the total net amount contributed by the Government, without interest, is fully repaid, whichever occurs first. Said royalty shall be a percentage of the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production, in whatever form disposed of, including ore, concentrates, or metal, as follows:

(a) One and one-half ($1\frac{1}{2}$) per cent of any such net amounts not in excess of eight dollars ($8.00) per ton.

(b) One and one-half ($1\frac{1}{2}$) per cent of any such net amounts, plus one-half ($\frac{1}{2}$) per cent of such net amounts for each additional full fifty cents ($0.50) by which such net amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) per cent of such net amounts.

(For instance: the percentage royalty on a net amount of five dollars ($5.00) per ton, would be one and one-half ($1\frac{1}{2}$) per cent; on a net amount of ten dollars ($10.00) per ton, three and one-half ($3\frac{1}{2}$) per cent.)

c. Definitions.--As here used, "net smelter returns", "net concentrator returns", and "other net amounts realized from the sale or other disposition", mean gross revenue from sales; or if not sold, the market value of the material after it is mined in the form in which and the place where it is held. In the case of integrated operations in which the material is not disposed of as such, these terms mean what is or would be gross income from mining operations for percentage depletion purposes in income tax determination.

d. Lien for Payment.--To secure the payment of its percentage royalty, the Government shall have and is hereby granted a lien upon the land described in Article 2 and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

e. Notice to Purchasers.--The Operator shall notify any purchaser of the production of the Government's royalty interest, and shall authorize and direct the purchaser to pay the royalty directly to the Government and to furnish the Government with copies of the settlement sheets; but failure or refusal by the purchaser to comply shall not relieve the Operator of liability to pay any royalty falling due.

f. No Obligation to Produce.--This article is not to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any mining or production operations.

MF-203
(Revised July 1, 1953)

Department of the Interior
Defense Minerals Administration
RECEIVED
NOV 12 1953

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 UTAH, County of SAN JUAN, described as follows:1/

Name of Claim	Book Recorded	Page Recorded	Date Recorded
Sailor #4	R-4	37	July 25, 1951
Sailor #5	R-4	38	July 25, 1951
Sailor #6	R-4	38	July 25, 1951

Said claims lying in unsurveyed sections #28 and #29, T. 28 S., R. 19 E., Salt Lake Base and Meridian

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/ THE MAYFLOWER COMPANY, a Utah corporation

hereinafter called the "Operator"; and

WHEREAS, under the provisions of said contract the Government is entitled to a percentage royalty on production (as set forth on the reverse side hereof) 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.

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 20th day of October, 1953.

J E Shale [Seal]
Jack Turner [Seal]
Agnes E Turner [Seal]
George T Taylor [Seal]

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f. No Obligation to Produce.--This article is not to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any mining or production operations.

MF-203
(Revised July 1, 1953)

OWNER'S CONSENT TO LIEN

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Sailor #6	R-4	38	July 25, 1951

Said claims lying in unsurveyed sections #28 and #29, T. 28 S., R. 19 E., Salt Lake Base and Meridian

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/ THE MAXIMUM COMPANY, a Utah corporation

hereinafter called the "Operator"; and

WHEREAS, under the provisions of said contract the Government is entitled to a percentage royalty on production (as set forth on the reverse side hereof) 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.

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 20th day of October, 1953.

J. E. Shank [Seal]
Jack Turner [Seal]
Agnes E. Turner [Seal]
George R. Taylor [Seal]

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f. No Obligation to Produce.--This article is not to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any mining or production operations.

MF-203
(Revised July 1, 1953)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 12 1953

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 UTAH, County of San Juan, described as follows:1/

Name of Claim	Book Recorded	Page Recorded	Date Recorded
Little Joe #1	R-4	36	July 25, 1951
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Sailor #3	R-4	37	July 25, 1951

Said claims lying in unsurveyed sections #28 and #29, T. 28 S., R. 19 E., Salt Lake Base and Meridian

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/ THE MAYFLOWER COMPANY, a Utah corporation

hereinafter called the "Operator"; and

WHEREAS, under the provisions of said contract the Government is entitled to a percentage royalty on production (as set forth on the reverse side hereof) and to other rights and equities which do or may conflict with or be adverse to the rights of the undersigned:

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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 20th day of October, 1953.

J E Shale [Seal]
Jack Tarnower [Seal]
Georgeet Taylor [Seal]
Laurence Meyliccio [Seal]

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 ~~XXXXXXXXXXXX~~ Oct. 20, 1953, 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.

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MF-203
(Revised July 1, 1953)

OWNER'S CONSENT TO LIEN

DEPARTMENT OF THE INTERIOR
Bureau of Mines
Minerals Administration
RECEIVED
NOV 12 1953

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4. Changes and added provisions

Dated this 20th day of October, 1953.

J. E. Shafer [Seal]
Jack Fowler [Seal]
Lewis P. Taylor [Seal]
Lawrence Mayhew [Seal]

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MF-203
(Revised July 1, 1953)

DEPARTMENT OF THE INTERIOR
Bureau of Mines Administration
RECEIVED
NOV 1 3 1953

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 UTAH, County of San Juan, described as follows:1/

Name of Claim	Book Recorded	Page Recorded	Date Recorded
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Sailor #3	R-4	37	July 25, 1951

Said claims lying in unsurveyed sections #28 and #29, T. 28S., R. 19 E., Salt Lake Base Meridian

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/ THE MAYFLOWER COMPANY, A Utah Corporation

hereinafter called the "Operator"; and

WHEREAS, under the provisions of said contract the Government is entitled to a percentage royalty on production (as set forth on the reverse side hereof) 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.

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4. Changes and added provisions

Dated this 20th day of October, 1953.

J. Joshale [Seal]
Jack Farmer [Seal]
Hedrick Taylor [Seal]
Lawrence Mighemin [Seal]

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(For instance: the percentage royalty on a net amount of five dollars ($5.00) per ton, would be one and one-half (1½) per cent; on a net amount of ten dollars ($10.00) per ton, three and one-half (3½) per cent.)

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Department of the Interior
Bureau of Mines Administration
RECEIVED
Nov 12 1953

MF-203
(Revised July 1, 1953)

OWNER'S CONSENT TO LIEN

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Said claims lying in unsurveyed sections [illegible] and [illegible], S. 20 S., R. 19 E., Salt Lake Base and Meridian

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

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hereinafter called the "Operator"; and

WHEREAS, under the provisions of said contract the Government is entitled to a percentage royalty on production (as set forth on the reverse side hereof) and to other rights and equities which do or may conflict with or be adverse to the rights of the undersigned:

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4. Changes and added provisions_____

Dated this 20th day of October, 1953.

J E Shale [Seal]
G Jack Forsner [Seal]
George R Taylor [Seal]
Lawrence Migliaccio [Seal]

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MF-203
(Revised July 1, 1953)

OWNER'S CONSENT TO LIEN

DEPARTMENT OF THE INTERIOR
Land Management Administration
RECEIVED
NOV 12 1953

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Dated this 20th day of October, 1953.

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Geddes R. Taylor [Seal]
Laurence Mighinci [Seal]

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Jack Sprunger [Seal]

Gladys R. Taylor [Seal]

Lawrence N. Lightner [Seal]

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10/13/53 gla

The Mayflower Company

402 BOSTON BLDG.

SALT LAKE CITY, UTAH

URANIUM MINES

OIL AND GAS LEASES

October 7, 1953

United States Department of the Interior
Defense Minerals Exploration Administration
Washington 25, D. C.

Re: Docket No. DMEA-3069 (Uranium)
Sailor and Little Joe Group of Claims
San Juan County, Utah

Attn. Mr. Frank E. Johnson

Dear Sir:

This will acknowledge receipt of your letter, dated October 1, 1953, and enclosures.

We will endeavor to get the new revised "Owner's Consent to Lien" forms executed and returned to your office as quickly as possible. Several of the interested parties live outside the State of Utah, and in view of this, it may take us a little time to secure all the necessary signatures. However, we will expedite the matter as quickly as possible.

Yours very truly

THE MAYFLOWER COMPANY

By J. W. Randall
President
By J M.

jm

FILE COPY
SURNAME:

Murphy
Ellis
Selfridge

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

OCT - 1 1953

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

Re: Docket No. DMEA-3069 (Uranium)
Mayflower Company
Sailor and Little Joe Group of Claims
San Juan County, Utah

Dear Mr. King:

The captioned application is referred to your office for a field examination of the proposed project and recommendation based thereon.

Copies of memoranda from Mr. H. D. Keiser, dated June 15, and Mr. Arthur P. Butler, Jr., dated June 16, 1953, outlining questions to be covered in the report of the examining engineers, are enclosed.

If your office recommends either the proposed program as submitted by the Applicant, or an alternate one approved by the Applicant, please furnish us with the required detailed information to draft a contract.

We note in your memorandum dated June 5, 1953, transmitting this application to Washington, that one copy of the application was retained by your office.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (J.H.B.)

Enclosures

APPROVED:

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

A. R. Kinkel, Jr.
Member, Geological Survey (J.H.B.)

FMMurphy/db
9-28-53
cc to: Adm. Reading File
Operating Committee
Docket
Messrs: H.D.Keiser, Rm. 3641
A.P.Butler, Jr., Rm. 3212, GSA
Ellis
Murphy

R.C.S.
10-1-53

FILE COPY
SURNAME:

Murphy
Ellis
Bridges
Lethridge

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

OCT - 1 1953

Mr. J. C. Randall, President
The Mayflower Company
623 Judge Building
Salt Lake City, Utah

Re: Docket No. DMA-3069 (Uranium)
Sailor and Little Joe Group of Claims
San Juan County, Utah

Dear Mr. Randall:

We acknowledge receipt of your letter dated September 23, 1953, with the attached copies of Owner's Consent to Lien forms and the original and three copies of an assignment from Great Basin Oil and Leasing Company to the Mayflower Company of all the claims involved in your application.

This Agency now requires that the "Owner's Consent to Lien" shall be submitted on the new MP-203 forms (Revised July 1, 1953). We are enclosing 14 of these forms, which should be filled out and returned to this office. We trust this will not cause you any great inconvenience.

Your application has been referred for a field examination to the Executive Officer of Region IV at the following address:

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

The Regional Office will contact you at the earliest opportunity in regard to your project.

Sincerely yours,

Frank E. Johnson
Acting Administrator

Enclosures 14

Wooldridge, D. Lathem, Rm. 3681
A. P. Butler, Jr., Rm. 3212, GSA
Ellis
Murphy
DMA Field Team, Region IV (2)

FMMurphy/db
9-29-53
cc to: Adm. Reading File
Docket

R.C.G.
10-1-53

9/25/53 gla

The Mayflower Company

402 BOSTON BLDG.

SALT LAKE CITY, UTAH

SEP 24 1953

URANIUM MINES

OIL AND GAS LEASES

September 23rd, 1953

United States Department of the Interior
Defense Minerals Exploration Administration
Washington 25, D.C.

Re: Docket No. DMEA-3069 (Uranium)
Sailor and Little Joe Group of Claims
San Juan County, Utah

Attn: Mr. Ernest Wm. Ellis, Chief
Rare and Misc. Metals Division

Dear Mr. Ellis:

You will find herewith the following enclosures pertaining to the foregoing matter:

a. An original and three copies of an Assignment from Great Basin Oil and Leasing Company to Mayflower Company of all claims involved, together with the consent of the owners for exploration and mining.

b. Seven signed copies of Owner's Consent To Lien forms involving the Little Joe No.1, Sailor No.1, Sailor No.2 and Sailor No.3 claims.

c. Seven signed copies of Owner's Consent To Lien forms involving Sailor No.4, Sailor No.5, and Sailor No.6 claims.

We trust this data is sufficient to permit you to process our application, and I wish to express the appreciation and gratitude of the Company for your helpful cooperation.

Very truly yours,

MAYFLOWER COMPANY

By J. W. Randall
President mws

mws
encl.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
SEP 24 1953

A S S I G N M E N T

THIS ASSIGNMENT made and entered into this 20 day of July, 1953, by and between the GREAT BASIN OIL & LEASING COMPANY, a Utah corporation, Assignor, and THE MAYFLOWER COMPANY, a Utah corporation, Assignee,

W I T N E S S E T H :

WHEREAS, the parties hereto are the joint owners of a Lease and Agreement dated December 16th, 1952, between Jack Turner of Moab, Utah and George R. Taylor, of Twin Falls, Idaho, Lessors, and Lawrence Migliaccio of Price, Utah, Lessee, covering four (4) unpatented mining claims located in San Juan County, Utah, namely Little Joe No.1, Sailor No. 1, Sailor No. 2 and Sailor No. 3, and

WHEREAS, the parties hereto are the joint owners of an Option Agreement dated March 17th, 1953, between Jack Turner of Moab, Utah and I.E. Shale of San Mateo, California, covering seventeen (17) unpatented mining claims located in San Juan County, Utah, three (3) of which claims are described as Sailor No. 4, Sailor No. 5 and Sailor No. 6, and

WHEREAS, the Assignee has heretofore filed an Application For Aid In An Exploration Project Pursuant to D.M.E.A. Order 1 Under The Defense Production Act of 1950 As Amended with the United States Department of Interior, Defense Minerals Exploration Administration,

NOW THEREFORE, in consideration of the sum of Ten ($10.00) Dollars and other good and valuable consideration, receipt whereof is hereby acknowledged, Assignor hereby sells, assigns, transfers and conveys unto Assignee, its successors and assigns, all of its right, title and interest in and to said Lease and Agreement dated December 16th, 1952 and said Option Agreement dated March 17th, 1953, and the mining claims therein described. It is further understood and agreed that Assignor shall share equally with Assignee in all benefits and values that may inure to Assignee in said Lease and Agreement and said Option Agreement, not withstanding this Assignment except, however, that the rights of the United States of America shall prevail over and be prior and superior to any rights of Assignee in said Lease and Option Agreements.

IN WITNESS WHEREOF the parties hereto have caused the foregoing Assignment to be executed by its duly authorized officers the day and year first above written.

GREAT BASIN OIL & LEASING COMPANY
A Corporation

By Nathan Bowman
President

ATTEST:

Samuel Bernstein
Secretary

ASSIGNOR

THE MAYFLOWER COMPANY
A Corporation

By J. R. Blackman
President

ATTEST:

M. R. Richards
Secretary

ASSIGNEE

We, the undersigned, hereby consent to the foregoing Assignment by GREAT BASIN OIL & LEASING COMPANY, a corporation, to THE MAYFLOWER COMPANY, a corporation, and we hereby give our consent and authorization to THE MAYFLOWER COMPANY to mine and explore the mining claims herein above described, particularly with respect to the terms of the Application of said company to the Defense Minerals Exploration Administration.

Dated this 20 day of July, 1953.

Jack Turner

Jack Turner

George R. Taylor

George R. Taylor

Lawrence Migliaccio

Lawrence Migliaccio

Agnes E. Turner

Agnes E. Turner

I.E. Shale

I.E. Shale

A S S I G N M E N T

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WHEREAS, the parties hereto are the joint owners of an Option Agreement dated March 17th, 1953, between Jack Turner of Moab, Utah and I.S. Shale of San Mateo, California, covering seventeen (17) unpatented mining claims located in San Juan County, Utah, three (3) of which claims are described as Sailor No. 4, Sailor No. 5 and Sailor No. 6, and

WHEREAS, the Assignee has heretofore filed an Application For Aid In An Exploration Project Pursuant to D.M.E.A. Order 1 Under The Defense Production Act of 1950 As Amended with the United States Department of Interior, Defense Minerals Exploration Administration,

NOW THEREFORE, in consideration of the sum of Ten ($10.00) Dollars and other good and valuable consideration, receipt whereof is hereby acknowledged, Assignor hereby sells, assigns, transfers and conveys unto Assignee, its successors and assigns, all of its right, title and interest in and to said Lease and Agreement dated December 16th, 1952 and said Option Agreement dated March 17th, 1953, and the mining claims therein described. It is further understood and agreed that Assignor shall share equally with Assignee in all benefits and values that may inure to Assignee in said Lease and Agreement and said Option Agreement, not withstanding this Assignment except, however, that the rights of the United States of America shall prevail over and be prior and superior to any rights of Assignee in said Lease and Option Agreements.

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GREAT BASIN OIL & LEASING COMPANY
A Corporation

(SEAL)

By Nathan Hausman (s)
President

ATTEST:

Samuel Bernstein (s)
Secretary

A S S I G N O R

THE MAYFLOWER COMPANY
A Corporation

(SEAL)

By J.R. Fluhman (s)
President

ATTEST:

M.R. Richards (s)
Secretary

A S S I G N E E

We, the undersigned, hereby consent to the foregoing Assignment by GREAT BASIN OIL & LEASING COMPANY, a corporation, to THE MAYFLOWER COMPANY, a corporation, and we hereby give our consent and authorization to THE MAYFLOWER COMPANY to mine and explore the mining claims herein above described, particularly with respect to the terms of the Application of said company to the Defense Minerals Exploration Administration.

Dated this 20th day of July, 1953.

JACK TURNER (S)
Jack Turner

GEORGE R. TAYLOR (S)
George R. Taylor

LAWRENCE MIGLIACCIO (s)
Lawrence Migliaccio

AGNES E. TURNER
Agnes E. Turner

I.E. SHALE
I.E. Shale

A S S I G N M E N T

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W I T N E S S E T H :

WHEREAS, the parties hereto are the joint owners of a Lease and Agreement dated December 16th, 1952, between Jack Turner of Moab, Utah and George R. Taylor, of Twin Falls, Idaho, Lessors, and Lawrence Migliaccio of Price, Utah, Lessee, covering four (4) unpatented mining claims located in San Juan County, Utah, namely Little Joe No.1, Sailor No. 1, Sailor No. 2 and Sailor No. 3, and

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WHEREAS, the Assignee has heretofore filed an Application For Aid In An Exploration Project Pursuant to D.M.E.A. Order 1 Under The Defense Production Act of 1950 As Amended with the United States Department of Interior, Defense Minerals Exploration Administration,

NOW THEREFORE, in consideration of the sum of Ten ($10.00) Dollars and other good and valuable consideration, receipt whereof is hereby acknowledged, Assignor hereby sells, assigns, transfers and conveys unto Assignee, its successors and assigns, all of its right, title and interest in and to said Lease and Agreement dated December 16th, 1952 and said Option Agreement dated March 17th, 1953, and the mining claims therein described. It is further understood and agreed that Assignor shall share equally with Assignee in all benefits and values that may inure to Assignee in said Lease and Agreement and said Option Agreement, not withstanding this Assignment except, however, that the rights of the United States of America shall prevail over and be prior and superior to any rights of Assignee in said Lease and Option Agreements.

IN WITNESS WHEREOF the parties hereto have caused the foregoing Assignment to be executed by its duly authorized officers the day and year first above written.

GREAT BASIN OIL & LEASING COMPANY
A Corporation

(SEAL)

By Nathan Hausman (s)
President

ATTEST:

Samuel Bernstein (s)
Secretary

A S S I G N O R

THE MAYFLOWER COMPANY
A Corporation

(SEAL)

By J.R. Fluhman (s)
President

ATTEST:

M.R. Richards (s)
Secretary

A S S I G N E E

We, the undersigned, hereby consent to the foregoing Assignment by GREAT BASIN OIL & LEASING COMPANY, a corporation, to THE MAYFLOWER COMPANY, a corporation, and we hereby give our consent and authorization to THE MAYFLOWER COMPANY to mine and explore the mining claims herein above described, particularly with respect to the terms of the Application of said company to the Defense Minerals Exploration Administration.

Dated this 20th day of July, 1953.

JACK TURNER (S)

Jack Turner

GEORGE R. TAYLOR (S)

George R. Taylor

LAWRENCE MIGLIACCIO (s)

Lawrence Migliaccio

AGNES E. TURNER

Agnes E. Turner

I.E. SHALE

I.E. Shale

A S S I G N M E N T

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W I T N E S S E T H :

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WHEREAS, the Assignee has heretofore filed an Application For Aid In An Exploration Project Pursuant to D.M.E.A. Order 1 Under The Defense Production Act of 1950 As Amended with the United States Department of Interior, Defense Minerals Exploration Administration,

NOW THEREFORE, in consideration of the sum of Ten ($10.00) Dollars and other good and valuable consideration, receipt whereof is hereby acknowledged, Assignor hereby sells, assigns, transfers and conveys unto Assignee, its successors and assigns, all of its right, title and interest in and to said Lease and Agreement dated December 16th, 1952 and said Option Agreement dated March 17th, 1953, and the mining claims therein described. It is further understood and agreed that Assignor shall share equally with Assignee in all benefits and values that may inure to Assignee in said Lease and Agreement and said Option Agreement, not withstanding this Assignment except, however, that the rights of the United States of America shall prevail over and be prior and superior to any rights of Assignee in said Lease and Option Agreements.

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GREAT BASIN OIL & LEASING COMPANY
A Corporation

(SEAL)

By Nathan Hausman (s)
President

ATTEST:

Samuel Bernstein (s)
Secretary

A S S I G N O R

THE MAYFLOWER COMPANY
A Corporation

(SEAL)

By J.R. Fluhman (s)
President

ATTEST:

M.R. Richards (s)
Secretary

A S S I G N E E

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Dated this 20th day of July, 1953.

JACK TURNER (S)

Jack Turner

GEORGE R. TAYLOR (S)

George R. Taylor

LAWRENCE MIGLIACCIO (s)

Lawrence Migliaccio

AGNES E. TURNER

Agnes E. Turner

I.E. SHALE

I.E. Shale

MF-203

OWNER'S CONSENT TO LIEN

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
SEP 1 1953

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

Name of Claim	Book Recorded	Page Recorded	Date Recorded
Little Joe #1	R-4	36	July 25, 1951
Sailor #1	R-4	36	July 25, 1951
Sailor #2	R-4	37	July 25, 1951
Sailor #3	R-4	37	July 25, 1951

Said claims lying in unsurveyed sections #28 and #29, T. 28 S., R. 19 E., Salt Lake Base and Meridian

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/ THE MAYFLOWER COMPANY, a corporation

hereinafter called the "Operator"; and

WHEREAS, under certain provisions of said contract which are set forth on the reverse side hereof, the Government is entitled to a percentage royalty on production and to certain other rights and equities which do or may conflict with or be adverse to the interest of the undersigned in said property;

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 which does not increase the maximum amount of the Government's claim here stated or alter the provisions for repayment, there is hereby granted to the Government a lien upon the land herein described and upon any production of minerals therefrom, until the royalty claim is fully paid in the amount of the Government's contribution, not in excess of 4/$ 46,050.00, or ten years have elapsed from the date of the contract.

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.

Dated this 19 day of September, 1953.

J E Shales [Seal]

Jack Turner [Seal]

George R. Taylor [Seal]

Lawrence Meyrowitz [Seal]

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.

4/ Insert the maximum amount of the Government's contribution.

RELEVANT CONTRACT PROVISIONS

Repayment by Operator. (a) If, at any time, the Government considers that a discovery or a development from which production may be made has resulted from the exploration work, the Government, at any time not later than six months after the Operator has rendered the required final report and final account, may so certify in writing to the Operator. The certification shall describe broadly or indicate the nature of the discovery or development. In the event of such certification, any minerals mined or produced from the land described in Article 2 within 10 years from the date of this contract, including any mined or produced before the certification, shall be subject to a percentage royalty which the Operator or his successor in interest shall pay to the Government, upon the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production, in whatever form disposed of, including ore, concentrates, or metal, until the total amount contributed by the Government, without interest, is fully repaid, or said 10 years have elapsed, whichever occurs first, as follows:

(1) One and one-half (1½) per cent of any such net amounts not in excess of eight dollars ($8.00) per ton.

(2) One and one-half (1½) per cent of any such net amounts, plus one-half (½) per cent such net amounts for each additional full fifty cents ($0.50) by which such net amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) per cent of such net amounts.

(For instance: the percentage royalty on a net amount of five dollars ($5.00) per ton, would be one and one-half (1½) per cent; on a net amount of ten dollars ($10.00) per ton, three and one-half (3½) per cent.)

(b) As here used, "net smelter returns", "net concentrator returns", and "other net amounts realized from the sale or other disposition", mean gross revenue from sales; or if not sold, the market value, the market value of the material after it is mined in the form in which and the place where it is held. In the case of integrated operations in which the material is not disposed of as such, these terms mean what is or would be gross income from mining operations for percentage depletion purposes in income tax determination.

(c) To secure the payment of its percentage royalty, the Government shall have and is hereby granted a lien upon the land described in Article 2 and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

(d) This article is not to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any mining or production operations.

Title to and disposition of property. All facilities, buildings, fixtures, equipment, or other items costing more than $50.00 each, paid for or purchased with funds contributed jointly by the Operator and the Government, although title may be taken in the name of the Operator, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the completion of the work or the termination of the contract shall be disposed of promptly by the Operator for the joint account of the Government and the Operator, either by return to the vendor, by sale to others, or purchase by the Operator at a price at least as high as could otherwise be obtained, as may appear to be for the best interest of the Government, unless the Government, in writing, waives its interest in any such item. If necessary to accomplish such disposition, the Operator shall dismantle, sever from the land, and remove any such item, the cost thereof to be for the joint account of the parties in proportion to their respective interests. If the Operator, within 90 days after the receipt of written notice from the Government, fails, neglects, or refuses to dispose of such property, the Government may itself enter upon the land, take possession of, and remove and dispose of any such property as above provided.

MF-203

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 UTAH, County of San Juan, described as follows:1/

Name of Claim	Book Recorded	Page Recorded	Date Recorded
Little Joe #1	R-4	36	July 25, 1951
Sailor #1	R-4	36	July 25, 1951
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Said claims lying in unsurveyed sections #28 and #29, T. 28 S., R. 19 E., Salt Lake Base and Meridian

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/ THE MAYFLOWER COMPANY, a corporation

hereinafter called the "Operator"; and

WHEREAS, under certain provisions of said contract which are set forth on the reverse side hereof, the Government is entitled to a percentage royalty on production and to certain other rights and equities which do or may conflict with or be adverse to the interest of the undersigned in said property;

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 which does not increase the maximum amount of the Government's claim here stated or alter the provisions for repayment, there is hereby granted to the Government a lien upon the land herein described and upon any production of minerals therefrom, until the royalty claim is fully paid in the amount of the Government's contribution, not in excess of 4/$ 46,050.00, or ten years have elapsed from the date of the contract.

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.

Dated this 19 day of September, 1953.

J. B. Shaler [Seal]

Jack Turner [Seal]

George B. Taylor [Seal]

Agnes E. Fisher

Lawrence Magleiss

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.

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(c) To secure the payment of its percentage royalty, the Government shall have and is hereby granted a lien upon the land described in Article 2 and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

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Title to and disposition of property. All facilities, buildings, fixtures, equipment, or other items costing more than $50.00 each, paid for or purchased with funds contributed jointly by the Operator and the Government, although title may be taken in the name of the Operator, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the completion of the work or the termination of the contract shall be disposed of promptly by the Operator for the joint account of the Government and the Operator, either by return to the vendor, by sale to others, or purchase by the Operator at a price at least as high as could otherwise be obtained, as may appear to be for the best interest of the Government, unless the Government, in writing, waives its interest in any such item. If necessary to accomplish such disposition, the Operator shall dismantle, sever from the land, and remove any such item, the cost thereof to be for the joint account of the parties in proportion to their respective interests. If the Operator, within 90 days after the receipt of written notice from the Government, fails, neglects, or refuses to dispose of such property, the Government may itself enter upon the land, take possession of, and remove and dispose of any such property as above provided.

MF-203

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Sailor #3	R-4	37	July 25, 1951

Said claims lying in unsurveyed sections #20 and #29, T. 28 S., R. 19 E., Salt Lake Base and Meridian

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/ THE MAYFLOWER COMPANY, a corporation

hereinafter called the "Operator"; and

WHEREAS, under certain provisions of said contract which are set forth on the reverse side hereof, the Government is entitled to a percentage royalty on production and to certain other rights and equities which do or may conflict with or be adverse to the interest of the undersigned in said property;

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 which does not increase the maximum amount of the Government's claim here stated or alter the provisions for repayment, there is hereby granted to the Government a lien upon the land herein described and upon any production of minerals therefrom, until the royalty claim is fully paid in the amount of the Government's contribution, not in excess of 4/$ 46,050.00, or ten years have elapsed from the date of the contract.

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.

Dated this 19 day of September, 1959.

[Seal]

[Seal]

[Seal]

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.

4/ Insert the maximum amount of the Government's contribution.

RELEVANT CONTRACT PROVISIONS

Repayment by Operator. (a) If, at any time, the Government considers that a discovery or a development from which production may be made has resulted from the exploration work, the Government, at any time not later than six months after the Operator has rendered the required final report and final account, may so certify in writing to the Operator. The certification shall describe broadly or indicate the nature of the discovery or development. In the event of such certification, any minerals mined or produced from the land described in Article 2 within 10 years from the date of this contract, including any mined or produced before the certification, shall be subject to a percentage royalty which the Operator or his successor in interest shall pay to the Government, upon the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production, in whatever form disposed of, including ore, concentrates, or metal, until the total amount contributed by the Government, without interest, is fully repaid, or said 10 years have elapsed, whichever occurs first, as follows:

(1) One and one-half (1½) per cent of any such net amounts not in excess of eight dollars ($8.00) per ton.

(2) One and one-half (1½) per cent of any such net amounts, plus one-half (½) per cent such net amounts for each additional full fifty cents ($0.50) by which such net amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) per cent of such net amounts.

(For instance: the percentage royalty on a net amount of five dollars ($5.00) per ton, would be one and one-half (1½) per cent; on a net amount of ten dollars ($10.00) per ton, three and one-half (3½) per cent.)

(b) As here used, "net smelter returns", "net concentrator returns", and "other net amounts realized from the sale or other disposition", mean gross revenue from sales; or if not sold, the market value, the market value of the material after it is mined in the form in which and the place where it is held. In the case of integrated operations in which the material is not disposed of as such, these terms mean what is or would be gross income from mining operations for percentage depletion purposes in income tax determination.

(c) To secure the payment of its percentage royalty, the Government shall have and is hereby granted a lien upon the land described in Article 2 and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

(d) This article is not to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any mining or production operations.

Title to and disposition of property. All facilities, buildings, fixtures, equipment, or other items costing more than $50.00 each, paid for or purchased with funds contributed jointly by the Operator and the Government, although title may be taken in the name of the Operator, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the completion of the work or the termination of the contract shall be disposed of promptly by the Operator for the joint account of the Government and the Operator, either by return to the vendor, by sale to others, or purchase by the Operator at a price at least as high as could otherwise be obtained, as may appear to be for the best interest of the Government, unless the Government, in writing, waives its interest in any such item. If necessary to accomplish such disposition, the Operator shall dismantle, sever from the land, and remove any such item, the cost thereof to be for the joint account of the parties in proportion to their respective interests. If the Operator, within 90 days after the receipt of written notice from the Government, fails, neglects, or refuses to dispose of such property, the Government may itself enter upon the land, take possession of, and remove and dispose of any such property as above provided.

MF-203

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 UTAH, County of San Juan, described as follows:1/

Name of Claim	Book Recorded	Page Recorded	Date Recorded
Little Joe #1	R-4	30	July 25, 1951
Seller #1	R-4	30	July 25, 1951
Seller #2	R-4	37	July 25, 1951
Seller #3	R-4	37	July 25, 1951

Said claims lying in unsurveyed sections #29 and #30, T. 29 S., R. 19 E., Salt Lake Base and Meridian

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/ THE MAYFLOWER COMPANY, a corporation

hereinafter called the "Operator"; and

WHEREAS, under certain provisions of said contract which are set forth on the reverse side hereof, the Government is entitled to a percentage royalty on production and to certain other rights and equities which do or may conflict with or be adverse to the interest of the undersigned in said property;

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 which does not increase the maximum amount of the Government's claim here stated or alter the provisions for repayment, there is hereby granted to the Government a lien upon the land herein described and upon any production of minerals therefrom, until the royalty claim is fully paid in the amount of the Government's contribution, not in excess of 4/$ 46,000.00, or ten years have elapsed from the date of the contract.

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.

Dated this 19 day of September, 1953.

J. E. Shale [Seal]

Jack Turner [Seal]

George R. Taylor [Seal]

Lawrence Magliocco

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.

4/ Insert the maximum amount of the Government's contribution.

RELEVANT CONTRACT PROVISIONS

Repayment by Operator. (a) If, at any time, the Government considers that a discovery or a development from which production may be made has resulted from the exploration work, the Government, at any time not later than six months after the Operator has rendered the required final report and final account, may so certify in writing to the Operator. The certification shall describe broadly or indicate the nature of the discovery or development. In the event of such certification, any minerals mined or produced from the land described in Article 2 within 10 years from the date of this contract, including any mined or produced before the certification, shall be subject to a percentage royalty which the Operator or his successor in interest shall pay to the Government, upon the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production, in whatever form disposed of, including ore, concentrates, or metal, until the total amount contributed by the Government, without interest, is fully repaid, or said 10 years have elapsed, whichever occurs first, as follows:

(1) One and one-half (1½) per cent of any such net amounts not in excess of eight dollars ($8.00) per ton.

(2) One and one-half (1½) per cent of any such net amounts, plus one-half (½) per cent such net amounts for each additional full fifty cents ($0.50) by which such net amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) per cent of such net amounts.

(For instance: the percentage royalty on a net amount of five dollars ($5.00) per ton, would be one and one-half (1½) per cent; on a net amount of ten dollars ($10.00) per ton, three and one-half (3½) per cent.)

(b) As here used, "net smelter returns", "net concentrator returns", and "other net amounts realized from the sale or other disposition", mean gross revenue from sales; or if not sold, the market value, the market value of the material after it is mined in the form in which and the place where it is held. In the case of integrated operations in which the material is not disposed of as such, these terms mean what is or would be gross income from mining operations for percentage depletion purposes in income tax determination.

(c) To secure the payment of its percentage royalty, the Government shall have and is hereby granted a lien upon the land described in Article 2 and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

(d) This article is not to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any mining or production operations.

Title to and disposition of property. All facilities, buildings, fixtures, equipment, or other items costing more than $50.00 each, paid for or purchased with funds contributed jointly by the Operator and the Government, although title may be taken in the name of the Operator, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the completion of the work or the termination of the contract shall be disposed of promptly by the Operator for the joint account of the Government and the Operator, either by return to the vendor, by sale to others, or purchase by the Operator at a price at least as high as could otherwise be obtained, as may appear to be for the best interest of the Government, unless the Government, in writing, waives its interest in any such item. If necessary to accomplish such disposition, the Operator shall dismantle, sever from the land, and remove any such item, the cost thereof to be for the joint account of the parties in proportion to their respective interests. If the Operator, within 90 days after the receipt of written notice from the Government, fails, neglects, or refuses to dispose of such property, the Government may itself enter upon the land, take possession of, and remove and dispose of any such property as above provided.

MF-203

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 UTAH, County of San Juan, described as follows:1/

Name of Claim	Book Recorded	Page Recorded	Date Recorded
Little Joe #1	R-4	36	July 25,1951
Sailor #1	R-4	36	July 25,1951
Sailor #2	R-4	37	July 25,1951
Sailor #3	R-4	37	July 25,1951

Said claims lying in unsurveyed sections #28 and #29, T. 28 S., R. 19 E., Salt Lake Base and Meridian

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/ THE MAYFLOWER COMPANY, a corporation

hereinafter called the "Operator"; and

WHEREAS, under certain provisions of said contract which are set forth on the reverse side hereof, the Government is entitled to a percentage royalty on production and to certain other rights and equities which do or may conflict with or be adverse to the interest of the undersigned in said property;

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 which does not increase the maximum amount of the Government's claim here stated or alter the provisions for repayment, there is hereby granted to the Government a lien upon the land herein described and upon any production of minerals therefrom, until the royalty claim is fully paid in the amount of the Government's contribution, not in excess of 4/$ 46,050.00, or ten years have elapsed from the date of the contract.

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.

Dated this 19 day of September, 1953.

J. E. Shale [Seal]

Jack Turner [Seal]

George R. Taylor [Seal]

Laurence Magleness

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.

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4/ Insert the maximum amount of the Government's contribution.

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(1) One and one-half (1½) per cent of any such net amounts not in excess of eight dollars ($8.00) per ton.

(2) One and one-half (1½) per cent of any such net amounts, plus one-half (½) per cent such net amounts for each additional full fifty cents ($0.50) by which such net amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) per cent of such net amounts.

(For instance: the percentage royalty on a net amount of five dollars ($5.00) per ton, would be one and one-half (1½) per cent; on a net amount of ten dollars ($10.00) per ton, three and one-half (3½) per cent.)

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MF-203

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Sailor #3	R-4	37	July 25,1951

Said claims lying in unsurveyed sections #28 and #29, T. 28 S., R. 19 E., Salt Lake Base and Meridian

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

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hereinafter called the "Operator"; and

WHEREAS, under certain provisions of said contract which are set forth on the reverse side hereof, the Government is entitled to a percentage royalty on production and to certain other rights and equities which do or may conflict with or be adverse to the interest of the undersigned in said property;

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Dated this 19 day of September, 1953.

J. E. Shale [Seal]

Jack L. Turner [Seal]

George R. Taylor [Seal]

Lawrence Mayhew

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.

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(1) One and one-half ($1\frac{1}{2}$) per cent of any such net amounts not in excess of eight dollars ($8.00) per ton.

(2) One and one-half ($1\frac{1}{2}$) per cent of any such net amounts, plus one-half ($\frac{1}{2}$) per cent such net amounts for each additional full fifty cents ($0.50) by which such net amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) per cent of such net amounts.

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MF-203

OWNER'S CONSENT TO LIEN

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Dated this 19 day of September, 1953.

J E Shale [Seal]

Joe Turner [Seal]

Margot P. Taylor [Seal]

Laverne Hughes

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.

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(b) As here used, "net smelter returns", "net concentrator returns", and "other net amounts realized from the sale or other disposition", mean gross revenue from sales; or if not sold, the market value, the market value of the material after it is mined in the form in which and the place where it is held. In the case of integrated operations in which the material is not disposed of as such, these terms mean what is or would be gross income from mining operations for percentage depletion purposes in income tax determination.

(c) To secure the payment of its percentage royalty, the Government shall have and is hereby granted a lien upon the land described in Article 2 and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

(d) This article is not to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any mining or production operations.

Title to and disposition of property. All facilities, buildings, fixtures, equipment, or other items costing more than $50.00 each, paid for or purchased with funds contributed jointly by the Operator and the Government, although title may be taken in the name of the Operator, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the completion of the work or the termination of the contract shall be disposed of promptly by the Operator for the joint account of the Government and the Operator, either by return to the vendor, by sale to others, or purchase by the Operator at a price at least as high as could otherwise be obtained, as may appear to be for the best interest of the Government, unless the Government, in writing, waives its interest in any such item. If necessary to accomplish such disposition, the Operator shall dismantle, sever from the land, and remove any such item, the cost thereof to be for the joint account of the parties in proportion to their respective interests. If the Operator, within 90 days after the receipt of written notice from the Government, fails, neglects, or refuses to dispose of such property, the Government may itself enter upon the land, take possession of, and remove and dispose of any such property as above provided.

MF-203

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 UTAH, County of SAN JUAN, described as follows:1/

Name of Claim	Book Recorded	Page Recorded	Date Recorded
Sailor #4	R-4	37	July 25, 1951
Sailor #5	R-4	38	July 25, 1951
Sailor #6	R-4	38	July 25, 1951

Said claims lying in unsurveyed sections #28 and #29, T. 28 S., R. 19 E., Salt Lake Base and Meridian

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/ THE MAYFLOWER COMPANY, a corporation

hereinafter called the "Operator"; and

WHEREAS, under certain provisions of said contract which are set forth on the reverse side hereof, the Government is entitled to a percentage royalty on production and to certain other rights and equities which do or may conflict with or be adverse to the interest of the undersigned in said property;

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 which does not increase the maximum amount of the Government's claim here stated or alter the provisions for repayment, there is hereby granted to the Government a lien upon the land herein described and upon any production of minerals therefrom, until the royalty claim is fully paid in the amount of the Government's contribution, not in excess of 4/$ 46,050.00, or ten years have elapsed from the date of the contract.

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.

Dated this 19 day of September, 195 3.

[illegible] [Seal]

Jack Turner [Seal]

Agnes E. Turner [Seal]

Georgette Taylor

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.

4/ Insert the maximum amount of the Government's contribution.

RELEVANT CONTRACT PROVISIONS

Repayment by Operator. (a) If, at any time, the Government considers that a discovery or a development from which production may be made has resulted from the exploration work, the Government, at any time not later than six months after the Operator has rendered the required final report and final account, may so certify in writing to the Operator. The certification shall describe broadly or indicate the nature of the discovery or development. In the event of such certification, any minerals mined or produced from the land described in Article 2 within 10 years from the date of this contract, including any mined or produced before the certification, shall be subject to a percentage royalty which the Operator or his successor in interest shall pay to the Government, upon the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production, in whatever form disposed of, including ore, concentrates, or metal, until the total amount contributed by the Government, without interest, is fully repaid, or said 10 years have elapsed, whichever occurs first, as follows:

(1) One and one-half (1½) per cent of any such net amounts not in excess of eight dollars ($8.00) per ton.

(2) One and one-half (1½) per cent of any such net amounts, plus one-half (½) per cent such net amounts for each additional full fifty cents ($0.50) by which such net amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) per cent of such net amounts.

(For instance: the percentage royalty on a net amount of five dollars ($5.00) per ton, would be one and one-half (1½) per cent; on a net amount of ten dollars ($10.00) per ton, three and one-half (3½) per cent.)

(b) As here used, "net smelter returns", "net concentrator returns", and "other net amounts realized from the sale or other disposition", mean gross revenue from sales; or if not sold, the market value, the market value of the material after it is mined in the form in which and the place where it is held. In the case of integrated operations in which the material is not disposed of as such, these terms mean what is or would be gross income from mining operations for percentage depletion purposes in income tax determination.

(c) To secure the payment of its percentage royalty, the Government shall have and is hereby granted a lien upon the land described in Article 2 and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

(d) This article is not to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any mining or production operations.

Title to and disposition of property. All facilities, buildings, fixtures, equipment, or other items costing more than $50.00 each, paid for or purchased with funds contributed jointly by the Operator and the Government, although title may be taken in the name of the Operator, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the completion of the work or the termination of the contract shall be disposed of promptly by the Operator for the joint account of the Government and the Operator, either by return to the vendor, by sale to others, or purchase by the Operator at a price at least as high as could otherwise be obtained, as may appear to be for the best interest of the Government, unless the Government, in writing, waives its interest in any such item. If necessary to accomplish such disposition, the Operator shall dismantle, sever from the land, and remove any such item, the cost thereof to be for the joint account of the parties in proportion to their respective interests. If the Operator, within 90 days after the receipt of written notice from the Government, fails, neglects, or refuses to dispose of such property, the Government may itself enter upon the land, take possession of, and remove and dispose of any such property as above provided.

MF-203

OWNER'S CONSENT TO LIEN

DEPARTMENT OF THE INTERIOR
Bureau of Land Management
RECEIVED

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

Name of Claim	Book Recorded	Page Recorded	Date Recorded
Sailor #4	R-4	37	July 25, 1951
Sailor #5	R-4	38	July 25, 1951
Sailor #6	R-4	38	July 25, 1951

Said claims lying in unsurveyed sections #28 and #29, T. 28 S., R. 19 E., Salt Lake Base and Meridian

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/ THE MAYFLOWER COMPANY, a corporation

hereinafter called the "Operator"; and

WHEREAS, under certain provisions of said contract which are set forth on the reverse side hereof, the Government is entitled to a percentage royalty on production and to certain other rights and equities which do or may conflict with or be adverse to the interest of the undersigned in said property;

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 which does not increase the maximum amount of the Government's claim here stated or alter the provisions for repayment, there is hereby granted to the Government a lien upon the land herein described and upon any production of minerals therefrom, until the royalty claim is fully paid in the amount of the Government's contribution, not in excess of 4/$ 46,050.00, or ten years have elapsed from the date of the contract.

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.

Dated this 19 day of September, 195 3.

J. E. Shale [Seal]

Jack Turner [Seal]

Agnes E. Dupnest [Seal]

George R. Taylor

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.

4/ Insert the maximum amount of the Government's contribution.

RELEVANT CONTRACT PROVISIONS

Repayment by Operator. (a) If, at any time, the Government considers that a discovery or a development from which production may be made has resulted from the exploration work, the Government, at any time not later than six months after the Operator has rendered the required final report and final account, may so certify in writing to the Operator. The certification shall describe broadly or indicate the nature of the discovery or development. In the event of such certification, any minerals mined or produced from the land described in Article 2 within 10 years from the date of this contract, including any mined or produced before the certification, shall be subject to a percentage royalty which the Operator or his successor in interest shall pay to the Government, upon the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production, in whatever form disposed of, including ore, concentrates, or metal, until the total amount contributed by the Government, without interest, is fully repaid, or said 10 years have elapsed, whichever occurs first, as follows:

(1) One and one-half (1½) per cent of any such net amounts not in excess of eight dollars ($8.00) per ton.

(2) One and one-half (1½) per cent of any such net amounts, plus one-half (½) per cent such net amounts for each additional full fifty cents ($0.50) by which such net amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) per cent of such net amounts.

(For instance: the percentage royalty on a net amount of five dollars ($5.00) per ton, would be one and one-half (1½) per cent; on a net amount of ten dollars ($10.00) per ton, three and one-half (3½) per cent.)

(b) As here used, "net smelter returns", "net concentrator returns", and "other net amounts realized from the sale or other disposition", mean gross revenue from sales; or if not sold, the market value, the market value of the material after it is mined in the form in which and the place where it is held. In the case of integrated operations in which the material is not disposed of as such, these terms mean what is or would be gross income from mining operations for percentage depletion purposes in income tax determination.

(c) To secure the payment of its percentage royalty, the Government shall have and is hereby granted a lien upon the land described in Article 2 and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

(d) This article is not to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any mining or production operations.

Title to and disposition of property. All facilities, buildings, fixtures, equipment, or other items costing more than $50.00 each, paid for or purchased with funds contributed jointly by the Operator and the Government, although title may be taken in the name of the Operator, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the completion of the work or the termination of the contract shall be disposed of promptly by the Operator for the joint account of the Government and the Operator, either by return to the vendor, by sale to others, or purchase by the Operator at a price at least as high as could otherwise be obtained, as may appear to be for the best interest of the Government, unless the Government, in writing, waives its interest in any such item. If necessary to accomplish such disposition, the Operator shall dismantle, sever from the land, and remove any such item, the cost thereof to be for the joint account of the parties in proportion to their respective interests. If the Operator, within 90 days after the receipt of written notice from the Government, fails, neglects, or refuses to dispose of such property, the Government may itself enter upon the land, take possession of, and remove and dispose of any such property as above provided.

MF-203

OWNER'S CONSENT TO LIEN

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
RECEIVED
SEP 24 1983

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

Name of Claim	Book Recorded	Page Recorded	Date Recorded
Sailor #4	R-4	37	July 25, 1951
Sailor #5	R-4	38	July 25, 1951
Sailor #6	R-4	38	July 25, 1951

Said claims lying in unsurveyed sections #38 and #39, T. 23 S., R. 19 E., Salt Lake Base and Meridian

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/ THE MAYFLOWER COMPANY, a corporation

hereinafter called the "Operator"; and

WHEREAS, under certain provisions of said contract which are set forth on the reverse side hereof, the Government is entitled to a percentage royalty on production and to certain other rights and equities which do or may conflict with or be adverse to the interest of the undersigned in said property;

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 which does not increase the maximum amount of the Government's claim here stated or alter the provisions for repayment, there is hereby granted to the Government a lien upon the land herein described and upon any production of minerals therefrom, until the royalty claim is fully paid in the amount of the Government's contribution, not in excess of 4/$ 40,050.00, or ten years have elapsed from the date of the contract.

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.

Dated this 19 day of September, 1953.

R. E. Gale [Seal]

Jack Turner [Seal]

Agnes E. Turner [Seal]

George R. Taylor

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.

4/ Insert the maximum amount of the Government's contribution.

RELEVANT CONTRACT PROVISIONS

Repayment by Operator. (a) If, at any time, the Government considers that a discovery or a development from which production may be made has resulted from the exploration work, the Government, at any time not later than six months after the Operator has rendered the required final report and final account, may so certify in writing to the Operator. The certification shall describe broadly or indicate the nature of the discovery or development. In the event of such certification, any minerals mined or produced from the land described in Article 2 within 10 years from the date of this contract, including any mined or produced before the certification, shall be subject to a percentage royalty which the Operator or his successor in interest shall pay to the Government, upon the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production, in whatever form disposed of, including ore, concentrates, or metal, until the total amount contributed by the Government, without interest, is fully repaid, or said 10 years have elapsed, whichever occurs first, as follows:

(1) One and one-half (1½) per cent of any such net amounts not in excess of eight dollars ($8.00) per ton.

(2) One and one-half (1½) per cent of any such net amounts, plus one-half (½) per cent such net amounts for each additional full fifty cents ($0.50) by which such net amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) per cent of such net amounts.

(For instance: the percentage royalty on a net amount of five dollars ($5.00) per ton, would be one and one-half (1½) per cent; on a net amount of ten dollars ($10.00) per ton, three and one-half (3½) per cent.)

(b) As here used, "net smelter returns", "net concentrator returns", and "other net amounts realized from the sale or other disposition", mean gross revenue from sales; or if not sold, the market value, the market value of the material after it is mined in the form in which and the place where it is held. In the case of integrated operations in which the material is not disposed of as such, these terms mean what is or would be gross income from mining operations for percentage depletion purposes in income tax determination.

(c) To secure the payment of its percentage royalty, the Government shall have and is hereby granted a lien upon the land described in Article 2 and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

(d) This article is not to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any mining or production operations.

Title to and disposition of property. All facilities, buildings, fixtures, equipment, or other items costing more than $50.00 each, paid for or purchased with funds contributed jointly by the Operator and the Government, although title may be taken in the name of the Operator, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the completion of the work or the termination of the contract shall be disposed of promptly by the Operator for the joint account of the Government and the Operator, either by return to the vendor, by sale to others, or purchase by the Operator at a price at least as high as could otherwise be obtained, as may appear to be for the best interest of the Government, unless the Government, in writing, waives its interest in any such item. If necessary to accomplish such disposition, the Operator shall dismantle, sever from the land, and remove any such item, the cost thereof to be for the joint account of the parties in proportion to their respective interests. If the Operator, within 90 days after the receipt of written notice from the Government, fails, neglects, or refuses to dispose of such property, the Government may itself enter upon the land, take possession of, and remove and dispose of any such property as above provided.

DEPARTMENT OF THE INTERIOR
Bureau Mines Information
RECEIVED
SEP 2 1953

MF-203

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 UTAH, County of SAN JUAN, described as follows:1/

Name of Claim	Book Recorded	Page Recorded	Date Recorded
Sailor #4	B-4	37	July 25, 1951
Sailor #5	B-4	38	July 25, 1951
Sailor #6	B-4	39	July 25, 1951

Said claims lying in unsurveyed sections 29 and 30, T. 29 S., R. 19 E., Salt Lake Base and Meridian

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/ THE PASHLOWSKI COMPANY, a corporation

hereinafter called the "Operator"; and

WHEREAS, under certain provisions of said contract which are set forth on the reverse side hereof, the Government is entitled to a percentage royalty on production and to certain other rights and equities which do or may conflict with or be adverse to the interest of the undersigned in said property;

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 which does not increase the maximum amount of the Government's claim here stated or alter the provisions for repayment, there is hereby granted to the Government a lien upon the land herein described and upon any production of minerals therefrom, until the royalty claim is fully paid in the amount of the Government's contribution, not in excess of 4/$ 40,000.00, or ten years have elapsed from the date of the contract.

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.

Dated this 19 day of September, 1953.

F E Shafer [Seal]

Jack Turner [Seal]

Agnes E. Turner [Seal]

George R. Taylor

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.

4/ Insert the maximum amount of the Government's contribution.

RELEVANT CONTRACT PROVISIONS

Repayment by Operator. (a) If, at any time, the Government considers that a discovery or a development from which production may be made has resulted from the exploration work, the Government, at any time not later than six months after the Operator has rendered the required final report and final account, may so certify in writing to the Operator. The certification shall describe broadly or indicate the nature of the discovery or development. In the event of such certification, any minerals mined or produced from the land described in Article 2 within 10 years from the date of this contract, including any mined or produced before the certification, shall be subject to a percentage royalty which the Operator or his successor in interest shall pay to the Government, upon the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production, in whatever form disposed of, including ore, concentrates, or metal, until the total amount contributed by the Government, without interest, is fully repaid, or said 10 years have elapsed, whichever occurs first, as follows:

(1) One and one-half (1½) per cent of any such net amounts not in excess of eight dollars ($8.00) per ton.

(2) One and one-half (1½) per cent of any such net amounts, plus one-half (½) per cent such net amounts for each additional full fifty cents ($0.50) by which such net amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) per cent of such net amounts.

(For instance: the percentage royalty on a net amount of five dollars ($5.00) per ton, would be one and one-half (1½) per cent; on a net amount of ten dollars ($10.00) per ton, three and one-half (3½) per cent.)

(b) As here used, "net smelter returns", "net concentrator returns", and "other net amounts realized from the sale or other disposition", mean gross revenue from sales; or if not sold, the market value, the market value of the material after it is mined in the form in which and the place where it is held. In the case of integrated operations in which the material is not disposed of as such, these terms mean what is or would be gross income from mining operations for percentage depletion purposes in income tax determination.

(c) To secure the payment of its percentage royalty, the Government shall have and is hereby granted a lien upon the land described in Article 2 and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

(d) This article is not to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any mining or production operations.

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MF-203

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 UTAH, County of SAN JUAN, described as follows:1/

Name of Claim	Book Recorded	Page Recorded	Date Recorded
Sailor #4	R-4	37	July 25, 1951
Sailor #5	R-4	38	July 25, 1951
Sailor #6	R-4	38	July 25, 1951

Said claims lying in unsurveyed sections #28 and #29, T. 28 S., R. 19 E., Salt Lake Base and Meridian

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/ THE MAYFLOWER COMPANY, a corporation

hereinafter called the "Operator"; and

WHEREAS, under certain provisions of said contract which are set forth on the reverse side hereof, the Government is entitled to a percentage royalty on production and to certain other rights and equities which do or may conflict with or be adverse to the interest of the undersigned in said property;

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:

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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 which does not increase the maximum amount of the Government's claim here stated or alter the provisions for repayment, there is hereby granted to the Government a lien upon the land herein described and upon any production of minerals therefrom, until the royalty claim is fully paid in the amount of the Government's contribution, not in excess of 4/$ 46,050.00, or ten years have elapsed from the date of the contract.

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.

Dated this 19 day of September, 195 3.

J. E. Shale [Seal]

Jack Turner [Seal]

Agnes E. Turner [Seal]

George W. Taylor

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.

4/ Insert the maximum amount of the Government's contribution.

RELEVANT CONTRACT PROVISIONS

Repayment by Operator. (a) If, at any time, the Government considers that a discovery or a development from which production may be made has resulted from the exploration work, the Government, at any time not later than six months after the Operator has rendered the required final report and final account, may so certify in writing to the Operator. The certification shall describe broadly or indicate the nature of the discovery or development. In the event of such certification, any minerals mined or produced from the land described in Article 2 within 10 years from the date of this contract, including any mined or produced before the certification, shall be subject to a percentage royalty which the Operator or his successor in interest shall pay to the Government, upon the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production, in whatever form disposed of, including ore, concentrates, or metal, until the total amount contributed by the Government, without interest, is fully repaid, or said 10 years have elapsed, whichever occurs first, as follows:

(1) One and one-half (1½) per cent of any such net amounts not in excess of eight dollars ($8.00) per ton.

(2) One and one-half (1½) per cent of any such net amounts, plus one-half (½) per cent such net amounts for each additional full fifty cents ($0.50) by which such net amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) per cent of such net amounts.

(For instance: the percentage royalty on a net amount of five dollars ($5.00) per ton, would be one and one-half (1½) per cent; on a net amount of ten dollars ($10.00) per ton, three and one-half (3½) per cent.)

(b) As here used, "net smelter returns", "net concentrator returns", and "other net amounts realized from the sale or other disposition", mean gross revenue from sales; or if not sold, the market value, the market value of the material after it is mined in the form in which and the place where it is held. In the case of integrated operations in which the material is not disposed of as such, these terms mean what is or would be gross income from mining operations for percentage depletion purposes in income tax determination.

(c) To secure the payment of its percentage royalty, the Government shall have and is hereby granted a lien upon the land described in Article 2 and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

(d) This article is not to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any mining or production operations.

Title to and disposition of property. All facilities, buildings, fixtures, equipment, or other items costing more than $50.00 each, paid for or purchased with funds contributed jointly by the Operator and the Government, although title may be taken in the name of the Operator, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the completion of the work or the termination of the contract shall be disposed of promptly by the Operator for the joint account of the Government and the Operator, either by return to the vendor, by sale to others, or purchase by the Operator at a price at least as high as could otherwise be obtained, as may appear to be for the best interest of the Government, unless the Government, in writing, waives its interest in any such item. If necessary to accomplish such disposition, the Operator shall dismantle, sever from the land, and remove any such item, the cost thereof to be for the joint account of the parties in proportion to their respective interests. If the Operator, within 90 days after the receipt of written notice from the Government, fails, neglects, or refuses to dispose of such property, the Government may itself enter upon the land, take possession of, and remove and dispose of any such property as above provided.

MF-203

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 UTAH, County of SAN JUAN, described as follows:1/

Name of Claim	Book Recorded	Page Recorded	Date Recorded
Sailor #4	R-4	37	July 25, 1951
Sailor #5	R-4	38	July 25, 1951
Sailor #6	R-4	38	July 25, 1951

Said claims lying in unsurveyed sections #28 and #29, T. 28 S., R. 19 E., Salt Lake Base and Meridian

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/ THE MAYFLOWER COMPANY, a corporation

hereinafter called the "Operator"; and

WHEREAS, under certain provisions of said contract which are set forth on the reverse side hereof, the Government is entitled to a percentage royalty on production and to certain other rights and equities which do or may conflict with or be adverse to the interest of the undersigned in said property;

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 which does not increase the maximum amount of the Government's claim here stated or alter the provisions for repayment, there is hereby granted to the Government a lien upon the land herein described and upon any production of minerals therefrom, until the royalty claim is fully paid in the amount of the Government's contribution, not in excess of 4/$ 46,050.00, or ten years have elapsed from the date of the contract.

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.

Dated this 19th day of September, 1953.

F E Shale [Seal]

Jack Turner [Seal]

Agnes E Turner [Seal]

George R. Taylor

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.

4/ Insert the maximum amount of the Government's contribution.

RELEVANT CONTRACT PROVISIONS

Repayment by Operator. (a) If, at any time, the Government considers that a discovery or a development from which production may be made has resulted from the exploration work, the Government, at any time not later than six months after the Operator has rendered the required final report and final account, may so certify in writing to the Operator. The certification shall describe broadly or indicate the nature of the discovery or development. In the event of such certification, any minerals mined or produced from the land described in Article 2 within 10 years from the date of this contract, including any mined or produced before the certification, shall be subject to a percentage royalty which the Operator or his successor in interest shall pay to the Government, upon the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production, in whatever form disposed of, including ore, concentrates, or metal, until the total amount contributed by the Government, without interest, is fully repaid, or said 10 years have elapsed, whichever occurs first, as follows:

(1) One and one-half (1½) per cent of any such net amounts not in excess of eight dollars ($8.00) per ton.

(2) One and one-half (1½) per cent of any such net amounts, plus one-half (½) per cent such net amounts for each additional full fifty cents ($0.50) by which such net amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) per cent of such net amounts.

(For instance: the percentage royalty on a net amount of five dollars ($5.00) per ton, would be one and one-half (1½) per cent; on a net amount of ten dollars ($10.00) per ton, three and one-half (3½) per cent.)

(b) As here used, "net smelter returns", "net concentrator returns", and "other net amounts realized from the sale or other disposition", mean gross revenue from sales; or if not sold, the market value, the market value of the material after it is mined in the form in which and the place where it is held. In the case of integrated operations in which the material is not disposed of as such, these terms mean what is or would be gross income from mining operations for percentage depletion purposes in income tax determination.

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(d) This article is not to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any mining or production operations.

Title to and disposition of property. All facilities, buildings, fixtures, equipment, or other items costing more than $50.00 each, paid for or purchased with funds contributed jointly by the Operator and the Government, although title may be taken in the name of the Operator, shall belong to the Operator and the Government jointly, in proportion to their respective contributions, and upon the completion of the work or the termination of the contract shall be disposed of promptly by the Operator for the joint account of the Government and the Operator, either by return to the vendor, by sale to others, or purchase by the Operator at a price at least as high as could otherwise be obtained, as may appear to be for the best interest of the Government, unless the Government, in writing, waives its interest in any such item. If necessary to accomplish such disposition, the Operator shall dismantle, sever from the land, and remove any such item, the cost thereof to be for the joint account of the parties in proportion to their respective interests. If the Operator, within 90 days after the receipt of written notice from the Government, fails, neglects, or refuses to dispose of such property, the Government may itself enter upon the land, take possession of, and remove and dispose of any such property as above provided.

MF-203

OWNER'S CONSENT TO LIEN

DEPARTMENT OF THE INTERIOR
Bureau of Land Management
Received
SEP 24 1953

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

Name of Claim	Book Recorded	Page Recorded	Date Recorded
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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/ THE MAYFLOWER COMPANY, a corporation

hereinafter called the "Operator"; and

WHEREAS, under certain provisions of said contract which are set forth on the reverse side hereof, the Government is entitled to a percentage royalty on production and to certain other rights and equities which do or may conflict with or be adverse to the interest of the undersigned in said property;

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:

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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 which does not increase the maximum amount of the Government's claim here stated or alter the provisions for repayment, there is hereby granted to the Government a lien upon the land herein described and upon any production of minerals therefrom, until the royalty claim is fully paid in the amount of the Government's contribution, not in excess of 4/$ 46,050.00, or ten years have elapsed from the date of the contract.

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.

Dated this 19 day of September, 1953.

W. E. Shale [Seal]

Jack Turner [Seal]

Agnes E. Turner [Seal]
George H. Taylor

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(2) One and one-half (1½) per cent of any such net amounts, plus one-half (½) per cent such net amounts for each additional full fifty cents ($0.50) by which such net amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) per cent of such net amounts.

(For instance: the percentage royalty on a net amount of five dollars ($5.00) per ton, would be one and one-half (1½) per cent; on a net amount of ten dollars ($10.00) per ton, three and one-half (3½) per cent.)

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9/10/53 gla

DEALERS IN UTAH AND WYOMING
OIL LANDS, ROYALTIES AND OIL LEASES

The Mayflower Company

ROOMS 24-25
STOCK EXCHANGE BUILDING
39 EXCHANGE PLACE
SALT LAKE CITY 1, UTAH
PHONE 5-6777

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
SEP 10 1953

September 8, 1953

United States Department of the Interior
Defense Minerals Exploration Administration
Washington 25, D. C.

Re: Docket No. DMEA-3069 (Uranium)
Sailor and Little Joe Group of Claims
San Juan County, Utah

Attn: Mr. Ernest Wm. Ellis, Chief
Rare and Misc. Metals Division

Dear Mr. Ellis:

Thank you very much for your letter of September 1, 1953, concerning the foregoing matter.

We are still very much interested in proceeding with our application with your department.

We forwarded the various papers you sent to us for the signatures of the interested parties, but thus far, they have not been returned to us. The parties live in various parts of the country, and we have had a little difficulty in this respect. However, we are confident that the documents will be in your office prior to September 30, 1953.

We appreciate your cooperation, and wish to re-assure you that every effort possible is being exerted to secure the necessary data for your office.

Yours very truly,

THE MAYFLOWER COMPANY

AB.

By J. W. Randall
President By J. M.

JWR:jm

FILE COPY
SURNAME:

F. L. Kausen
Butler
A. C. Kaiser
Ellis

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

SEP 1 1953

Mr. J. W. Randall, President
The Mayflower Company
623 Judge Building
Salt Lake City, Utah

Re: Docket No. DMEA-3269 (Uranium)
Sailor and Little Joe Group of Claims
San Juan County, Utah

Dear Mr. Randall:

A review of your application of May 29, 1953, for an exploration contract in the amount of $6,050.00, reveals that a letter was sent you on July 10, in response to your letter dated June 29, 1953, requesting certain data which would enable this Agency to process your application.

Nothing further has been received from you and we assume that you no longer desire to proceed with the application. We wish to cooperate with you in the matter of allowing ample time, but if the needed data has not been received by September 30, 1953, we will then consider the docket closed.

Sincerely yours,

SIGNED

Ernest Wm. Ellis, Chief
Rare and Misc. Metals Division

FLKnouse/gla/db
8-31-53
cc to: Adm. Reading File
Docket
Messrs: H. D. Kaiser, Rm. 3641
A. P. Butler, Jr., Rm. 3206, GSA
Ellis
Knouse
DMEA Field Team, Region IV (2)

R.C.G.
9-1-53

FILE COPY
SURNAME:

140

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

JUL 10 1953

Mr. J. W. Randall, President
The Mayflower Company
623 Judge Building
Salt Lake City, Utah

Re: Docket No. DMEA-3069 (Uranium)
Sailor and Little Joe Group of Claims
San Juan County, Utah

Dear Mr. Randall:

This responds to your letter dated June 29 in reply to our letter dated June 25 concerning the above-described application for aid in a minerals exploration project.

Our letter dated June 25 made the following points:

1. That as both your company and the Great Basin Oil and Leasing Company hold a lease of four claims, and an option to purchase three other claims, your company must demonstrate a sufficient interest in these claims for the purposes of the exploration project contract, such as by an assignment or lease from the Great Basin Oil and Leasing Company, with the consent of the lessor and optionor; and

2. The option to purchase the three claims does not authorize exploration or mining, and we require evidence of your right to explore and mine.

With respect to the first point, your letter of June 29 states that your company and the Great Basin Oil and Leasing Company are equal owners of the lease and option, and that under an agreement between the two companies, your company is the operating company of the claims. If you will furnish us with a copy of the agreement between the two companies we will be able to determine whether your company has a sufficient interest in the claims for the purposes of an exploration project contract.

Your letter made no comment with respect to the second point.

Upon receipt of the evidence requested, we shall give further consideration to the application of your company.

Sincerely yours,

SIGNED

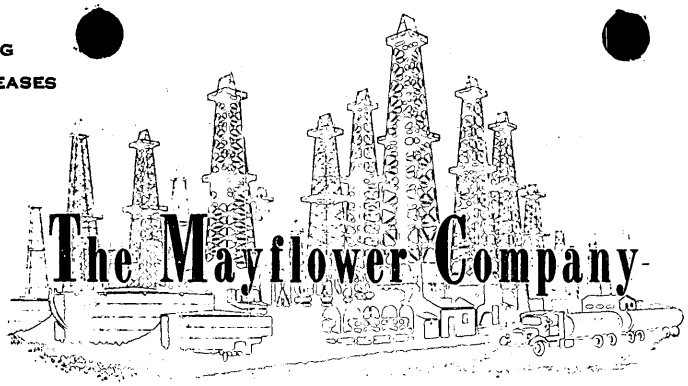
Ernest Wm. Ellis, Chief
Rare and Misc. Metals Division

HCRubin/ema/7-9-53

cc: Mails & Files
Adm. R. File
H. D. Keiser, Rm. 3641
A. P. Butler, Jr., Rm. 3206, GSA
DMEA Field Team, Region IV (2)
E. W. Ellis
H. C. Rubin
J. L. Hofflund
Chron.

7/3/53 gla

DEALERS IN UTAH AND WYOMING
OIL LANDS, ROYALTIES AND OIL LEASES



ROOMS 24-25
STOCK EXCHANGE BUILDING
39 EXCHANGE PLACE
SALT LAKE CITY 1, UTAH
PHONE 5-6777

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration

June 29, 1953

United States
Department of the Interior
Defense Minerals Exploration Administration
Washington 25, D. C.

Re: Docket No. DMEA-3069 (Uranium)
Sailor and Little Joe Group of Claims
San Juan County, Utah

Attn: Mr. Ernest Wm. Ellis, Chief
Rare and Misc. Metals Division

Gentlemen:

We wish to acknowledge receipt of your letter dated June 25, 1953, concerning the foregoing matter.

The Mayflower Company and the Great Basin Oil and Leasing Company are equal owners of the lease and option referred to in your letter. However, under agreement between the two companies, the Mayflower Company is the operating Company of the claims.

We would like to know if, under these circumstances, it would be satisfactory to you if we obtain the signatures of Great Basin Oil and Leasing Company on the "Owners Consent to Lien" forms together with the other interested parties?

Thanking you for an early reply, we remain,

Very respectfully,

THE MAYFLOWER COMPANY

By J. W. Randall
President
By J. M.

SB:jm

FILE COPY
SURNAME:
Docket
F.L. Knouse
Rubin
Ellis
Unitendorp

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

JUN 2 5 1953

Mr. J. W. Marshall, President
The Mayflower Company
623 Judge Building
Salt Lake City, Utah

Re: Docket No. DMA-3069 (Uranium)
Sailor and Little Joe Group of Claims
San Juan County, Utah

Dear Mr. Marshall:

Reference is made to your application for Government aid to explore the captioned property.

In reviewing your application, it appears that your company does not have a sufficient interest in the land for the purposes of an exploration project contract, for the following reasons: With respect to the Sailor Nos. 1, 2, and 3 and the Little Joe No. 1 claims, the assignment from the lessee Anglimonic runs to both The Mayflower Company and the Great Basin Oil and Leasing Company. Thus, The Mayflower Company has less than a full interest in the assigned lease. We require, therefore, that The Mayflower Company demonstrate a full interest in the leased land, either by assignment to them from Great Basin Oil and Leasing Company, or by lease from the latter company, in either event with the consent of the lessor.

With respect to the Sailor Nos. 4, 5, and 6 claims, for which an option to purchase was assigned by I. K. Hale to both The Mayflower Company and the Great Basin Oil and Leasing Company, the comment in the previous paragraph concerning less than full interest of The Mayflower Company, applies. In addition, the option to purchase does not authorize exploration or mining prior to the payment of all purchase money. We require evidence of the right to mine or explore precedent to further consideration of the application for a contract. Upon receipt of evidence indicating a sufficient interest in the land held by your company, we shall continue processing your application.

If a contract is recommended and approved, we will require seven (7) executed "Owner's Consent to Mine" forms (DF-203) from each owner of the land concerned, prior to the execution of a contract. We are, therefore, enclosing sixteen (16) copies of those forms.

Sincerely yours,

SIGNED

Ernest M. Ellis, Chief
Nuclear and Misc. Metals Division

6-25-53

HCRubin/FLKnouse/db
6-24-53
cc to: Adm. Reading File
Docket
Messrs: H.D. Keiser, Rm. 3641
A.P. Butler, Jr., Rm. 3206, GSA
Ellis
Rubin, Rm. 4628
Knouse
DMA Field Team, Region IV (9)

6/22/53 gla

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

TO : E. Wm. Ellis, DMM Member
Uranium Commodity Committee

DATE: June 16, 1953

FROM : Arthur F. Butler, Jr., USGS Member
Uranium Commodity Committee

SUBJECT: Application DMM Docket 3069 (uranium), The Mayflower Co., applicant, 623 Judge Building, Salt Lake City, Utah; Little Joe No. 1, and Sailor Nos. 1 to 6 claims, Secs. 28 and 29 (unsurveyed) T. 28 S., R 19 E. San Juan Co., Utah.

The application for Government assistance to explore the property identified in the subject above has been reviewed and discussed with H. D. Keiser, Bureau of Mines member, Uranium Commodity Committee and J. O. Hosted, U. S. Atomic Energy Commission.

Proposal

The applicant proposes to explore uranium-bearing beds in the Shinarump conglomerate by 3400 feet of bulldozer stripping, 1000 feet of underground drifting, and 4,800 feet of wagon drill holes at an estimated total project cost of $46,050.

Comment

Uranium is present in the lower part of the Shinarump conglomerate at various points on the applicants claims as indicated by the analyses of samples given on page 3 of the supporting information accompanying the application. Locally the concentrations appear to be of commercial grade and thickness, as samples 2 and 6 contain 0.253 and 0.125 percent U_2O_8 for thickness as of 1.8 and 3.0 feet respectively. About 15 tons of ore containing 0.20 percent U_3O_8 have been mined and stockpiled.

Based on the information furnished by the applicant, this property may warrant some exploration. Data furnished with the application are inadequate however, for estimating the merits of the applicants specific proposals. For example, the locations of samples are not shown on the map, nor is enough information shown to relate exploration to position of uranium-bearing rock. These can be obtained best by Field Team examination or consultation with geologists of the Atomic Energy Commission, Grand Junction, Colo. who have studied and mapped the deposit.

The need for the drifting proposed by the applicant appears dubious. Drilling depths are shallow and patterns of holes spaced 50 feet apart in the vicinity of the proposed drifts should give useful information for about 1/9 the cost of the underground work. Even if offset holes at distances of 25 feet seemed desirable in a few small areas the cost would still be not more that 1/4 the underground work.

Recommendation

I recommend that this application be referred to the Field Team for review, evaluation, and recommendation concerning its merit and feasibility. I suggest that the examining members of the Field Team consult with geologists of the Atomic Energy Commission who have examined the property to obtain the benefit of their information and suggestions. I also suggest that they consider the possibility and desirability of substituting drilling for the proposed drifting.

Arthur P. Butler, Jr.

Copy to: E. W. Ellis

6/16/53 gla

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

June 15, 1953

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 3069, Mayflower Co., 623 Judge Building, Salt Lake City, Utah.

I have reviewed the application included in the subject docket and have discussed it with Arthur P. Butler, Geological Survey Member, and Joseph O. Hosted, representative of the Atomic Energy Commission.

It is recommended that the application be sent to the field team for investigation and report, and that the field team be requested to consider wagon drilling in lieu of the underground drifting listed on page 6 of the application.

H. D. Keiser

H. D. Keiser

Attachment

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

June 9, 1953

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 - 3069 , The Mayflower Co.

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

38226

June 9, 1953

Mr. J.W. Randall, President
The Mayflower Company
623 Judge Building
Salt Lake City,
Utah

Subject: DMEA-3069
Re: Exploration Assistance

My dear Mr. Randall:

The receipt of your application dated May 29, 1953 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-3069 and referred to the Rare and Miscellaneous Metals Division.

Kindly refer to DMEA-3069 in any future correspondence relating to your application.

Sincerely yours,

Robert E. Adams
Chief, Operation Control
and Statistics Division

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
JUN 8 1953

224 New Customhouse
Denver 2, Colorado

June 5, 1953

Memorandum

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

From: Field Team, Region IV

Subject: (Uranium) Application of The Mayflower Co., 623 Judge Building, Salt Lake City, Utah

Enclosed are three copies of the subject application requesting exploration aid in the amount of $46,050.00. One copy of the application is being retained in this office.

W. H. King

W. H. King

A. H. Koschmann

A. H. Koschmann

Enclosure

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

224 New Customhouse
Denver 2, Colorado

June 5, 1953

Memorandum

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

From: Field Team, Region IV

Subject: (Uranium) Application of The Mayflower Co., 623 Judge Building, Salt Lake City, Utah

Enclosed are three copies of the subject application requesting exploration aid in the amount of $46,050.00. One copy of the application is being retained in this office.

W. H. King
W. H. King

A. H. Koschmann
A. H. Koschmann

Enclosure

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

Department of the Interior
Defense Minerals Administration

JUN 8 1953

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. 3069
Metal or Mineral
Date Received 6/8/53
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: The Mayflower Company, 623 Judge Building, Salt Lake City, Utah, a corporation duly organized and existing under and by virtue of the laws of the State of 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 See attached continuation sheet.

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

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise See attached continuation sheet.

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

(*e*) If you own the land, describe any liens or encumbrances on it See continuation sheet

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

4. *Physical description.*—(*a*) Describe in detail any mining or exploration operations which have been or now are being conducted upon the land, including existing mine workings and production facilities. State your interest, if any, in such operations. Also describe accessibility of mine workings for examination purposes.

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades.

(*c*) Describe the geologic features of the property, including mineralization, type of deposit (vein, bedded, etc.), and your reasons for wishing to explore. Illustrate with maps or sketches. Send with your application (but not necessarily as a part of it) any geologic or engineering report, assay maps, or other technologic information you may have, indicating on each whether you require its return to you.

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

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

5. *The exploration project.*—(*a*) State the mineral or minerals for which you wish to explore Uranium.

(*b*) Describe fully the proposed work, including a map or sketch of the property showing a plan (and cross sections if needed) of any present mine workings, and the location of the proposed exploration work as related to such features as contacts, veins, ore-bearing beds, etc.

(*c*) The work will start within 60 days and be completed within 12 months from the date of an exploration project contract.

(*d*) State the operating experience and background of the applicant with relation to the ability to carry out such exploration project, and also that of the person or persons who will supervise the operations.

6. *Estimate of costs.*—Furnish a detailed estimate of the costs of the proposed work (you will have to use a separate sheet), under the following headings. Add the totals under all headings to give the estimated total cost of the project:

(*a*) *Independent contracts.*—(Note.—If the applicant does not intend to let any of the work to contractors, write "none" after this item. To the extent that the work is to be contracted, do not repeat the cost of the contract-work in subsequent items.) State the cost of any proposed independent contracts for the performance of all or any part of the work, expressed in terms of units of work (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved, etc.).

(*b*) *Labor, supervision, consultants.*—Include an itemized schedule of numbers, classes and rates of wages, salaries or fees for necessary labor, supervision and engineering and geological consultants.

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

(*d*) *Operating equipment.*—Furnish an itemized list of any operating equipment to be rented, purchased, or which is owned and will be furnished by the Operator, with the estimated rental, purchase price, or suggested use-allowance based on present value, as the case may be.

(*e*) *Rehabilitation and repairs.*—Furnish a detailed list showing the cost of any necessary initial rehabilitation or repairs of existing buildings, installations, fixtures, and movable operating equipment, now owned by the Operator and which will be devoted to the exploration project.

(*f*) *New buildings, improvements, installations.*—Furnish a detailed list showing the cost of any necessary buildings, fixed improvements, or installations to be purchased, installed or constructed for the benefit of the exploration project.

(*g*) *Miscellaneous.*—Furnish a detailed list showing the cost of repairs to and maintenance of operating equipment (not including initial rehabilitation or repairs of the Operator's equipment), analytical work, accounting, workmen's compensation and employers' liability insurance, and payroll taxes.

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

NOTE.—No items of general overhead, corporate management, interest, taxes (other than payroll and sales taxes), or any other indirect costs, or work performed or costs incurred before the date of the contract, should be included in the estimate of costs.

7. (*a*) Are you prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation (Sec. 7, DMEA No. 1)?

(*b*) How do you propose to furnish your share of the costs?

☐ Money ☒ Use of equipment owned by you ☐ Other

Explain in detail on acompanying paper.

CERTIFICATION

The undersigned, whether as an individual, corporate officer, partner, or otherwise, both in his own behalf and acting for the applicant, certifies that the information set forth in this form and accompanying papers is correct and complete, to the best of his knowledge and belief.

Dated May 20th, 1953

THE MAYFLOWER COMPANY
(Applicant)

By J. R. Crandall
President

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

MINE APPLICATION
Continuation Sheet

THE MAYFLOWER COMPANY
623 Judge Building
Salt Lake City, Utah

1. (b) Not applicable.

1. (c) Officers of The Mayflower Company are as follows:

President	J. V. Renouli	749 North 4th West Provo, Utah
Vice-President	J. M. Flyhman	Bountiful, Utah
Secretary-Treasurer	R. A. Richards	Bountiful, Utah

2. (d) Not applicable.

3. (a) Land upon which work is to be done consists of seven unpatented mining claims lying in unsurveyed Sections 28 and 29, T 28 S, R 19 E, SLB&M, San Juan County, Utah. The claims lie on a mesa extending easterly from the east side of Grand View Point. See Fig. 1 attached.

3. (b) The property is known only as the Sailor Group.

3. (c) The applicant holds an assignment of a lease upon Sailor Nos. 1, 2 and 3 Claims and Little Joe No. 1 Claim. An option to purchase is held upon Sailor Nos. 4, 5 and 6 Claims.

3. (d) Copies of the lease between Jack Turner and George H. Taylor, lessors, and Lawrence Migliaccio, lessee, and the assignment of the above lease from Lawrence Migliaccio to the Great Basin Oil and Leasing Company and The Mayflower Company upon Sailor Nos. 1, 2 and 3 and Little Joe No. 1 Claims are attached. Also attached are copies of an option to purchase agreement between Jack and Agnes Turner, owners, and I. R. Shale, upon 14 mining claims including Sailor Nos. 4, 5 and 6, upon which exploration is proposed, and an assignment by I. R. Shale of his interest in these claims to The Mayflower Company and the Great Basin Oil and Leasing Company. These copies need not be returned to the applicant.

3. (e) There are no liens or encumbrances against the claims to be included in the proposed exploration program. The claims are prior to an oil and gas lease granted on the area.

3. (f) The claims upon which work is proposed are filed in the San Juan County Courthouse, Monticello, Utah. The filing data is as follows:

Claim	Book	Page	Location Date	Filing Date
Little Joe No. 1	R4	36	July 30, 1951	July 30, 1951
Sailor No. 1	R4	36	July 26, 1951	July 25, 1951
Sailor No. 2	R4	37	July 26, 1951	July 25, 1951
Sailor No. 3	R4	37	July 26, 1951	July 25, 1951
Sailor No. 4	R4	37	July 26, 1951	July 25, 1951
Sailor No. 5	R4	38	July 26, 1951	July 25, 1951
Sailor No. 6	R4	38	July 26, 1951	July 25, 1951

- - -

4. (a) Exploration conducted by The Mayflower Company on the claims to the date of this application consists of driving two exploration adits on outcrops of uranium mineralization at points selected by geiger counter and with consideration of their accessibility. These are shown on Fig. 2 attached. In Adit No. 1, mineralization was followed throughout the length of the workings and marked increase of mineralization was noted where tree material or carbon was encountered. (A sample of approximately 1.5 feet of such material assayed 0.093% U_3O_8.) The total length of workings in Adit No. 1 is 150 feet at the date of application and work is continuing.

Adit No. 2 is a short adit, approximately 14 feet long, which exhibits some mineralization at the face and along the walls.

Wagon drill holes on a random pattern have been drilled in the mesa to depths sufficient to penetrate through the Shinarump formation into the underlying Moenkopi formation. Unfortunately, little factual data was gained from the holes, since radiometric equipment used in probing the holes was not properly calibrated. Mineralization was found in many holes, but the grade could not be established.

All the above work, as well as construction of an access road to the property, was done by The Mayflower Company at their own expense. Equipment for underground mining, including a portable compressor, drills, air jack legs and accessories, are presently on the property. This equipment, along with camp equipment, buildings, electric light plant and truck are property of The Mayflower Company.

All mine workings and surface outcrops are open and available for examination and sampling.

4. (b) No shipments have been made from the property. Any ore encountered in the current limited underground work is being stockpiled for shipment at a later date. The total stockpile is estimated to total approximately 15 tons of ore averaging 0.10% U_3O_8.

Underground ore reserves cannot be established from the limited amount of drifting accomplished to date. The difficulties in estimating the grade of mineralization encountered in the wagon drill holes obviates the possibility of estimating an ore reserve from the holes.

4. (c) The area which the applicant proposes to explore consists of a mesa capped with Triassic Shinarump formation consisting mainly of conglomerate and sandstone lenses with occasional irregular green-grey clay masses encountered. The lithologic character of the conglomerate and sandstone, along with the apparent scouring of the underlying lower Triassic Moenkopi formation indicates "channel" deposition frequently found in the Shinarump. Fig. 2 attached shows structure contours on the top of the Moenkopi formation which delineate the definite channel pattern observed in the area. This work was done by representatives of the Atomic Energy Commission and kindly furnished to the applicant to assist in planning exploration work.

2. (c) (Continued)

The uranium mineralization thus far encountered on the property occurs at or near the contact of the Chinarump with the underlying Moenkopi. The best mineralization observed on the property is associated with carbonaceous material, although in some areas the mineralization is consistent throughout appreciable thicknesses of conglomerate, sandstone, or clay. In the area of Sample 6, Fig. 2, count is consistently high over a length of approximately 50 feet in a conglomerate lens. In this area limonite and jarosite (?) were observed impregnating strata immediately above the mineralized zone. From cursory radiometric examination, this area appears to be the most strongly mineralized on the property. This area also exhibited the most consistent radiometric readings over its lateral extent and most constant thickness of any area observed. This area is the only fully exposed Chinarump Moenkopi contact in the length of proposed rim stripping shown on Fig. 2.

The only uranium minerals identified by megascopic examination were schrockingerite and possibly torbernite. No other uranium minerals could be recognized in most areas of high count.

A list of recently cut samples is included here as being indicative of the surface and near surface values. These samples are shown on Fig. 2.

Sample No.	Cut Length	Description	U_3O_8
1.	1.0'	Cut of tree material Adit No. 1	0.093
2.	1.8'	Cut on stripped face on Little Joe No. 1	0.153
3.	1.6'	Cut of stripped face on Little Joe No. 1	0.046
4.	1.8'	Cut in Adit No. 2 near bottom of face	0.042
5.	1.2'	Cut on rim conglomerate and sandstone Sailor No. 3	0.067
6.	3.0'	Cut of conglomerate, sandstone and clay on rim	0.125

The above samples were assayed at Smith's Laboratory, Kaib, Utah. Samples as high as 12% U_3O_8 have been taken from thin beds and from tree material.

The applicant wishes to continue the limited exploration work begun on the Sailor group of claims to determine the extent and grade of mineralization thought to underlie the main area of the mesa. The applicant

feels that further exploration is justified by the nature and extent of mineralization thus far encountered by recent underground work, by wagon drilling and by the existence of a definite channel extending through the mesa as shown by Atomic Energy Commission mapping. (See Fig. 2) Further, the area of the claims is a new and undeveloped section and any exploration will aid in proving the area as a whole. The interest evinced by the Atomic Energy Commission in the claims as indicated by their geologic mapping is encouraging to the applicant in continuing further work. The company's expenditures to date are indicative of their interest in and enthusiasm for the area.

4. (d) The property is accessible by improved and unimproved road from U. S. Highway 160 via Seven Mile Canyon and the Grand View Point road to the Neck, a point on Grand View Point, thence down a privately built road to the property. The total mileage from Moab, Utah, the closest town, is 56 miles, the last 26 of which is on the above mentioned private road. Approximately 20 miles of the last 26 miles were built by The Mayflower Company with no assistance from other operators nor state or Federal agencies. The road from the improved Grand View Point road may be travelled by light trucks and four wheel drive vehicles.

Ore mined on the property could be shipped to the Atomic Energy Commission's mill at Monticello, Utah, a distance of approximately 109 miles from the property, or to the United States Vanadium Corporation buying station at Thompson, Utah, a distance of approximately 70 miles from the property. The nearest rail shipping point is Crescent Junction, Utah, a siding on the Denver & Rio Grande Western Railroad, a distance of approximately 42 miles from the property.

Moab, Utah, is the closest supply and residence point to the property. Commissary supplies, small tools and mining supply items can be procured at Moab, and major equipment and repair can be obtained at Monticello, Utah.

The Mayflower Company has built two air strips near the property sufficiently long for four-passenger light aircraft.

4. (e) It is anticipated that sufficient labor will be available in Moab, Utah, to supply the needs of the proposed exploration project. Independent drilling contractors and bulldozing contractors are headquartered in Moab and Monticello, Utah, or Grand Junction, Colorado. Equipment is usually available on short notice.

Water for drilling and culinary uses must be hauled to the property from springs within a few miles of the property. The company anticipates building approximately three miles of road to the Colorado River if future developments warrant such an action. Two possible routes for such a road have been traversed on foot and found feasible.

Power for lights and small tools is generated at the property by a gasoline driven 110V, AC generator. No power line enters the area.

5. (a) The proposed exploration program is intended to explore for uranium.

5. (b) Consideration of a number of factors, including sampling, radiometric observation of the exposed Shinarump-Moenkopi contact, the Atomic Energy Commission geologists structure contour map and accessibility leads to a plan of exploration considered by the applicant to be effective for the area under consideration. The work consists of the following, and is shown on Fig. 2 attached:--

1. Rim Stripping. The Shinarump-Moenkopi contact is covered with talus over lengths of approximately 2200 linear feet on the north rim of the mesa to be explored and approximately 1000 linear feet on the south rim. The applicant proposes to uncover the contact in both these areas by bulldozing to determine if mineralization is present. The total rim stripping is 3400 linear feet.

2. Underground Drifting. The applicant proposes underground drifting at points on Sailor No. 5, Sailor No. 2 and Little Joe No. 1 Claims at places where good mineralization and favorable lithology indicate. This work will prove or disprove the extension of rim showings into the mesa. On Sailor No. 5, 300 linear feet of drifting on a pattern shown in Fig. 2 is proposed. On Sailor No. 2, 400 linear feet of drifting are proposed and on Little Joe No. 1, 300 linear feet of drifting are proposed. These total 1000 feet of underground drifting.

3. Wagon Drilling. Wagon drilling is proposed on the property to explore areas impractical to reach with underground drifting. The shallow holes resulting in frequent moves indicates the use of wagon drills rather than other types of equipment. The applicant will require the independent contractor to catch dust samples in suitable equipment so reliable assay results may be obtained and to allow calibration of radiometric equipment for probing the holes. The areas to be drilled are shown on Fig. 2. A summary of the holes and location are as follows:

Sailor Nos. 5 and 6 - 40 holes, 45 feet average =	1800 feet
Sailor Nos. 2, 3 and 4, - 60 holes, 50 feet average =	3000 feet
Total wagon drill hole footage	4800 feet

5. (c) The work will start within 60 days and be completed within 12 months from the date of the exploration project contract.

5. (d) The Mayflower Company has been engaged in mining in various districts in Utah for a number of years and is sufficiently experienced to conduct an exploration project as proposed in this application. The superintendent who will manage the field operations of the company in the area of the proposed project is Hall Thorn. Mr. Thorn worked for years in the Park City Mining District, mainly at the Silver King Coalition Mine, where he rose to the position of foreman of a section of this major operation. This, along with construction experience with the R. W. Clyde Co. of Springville, Utah, and other construction companies fit him to take complete charge

5. (a) Continued

of both surface and underground operations of the proposed exploration project.

6. Estimate of Costs. Discussions with DMEA representatives in the Salt Lake City office indicate the advisability of securing the "short form" contract for the exploration project which, the applicant understands, involves the combining of all costs incident to the project into an overall unit cost. The following summary attempts to do this. The costs are based upon past experience of the applicant and experience of others in similar areas.

Rim Stripping

2400 feet, north rim
1000 feet, south rim
3400 feet, total, at estimated $1.75 per foot — $ 5,950. ✓

Underground Drifting

Sailor No. 5, 300 ft. at estimated $20.00 per ft. — 6,000.
Sailor No. 2, 400 ft. at estimated $28.00 per ft. — 11,200.
Little Joe No. 1, 300 ft. at estimated $28. per ft. — 8,400.
Total drifting costs — 25,600.

Wagon Drilling - including roads and drill site preparation

Sailor Nos. 5 and 6, 40 holes, 45 ft. average depth — 1800 ft.
Sailor Nos. 2, 3 and 4, 60 holes, 50 ft. average " — 3000 ft.
Total footage — 4800 ft.

Cost of wagon drilling at estimated $2.00 per foot — 9,600. ✓

Access Road Improvement and Maintenance — 2,500.

TOTAL ESTIMATED PROJECT COST — $ 46,050.

7. (a) Yes

7. (b) The applicant proposes to furnish his share of the project costs by use of equipment belonging to the applicant and by furnishing all labor and material necessary to pursue the work outlined, subject to reimbursement by the DMEA.

LEASE AND AGREEMENT

THIS LEASE AND AGREEMENT, made and entered into this 16th day of December, 1952, by and between JACK TURNER, Moab, Utah, and GEORGE R. TAYLOR, Twin Falls, Idaho, hereinafter referred to as LESSORS, AND LAWRENCE MIGLIACCIO, Price, Utah, hereinafter referred to as LESSEE,

W I T N E S S E T H:

That the Lessors in consideration of the royalties hereinafter reserved and by the Lessee to be paid and in consideration of the premises, agreements and covenants contained herein and by the Lessee to be kept and performed, hereby lease to the Lessee the following described unpatented mining claims located in San Juan county, Utah and all of which claims are particularly described in the notices of location, a copy of said notices having been recorded in the county recorder's office of San Juan county, Utah, and said notices as recorded are hereby incorporated in and made a part of this instrument by reference thereto and the names of said mining claims and the book and page where recorded being as follows:

Name of Claim	Book Recorded	Page
Little Joe No. 1	R-4	36
Sailor No. 1	R-4	36
Sailor No. 2	R-4	37
Sailor No. 3	R-4	37

TO HAVE AND TO HOLD the same unto the Lessee for a term of ten (10) years from the 16th day of December, 1952, until the 16th day of December, 1962, unless sooner terminated by the Lessors because of a violation by the Lessee of any of his obligations hereunder; provided that by mutual agreement of the parties hereto in writing, said term may be extended for an additional period of Ten (10) years.

That in consideration of the said leasing, the Lessee hereby covenants and agrees with the Lessors as follows:

1. To forthwith commence work on said mining claims in a diligent, continuous and workmanlike manner and in accordance with the common practice of mining followed in the general area where said mining claims are located.

2. To furnish at his own cost and expense, all the necessary tools, equipment and labor which shall be necessary in carrying out the proper mining of said claims.

3. To allow the Lessor or their agent or agents, at all reasonable times, to enter upon and into all parts of said property for the purpose of inspecting and sampling the same.

4. To give Lessors and their agents, access to all of Lessee's books and papers connected in any way with their operation upon said property and to make such reports as may be reasonably requested by Lessors.

5. To work and mine the property steadily and continuously during the term of this lease with not less than Fifty (50) shifts of work during each calendar month, commencing with the month of February, 1953, and continuing during the term hereof unless other arrangements are approved in writing by the Lessors or unless the Lessee is prevented from working and mining for reasons beyond his control. The word "shift" means the labor of one man for one day for at least eight hours.

6. (a) To pay and deliver to the Lessors, or cause to be paid to them, by the mill, smelter or other purchaser, as the case may be, Ten (10%) per cent of the gross value of all ores that may be mined, shipped or sold from the above described property, or any of it, during the term of this lease; for the purpose of calculating this royalty, development and haulage allowances shall be excluded from the gross value.

In addition to the royalty hereinabove provided, the Lessee agrees to pay to the Lessors, One-third (1/3) of any bonus of any type that may be hereafter paid or payable by the Government or any buyer for the location, discovery, mining or shipping of uranium or other ore on or from such property.

(b) To arrange for payments to be made directly to Lessor by the mill or smelter unless otherwise directed by the Lessors.

(c) To use all reasonable efforts to make, or arrange for the making, of all payments and settlements of royalties and bonuses hereunder and delivering of settlement sheets, directly to the Lessors, for all ores milled or sold during the proceeding calendar month, within Fifteen (15) days after the end of each month.

7. To assume any and all risk and responsibility for any damage or injury to persons or property that Lessee or any of his employees might sustain while mining said premises or carrying on any work or activities in connection therewith.

8. To comply with all the laws of the State of Utah and of the United States of America, while conducting his mining operations, and to keep and maintain Workmen's Compensation coverage and insurance as required by law; and in case of any claim or suit arising, made or filed in connection with or arising out of the operation of said mining premises, said Lessee will defend the same at his own expense and cost, and will hold Lessors harmless from liability therefrom and indemnify Lessors against all damage, loss, costs and expenses on account thereof; and to comply with the provisions of the Social Security Act as it applies to any person or persons employed by him on said mining premises or in connection with the operations contemplated by this agreement.

9. To pay promptly for all labor and supplies used or furnished by Lessee upon said premises and to defend against any claims or suits therefor at his own expense and cost and to hold Lessors harmless from liability and indemnify Lessors for any and all claims and liens for any such materials and labors.

10. Lessee agrees that prior to July 1st of each year, commencing July, 1953, and continuing during the term of this lease, he will perform, or caused to be performed, lawful assessment work upon said claims in such amount as may be required by law. Lessee shall further prepare and file a good and valid affidavit of annual labor and improvements as required by law, showing that such assessment work has been so performed, such affidavit to be filed with the county recorder of San Juan county, Utah, at the time and in the manner required by law for the filing of such affidavits. In the event the annual assessment work should hereafter be required prior to any other date than July of any year, Lessee shall perform such assessment work prior to such other date. In the event relief from performance of assessment work shall be allowed by law, any required affidavits or other actions for the purpose of protecting title to said mining claims shall be filed and recorded or accomplished by the Lessee.

11. The Lessee shall not assign or sublet said mining claims, or any part thereof, without first having obtained the written consent of the Lessors.

12. It is agreed that, upon the failure of the Lessee to keep, observe or perform any of the agreements or covenants

hereinabove to be kept, observed or performed by the Lessee, the term of this lease shall, at the option of the Lessors, expire, and the same, and the property hereby demised shall become forfeited to the Lessors; and the Lessors, or their agents or attorneys, may, thereupon, immediately after demand for possession, enter upon said property and dispossess all persons occupying the same, with or without force, and with or without process of law; or, at the option of the Lessors, the Lessee, and all persons found in occupation of the property, or any part thereof, may be proceeded against as guilty of unlawful detainer; provided further, however, that before any such forfeiture shall be declared and enforced, the Lessors shall notify the Lessee in writing of any such alleged breach of the agreements or covenants herein contained, setting forth in such notice a detailed description of any such alleged breach, and the Lessee shall have Sixty (60) days after the receipt of such notice within which to correct or rectify the same.

13. Any written notices provided for herein, shall be addressed with postage prepaid, as follows:

Notices to Lessors: To Jack Turner
Moab, Utah

Notices to Lessee: To Laurence Migliaccio
Price, Utah

14. Upon the termination of this lease, by expiration, surrender, or otherwise, the Lessee shall pay the Lessors any and all sums that may be due them under the terms hereof or because of the failure or neglect of the Lessee, or any persons acting under him, to keep, observe or perform all or any of the agreements or covenants hereof, upon the payment of which all parties shall be released from any further duties and obligations hereunder. Lessee further agrees to deliver up the leased property to the Lessors in good order and condition, it being specifically understood and agreed, however, that Lessee may remove any of his equipment and surface structures, including houses, office and surface and sub-surface machinery and equipment of every kind and character, except timbering.

IN WITNESS WHEREOF, the said parties have caused this instrument to be executed the day and year first above written.

Jack Turner

George R. Taylor

Lawrence Migliaccio

STATE OF UTAH,)
) ss
County of Grand.)

On the 16th day of December, 1952, personally appeared before me, Jack Turner and Lawrence Migliaccio, two of the signers of the above instrument, who duly acknowledged to me that they executed the same.

(Seal)

Wesley Davies
Notary Public, Residing at
Moab, Utah

My commission expires:
12-26-54

STATE OF IDAHO,)
) ss
County of Twin Falls)

On the 20th day of December, 1952, personally appeared before me, George R. Taylor, one of the signers of the above instrument, who duly acknowledged to me that he executed the same.

(Seal)

(S) W. A. Ostrander
Notary Public, Residing at

Twin Falls, Idaho

My commission expires:

August 26, 1954

C O N S E N T

Consent is hereby given to Lawrence Migliaccio to assign and sublet that certain lease and agreement dated December 16, 1952, entered into between Jack Turner, and George R. Taylor, as lessors, and Lawrence Migliaccio, as Lessee, together with the right to sublet the mining claims or any part thereof described in said lease and agreement.

This consent is limited to the assignment of said lease and agreement by Lawrence Migliaccio to GREAT BASIN OIL & LEASING CO., a corporation and the Mayflower Company, a corporation.

Dated this 16th day of December, 1952.

(s)
Jack Turner

George R. Taylor

ASSIGNMENT AND AGREEMENT

---oooOooo---

THIS AGREEMENT AND ASSIGNMENT made and entered into this 30th day of December, 1952, by and between Lawrence Migliaccio of Price, Utah, hereinafter designated First Party, and Great Basin Oil and Leasing Company, a Utah corporation, and the Mayflower Company, a Utah corporation, hereinafter designated Second Parties,

W I T N E S S E T H:

WHEREAS, First Party has entered into a Lease and Agreement under date of December 16, 1952, between Jack Turner and George R. Taylor, as Lessors and himself as Lessee, of four (4) unpatented mining claims located in San Juan County, State of Utah, an original copy of said Lease being attached hereto and made a part hereof and,

WHEREAS, First Party desires to assign said Lease and Agreement to Second Parties and has secured the written consent of said Assignment to Second Parties by the Lessors, a copy of which is hereto attached and made a part hereof,

NOW, THEREFORE, in consideration of the sum of $1.00 in hand paid and the mutual covenants herein contained, it is agreed by and between the Parties hereto as follows:

I

First Party has assigned, transferred and conveyed and by these presents does assign, transfer and convey, to Second Parties, their successors and assigns, all of his right, title and interest in and to said Lease and the properties therein described.

II

Second Parties hereby accept said assignment and do hereby agree to faithfully keep and perform all terms, conditions and obligations therein contained.

III

First Party agrees to work for and in behalf of the Second Parties in the development, operation and mining of the properties contained in said Lease and, as long as said employment continues, Second Parties agree to pay First Party 5% of the net profits realized by Second Parties in the operation of the properties contained in said Lease.

IN WITNESS WHEREOF, the First Party has hereunto set his hand and seal and the Second Parties have caused this instru-

ment to be executed by its duly authorized officers the day and year first above written.

(s) Lawrence Migliaccio
First Party

GREAT BASIN OIL AND LEASING CO.

By Dan B. Shields (s)
President

(Seal)
ATTEST

(s) Samuel Bernstein
Secretary

THE MAYFLOWER COMPANY

By L. E. Stein (s)
Vice President
Second Parties

(Seal)
ATTEST

(s) K. R. Richards
Secretary

STATE OF UTAH)
: ss
County of Salt Lake)

On this 30th day of December, 1952, personally appeared before me LAWRENCE MIGLIACCIO, signer of the foregoing instrument, who duly acknowledged to me that he executed the same.

(s) C. Vernon Langlois
NOTARY PUBLIC, residing at
Salt Lake City, Utah

(Seal)

My commission expires:

January 28, 1955

STATE OF UTAH)
: ss
County of Salt Lake)

On this 30th day of December, 1952, personally appeared before me Dan B. Shields and Samuel Bernstein, who being by me duly sworn did say that they are officers of the Great Basin Oil and Leasing Company, President and Secretary respectively, and that the foregoing instrument was signed in behalf of said corporation by resolution of its Boards of Directors and said Dan B. Shields and Samuel Bernstein acknowledged to me that said corporation executed the same.

IN WITNESS WHEREOF, I have here unto attached my hand and seal this 30th day of December, 1952.

(s) Louis D. Tannenbaum
NOTARY PUBLIC Residing at
Salt Lake City, Utah

(Seal)
My commission expires:

June 24, 1956

STATE OF UTAH)
: ss
County of Salt Lake)

On this 30th day of December, 1952, personally appeared before me L. E. Stein and Ross Richards, who being by me duly sworn did say that they are officers of the Mayflower Company, Vice President and Secretary respectively, and that the foregoing instrument was signed in behalf of said corporation by resolution of its Board of Directors and said L. E. Stein and Ross Richards acknowledged to me that said corporation executed the same.

IN WITNESS WHEREOF, I have hereunto attached my hand and seal this 30th day of December, 1952.

(s) Louis D. Tannenbaum
NOTARY PUBLIC, residing at
Salt Lake City, Utah

(Seal)
My commission expires:

June 24, 1956

THIS AGREEMENT made this 17th day of March, 1953, by and between Jack Turner of Moab and I. E. Shale of San Mateo, California.

Jack Turner is the owner of approximately fourteen (14) valid lode mining claims located before certain Oil and Gas leases were applied for and three (3) lode mining claims located after oil and gas leases were granted.

All seventeen (17) claims situated in San Juan County, Utah, south of the neck on the East Rim between the Neck and Junction Butte.

Jack Turner grants to I. E. Shale an option of purchase for the sum of six hundred ($600.00) Dollars, receipt of which is hereby acknowledged.

I. E. Shale shall pay Jack Turner the sum of $6900.00 on or before 120 days from this date and the sum of $7500.00 on or before 120 days thereafter, making the full purchase price for these seventeen (17) claims $15,000.00. When this total sum of $15,000.00 has been received by Jack Turner, Turner agrees to deliver to I. E. Shale a good and sufficient deed for the seventeen (17) claims.

Failure on I. E. Shale's part to make any payment, Jack Turner shall receive all monies paid as liquidated damages.

(s) Jack Turner

(s) I. E. Shale

(s) Jeanette D. Day
Witness for Three Signatures

(s) Agnes E. Turner
Jack Turner's Wife

SEVENTEEN CLAIMS

GREEN ROCK - Located August 6th, 1951
Situated: Southerly from 3 Rock Spires and Southwesterly of Trail coming out of Grays Pasture to White Rim. San Juan County, Utah

GREEN ROCK #2 - Located August 6th, 1951
Situated: Southerly from 3 Rock Spires and Southwesterly of trail coming out of Grays Pasture to White Rim. San Juan County, Utah

MESA #1 - Located July 21st, 1951
Situated: About 3 miles airline Northerly of Lathrop Trail about midway of Grand View Point under East Side of Grand View Rim. San Juan County, Utah

MESA NO. 2 - Located July 21, 1951
Situated: About 3 miles airline Northerly of Lathrop trail about midway of Grand View Point under East side of Grand View Rim. San Juan County, Utah

MESA NO. 3 - Located July 21st, 1951
Situated: About 3 miles airline Northerly of Lathrop trail about midway of Grand View Point under East side of Grand View Rim. San Juan County, Utah

MESA NO. 4 - Located July 21st, 1951
Situated: About 3 miles airline Northerly of Lathrop trail about midway of Grand View Point under East side of Grand View Rim. San Juan County, Utah

BIG FOUR - Located July 20, 1951
Situated about 2 miles Northerly of Lathrop trail going off end of Grand View Point. San Juan County, Utah

BIRD LEG NO. 1 - Located July 17, 1951
Situated: 1 mile Easterly of Lathrop trail under Southeast end of Grand View Point. San Juan County, Utah

BIRD LEG NO. 2 - Located July 17, 1951
Situated: About 1 mile Easterly of Lathrop trail under South East end of Grand View Point. San Juan County, Utah

LITTLE JOE NO. 1 - Located July 20th, 1951
Situated: About 1 mile Northerly of Lathrop trail going off end of Grand View Point. San Juan County, Utah

RED ROCK NO. 1 - Located July 18th, 1951
Situated: Under South end of Grand View Point about ½ mile from White Rim. San Juan County, Utah

SAILOR NO. 1 - Located July 16th, 1951
Situated: 1 mile Northeasterly from Lathrop trail going off end of Grand View Point. San Juan County, Utah.

SEVENTEEN CLAIMS, Con't.

SAILOR NO. 2 - Located July 16th, 1951
Situated: 1 mile North Easterly from Lathrop trail going from end of Grand View Point. San Juan County, Utah

SAILOR NO. 3 - Located July 16th, 1951
Situated: 1 mile Northeasterly from Lathrop trail going off end of Grand View Point. San Juan County, Utah

SAILOR NO. 4 - Located July 16th, 1951
Situated: 1 mile Northeasterly from Lathrop trail going off end of Grand View Point. San Juan County, Utah

SAILOR NO. 5 - Located July 16th, 1951
Situated: 1 Mile Northeasterly from Lathrop Trail going off end of Grand View Point. San Juan County, Utah

SAILOR NO. 6 - Located July 16th, 1951
Situated: 1 mile North Easterly from Lathrop Trail going off end of Grand View Point. San Juan County, Utah

A S S I G N M E N T

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, the undersigned, I.E. SHALE, on the 17th day of March, 1953, entered into a written agreement with JACK TURNER of Moab, Utah, wherein I was granted the first right and option to purchase seventeen (17) unpatented mining claims, located in San Juan County, Utah, south of the Neck on the east rim, between The Neck and Junction Butte, for the purchase price of $15,000.00, and desire to assign said option agreement to the Mayflower Company, a Utah Corporation, and the Great Basin Oil and Leasing Company, a Utah Corporation,

NOW THEREFORE, in consideration of the sum of ten dollars ($10.00) and other good and valuable consideration, receipt of which is hereby acknowledged, I do hereby sell, assign, transfer and convey all of my right, title and interest in and to said option agreement, and the seventeen (17) unpatented mining claims therein described, to the MAYFLOWER COMPANY, a Utah Corporation, and to the GREAT BASIN OIL AND LEASING COMPANY, their successors, and assigns.

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 15th day of April, 1953.

I. E. Shale (s)

I. E. SHALE

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration

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

JUN 3 1953

Not to be filled in by applicant

Docket No. 3069
Metal or Mineral
Date Received 6/8/53
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: The Mayflower Company, 623 Judge Building, Salt Lake City, Utah, a corporation duly organized and existing under and by virtue of the laws of the State of 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 See attached continuation sheet.

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

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise See attached continuation sheet.

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

(*e*) If you own the land, describe any liens or encumbrances on it See continuation sheet

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

4. *Physical description.*—(*a*) Describe in detail any mining or exploration operations which have been or now are being conducted upon the land, including existing mine workings and production facilities. State your interest, if any, in such operations. Also describe accessibility of mine workings for examination purposes.

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades.

(*c*) Describe the geologic features of the property, including mineralization, type of deposit (vein, bedded, etc.), and your reasons for wishing to explore. Illustrate with maps or sketches. Send with your application (but not necessarily as a part of it) any geologic or engineering report, assay maps, or other technologic information you may have, indicating on each whether you require its return to you.

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

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

5. *The exploration pr*[illegible].—(*a*) State the mineral or minerals for w[illegible] you wish to explore Uranium

(*b*) Describe fully the proposed work, including a map or sketch of the property showing a plan (and cross sections if needed) of any present mine workings, and the location of the proposed exploration work as related to such features as contacts, veins, ore-bearing beds, etc.

(*c*) The work will start within 60 days and be completed within 12 months from the date of an exploration project contract.

(*d*) State the operating experience and background of the applicant with relation to the ability to carry out such exploration project, and also that of the person or persons who will supervise the operations.

6. *Estimate of costs.*—Furnish a detailed estimate of the costs of the proposed work (you will have to use a separate sheet), under the following headings. Add the totals under all headings to give the estimated total cost of the project:

(*a*) *Independent contracts.*—(Note.—If the applicant does not intend to let any of the work to contractors, write "none" after this item. To the extent that the work is to be contracted, do not repeat the cost of the contract-work in subsequent items.) State the cost of any proposed independent contracts for the performance of all or any part of the work, expressed in terms of units of work (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved, etc.).

(*b*) *Labor, supervision, consultants.*—Include an itemized schedule of numbers, classes and rates of wages, salaries or fees for necessary labor, supervision and engineering and geological consultants.

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

(*d*) *Operating equipment.*—Furnish an itemized list of any operating equipment to be rented, purchased, or which is owned and will be furnished by the Operator, with the estimated rental, purchase price, or suggested use-allowance based on present value, as the case may be.

(*e*) *Rehabilitation and repairs.*—Furnish a detailed list showing the cost of any necessary initial rehabilitation or repairs of existing buildings, installations, fixtures, and movable operating equipment, now owned by the Operator and which will be devoted to the exploration project.

(*f*) *New buildings, improvements, installations.*—Furnish a detailed list showing the cost of any necessary buildings, fixed improvements, or installations to be purchased, installed or constructed for the benefit of the exploration project.

(*g*) *Miscellaneous.*—Furnish a detailed list showing the cost of repairs to and maintenance of operating equipment (not including initial rehabilitation or repairs of the Operator's equipment), analytical work, accounting, workmen's compensation and employers' liability insurance, and payroll taxes.

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

NOTE.—No items of general overhead, corporate management, interest, taxes (other than payroll and sales taxes), or any other indirect costs, or work performed or costs incurred before the date of the contract, should be included in the estimate of costs.

7. (*a*) Are you prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation (Sec. 7, DMEA No. 1)?

(*b*) How do you propose to furnish your share of the costs?

☐ Money ☒ Use of equipment owned by you ☐ Other

Explain in detail on acompanying paper.

CERTIFICATION

The undersigned, whether as an individual, corporate officer, partner, or otherwise, both in his own behalf and acting for the applicant, certifies that the information set forth in this form and accompanying papers is correct and complete, to the best of his knowledge and belief.

Dated May 29th, 1953

THE MAYFLOWER COMPANY
(Applicant)

By [signature]
President

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

LEASE APPLICATION
Continuation Sheet

The MAYFLOWER COMPANY
523 Judge Building
Salt Lake City, Utah

1. (b) Not applicable.

1. (c) Officers of The Mayflower Company are as follows:

President	J. W. Randall	749 North 4th West Provo, Utah
Vice-President	J. R. Flyhman	Bountiful, Utah
Secretary-Treasurer	M. R. Richards	Bountiful, Utah

1. (d) Not applicable.

3. (a) Land upon which work is to be done consists of seven unpatented mining claims lying in unsurveyed Sections 28 and 29, T 28 S, R 19 E, SLB&M, San Juan County, Utah. The claims lie on a mesa extending eastwardly from the east side of Grand View Point. See Fig. 1 attached.

3. (b) The property is known only as the Sailor Group.

3. (c) The applicant holds an assignment of a lease upon Sailor Nos. 1, 2 and 3 Claims and Little Joe No. 1 Claim. An option to purchase is held upon Sailor Nos. 4, 5 and 6 Claims.

3. (d) Copies of the lease between Jack Turner and George R. Taylor, lessors, and Lawrence Migliaccio, lessee, and the assignment of the above lease from Lawrence Migliaccio to the Great Basin Oil and Leasing Company and The Mayflower Company upon Sailor Nos. 1, 2 and 3 and Little Joe No. 1 Claims are attached. Also attached are copies of an option to purchase agreement between Jack and Agnes Turner, owners, and I. E. Chale, upon 14 mining claims including Sailor Nos. 4, 5 and 6, upon which exploration is proposed, and an assignment by I. E. Chale of his interest in these claims to The Mayflower Company and the Great Basin Oil and Leasing Company. These copies need not be returned to the applicant.

3. (e) There are no liens or encumbrances against the claims to be included in the proposed exploration program. The claims are prior to an oil and gas lease granted on the area.

3. (f) The claims upon which work is proposed are filed in the San Juan County Courthouse, Monticello, Utah. The filing data is as follows:

Claim	Book	Page	Location Date	Filing Date
Little Joe No. 1	M4	36	July 30, 1951	July 25, 1951
Sailor No. 1	M4	36	July 16, 1951	July 25, 1951
Sailor No. 2	M4	37	July 16, 1951	July 25, 1951
Sailor No. 3	M4	37	July 16, 1951	July 25, 1951
Sailor No. 4	M4	37	July 16, 1951	July 25, 1951
Sailor No. 5	M4	38	July 16, 1951	July 25, 1951
Sailor No. 6	M4	38	July 16, 1951	July 25, 1951

4. (a) Exploration conducted by The Mayflower Company on the claims to the date of this application consists of driving two exploration adits on outcrops of uranium mineralization at points selected by geiger counter and with consideration of their accessibility. These are shown on Fig. 2 attached. In Adit No. 1, mineralization was followed throughout the length of the workings and marked increase of mineralization was noted where tree material or carbon was encountered. (A sample of approximately 1.0 feet of such material assayed 0.093% U_3O_8.) The total length of workings in Adit No. 1 is 150 feet at the date of application and work is continuing.

Adit No. 2 is a short adit, approximately 14 feet long, which exhibits some mineralization at the face and along the walls.

Wagon drill holes on a random pattern have been drilled in the mesa to depths sufficient to penetrate through the Shinarump formation into the underlying Moenkopi formation. Unfortunately, little factual data was gained from the holes, since radiometric equipment used in probing the holes was not properly calibrated. Mineralization was found in many holes, but the grade could not be established.

All the above work, as well as construction of an access road to the property, was done by The Mayflower Company at their own expense. Equipment for underground mining, including a portable compressor, drills, air jack legs and accessories, are presently on the property. This equipment, along with camp equipment, buildings, electric light plant and truck are property of The Mayflower Company.

All mine workings and surface outcrops are open and available for examination and sampling.

4. (b) No shipments have been made from the property. Any ore encountered in the current limited underground work is being stockpiled for shipment at a later date. The total stockpile is estimated to total approximately 15 tons of ore averaging 0.20% U_3O_8.

Underground ore reserves cannot be established from the limited amount of drifting accomplished to date. The difficulties in estimating the grade of mineralization encountered in the wagon drill holes obviates the possibility of estimating an ore reserve from the holes.

4. (c) The area which the applicant proposes to explore consists of a mesa capped with Triassic Shinarump formation consisting mainly of conglomerate and sandstone lenses with occasional irregular green-grey clay masses encountered. The lithologic character of the conglomerate and sandstone, along with the apparent scouring of the underlying lower Triassic Moenkopi formation indicates "channel" deposition frequently found in the Shinarump. Fig. 2 attached shows structure contours on the top of the Moenkopi formation which delineate the definite channel pattern observed in the area. This work was done by representatives of the Atomic Energy Commission and kindly furnished to the applicant to assist in planning exploration work.

4. (c) (Continued)

The uranium mineralization thus far encountered on the property occurs at or near the contact of the Shinarump with the underlying Moenkopi. The best mineralization observed on the property is associated with carbonaceous material, although in some areas the mineralization is consistent throughout appreciable thicknesses of conglomerate, sandstone, or clay. In the area of Sample 6, Fig. 2, count is consistently high over a length of approximately 50 feet in a conglomerate lens. In this area limonite and jarosite (?) were observed impregnating strata immediately above the mineralized zone. From cursory radiometric examination, this area appears to be the most strongly mineralized on the property. This area also exhibited the most consistent radiometric readings over its lateral extent and most constant thickness of any area observed. This area is the only fully exposed Shinarump Moenkopi contact in the length of proposed rim stripping shown on Fig. 2.

The only uranium minerals identified by megascopic examination were schreckingerite and possibly torbernite. No other uranium minerals could be recognized in most areas of high count.

A list of recently cut samples is included here as being indicative of the surface and near surface values. These samples are shown on Fig. 2.

Sample No.	Cut length	Description	$\%U_3O_8$
1.	1.0'	Cut of tree material Adit No. 1	0.093
2.	1.8'	Cut on stripped face on Little Joe No. 1	0.253
3.	2.6'	Cut of stripped face on Little Joe No. 1	0.046
4.	1.8'	Cut in Adit No. 2 near bottom of face	0.042
5.	1.2'	Cut on rim conglomerate and sandstone Sailor No. 3	0.087
6.	3.0'	Cut of conglomerate, sandstone and clay on rim	0.125

The above samples were assayed at Smith's Laboratory, Moab, Utah. Samples as high as 12% U_3O_8 have been taken from thin beds and from tree material.

The applicant wishes to continue the limited exploration work begun on the Sailor group of claims to determine the extent and grade of mineralization thought to underlie the main area of the mesa. The applicant

feels that further exploration is justified by the nature and extent of mineralization thus far encountered by recent underground work, by wagon drilling and by the existence of a definite channel extending through the mesa as shown by Atomic Energy Commission mapping. (See Fig. 2) Further, the area of the claims is a new and undeveloped section and any exploration will aid in proving the area as a whole. The interest evinced by the Atomic Energy Commission in the claims as indicated by their geologic mapping is encouraging to the applicant in continuing further work. The company's expenditures to date are indicative of their interest in and enthusiasm for the area.

4. (d) The property is accessible by improved and unimproved road from U. S. Highway 160 via Seven Mile Canyon and the Grand View Point road to the Neck, a point on Grand View Point, thence down a privately built road to the property. The total mileage from Moab, Utah, the closest town, is 55 miles, the last 26 of which is on the above mentioned private road. Approximately 20 miles of the last 26 miles were built by The Mayflower Company with no assistance from other operators nor state or Federal agencies. The road from the improved Grand View Point road may be travelled by light trucks and four wheel drive vehicles.

Ore mined on the property could be shipped to the Atomic Energy Commission's mill at Monticello, Utah, a distance of approximately 109 miles from the property, or to the United States Vanadium Corporation buying station at Thompson, Utah, a distance of approximately 70 miles from the property. The nearest rail shipping point is Crescent Junction, Utah, a siding on the Denver & Rio Grande Western Railroad, a distance of approximately 64 miles from the property.

Moab, Utah, is the closest supply and residence point to the property. Commissary supplies, small tools and mining supply items can be procured at Moab, and major equipment and repair can be obtained at Monticello, Utah.

The Mayflower Company has built two air strips near the property sufficiently long for four-passenger light aircraft.

4. (e) It is anticipated that sufficient labor will be available in Moab, Utah, to supply the needs of the proposed exploration project. Independent drilling contractors and bulldozing contractors are headquartered in Moab and Monticello, Utah, or Grand Junction, Colorado. Equipment is usually available on short notice.

Water for drilling and culinary uses must be hauled to the property from springs within a few miles of the property. The company anticipates building approximately three miles of road to the Colorado River if future developments warrant such an action. Two possible routes for such a road have been traversed on foot and found feasible.

Power for lights and small tools is generated at the property by a gasoline driven 110V, AC generator. No power line enters the area.

THE MAYFLOWER COMPANY
623 Judge Building
Salt Lake City, Utah

5. (a) The proposed exploration program is intended to explore for uranium.

5. (b) Consideration of a number of factors, including sampling, radiometric observation of the exposed Shinarump-Moenkopi contact, the Atomic Energy Commission geologists structure contour map and accessibility leads to a plan of exploration considered by the applicant to be effective for the area under consideration. The work consists of the following, and is shown on Fig. 2 attached:--

1. Rim Stripping. The Shinarump-Moenkopi contact is covered with talus over lengths of approximately 2400 linear feet on the north rim of the mesa to be explored and approximately 1000 linear feet on the south rim. The applicant proposes to uncover the contact in both these areas by bulldozing to determine if mineralization is present. The total rim stripping is 3400 linear feet.

2. Underground Drifting. The applicant proposes underground drifting at points on Sailor No. 5, Sailor No. 2 and Little Joe No. 1 Claims at places where good mineralization and favorable lithology indicate. This work will prove or disprove the extension of rim showings into the mesa. On Sailor No. 5, 300 linear feet of drifting on a pattern shown in Fig. 2 is proposed. On Sailor No. 2, 400 linear feet of drifting are proposed and on Little Joe No. 1, 300 linear feet of drifting are proposed. These total 1000 feet of underground drifting.

3. Wagon Drilling. Wagon drilling is proposed on the property to explore areas impractical to reach with underground drifting. The shallow holes resulting in frequent moves indicates the use of wagon drills rather than other types of equipment. The applicant will require the independent contractor to catch dust samples in suitable equipment so reliable assay results may be obtained and to allow calibration of radiometric equipment for probing the holes. The areas to be drilled are shown on Fig. 2. A summary of the holes and location are as follows:

Sailor Nos. 5 and 6 - 40 holes, 45 feet average =	1800 feet
Sailor Nos. 2, 3 and 4, - 60 holes, 50 feet average =	3000 feet
Total wagon drill hole footage	4800 feet

5. (c) The work will start within 60 days and be completed within 12 months from the date of the exploration project contract.

5. (d) The Mayflower Company has been engaged in mining in various districts in Utah for a number of years and is sufficiently experienced to conduct an exploration project as proposed in this application. The superintendent who will manage the field operations of the company in the area of the proposed project is Hall Thorn. Mr. Thorn worked for years in the Park City Mining District, mainly at the Silver King Coalition Mine, where he rose to the position of foreman of a section of this major operation. This, along with construction experience with the A. W. Clyde Co. of Springville, Utah, and other construction companies fit him to take complete charge

THE MAYFLOWER COMPANY
623 Judge Building
Salt Lake City, Utah

5. (a) Continued

of both surface and underground operations of the proposed exploration project.

6. Estimate of Costs. Discussions with DMEA representatives in the Salt Lake City office indicate the advisability of securing the "short form" contract for the exploration project which, the applicant understands, involves the combining of all costs incident to the project into an overall unit cost. The following summary attempts to do this. The costs are based upon past experience of the applicant and experience of others in similar areas.

Rim Stripping

2400 feet, north rim
1000 feet, south rim
3400 feet, total, at estimated $1.75 per foot — $ 5,950.

Underground Drifting

Sailor No. 5, 300 ft. at estimated $28.00 per ft.	8,400.	
Sailor No. 2, 400 ft. at estimated $28.00 per ft.	11,200.	
Little Joe No. 1, 300 ft. at estimated $28. per ft.	8,400.	
Total drifting costs		28,000.

Wagon Drilling - including roads and drill site preparation

Sailor Nos. 5 and 6, 40 holes, 45 ft. average depth	1800 ft.	
Sailor Nos. 2, 3 and 4, 60 holes, 50 ft. average "	3000 ft.	
Total footage	4800 ft.	
Cost of wagon drilling at estimated $2.00 per foot		9,600.
Access Road Improvement and Maintenance		2,500.
TOTAL ESTIMATED PROJECT COST		$ 46,050.

7. (a) Yes

7. (b) The applicant proposes to furnish his share of the project costs by use of equipment belonging to the applicant and by furnishing all labor and material necessary to pursue the work outlined, subject to reimbursement by the DMEA.

LEASE AND AGREEMENT

THIS LEASE AND AGREEMENT, made and entered into this 16th day of December, 1952, by and between JACK TURNER, Moab, Utah, and GEORGE R. TAYLOR, Twin Falls, Idaho, hereinafter referred to as LESSORS, AND LAWRENCE MIGLIACCIO, Price, Utah, hereinafter referred to as LESSEE,

W I T N E S S E T H:

That the Lessors in consideration of the royalties hereinafter reserved and by the Lessee to be paid and in consideration of the promises, agreements and covenants contained herein and by the Lessee to be kept and performed, hereby lease to the Lessee the following described unpatented mining claims located in San Juan county, Utah and all of which claims are particularly described in the notices of location, a copy of said notices having been recorded in the county recorder's office of San Juan county, Utah, and said notices as recorded are hereby incorporated in and made a part of this instrument by reference thereto and the names of said mining claims and the book and page where recorded being as follows:

Name of Claim	Book Recorded	Page
Little Joe No. 1	R-4	36
Sailor No. 1	R-4	36
Sailor No. 2	R-4	37
Sailor No. 3	R-4	37

TO HAVE AND TO HOLD the same unto the Lessee for a term of ten (10) years from the 16th day of December, 1952, until the 16th day of December, 1962, unless sooner terminated by the Lessors because of a violation by the Lessee of any of his obligations hereunder; provided that by mutual agreement of the parties hereto in writing, said term may be extended for an additional period of Ten (10) years.

That in consideration of the said leasing, the Lessee hereby covenants and agrees with the Lessors as follows:

1. To forthwith commence work on said mining claims in a diligent, continuous and workmanlike manner and in accordance with the common practice of mining followed in the general area where said mining claims are located.

2. To furnish at his own cost and expense, all the necessary tools, equipment and labor which shall be necessary in carrying out the proper mining of said claims.

3. To allow the Lessor or their agent or agents, at all reasonable times, to enter upon and into all parts of said property for the purpose of inspecting and sampling the same.

4. To give Lessors and their agents, access to all of Lessee's books and papers connected in any way with their operation upon said property and to make such reports as may be reasonably requested by Lessors.

5. To work and mine the property steadily and continuously during the term of this lease with not less than Fifty (50) shifts of work during each calendar month, commencing with the month of February, 1953, and continuing during the term hereof unless other arrangements are approved in writing by the Lessors or unless the Lessee is prevented from working and mining for reasons beyond his control. The word "shift" means the labor of one man for one day for at least eight hours.

6. (a) To pay and deliver to the Lessors, or cause to be paid to them, by the mill, smelter or other purchaser, as the case may be, Ten (10%) per cent of the gross value of all ores that may be mined, shipped or sold from the above described property, or any of it, during the term of this lease; for the purpose of calculating this royalty, development and haulage allowances shall be excluded from the gross value.

In addition to the royalty hereinabove provided, the Lessee agrees to pay to the Lessors, One-third (1/3) of any bonus of any type that may be hereafter paid or payable by the Government or any buyer for the location, discovery, mining or shipping of uranium or other ore on or from such property.

(b) To arrange for payments to be made directly to Lessor by the mill or smelter unless otherwise directed by the Lessors.

(c) To use all reasonable efforts to make, or arrange for the making, of all payments and settlements of royalties and bonuses hereunder and delivering of settlement sheets, directly to the Lessors, for all ores milled or sold during the proceeding calendar month, within Fifteen (15) days after the end of each month.

7. To assume any and all risk and responsibility for any damage or injury to persons or property that Lessee or any of his employees might sustain while mining said premises or carrying on any work or activities in connection therewith.

8. To comply with all the laws of the State of Utah and of the United States of America, while conducting his mining operations, and to keep and maintain Workmen's Compensation coverage and insurance as required by law; and in case of any claim or suit arising, made or filed in connection with or arising out of the operation of said mining premises, said Lessee will defend the same at his own expense and cost, and will hold Lessors harmless from liability therefrom and indemnify Lessors against all damage, loss, costs and expenses on account thereof; and to comply with the provisions of the Social Security Act as it applies to any person or persons employed by him on said mining premises or in connection with the operations contemplated by this agreement.

9. To pay promptly for all labor and supplies used or furnished by Lessee upon said premises and to defend against any claims or suits therefor at his own expense and cost and to hold Lessors harmless from liability and indemnify Lessors for any and all claims and liens for any such materials and labors.

10. Lessee agrees that prior to July 1st of each year, commencing July, 1953, and continuing during the term of this lease, he will perform, or caused to be performed, lawful assessment work upon said claims in such amount as may be required by law. Lessee shall further prepare and file a good and valid affidavit of annual labor and improvements as required by law, showing that such assessment work has been so performed, such affidavit to be filed with the county recorder of San Juan county, Utah, at the time and in the manner required by law for the filing of such affidavits. In the event the annual assessment work should hereafter be required prior to any other date than July of any year, Lessee shall perform such assessment work prior to such other date. In the event relief from performance of assessment work shall be allowed by law, any required affidavits or other actions for the purpose of protecting title to said mining claims shall be filed and recorded or accomplished by the Lessee.

11. The Lessee shall not assign or sublet said mining claims, or any part thereof, without first having obtained the written consent of the Lessors.

12. It is agreed that, upon the failure of the Lessee to keep, observe or perform any of the agreements or covenants

hereinabove to be kept, observed or performed by the Lessee, the term of this lease shall, at the option of the Lessors, expire, and the same, and the property hereby demised shall become forfeited to the Lessors; and the Lessors, or their agents or attorneys, may, thereupon, immediately after demand for possession, enter upon said property and dispossess all persons occupying the same, with or without force, and with or without process of law; or, at the option of the Lessors, the Lessee, and all persons found in occupation of the property, or any part thereof, may be proceeded against as guilty of unlawful detainer; provided further, however, that before any such forfeiture shall be declared and enforced, the Lessors shall notify the Lessee in writing of any such alleged breach of the agreements or covenants herein contained, setting forth in such notice a detailed description of any such alleged breach, and the Lessee shall have Sixty (60) days after the receipt of such notice within which to correct or rectify the same.

13. Any written notices provided for herein, shall be addressed with postage prepaid, as follows:

Notices to Lessors: To Jack Turner
Moab, Utah

Notices to Lessee: To Laurence Migliaccio
Price, Utah

14. Upon the termination of this lease, by expiration, surrender, or otherwise, the Lessee shall pay the Lessors any and all sums that may be due them under the terms hereof or because of the failure or neglect of the Lessee, or any persons acting under him, to keep, observe or perform all or any of the agreements or covenants hereof, upon the payment of which all parties shall be released from any further duties and obligations hereunder. Lessee further agrees to deliver up the leased property to the Lessors in good order and condition, it being specifically understood and agreed, however, that Lessee may remove any of his equipment and surface structures, including houses, office and surface and sub-surface machinery and equipment of every kind and character, except timbering.

IN WITNESS WHEREOF, the said parties have caused this instrument to be executed the day and year first above written.

Jack Turner

George R. Taylor

Lawrence Migliaccio

STATE OF UTAH,)
) ss
County of Grand.)

On the 16th day of December, 1952, personally appeared before me, Jack Turner and Lawrence Migliaccio, two of the signers of the above instrument, who duly acknowledged to me that they executed the same.

(Seal)

Wesley Davies
Notary Public, Residing at
Moab, Utah

My commission expires:
12-26-54

STATE OF IDAHO,)
) ss
County of Twin Falls)

On the 20th day of December, 1952, personally appeared before me, George R. Taylor, one of the signers of the above instrument, who duly acknowledged to me that he executed the same.

(Seal)

(S) W. A. Ostrander
Notary Public, Residing at

Twin Falls, Idaho

My commission expires:

August 26, 1954

C O N S E N T

Consent is hereby given to Lawrence Migliaccio to assign and sublet that certain lease and agreement dated December 16, 1952, entered into between Jack Turner, and George R. Taylor, as lessors, and Lawrence Migliaccio, as Lessee, together with the right to sublet the mining claims or any part thereof described in said lease and agreement.

This consent is limited to the assignment of said lease and agreement by Lawrence Migliaccio to GREAT BASIN OIL & LEASING CO., a corporation and the Mayflower Company, a corporation.

Dated this 16th day of December, 1952.

(s)
Jack Turner

George R. Taylor

ASSIGNMENT AND AGREEMENT

---oooOooo---

THIS AGREEMENT AND ASSIGNMENT made and entered into this 30th day of December, 1952, by and between Lawrence Migliaccio of Price, Utah, hereinafter designated First Party, and Great Basin Oil and Leasing Company, a Utah corporation, and the Mayflower Company, a Utah corporation, hereinafter designated Second Parties,

W I T N E S S E T H:

WHEREAS, First Party has entered into a Lease and Agreement under date of December 16, 1952, between Jack Turner and George R. Taylor, as Lessors and himself as Lessee, of four (4) unpatented mining claims located in San Juan County, State of Utah, an original copy of said Lease being attached hereto and made a part hereof and,

WHEREAS, First Party desires to assign said Lease and Agreement to Second Parties and has secured the written consent of said Assignment to Second Parties by the Lessors, a copy of which is hereto attached and made a part hereof,

NOW, THEREFORE, in consideration of the sum of $1.00 in hand paid and the mutual covenants herein contained, it is agreed by and between the Parties hereto as follows:

I

First Party has assigned, transferred and conveyed and by these presents does assign, transfer and convey, to Second Parties, their successors and assigns, all of his right, title and interest in and to said Lease and the properties therein described.

II

Second Parties hereby accept said assignment and do hereby agree to faithfully keep and perform all terms, conditions and obligations therein contained.

III

First Party agrees to work for and in behalf of the Second Parties in the development, operation and mining of the properties contained in said Lease and, as long as said employment continues, Second Parties agree to pay First Party 5% of the net profits realized by Second Parties in the operation of the properties contained in said Lease.

IN WITNESS WHEREOF, the First Party has hereunto set his hand and seal and the Second Parties have caused this instru-

ment to be executed by its duly authorized officers the day and year first above written.

(s) Lawrence Migliaccio
First Party

GREAT BASIN OIL AND LEASING CO.

By Dan B. Shields (s)
President

(Seal)
ATTEST

(s) Samuel Bernstein
Secretary

THE MAYFLOWER COMPANY

By L. E. Stein (s)
Vice President
Second Parties

(Seal)
ATTEST

(s) H. R. Richards
Secretary

STATE OF UTAH)
: ss
County of Salt Lake)

On this 30th day of December, 1952, personally appeared before me LAWRENCE MIGLIACCIO, signer of the foregoing instrument, who duly acknowledged to me that he executed the same.

(s) G. Vernon Langlois
NOTARY PUBLIC, residing at
Salt Lake City, Utah

(Seal)

My commission expires:

January 28, 1955

STATE OF UTAH)
: ss
County of Salt Lake)

On this 30th day of December, 1952, personally appeared before me Dan B. Shields and Samuel Bernstein, who being by me duly sworn did say that they are officers of the Great Basin Oil and Leasing Company, President and Secretary respectively, and that the foregoing instrument was signed in behalf of said corporation by resolution of its Boards of Directors and said Dan B. Shields and Samuel Bernstein acknowledged to me that said corporation executed the same.

IN WITNESS WHEREOF, I have here unto attached my hand and seal this 30th day of December, 1952.

(s) Louis D. Tannenbaum
NOTARY PUBLIC Residing at
Salt Lake City, Utah

(Seal)
My commission expires:

June 24, 1956

STATE OF UTAH)
: ss
County of Salt Lake)

On this 30th day of December, 1952, personally appeared before me L. E. Stein and Ross Richards, who being by me duly sworn did say that they are officers of the Mayflower Company, Vice President and Secretary respectively, and that the foregoing instrument was signed in behalf of said corporation by resolution of its Board of Directors and said L. E. Stein and Ross Richards acknowledged to me that said corporation executed the same.

IN WITNESS WHEREOF, I have hereunto attached my hand and seal this 30th day of December, 1952.

(s) Louis D. Tannenbaum
NOTARY PUBLIC, residing at
Salt Lake City, Utah

(Seal)
My commission expires:

June 24, 1956

THIS AGREEMENT made this 17th day of March, 1953, by and between Jack Turner of Moab and I. E. Shale of San Mateo, California.

Jack Turner is the owner of approximately fourteen (14) valid lode mining claims located before certain Oil and Gas leases were applied for and three (3) lode mining claims located after oil and gas leases were granted.

All seventeen (17) claims situated in San Juan County, Utah, south of the neck on the East Rim between the Neck and Junction Butte.

Jack Turner grants to I. E. Shale an option of purchase for the sum of six hundred ($600.00) Dollars, receipt of which is hereby acknowledged.

I. E. Shale shall pay Jack Turner the sum of $6900.00 on or before 120 days from this date and the sum of $7500.00 on or before 120 days thereafter, making the full purchase price for these seventeen (17) claims $15,000.00. When this total sum of $15,000.00 has been received by Jack Turner, Turner agrees to deliver to I. E. Shale a good and sufficient deed for the seventeen (17) claims.

Failure on I. E. Shale's part to make any payment, Jack Turner shall receive all monies paid as liquidated damages.

(s) Jack Turner

(s) I. E. Shale

(s) Jeanette D. Day
Witness for Three Signatures

(s) Agnes E. Turner
Jack Turner's Wife

SEVENTEEN CLAIMS

GREEN ROCK - Located August 6th, 1951
Situated: Southerly from 3 Rock Spires and Southwesterly of Trail coming out of Grays Pasture to White Rim. San Juan County, Utah

GREEN ROCK #2 - Located August 6th, 1951
Situated: Southerly from 3 Rock Spires and Southwesterly of trail coming out of Grays Pasture to White Rim. San Juan County, Utah

MESA #1 - Located July 21st, 1951
Situated: About 3 miles airline Northerly of Lathrop Trail about midway of Grand View Point under East Side of Grand View Rim. San Juan County, Utah

MESA NO. 2 - Located July 21, 1951
Situated: About 3 miles airline Northerly of Lathrop trail about midway of Grand View Point under East side of Grand View Rim. San Juan County, Utah

MESA NO. 3 - Located July 21st, 1951
Situated: About 3 miles airline Northerly of Lathrop trail about midway of Grand View Point under East side of Grand View Rim. San Juan County, Utah

MESA NO. 4 - Located July 21st, 1951
Situated: About 3 miles airline Northerly of Lathrop trail about midway of Grand View Point under East side of Grand View Rim. San Juan County, Utah

BIG FOUR - Located July 20, 1951
Situated about 2 miles Northerly of Lathrop trail going off end of Grand View Point. San Juan County, Utah

BIRD LEG NO. 1 - Located July 17, 1951
Situated: 1 mile Easterly of Lathrop trail under Southeast end of Grand View Point. San Juan County, Utah

BIRD LEG NO. 2 - Located July 17, 1951
Situated: About 1 mile Easterly of Lathrop trail under South East end of Grand View Point. San Juan County, Utah

LITTLE JOE NO. 1 - Located July 20th, 1951
Situated: About 1 mile Northerly of Lathrop trail going off end of Grand View Point. San Juan County, Utah

RED ROCK NO. 1 - Located July 18th, 1951
Situated: Under South end of Grand View Point about ½ mile from White Rim. San Juan County, Utah

SAILOR NO. 1 - Located July 16th, 1951
Situated: 1 mile Northeasterly from Lathrop trail going off end of Grand View Point. San Juan County, Utah.

SEVENTEEN CLAIMS, Con't.

SAILOR NO. 2 - Located July 16th, 1951
Situated: 1 mile North Easterly from Lathrop trail going from end of Grand View Point. San Juan County, Utah

SAILOR NO. 3 - Located July 16th, 1951
Situated: 1 mile Northeasterly from Lathrop trail going off end of Grand View Point. San Juan County, Utah

SAILOR NO. 4 - Located July 16th, 1951
Situated: 1 mile Northeasterly from Lathrop trail going off end of Grand View Point. San Juan County, Utah

SAILOR NO. 5 - Located July 16th, 1951
Situated: 1 Mile Northeasterly from Lathrop Trail going off end of Grand View Point. San Juan County, Utah

SAILOR NO. 6 - Located July 16th, 1951
Situated: 1 mile North Easterly from Lathrop Trail going off end of Grand View Point. San Juan County, Utah

A S S I G N M E N T

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, the undersigned, I.E. SHALE, on the 17th day of March, 1953, entered into a written agreement with JACK TURNER of Moab, Utah, wherein I was granted the first right and option to purchase seventeen (17) unpatented mining claims, located in San Juan County, Utah, south of the Neck on the east rim, between The Neck and Junction Butte, for the purchase price of $15,000.00, and desire to assign said option agreement to the Mayflower Company, a Utah Corporation, and the Great Basin Oil and Leasing Company, a Utah Corporation,

NOW THEREFORE, in consideration of the sum of ten dollars ($10.00) and other good and valuable consideration, receipt of which is hereby acknowledged, I do hereby sell, assign, transfer and convey all of my right, title and interest in and to said option agreement, and the seventeen (17) unpatented mining claims therein described, to the MAYFLOWER COMPANY, a Utah Corporation, and to the GREAT BASIN OIL AND LEASING COMPANY, their successors, and assigns.

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 15th day of April, 1953.

I. E. Shale (s)

I. E. SHALE

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

DEPARTMENT OF THE INTERIOR
Defense Administration
SIGNED
FEB - 4 1954

224 New Customhouse
Denver 2, Colorado

January 28, 1954.

Memorandum

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

From: Field Team, Region IV

Subject: Report of Examination - DMEA Docket No. 3069 (Uranium), Mayflower Company, Sailor and Little Joe, San Juan County, Utah.

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

The applicant requested exploration assistance in stripping, drifting and wagon drilling which he estimated would cost $46,050.00.

Geologically it is believed that the Shinarump conglomerate is unfavorable for ore in this area and we recommend that the application be denied.

W. H. King

W. H. King

A. H. Koschmann

A. H. Koschmann

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE

2-8-54
(Date)

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 4 1954

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

WASHINGTON 25, D. C.
Denver Federal Center
Denver 2, Colorado

November 12, 1953

Memorandum

To: DMEA Field Team, Region IV

From: A. H. Koschmann

Subject: DMEA Docket 3.59, Mayflower Company, Sailor and Little Joe group of claims, San Juan County, Utah

Attached are 11 copies of the geologic report by W. I. Finch, U. S. Geological Survey, covering the subject docket.

It has been recommended that the application for exploration assistance be denied.

E. N. Hershman
for A. H. Koschmann
Supervising Geologist
Colorado-Wyoming

Enclosures (11)

Reviewed by
DMEA OPERATING COMMITTEE
2-8-54
(date)

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

November 10, 1953

MEMORANDUM

To: A. H. Koschmann
DMEA Field Team, Region IV

From: R. P. Fischer
Acting Supervisor, Colorado Plateau District

Subject: DMEA Docket 3069, Mayflower Company, Sailor and Little Joe group of claims, San Juan County, Utah.

Transmitted herewith are eleven copies of a geologic report on the Mayflower Company's Sailor and Little Joe group of claims, San Juan County, Utah. The company applied for assistance to explore for uranium deposits in the Shinarump conglomerate by 3,400 feet of bulldozer stripping, 1,000 feet of underground drifting and 4,800 feet of wagon drilling at an estimated cost of $46,050.

The attached report was prepared by W. I. Finch and is based on a field examination made jointly with W. Young, Bureau of Mines, October 28, 1953. The application was discussed with the Atomic Energy Commission's field geologists who have studied the geology of the area concerned, and they concur in general with the appraisal made by the examing field team.

Finch concludes that the applicant has little chance of discovering minable deposits because (1) geologically the Shinarump conglomerate is relatively unfavorable for ore in the area examined, and (2) the applicant has done considerable exploration in this area without discovering new minable ore bodies. Finch recommends that the application be denied. I concur with his recommendation.

Sincerely yours,

R. P. Fischer

R. P. Fischer
Acting District Supervisor
Colorado Plateau District

Enclosures (11)

Reviewed by
DMEA OPERATING COMMITTEE
2-8-54
(date)

UNITED STATES DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

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

DMEA 3069 (Uranium)

The Mayflower Company, Sailor and Little Joe group of claims
San Juan County, Utah

Geologic report

Warren I. Finch, Geologist
Geological Survey

November 10, 1953

Reviewed by
DMEA OPERATING COMMITTEE
2-8-54
(date)

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ILLUSTRATIONS

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2. Map of geology and proposed exploration Sailor group of claims, Mayflower Company, San Juan County, Colorado . . . . . .(in back of report)

TABLE

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DMEA 3069

THE MAYFLOWER COMPANY, SAILOR AND LITTLE JOE GROUP OF CLAIMS, SAN JUAN COUNTY, UTAH

INTRODUCTION AND SUMMARY

The Mayflower Company, 623 Judge Building, Salt Lake City, Utah, has applied (DMEA 3069) to the Defense Minerals Exploration Administration for financial assistance to explore for uranium in the area between the Colorado and Green Rivers, San Juan County, Utah (fig. 1). The company holds an assignment of a lease on the Sailor Nos. 1, 2, and 3 claims and the Little Joe No. 1 claim and option to purchase the Sailor Nos. 4, 5, and 6 claims, all in secs. 28, 29 (unsurveyed), T. 28 S., R. 19 E., Salt Lake base and meridian. These seven unpatented mining claims are a contiguous group on the west side of the Colorado River about 20 miles southwest of Moab, Utah. The property is reached from Moab, Utah, by traveling 12 miles north on U. S. Highway 160, then west and south 18 miles on the Dead Horse Point road to "The Neck", and then down Shaeffer trail, an extremely steep and hazardous road, for 26 miles. The property is about 110 miles from the Monticello mill.

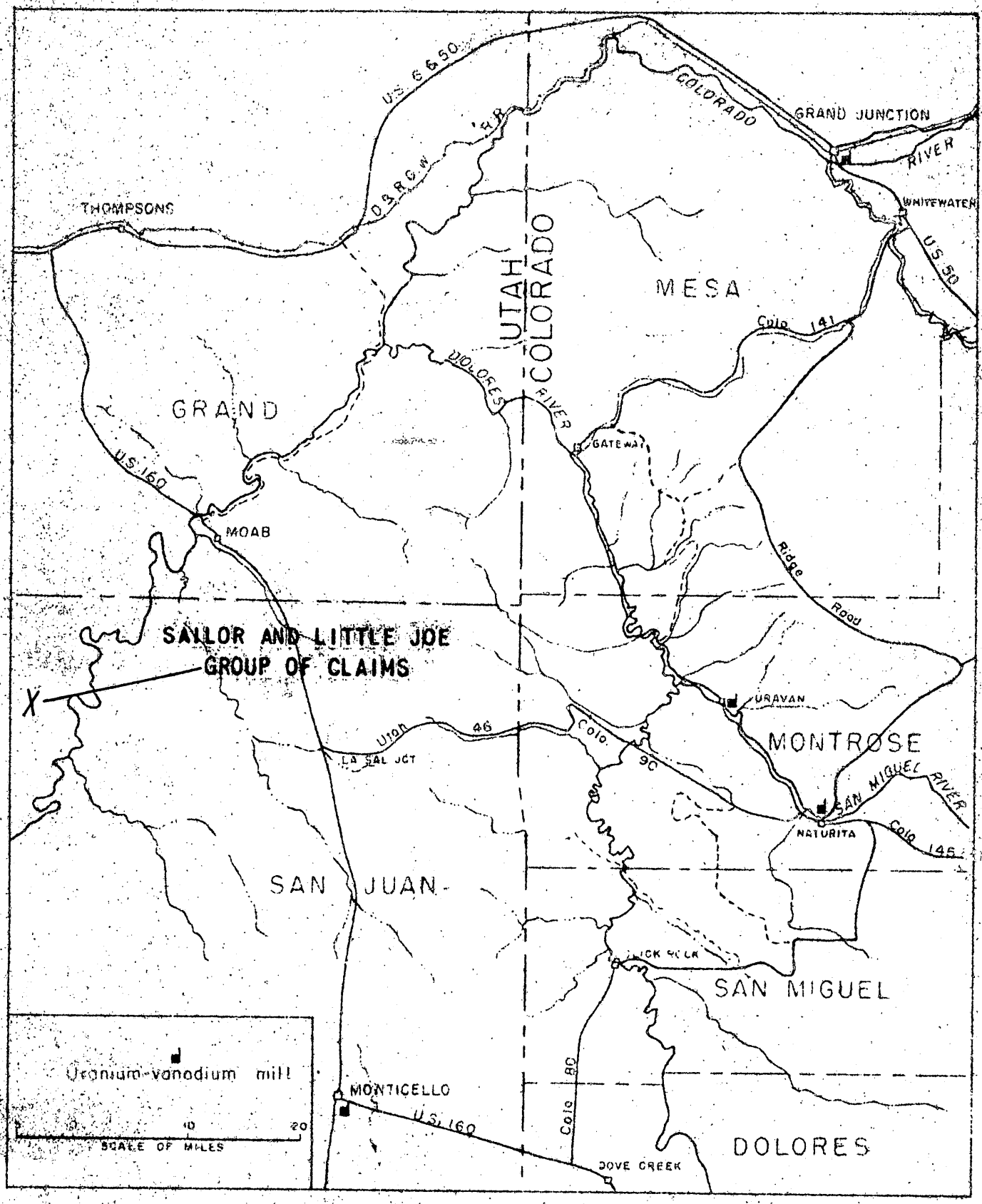

Figure 1. INDEX MAP OF PART OF THE COLORADO PLATEAU SHOWING THE LOCATION OF THE SAILOR AND LITTLE JOE GROUP OF CLAIMS, SAN JUAN COUNTY, UTAH

The ore-bearing zone is in the lower part of the Triassic Shinarump conglomerate which forms a mesa in the claimed area. Considerable rim stripping, drifting, and wagon drilling has been done by the applicant in the proposed area of exploration. Only small pockets of ore-grade material were discovered as the result of this work. The lime content of the ore is much greater than 6 percent, which imposes a penalty on the purchase of the ore, and may be as high as 30 percent.

The applicant proposed about 3,400 feet of rim stripping, 1,300 feet of drifting, and 4,800 feet of wagon drilling (fig. 2). The estimated cost of this work is $46,050, of which the Government participation would be $41,445.

The claims were examined on October 28, 1953, by W. Young, of the U. S. Bureau of Mines, and W. I. Finch, of the U. S. Geological Survey in company with H. Thorne, Foreman of The Mayflower Company. The field examiners are agreed that the amount and negative results of exploration conducted to date by the applicant, the extensive essentially barren outcrop of the ore-bearing bed, and the geologically unfavorable character of the ore-bearing bed makes it very unlikely that the applicant's proposed program will result in the discovery of ore deposits of size and grade sufficient to be economic and to warrant the estimated expenditure. It is recommended, therefore, that the application be denied.

W. Y. Isachsen and R.L. Redmond, geologists for the Atomic Energy Commission and responsible for the Commission's geologic work in this part of the San Juan County area, were consulted on whether they believe the applicant's proposed work is justified. Although they differ with the writer to some extent on the question of whether channels are present in the area examined, they agree that neither the proposed rim stripping nor the drifting is warranted and that the applicant has already wagon-drilled the most favorable ground without discovering any minable ore bodies.

Figure 2 of this report is slightly modified from the base map submitted with the applicant's brochure.

GEOLOGY

The area of the Sailor and Little Joe group of claims is in the deep canyon and plateau country southwest of Moab, Utah. Maximum relief in the area is over 2,000 feet in a distance of four miles. Rocks exposed in the area of the claims consist of sedimentary beds of Triassic age. The rocks in the area examined are essentially flat-lying.

The Moenkopi formation, Shinarump conglomerate, and lower beds of Chinle formation, all of Triassic age, crop out in the claimed area. The Shinarump conglomerate caps a small peninsula-like mesa which juts out from a 1,000 foot cliff formed by higher formations.

The Moenkopi formation consists mainly of red siltstone and fine-grained sandstone. The upper 1 to 3 feet of the Moenkopi is bleached to light-green in color locally near uranium-bearing rock. The upper surface of the Moenkopi is irregular with local scours as much as 6 feet deep. Structural contours on this surface mapped by the Atomic Energy Commission were interpreted as channel scours (fig. 2). However, these relatively shallow channels (not readily observed by eye) do not project to outcrops 500 to 1,000 feet away. Thus, the writer believes that the proposed scours represent irregularities in the Moekopi surface rather than channels.

The Shinarump conglomerate consists mainly of thinly bedded and cross-bedded coarse to conglomeratic sandstone interbedded with mudstone. The rocks are gray, green, and brown in color; are well cemented with lime; and appear to be impermeable. Pebbles consist of chert, quartzite, quartz, limestone, and sandstone. The Shinarump sandstone in this area is dirty compared to the clean Shinarump sandstones which are considered as being favorable for ore deposits. The nearest channels are about 5 miles to the north. Because no definite channels were observed in the area examined, it is believed the Shinarump is relatively unfavorable for ore deposits in this ground. Gypsum, limonite, and carbonaceous material are abundant in the Shinarump beds.

The Shinarump, which averages 35 feet in thickness, grades into the overlying thinly bedded limy fine-grained sandstone and mudstones of the Chinle formation. A maximum thickness of 40 feet of the Chinle is exposed in the area examined.

ORE DEPOSITS

In the general area of the Sailor and Little Joe group of claims, significant uranium deposits are found near the base of Shinarump channels filled with relatively clean conglomeratic sandstone and mudstone. These channels cut into the Moenkopi 10 to 20 feet and can be traced as far as 2,500 feet. Some carbonaceous material is associated with the ore. Pitchblende is the dominant uranium mineral and is associated with copper sulfides and pyrite. These deposits range in size from a few hundred tons to several thousand tons.

Uranium-bearing material in the Sailor and Little Joe group of claims consists mostly of radioactive carbonaceous material near the Shinarump-Moenkopi contact. Yellow uranium minerals were observed in some of the carbonaceous material, but no uranium minerals were found impregnating the surrounding rock. Uranium-bearing material of ore grade consists mostly of carbonaceous seams, fragments of wood, and carbonaceous trash accumulations. The ore seams, or pockets, are small and minable thickness and continuity of ore-grade rock are lacking. Based upon extensive study of uranium deposits elsewhere in the Shinarump conglomerate, it is believed very unlikely that ore deposits greater than 50 tons are present in the Sailor and Little Joe group of claims.

Samples taken by the applicant and the Atomic Energy Commission are shown in table 1. The ore-grade samples range from 0.11 to 0.253 percent U_3O_8. Radiometric analyses of four samples indicate that the uranium is nearly in equilibrium. The lime content of these four samples averages about 30 percent (estimated "high lime" penalties would be $2.20 per ton of ore).

EXPLORATION COMPLETED BY APPLICANT

About 500 feet of rim stripping, 165 feet of drifting, and 148 wagon-drill holes have been completed by the applicant. None of this exploration disclosed ore bodies of minable size. About 15 tons of ore averaging about 0.20 percent U_3O_8 has been mined from two adits, 150 feet and 14 feet long respectively on the Sailor and Little Joe group. This ore is stockpiled at the claim site. Holes were wagon-drilled behind known mineralized outcrops and along one scour interpreted as a channel by the Atomic Energy Commission (fig. 2). Some of the holes were logged by a radiometric unit, and traces of mineralization reported in a few holes. Many of the holes were not logged because the holes closed before the unit was available. Systematic sampling was not done by the applicant

Table 1. Assays of samples from the Sailor and Little Joe group of claims reported by the applicant and the Atomic Energy Commission 1/

Sample No. applicants	Thickness samples	Location and description	Assay in Percent U_3O_8	eU_3O_8	Cu	$CaCO_3$
1	1.0	Cut of tree material Adit No. 1	0.093	-	-	-
2	1.8	Cut on stripped face Little Joe No. 1	0.253	-	-	-
3	2.6	Cut of stripped face Little Joe No. 1	0.046	-	-	-
4	1.8	Cut in Adit No. 2 near bottom of face	0.042	-	-	-
5	1.2	Cut on rim, conglomerate and sandstone, Sailor No. 3	0.087	-	-	-
6	3.0	Cut of conglomerate, sandstone, and clay on rim	0.125	-	-	-
AEC samples						
23914	1.0	East Adit- carbonaceous conglomerate sandstone and mudstones	0.01	0.02	.10	44.9
23915	1.5	Station #36 carbonaceous conglomerate	0.07	0.13	.06	43.7
23916	1.0	West Adit carbonaceous conglomerate	0.11	0.10	.01	29.6
23922	1.0	Drill hole #125, 27-28 foot interval, sample No. 3	0.01	Trace	-	9.6

1/ Approximate location of sample points shown on figure 2.

PROPOSED EXPLORATION

The applicant proposes about 3,400 feet of rim stripping, 1,300 feet of drifting, and 4,800 feet of wagon drilling (fig. 2). Field examination disclosed that only about 800 feet of the proposed rim stripping would be necessary, as the remainder of the rim is sufficiently exposed for prospecting. Because there are no minable ore bodies present in the large amount of outcrop exposures of the ore-bearing unit, additional rim stripping is believed to be unjustified. Most of the ground to be tested by drifting could be explored at 75 percent less cost by wagon drilling, but exploration of this ground is not warranted because of geologically unfavorable sandstone, and because the deposits that might be expected would be small, widely scattered and uneconomic. Wagon drilling has already been done in much of the ground considered most favorable for ore in the area examined. No ore bodies were discovered by this drilling; hence it is believed that no additional wagon drilling as proposed by the applicant is justified.

CONCLUSIONS AND RECOMMENDATIONS

An application has been received for DMEA (uranium) assistance to explore the Sailor and Little Joe group of claims, San Juan County, Utah. These claims belong to the Mayflower Company of Salt Lake City, Utah.

The uranium deposits in the Sailor and Little Joe group are very small and widely scattered in the basal part of the Triassic Shinarump conglomerate.

The uranium-bearing material consists mostly of radioactive carbonaceous material. No distinct Shinarump channels were observed and the ground is considered to be relatively unfavorable geologically for the occurrence of economic ore deposits.

Two adits, 150 feet and 14 feet long, respectively, driven by the applicant in the Sailor and Little Joe group have yielded approximately 15 tons of stockpiled ore estimated to contain 0.20 percent U_3O_8. Of several mineralized samples collected by the applicant and by the Atomic Energy Commission, only three were ore grade on the basis of chemical assays. These three samples contained from 0.11 to 0.253 percent U_3O_8. The lime content of the ore is estimated to be very high, maybe as high as 30 percent, which will impose a penalty (estimated at $2.20 per ton of ore) on the ore shipped to mill.

The applicant has completed 500 feet of rim stripping and 148 wagon-drill holes without finding ore bodies of minable size.

In this application, about 3,400 feet of rim stripping, 1,300 feet of drifting, and 4,800 feet of wagon drilling is proposed. None of this exploration is believed to be realistic or justified because of the following:

1. Deposits of more than 50 tons are not expected in the area examined because the Shinarump is relatively unfavorable geologically for the occurrence of ore.

2. Deposits less than 50 tons would be uneconomic back of the rim, and probably also at the rim because of high transportation costs and penalties imposed on the lime content of the ore.

3. No minable ore bodies have been found by appreciable wagon drilling and rim stripping already done by the applicant, and no economic deposits have been discovered along the large amount of outcrop exposure of the ore-bearing zone. The ore-bearing zone is adequately exposed along 2,600 feet of outcrop included in the 3,400 feet of rim stripping proposed by the applicant.

For these reasons it is believed that Government participation in further exploration of the Sailor and Little Joe group is not justified, and it is recommended that the application be denied.

ROOM 13, POST OFFICE BLDG.
KNOXVILLE 2, TENN.

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

OFFICIAL BUSINESS

Mr. George C. Selfridge, C
Operating Committee, D.
Dept. of the Interior
Washington 25, D. C.

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
JUN 8 1953

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. 3069
Metal or Mineral
Date Received 6/8/53
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: The Mayflower Company, 623 Judge Building, Salt Lake City, Utah, a corporation duly organized and existing under and by virtue of the laws of the State of 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 See attached continuation sheet.

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

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise See attached continuation sheet.

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

(*e*) If you own the land, describe any liens or encumbrances on it See continuation sheet

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

4. *Physical description.*—(*a*) Describe in detail any mining or exploration operations which have been or now are being conducted upon the land, including existing mine workings and production facilities. State your interest, if any, in such operations. Also describe accessibility of mine workings for examination purposes.

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades.

(*c*) Describe the geologic features of the property, including mineralization, type of deposit (vein, bedded, etc.), and your reasons for wishing to explore. Illustrate with maps or sketches. Send with your application (but not necessarily as a part of it) any geologic or engineering report, assay maps, or other technologic information you may have, indicating on each whether you require its return to you.

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

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

5. *The exploration project.*—(*a*) State the mineral or minerals for which you wish to explore Uranium

(*b*) Describe fully the proposed work, including a map or sketch of the property showing a plan (and cross sections if needed) of any present mine workings, and the location of the proposed exploration work as related to such features as contacts, veins, ore-bearing beds, etc.

(*c*) The work will start within 60 days and be completed within 12 months from the date of an exploration project contract.

(*d*) State the operating experience and background of the applicant with relation to the ability to carry out such exploration project, and also that of the person or persons who will supervise the operations.

6. *Estimate of costs.*—Furnish a detailed estimate of the costs of the proposed work (you will have to use a separate sheet), under the following headings. Add the totals under all headings to give the estimated total cost of the project:

(*a*) *Independent contracts.*—(Note.—If the applicant does not intend to let any of the work to contractors, write "none" after this item. To the extent that the work is to be contracted, do not repeat the cost of the contract-work in subsequent items.) State the cost of any proposed independent contracts for the performance of all or any part of the work, expressed in terms of units of work (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved, etc.).

(*b*) *Labor, supervision, consultants.*—Include an itemized schedule of numbers, classes and rates of wages, salaries or fees for necessary labor, supervision and engineering and geological consultants.

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

(*d*) *Operating equipment.*—Furnish an itemized list of any operating equipment to be rented, purchased, or which is owned and will be furnished by the Operator, with the estimated rental, purchase price, or suggested use-allowance based on present value, as the case may be.

(*e*) *Rehabilitation and repairs.*—Furnish a detailed list showing the cost of any necessary initial rehabilitation or repairs of existing buildings, installations, fixtures, and movable operating equipment, now owned by the Operator and which will be devoted to the exploration project.

(*f*) *New buildings, improvements, installations.*—Furnish a detailed list showing the cost of any necessary buildings, fixed improvements, or installations to be purchased, installed or constructed for the benefit of the exploration project.

(*g*) *Miscellaneous.*—Furnish a detailed list showing the cost of repairs to and maintenance of operating equipment (not including initial rehabilitation or repairs of the Operator's equipment), analytical work, accounting, workmen's compensation and employers' liability insurance, and payroll taxes.

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

NOTE.—No items of general overhead, corporate management, interest, taxes (other than payroll and sales taxes), or any other indirect costs, or work performed or costs incurred before the date of the contract, should be included in the estimate of costs.

7. (*a*) Are you prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation (Sec. 7, DMEA No. 1)?

(*b*) How do you propose to furnish your share of the costs?

☐ Money ☒ Use of equipment owned by you ☐ Other

Explain in detail on acompanying paper.

CERTIFICATION

The undersigned, whether as an individual, corporate officer, partner, or otherwise, both in his own behalf and acting for the applicant, certifies that the information set forth in this form and accompanying papers is correct and complete, to the best of his knowledge and belief.

Dated May 29th, 1953

THE MAYFLOWER COMPANY
(Applicant)

By J. B. Cauwell
President

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

DMGA APPLICATION
Continuation Sheet

THE MAYFLOWER COMPANY
323 Judge Building
Salt Lake City, Utah

1. (b) Not applicable.

1. (c) Officers of The Mayflower Company are as follows:

President	J. W. Randall	749 North 4th West Provo, Utah
Vice-President	J. R. Flyhman	Bountiful, Utah
Secretary-Treasurer	M. R. Richards	Bountiful, Utah

1. (d) Not applicable.

3. (a) Land upon which work is to be done consists of seven unpatented mining claims lying in unsurveyed Sections 28 and 29, T 28 S, R 19 E, SLB&M, San Juan County, Utah. The claims lie on a mesa extending eastwardly from the east side of Grand View Point. See Fig. 1 attached.

3. (b) The property is known only as the Sailor Group.

3. (c) The applicant holds an assignment of a lease upon Sailor Nos. 1, 2 and 3 Claims and Little Joe No. 1 Claim. An option to purchase is held upon Sailor Nos. 4, 5 and 6 Claims.

3. (d) Copies of the lease between Jack Turner and George R. Taylor, lessors, and Lawrence Migliaccio, lessee, and the assignment of the above lease from Lawrence Migliaccio to the Great Basin Oil and Leasing Company and The Mayflower Company upon Sailor Nos. 1, 2 and 3 and Little Joe No. 1 Claims are attached. Also attached are copies of an option to purchase agreement between Jack and Agnes Turner, owners, and I. E. Shale, upon 14 mining claims including Sailor Nos. 4, 5 and 6, upon which exploration is proposed, and an assignment by I. E. Shale of his interest in these claims to The Mayflower Company and the Great Basin Oil and Leasing Company. These copies need not be returned to the applicant.

3. (e) There are no liens or encumbrances against the claims to be included in the proposed exploration program. The claims are prior to an oil and gas lease granted on the area.

3. (f) The claims upon which work is proposed are filed in the San Juan County Courthouse, Monticello, Utah. The filing data is as follows:

Claim	Book	Page	Location Date	Filing Date
Little Joe No. 1	R4	36	July 30, 1951	July 25, 1951
Sailor No. 1	R4	36	July 16, 1951	July 25, 1951
Sailor No. 2	R4	37	July 16, 1951	July 25, 1951
Sailor No. 3	R4	37	July 16, 1951	July 25, 1951
Sailor No. 4	R4	37	July 16, 1951	July 25, 1951
Sailor No. 5	R4	38	July 16, 1951	July 25, 1951
Sailor No. 6	R4	38	July 16, 1951	July 25, 1951

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4. (a) Exploration conducted by The Mayflower Company on the claims to the date of this application consists of driving two exploration adits on outcrops of uranium mineralization at points selected by geiger counter and with consideration of their accessibility. These are shown on Fig. 2 attached. In Adit No. 1, mineralization was followed throughout the length of the workings and marked increase of mineralization was noted where tree material or carbon was encountered. (A sample of approximately 1.0 feet of such material assayed 0.093% U_3O_8.) The total length of workings in Adit No. 1 is 150 feet at the date of application and work is continuing.

Adit No. 2 is a short adit, approximately 14 feet long, which exhibits some mineralization at the face and along the walls.

Wagon drill holes on a random pattern have been drilled in the mesa to depths sufficient to penetrate through the Shinarump formation into the underlying Moenkopi formation. Unfortunately, little factual data was gained from the holes, since radiometric equipment used in probing the holes was not properly calibrated. Mineralization was found in many holes, but the grade could not be established.

All the above work, as well as construction of an access road to the property, was done by The Mayflower Company at their own expense. Equipment for underground mining, including a portable compressor, drills, air jack legs and accessories, are presently on the property. This equipment, along with camp equipment, buildings, electric light plant and truck are property of The Mayflower Company.

All mine workings and surface outcrops are open and available for examination and sampling.

4. (b) No shipments have been made from the property. Any ore encountered in the current limited underground work is being stockpiled for shipment at a later date. The total stockpile is estimated to total approximately 15 tons of ore averaging 0.20% U_3O_8.

Underground ore reserves cannot be established from the limited amount of drifting accomplished to date. The difficulties in estimating the grade of mineralization encountered in the wagon drill holes obviates the possibility of estimating an ore reserve from the holes.

4. (c) The area which the applicant proposes to explore consists of a mesa capped with Triassic Shinarump formation consisting mainly of conglomerate and sandstone lenses with occasional irregular green-grey clay masses encountered. The lithologic character of the conglomerate and sandstone, along with the apparent scouring of the underlying lower Triassic Moenkopi formation indicates "channel" deposition frequently found in the Shinarump. Fig. 2 attached shows structure contours on the top of the Moenkopi formation which delineate the definite channel pattern observed in the area. This work was done by representatives of the Atomic Energy Commission and kindly furnished to the applicant to assist in planning exploration work.

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4. (c) (Continued)

The uranium mineralization thus far encountered on the property occurs at or near the contact of the Shinarump with the underlying Moenkopi. The best mineralization observed on the property is associated with carbonaceous material, although in some areas the mineralization is consistent throughout appreciable thicknesses of conglomerate, sandstone, or clay. In the area of Sample 6, Fig. 2, count is consistently high over a length of approximately 50 feet in a conglomerate lens. In this area limonite and jarosite (?) were observed impregnating strata immediately above the mineralized zone. From cursory radiometric examination, this area appears to be the most strongly mineralized on the property. This area also exhibited the most consistent radiometric readings over its lateral extent and most constant thickness of any area observed. This area is the only fully exposed Shinarump Moenkopi contact in the length of proposed rim stripping shown on Fig. 2.

The only uranium minerals identified by megascopic examination were schreckingerite and possibly torbernite. No other uranium minerals could be recognized in most areas of high count.

A list of recently cut samples is included here as being indicative of the surface and near surface values. These samples are shown on Fig. 2.

Sample No.	Cut length	Description	$\%U_3O_8$
1.	1.0'	Cut of tree material Adit No. 1	0.093
2.	1.8'	Cut on stripped face on Little Joe No. 1	0.253
3.	2.6'	Cut of stripped face on Little Joe No. 1	0.046
4.	1.8'	Cut in Adit No. 2 near bottom of face	0.042
5.	1.2'	Cut on rim conglomerate and sandstone Sailor No. 3	0.087
6.	3.0'	Cut of conglomerate, sandstone and clay on rim	0.125

The above samples were assayed at Smith's Laboratory, Moab, Utah. Samples as high as 12% U_3O_8 have been taken from thin beds and from tree material.

The applicant wishes to continue the limited exploration work begun on the Sailor group of claims to determine the extent and grade of mineralization thought to underlie the main area of the mesa. The applicant

feels that further exploration is justified by the nature and extent of mineralization thus far encountered by recent underground work, by wagon drilling and by the existence of a definite channel extending through the mesa as shown by Atomic Energy Commission mapping. (See Fig. 2) Further, the area of the claims is a new and undeveloped section and any exploration will aid in proving the area as a whole. The interest evinced by the Atomic Energy Commission in the claims as indicated by their geologic mapping is encouraging to the applicant in continuing further work. The company's expenditures to date are indicative of their interest in and enthusiasm for the area.

4. (d) The property is accessible by improved and unimproved road from U. S. Highway 160 via Seven Mile Canyon and the Grand View Point road to the Neck, a point on Grand View Point, thence down a privately built road to the property. The total mileage from Moab, Utah, the closest town, is 56 miles, the last 26 of which is on the above mentioned private road. Approximately 20 miles of the last 26 miles were built by The Mayflower Company with no assistance from other operators nor state or Federal agencies. The road from the improved Grand View Point road may be travelled by light trucks and four wheel drive vehicles.

Ore mined on the property could be shipped to the Atomic Energy Commission's mill at Monticello, Utah, a distance of approximately 109 miles from the property, or to the United States Vanadium Corporation buying station at Thompson, Utah, a distance of approximately 70 miles from the property. The nearest rail shipping point is Crescent Junction, Utah, a siding on the Denver & Rio Grande Western Railroad, a distance of approximately 64 miles from the property.

Moab, Utah, is the closest supply and residence point to the property. Commissary supplies, small tools and mining supply items can be procured at Moab, and major equipment and repair can be obtained at Monticello, Utah.

The Mayflower Company has built two air strips near the property sufficiently long for four-passenger light aircraft.

4. (e) It is anticipated that sufficient labor will be available in Moab, Utah, to supply the needs of the proposed exploration project. Independent drilling contractors and bulldozing contractors are headquartered in Moab and Monticello, Utah, or Grand Junction, Colorado. Equipment is usually available on short notice.

Water for drilling and culinary uses must be hauled to the property from springs within a few miles of the property. The company anticipates building approximately three miles of road to the Colorado River if future developments warrant such an action. Two possible routes for such a road have been traversed on foot and found feasible.

Power for lights and small tools is generated at the property by a gasoline driven 110V, AC generator. No power line enters the area.

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5. (a) The proposed exploration program is intended to explore for uranium.

5. (b) Consideration of a number of factors, including sampling, radiometric observation of the exposed Shinarump-Moenkopi contact, the Atomic Energy Commission geologists structure contour map and accessibility leads to a plan of exploration considered by the applicant to be effective for the area under consideration. The work consists of the following, and is shown on Fig. 2 attached:--

1. Rim Stripping. The Shinarump-Moenkopi contact is covered with talus over lengths of approximately 2400 linear feet on the north rim of the mesa to be explored and approximately 1000 linear feet on the south rim. The applicant proposes to uncover the contact in both these areas by bulldozing to determine if mineralization is present. The total rim stripping is 3400 linear feet.

2. Underground Drifting. The applicant proposes underground drifting at points on Sailor No. 5, Sailor No. 2 and Little Joe No. 1 Claims at places where good mineralization and favorable lithology indicate. This work will prove or disprove the extension of rim showings into the mesa. On Sailor No. 5, 300 linear feet of drifting on a pattern shown in Fig. 2 is proposed. On Sailor No. 2, 400 linear feet of drifting are proposed and on Little Joe No. 1, 300 linear feet of drifting are proposed. These total 1000 feet of underground drifting.

3. Wagon Drilling. Wagon drilling is proposed on the property to explore areas impractical to reach with underground drifting. The shallow holes resulting in frequent moves indicates the use of wagon drills rather than other types of equipment. The applicant will require the independent contractor to catch dust samples in suitable equipment so reliable assay results may be obtained and to allow calibration of radiometric equipment for probing the holes. The areas to be drilled are shown on Fig. 2. A summary of the holes and location are as follows:

Sailor Nos. 5 and 6 - 40 holes, 45 feet average =	1800 feet
Sailor Nos. 2, 3 and 4, - 60 holes, 50 feet average =	3000 feet
Total wagon drill hole footage	4800 feet

5. (c) The work will start within 60 days and be completed within 12 months from the date of the exploration project contract.

5. (d) The Mayflower Company has been engaged in mining in various districts in Utah for a number of years and is sufficiently experienced to conduct an exploration project as proposed in this application. The superintendent who will manage the field operations of the company in the area of the proposed project is Hall Thorn. Mr. Thorn worked for years in the Park City Mining District, mainly at the Silver King Coalition Mine, where he rose to the position of foreman of a section of this major operation. This, along with construction experience with the W. W. Clyde Co. of Springville, Utah, and other construction companies fit him to take complete charge

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Salt Lake City, Utah

5. (a) Continued

of both surface and underground operations of the proposed exploration project.

6. Estimate of Costs. Discussions with DMEA representatives in the Salt Lake City office indicate the advisability of securing the "short form" contract for the exploration project which, the applicant understands, involves the combining of all costs incident to the project into an overall unit cost. The following summary attempts to do this. The costs are based upon past experience of the applicant and experience of others in similar areas.

Rim Stripping

2400 feet, north rim	
1000 feet, south rim	
3400 feet, total, at estimated $1.75 per foot	$ 5,950.

Underground Drifting

Sailor No. 5, 300 ft. at estimated $28.00 per ft.	$8,400.	
Sailor No. 2, 400 ft. at estimated $28.00 per ft.	11,200.	
Little Joe No. 1, 300 ft. at estimated $28. per ft.	8,400.	
Total drifting costs		28,000.

Wagon Drilling - including roads and drill site preparation

Sailor Nos. 5 and 6, 40 holes, 45 ft. average depth	1800 ft.	
Sailor Nos. 2, 3 and 4, 60 holes, 50 ft. average "	3000 ft.	
Total footage	4800 ft.	
Cost of wagon drilling at estimated $2.00 per foot		9,600.
Access Road Improvement and Maintenance		2,500.
TOTAL ESTIMATED PROJECT COST		$ 46,050.

7. (a) Yes

7. (b) The applicant proposes to furnish his share of the project costs by use of equipment belonging to the applicant and by furnishing all labor and material necessary to pursue the work outlined, subject to reimbursement by the DMEA.

LEASE AND AGREEMENT

THIS LEASE AND AGREEMENT, made and entered into this 16th day of December, 1952, by and between JACK TURNER, Moab, Utah, and GEORGE R. TAYLOR, Twin Falls, Idaho, hereinafter referred to as LESSORS, AND LAWRENCE MIGLIACCIO, Price, Utah, hereinafter referred to as LESSEE,

W I T N E S S E T H:

That the Lessors in consideration of the royalties hereinafter reserved and by the Lessee to be paid and in consideration of the promises, agreements and covenants contained herein and by the Lessee to be kept and performed, hereby lease to the Lessee the following described unpatented mining claims located in San Juan county, Utah and all of which claims are particularly described in the notices of location, a copy of said notices having been recorded in the county recorder's office of San Juan county, Utah, and said notices as recorded are hereby incorporated in and made a part of this instrument by reference thereto and the names of said mining claims and the book and page where recorded being as follows:

Name of Claim	Book Recorded	Page
Little Joe No. 1	R-4	36
Sailor No. 1	R-4	36
Sailor No. 2	R-4	37
Sailor No. 3	R-4	37

TO HAVE AND TO HOLD the same unto the Lessee for a term of ten (10) years from the 16th day of December, 1952, until the 16th day of December, 1962, unless sooner terminated by the Lessors because of a violation by the Lessee of any of his obligations hereunder; provided that by mutual agreement of the parties hereto in writing, said term may be extended for an additional period of Ten (10) years.

That in consideration of the said leasing, the Lessee hereby covenants and agrees with the Lessors as follows:

1. To forthwith commence work on said mining claims in a diligent, continuous and workmanlike manner and in accordance with the common practice of mining followed in the general area where said mining claims are located.

2. To furnish at his own cost and expense, all the necessary tools, equipment and labor which shall be necessary in carrying out the proper mining of said claims.

3. To allow the Lessor or their agent or agents, at all reasonable times, to enter upon and into all parts of said property for the purpose of inspecting and sampling the same.

4. To give Lessors and their agents, access to all of Lessee's books and papers connected in any way with their operation upon said property and to make such reports as may be reasonably requested by Lessors.

5. To work and mine the property steadily and continuously during the term of this lease with not less than Fifty (50) shifts of work during each calendar month, commencing with the month of February, 1953, and continuing during the term hereof unless other arrangements are approved in writing by the Lessors or unless the Lessee is prevented from working and mining for reasons beyond his control. The word "shift" means the labor of one man for one day for at least eight hours.

6. (a) To pay and deliver to the Lessors, or cause to be paid to them, by the mill, smelter or other purchaser, as the case may be, Ten (10%) per cent of the gross value of all ores that may be mined, shipped or sold from the above described property, or any of it, during the term of this lease; for the purpose of calculating this royalty, development and haulage allowances shall be excluded from the gross value.

In addition to the royalty hereinabove provided, the Lessee agrees to pay to the Lessors, One-third (1/3) of any bonus of any type that may be hereafter paid or payable by the Government or any buyer for the location, discovery, mining or shipping of uranium or other ore on or from such property.

(b) To arrange for payments to be made directly to Lessor by the mill or smelter unless otherwise directed by the Lessors.

(c) To use all reasonable efforts to make, or arrange for the making, of all payments and settlements of royalties and bonuses hereunder and delivering of settlement sheets, directly to the Lessors, for all ores milled or sold during the proceeding calendar month, within Fifteen (15) days after the end of each month.

7. To assume any and all risk and responsibility for any damage or injury to persons or property that Lessee or any of his employees might sustain while mining said premises or carrying on any work or activities in connection therewith.

8. To comply with all the laws of the State of Utah and of the United States of America, while conducting his mining operations, and to keep and maintain Workmen's Compensation coverage and insurance as required by law; and in case of any claim or suit arising, made or filed in connection with or arising out of the operation of said mining premises, said Lessee will defend the same at his own expense and cost, and will hold Lessors harmless from liability therefrom and indemnify Lessors against all damage, loss, costs and expenses on account thereof; and to comply with the provisions of the Social Security Act as it applies to any person or persons employed by him on said mining premises or in connection with the operations contemplated by this agreement.

9. To pay promptly for all labor and supplies used or furnished by Lessee upon said premises and to defend against any claims or suits therefor at his own expense and cost and to hold Lessors harmless from liability and indemnify Lessors for any and all claims and liens for any such materials and labors.

10. Lessee agrees that prior to July 1st of each year, commencing July, 1953, and continuing during the term of this lease, he will perform, or caused to be performed, lawful assessment work upon said claims in such amount as may be required by law. Lessee shall further prepare and file a good and valid affidavit of annual labor and improvements as required by law, showing that such assessment work has been so performed, such affidavit to be filed with the county recorder of San Juan county, Utah, at the time and in the manner required by law for the filing of such affidavits. In the event the annual assessment work should hereafter be required prior to any other date than July of any year, Lessee shall perform such assessment work prior to such other date. In the event relief from performance of assessment work shall be allowed by law, any required affidavits or other actions for the purpose of protecting title to said mining claims shall be filed and recorded or accomplished by the Lessee.

11. The Lessee shall not assign or sublet said mining claims, or any part thereof, without first having obtained the written consent of the Lessors.

12. It is agreed that, upon the failure of the Lessee to keep, observe or perform any of the agreements or covenants

hereinabove to be kept, observed or performed by the Lessee, the term of this lease shall, at the option of the Lessors, expire, and the same, and the property hereby demised shall become forfeited to the Lessors; and the Lessors, or their agents or attorneys, may, thereupon, immediately after demand for possession, enter upon said property and dispossess all persons occupying the same, with or without force, and with or without process of law; or, at the option of the Lessors, the Lessee, and all persons found in occupation of the property, or any part thereof, may be proceeded against as guilty of unlawful detainer; provided further, however, that before any such forfeiture shall be declared and enforced, the Lessors shall notify the Lessee in writing of any such alleged breach of the agreements or covenants herein contained, setting forth in such notice a detailed description of any such alleged breach, and the Lessee shall have Sixty (60) days after the receipt of such notice within which to correct or rectify the same.

13. Any written notices provided for herein, shall be addressed with postage prepaid, as follows:

Notices to Lessors: To Jack Turner
Moab, Utah

Notices to Lessee: To Laurence Migliaccio
Price, Utah

14. Upon the termination of this lease, by expiration, surrender, or otherwise, the Lessee shall pay the Lessors any and all sums that may be due them under the terms hereof or because of the failure or neglect of the Lessee, or any persons acting under him, to keep, observe or perform all or any of the agreements or covenants hereof, upon the payment of which all parties shall be released from any further duties and obligations hereunder. Lessee further agrees to deliver up the leased property to the Lessors in good order and condition, it being specifically understood and agreed, however, that Lessee may remove any of his equipment and surface structures, including houses, office and surface and sub-surface machinery and equipment of every kind and character, except timbering.

IN WITNESS WHEREOF, the said parties have caused this instrument to be executed the day and year first above written.

Jack Turner

George R. Taylor

Lawrence Migliaccio

STATE OF UTAH,)
) ss
County of Grand.)

On the 16th day of December, 1952, personally appeared before me, Jack Turner and Lawrence Migliaccio, two of the signers of the above instrument, who duly acknowledged to me that they executed the same.

(Seal)

Wesley Davies
Notary Public, Residing at
Moab, Utah

My commission expires:
12-26-54

STATE OF IDAHO,)
) ss
County of Twin Falls)

On the 20th day of December, 1952, personally appeared before me, George R. Taylor, one of the signers of the above instrument, who duly acknowledged to me that he executed the same.

(Seal)

(S) W. A. Ostrander
Notary Public, Residing at

Twin Falls, Idaho

My commission expires:

August 26, 1954

C O N S E N T

Consent is hereby given to Lawrence Migliaccio to assign and sublet that certain lease and agreement dated December 16, 1952, entered into between Jack Turner, and George R. Taylor, as lessors, and Lawrence Migliaccio, as Lessee, together with the right to sublet the mining claims or any part thereof described in said lease and agreement.

This consent is limited to the assignment of said lease and agreement by Lawrence Migliaccio to GREAT BASIN OIL & LEASING CO., a corporation and the Mayflower Company, a corporation.

Dated this 16th day of December, 1952.

(s)
Jack Turner

George R. Taylor

ASSIGNMENT AND AGREEMENT

---oooOooo---

THIS AGREEMENT AND ASSIGNMENT made and entered into this 30th day of December, 1952, by and between Lawrence Migliaccio of Price, Utah, hereinafter designated First Party, and Great Basin Oil and Leasing Company, a Utah corporation, and the Mayflower Company, a Utah corporation, hereinafter designated Second Parties,

W I T N E S S E T H:

WHEREAS, First Party has entered into a Lease and Agreement under date of December 16, 1952, between Jack Turner and George R. Taylor, as Lessors and himself as Lessee, of four (4) unpatented mining claims located in San Juan County, State of Utah, an original copy of said Lease being attached hereto and made a part hereof and,

WHEREAS, First Party desires to assign said Lease and Agreement to Second Parties and has secured the written consent of said Assignment to Second Parties by the Lessors, a copy of which is hereto attached and made a part hereof,

NOW, THEREFORE, in consideration of the sum of $1.00 in hand paid and the mutual covenants herein contained, it is agreed by and between the Parties hereto as follows:

I

First Party has assigned, transferred and conveyed and by these presents does assign, transfer and convey, to Second Parties, their successors and assigns, all of his right, title and interest in and to said Lease and the properties therein described.

II

Second Parties hereby accept said assignment and do hereby agree to faithfully keep and perform all terms, conditions and obligations therein contained.

III

First Party agrees to work for and in behalf of the Second Parties in the development, operation and mining of the properties contained in said Lease and, as long as said employment continues, Second Parties agree to pay First Party 5% of the net profits realized by Second Parties in the operation of the properties contained in said Lease.

IN WITNESS WHEREOF, the First Party has hereunto set his hand and seal and the Second Parties have caused this instru-

ment to be executed by its duly authorized officers the day and year first above written.

(s) Lawrence Migliaccio
First Party

GREAT BASIN OIL AND LEASING CO.

By Dan B. Shields (s)
President

(Seal)
ATTEST

(s) Samuel Bernstein
Secretary

THE MAYFLOWER COMPANY

By L. E. Stein (s)
Vice President
Second Parties

(Seal)
ATTEST

(s) M. R. Richards
Secretary

STATE OF UTAH)
: ss
County of Salt Lake)

On this 30th day of December, 1952, personally appeared before me LAWRENCE MIGLIACCIO, signer of the foregoing instrument, who duly acknowledged to me that he executed the same.

(s) C. Vernon Langlois
NOTARY PUBLIC, residing at
Salt Lake City, Utah

(Seal)

My commission expires:

January 28, 1955

STATE OF UTAH)
: ss
County of Salt Lake)

On this 30th day of December, 1952, personally appeared before me Dan B. Shields and Samuel Bernstein, who being by me duly sworn did say that they are officers of the Great Basin Oil and Leasing Company, President and Secretary respectively, and that the foregoing instrument was signed in behalf of said corporation by resolution of its Boards of Directors and said Dan B. Shields and Samuel Bernstein acknowledged to me that said corporation executed the same.

IN WITNESS WHEREOF, I have here unto attached my hand and seal this 30th day of December, 1952.

(s) Louis D. Tannenbaum
NOTARY PUBLIC Residing at
Salt Lake City, Utah

(Seal)
My commission expires:

June 24, 1956

STATE OF UTAH)
: ss
County of Salt Lake)

On this 30th day of December, 1952, personally appeared before me L. E. Stein and Ross Richards, who being by me duly sworn did say that they are officers of the Mayflower Company, Vice President and Secretary respectively, and that the foregoing instrument was signed in behalf of said corporation by resolution of its Board of Directors and said L. E. Stein and Ross Richards acknowledged to me that said corporation executed the same.

IN WITNESS WHEREOF, I have hereunto attached my hand and seal this 30th day of December, 1952.

(s) Louis D. Tannenbaum
NOTARY PUBLIC, residing at
Salt Lake City, Utah

(Seal)
My commission expires:

June 24, 1956

THIS AGREEMENT made this 17th day of March, 1953, by and between Jack Turner of Moab and I. E. Shale of San Mateo, California.

Jack Turner is the owner of approximately fourteen (14) valid lode mining claims located before certain Oil and Gas leases were applied for and three (3) lode mining claims located after oil and gas leases were granted.

All seventeen (17) claims situated in San Juan County, Utah, south of the neck on the East Rim between the Neck and Junction Butte.

Jack Turner grants to I. E. Shale an option of purchase for the sum of six hundred ($600.00) Dollars, receipt of which is hereby acknowledged.

I. E. Shale shall pay Jack Turner the sum of $6900.00 on or before 120 days from this date and the sum of $7500.00 on or before 120 days thereafter, making the full purchase price for these seventeen (17) claims $15,000.00. When this total sum of $15,000.00 has been received by Jack Turner, Turner agrees to deliver to I. E. Shale a good and sufficient deed for the seventeen (17) claims.

Failure on I. E. Shale's part to make any payment, Jack Turner shall receive all monies paid as liquidated damages.

(s) Jack Turner

(s) I. E. Shale

(s) Jeanette D. Day
Witness for Three Signatures

(s) Agnes E. Turner
Jack Turner's Wife

SEVENTEEN CLAIMS

GREEN ROCK - Located August 6th, 1951
Situated: Southerly from 3 Rock Spires and Southwesterly of Trail coming out of Grays Pasture to White Rim. San Juan County, Utah

GREEN ROCK #2 - Located August 6th, 1951
Situated: Southerly from 3 Rock Spires and Southwesterly of trail coming out of Grays Pasture to White Rim. San Juan County, Utah

MESA #1 - Located July 21st, 1951
Situated: About 3 miles airline Northerly of Lathrop Trail about midway of Grand View Point under East Side of Grand View Rim. San Juan County, Utah

MESA NO. 2 - Located July 21, 1951
Situated: About 3 miles airline Northerly of Lathrop trail about midway of Grand View Point under East side of Grand View Rim. San Juan County, Utah

MESA NO. 3 - Located July 21st, 1951
Situated: About 3 miles airline Northerly of Lathrop trail about midway of Grand View Point under East side of Grand View Rim. San Juan County, Utah

MESA NO. 4 - Located July 21st, 1951
Situated: About 3 miles airline Northerly of Lathrop trail about midway of Grand View Point under East side of Grand View Rim. San Juan County, Utah

BIG FOUR - Located July 20, 1951
Situated about 2 miles Northerly of Lathrop trail going off end of Grand View Point. San Juan County, Utah

BIRD LEG NO. 1 - Located July 17, 1951
Situated: 1 mile Easterly of Lathrop trail under Southeast end of Grand View Point. San Juan County, Utah

BIRD LEG NO. 2 - Located July 17, 1951
Situated: About 1 mile Easterly of Lathrop trail under South East end of Grand View Point. San Juan County, Utah

LITTLE JOE NO. 1 - Located July 20th, 1951
Situated: About 1 mile Northerly of Lathrop trail going off end of Grand View Point. San Juan County, Utah

RED ROCK NO. 1 - Located July 18th, 1951
Situated: Under South end of Grand View Point about ½ mile from White Rim. San Juan County, Utah

SAILOR NO. 1 - Located July 16th, 1951
Situated: 1 mile Northeasterly from Lathrop trail going off end of Grand View Point. San Juan County, Utah.

SEVENTEEN CLAIMS, Con't.

SAILOR NO. 2 - Located July 16th, 1951
Situated: 1 mile North Easterly from Lathrop trail going from end of Grand View Point. San Juan County, Utah

SAILOR NO. 3 - Located July 16th, 1951
Situated: 1 mile Northeasterly from Lathrop trail going off end of Grand View Point. San Juan County, Utah

SAILOR NO. 4 - Located July 16th, 1951
Situated: 1 mile Northeasterly from Lathrop trail going off end of Grand View Point. San Juan County, Utah

SAILOR NO. 5 - Located July 16th, 1951
Situated: 1 Mile Northeasterly from Lathrop Trail going off end of Grand View Point. San Juan County, Utah

SAILOR NO. 6 - Located July 16th, 1951
Situated: 1 mile North Easterly from Lathrop Trail going off end of Grand View Point. San Juan County, Utah

A S S I G N M E N T

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, the undersigned, I.E. SHALE, on the 17th day of March, 1953, entered into a written agreement with JACK TURNER of Moab, Utah, wherein I was granted the first right and option to purchase seventeen (17) unpatented mining claims, located in San Juan County, Utah, south of the Neck on the east rim, between The Neck and Junction Butte, for the purchase price of $15,000.00, and desire to assign said option agreement to the Mayflower Company, a Utah Corporation, and the Great Basin Oil and Leasing Company, a Utah Corporation,

NOW THEREFORE, in consideration of the sum of ten dollars ($10.00) and other good and valuable consideration, receipt of which is hereby acknowledged, I do hereby sell, assign, transfer and convey all of my right, title and interest in and to said option agreement, and the seventeen (17) unpatented mining claims therein described, to the MAYFLOWER COMPANY, a Utah Corporation, and to the GREAT BASIN OIL AND LEASING COMPANY, their successors, and assigns.

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 15th day of April, 1953.

I. E. Shale (s)

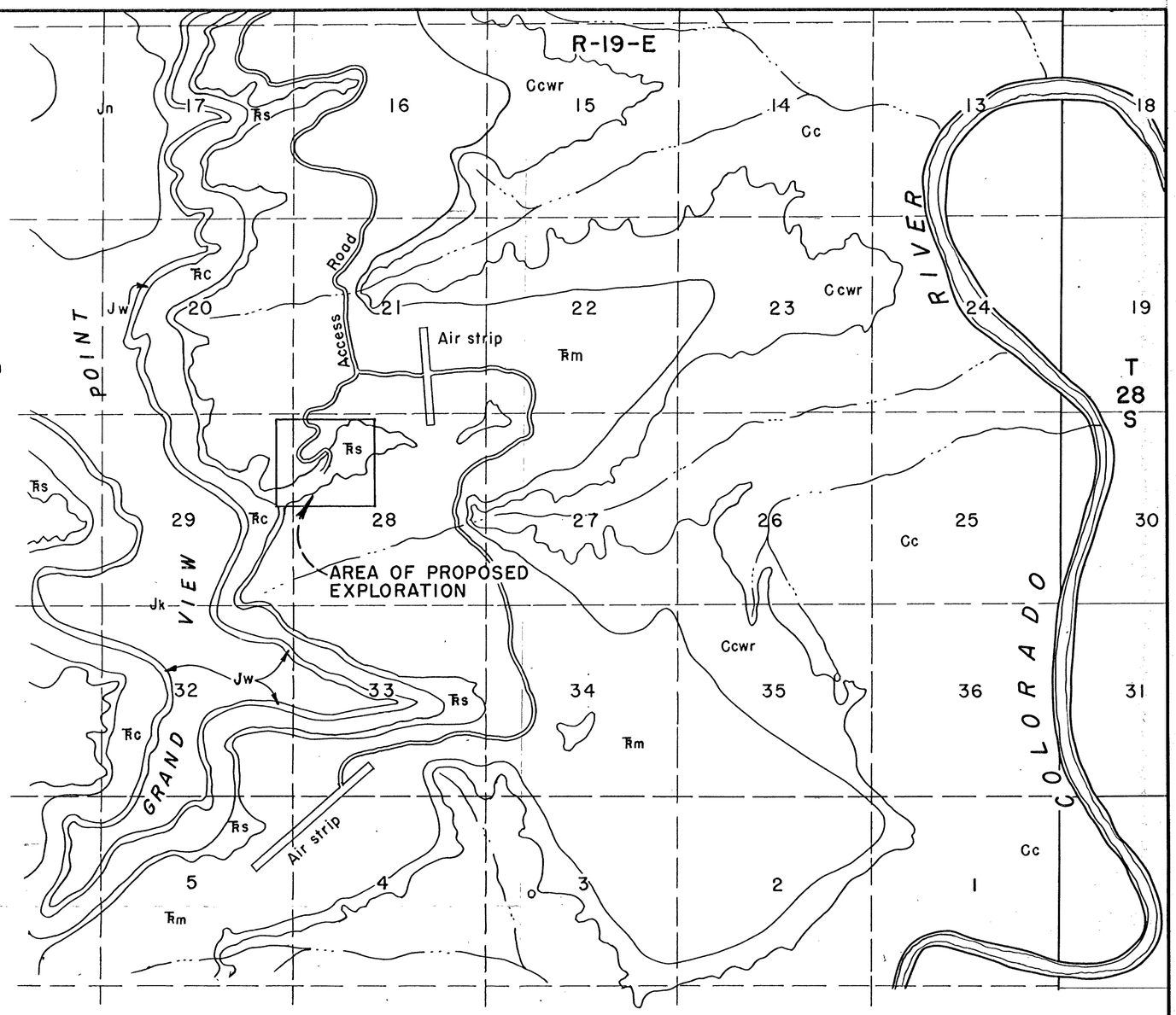
I. E. SHALE

LEGEND

Jurassic	Jn	Navajo formation
	Jk	Kayenta formation
	Jw	Wingate formation
Triassic	Ꞧc	Chinle formation
	Ꞧs	Shinarump formation
	Ꞧm	Moenkopi formation
Permian	Ccwr	White Rim formation
	Cc	Cutler formation

NOTE

Geology traced from Plate I, U.S.G.S. Bull. 908.



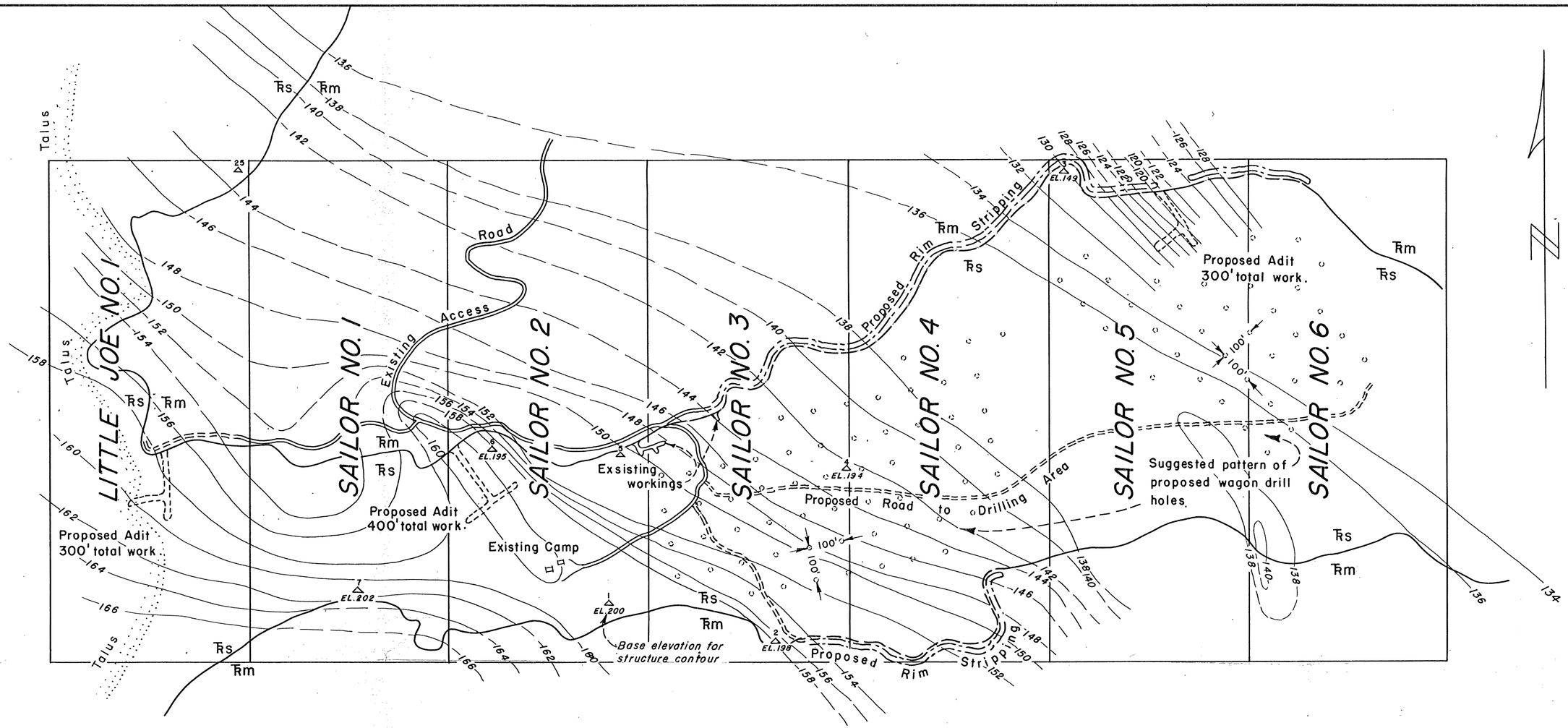
0 1/4 1/2 3/4 1 2 MILES

Scale: 2 in. = 1 mile.

LOCATION AND AREAL GEOLOGIC MAP
SAILOR GROUP OF CLAIMS
MAYFLOWER CO.
SAN JUAN COUNTY, UTAH

DMEA

FIGURE I. 3069



LEGEND

- Proposed rim stripping.
- Proposed adits.
- Proposed wagon drill holes.
- Proposed roads to drilling areas and stripping sites.
- Rs / Rm — Shinarump -- Moenkopi contact; dashed where covered.
- EL.200 — A.E.C. plane table station, elevation assumed.
- 158 / 160 — Structure contours at the base of the Shinarump formation.

0 100 200 400 600 800 FEET

Scale: 1 in. = 200 ft.

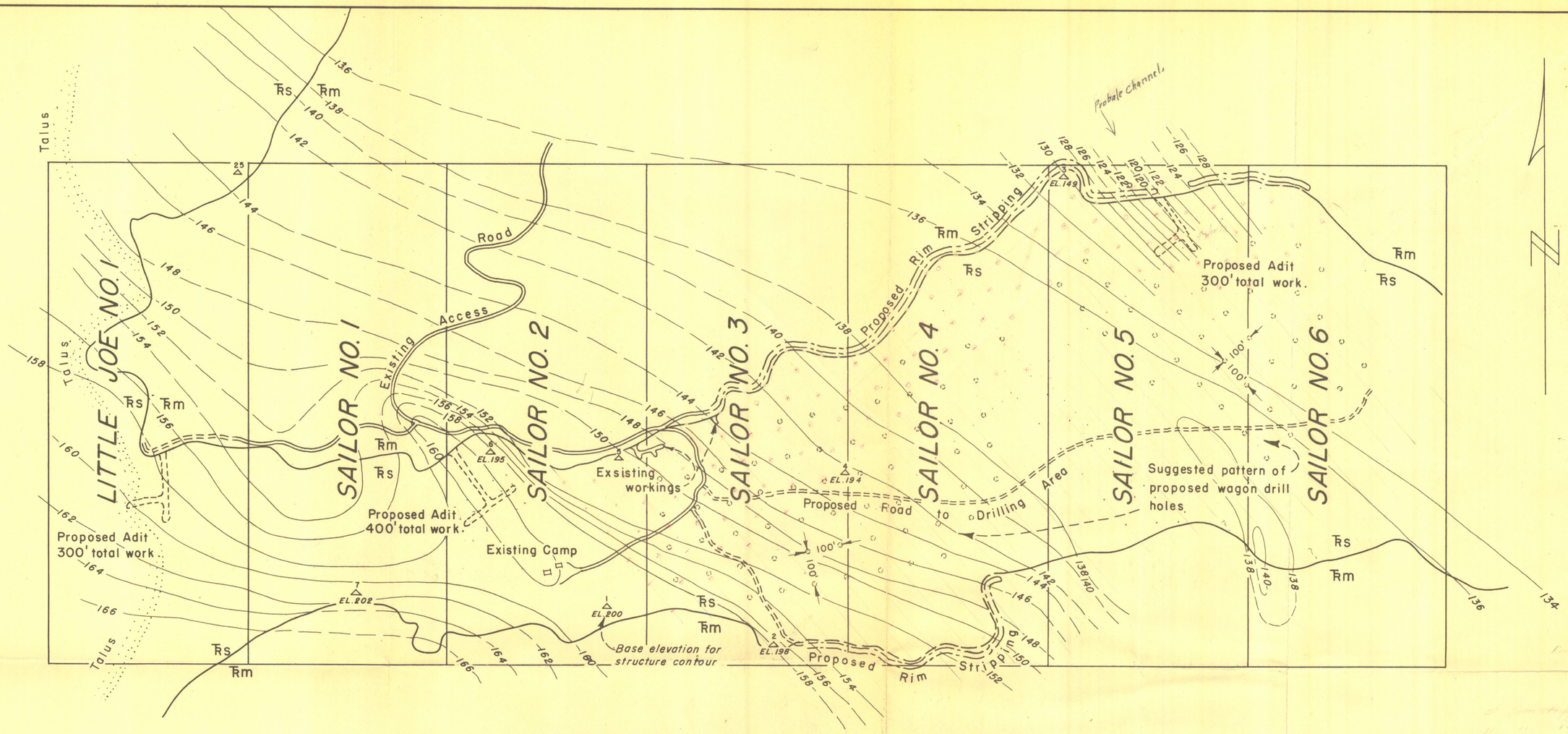
NOTES

Basic information traced from A.E.C. preliminary map by De Vergie and Standard, March, 1953.

MAP OF
GEOLOGY AND PROPOSED EXPLORATION
SAILOR GROUP OF CLAIMS
MAYFLOWER CO.
SAN JUAN COUNTY, UTAH

FIGURE 2

DMEA 3069



LEGEND

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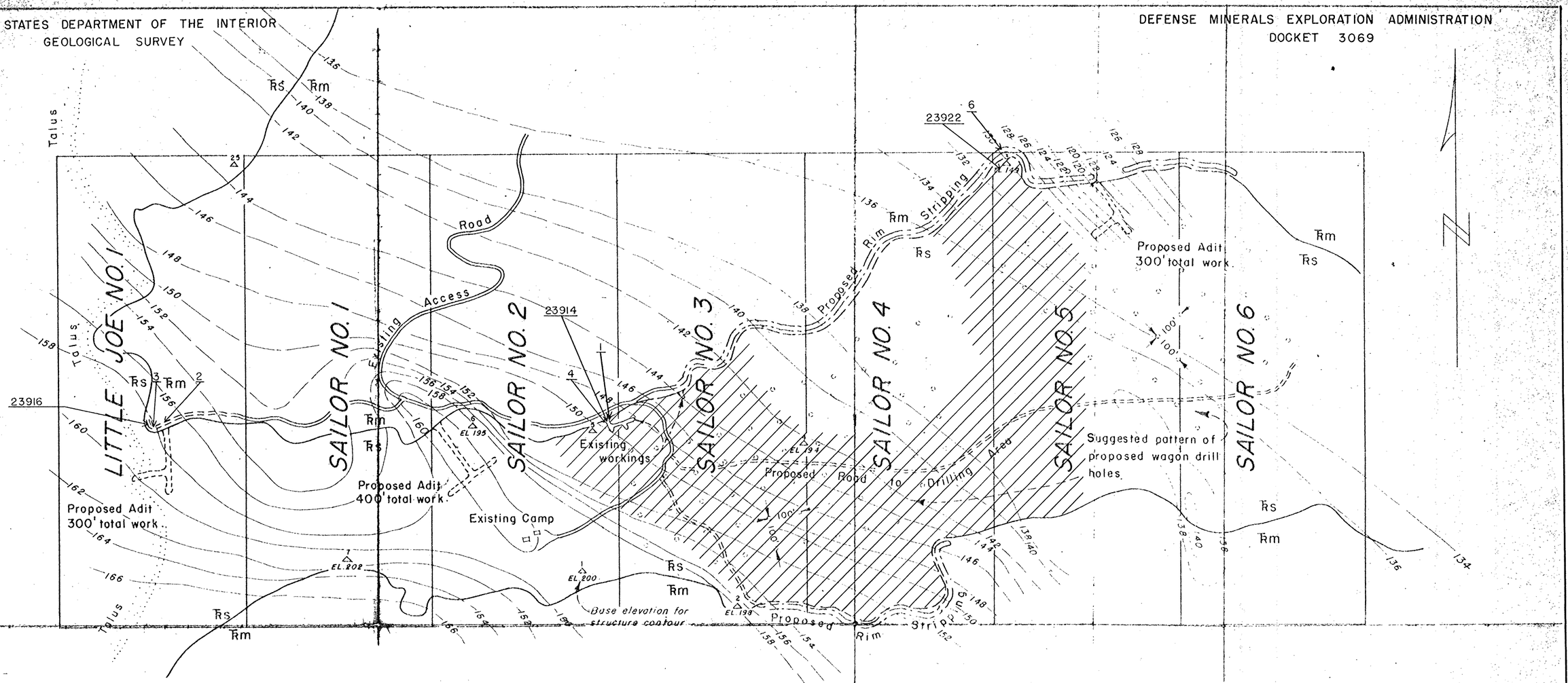
MAP OF
GEOLOGY AND PROPOSED EXPLORATION
SAILOR GROUP OF CLAIMS
MAYFLOWER CO.
SAN JUAN COUNTY, UTAH

FIGURE 2

DMEA: 3069

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
DOCKET 3069



EXPLANATION

- Proposed rim stripping.
- Proposed adits.
- Proposed wagon drill holes.
- Proposed roads to drilling areas and stripping sites.
- Rs / Rm — Shinarump - Moenkopi contact; dashed where covered.
- EL.200 — A.E.C. plane table station, elevation assumed.
- 158 / 160 — Structure contours at the base of the Shinarump formation.

0 100 200 400 600 800 FEET

Scale: 1 in. = 200 ft.

- 23916 — Approximate location of sample point
- Approximate area drilled by applicant

NOTES

Basic information traced from A.E.C. preliminary map by De Vergie and Standard, March, 1953.

Figure 2. MAP OF GEOLOGY AND PROPOSED EXPLORATION OF THE SAILOR AND LITTLE JOE GROUP OF CLAIMS, MAYFLOWER CO., SAN JUAN COUNTY, UTAH