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Ching
Ellis
Nelson
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Geehan

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

Mr. Lothar T. Konopak, Trustee
605 Camino Del Monte Sol
Santa Fe, New Mexico

AUG 24 1955

Re: Docket No. DMEA-3593 (Uranium)
Suerte, Oro, Nancy, K-Ore
Primero and Derecho claim groups
Grand County, Utah

Dear Mr. Konopak:

In a letter dated June 1, 1955, we advised you that the four agreements of your trusteeship indicated that you did not have a sufficient interest in the subject property for the purposes of an exploration project contract.

As you know a field examination had already been made by our personnel on May 10, and 11. Therefore, despite the fact that the above-mentioned condition has not been corrected, your application for aid in an exploration project and other information available to us in Washington relating to the subject property have been reviewed.

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

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

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

Sincerely yours,

C. O. Mittendorf

Administrator

MChing:am
8-17-55
cc to: Admr. Reading File
Operating Committee
Docket
Messrs. J. E. Crawford, Rm. 3641
T. H. Kiilsgaard, Rm. 5222
J. O. Hosted, Rm. 3210, GSA
Code 700
Mr. Ching
DMEA Field Team, Region III(2)

DOCKET COPY

Ching
Ellis
Nelson

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

August 17, 1955

Summary of Proposed Project

Object: Denial of application for an exploration project

Docket No: DMEA-3593

Commodity: Uranium

Applicant: Lothar T. Konopak, Trustee
605 Camino del Monte Sol
Santa Fe, New Mexico

Property: Suerte Nos. 1 through 8 claims, Secs. 11 & 12, T. 24S., R.20E.
Oro Nos. 1 through 10 claims, Secs. 10,11,14 & 15, T. 24S., R. 22E.
Nancy Nos. 1 through 6 claims, Sec. 9, T. 24S., R. 22E.
K-Ore Nos. 1 through 9 claims, Secs. 29, 32 & 33, T. 23S., R. 21 E.
Primero No. 1 and
Derecho Nos. 1 through 3 claims, Sec. 14, T. 23S., R. 20E.
All in Grand County, Utah. Applicant is the owner.

Date of Application: November 20, 1954

Amount of Application: $247,062.50

Work Proposed: Explore the properties by plug and core drilling 228 holes aggregating 70,050 feet. Costs are as follows:

Independent contract drilling	$231,062.50
Access road building	5,000.00
Supervision and consultants	9,000.00
Other costs	2,000.00
Total	$247,062.50
Government participation @ 75%	$185.296.87

Field Team Report: Transmitted
July 25, 1955 - D. D. Haynes, U.S.G.S.
W. E. Young, U. S. B. M.

"The Salt Wash member of the Jurassic Morrison formation is exposed on the Suerte, Nancy and Oro claim groups. The Brushy Basin member is also exposed on these groups. The K-Ore claims are covered by an extensive area of alluvium and are underlain by the Chinle formation. The Primero and Derecho group is covered by an area of alluvium, with outcrops of the Jurassic Wingate and Kayenta formations underlain by the Chinle formation.

"Small pods of uranium mineralization occur on the Suerte and Nancy groups. These occurrences are representative of certain horizons in the Salt Wash member where ore bodies are too small to be economically significant. The sandstone lenses on these two groups and on the Oro group are generally unfavorable for uranium occurrence. Furthermore, much of the upper Salt Wash member on the Suerte and Nancy groups have been eroded away. The nearest ore deposits in the Salt Wash are about 12 miles to the Northwest in the Yellow Cat district.

"No geologic evidence is present to indicate favorable zones in the Chinle formation on the K-Ore and Primero and Derecho groups. The nearest known ore deposits in the Chinle formation are 10 miles to the southwest in the Seven Mile district.

"Because of unfavorable geologic conditions on the property and the small size of any potential ore bodies it is recommended that the application be denied."

Commodity Committee Members' Comments:

U. S. Geological Survey - W. P. Williams, August 5, 1955

"The exposed Salt Wash sandstones on the Suerte, Nancy and Oro claims are generally unfavorable for the occurrence of uranium mineralization. There do not appear to be any favorable host beds in the Chinle formation on the K-Ore, Primero, and Derecho claims. Mineralized zones on some of the claims are very small and erratic in distribution. There are no geologic reasons to indicate that undiscovered ore bodies on the property would be larger. I concur with the recommendation for denial of the application."

U. S. Bureau of Mines - John E. Crawford, August 11, 1955

"Discussed project with AEC representative. Concur in the recommendation for denial of the application on the basis of the unpromising geological conditions prevailing on the property."

Rare and Miscellaneous Metals Division - Michael Ching, August 16, 1955

On June 1, 1955, the applicant was advised that we could not process the application in its present form because the Applicant had an insufficient interest in the land for the purposes of an exploration project contract. Prior to this, however, the application had been referred to Region III and a field examination had been completed.

The applicant has failed to correct the deficiency referred to above. In the meantime the Field Team Report of Examination, recommending denial of the application, has been received. It is recommended that the application be denied on the basis of this report but that cognizance be taken in the denial letter of our June 1 letter to the Applicant.

Conclusions and Recommendations:

The prospects for making a worthwhile discovery by the proposed exploration are not good. It is recommended that the application be denied and that cognizance be taken of the fact that the Applicant had been advised that his interest in the land is insufficient for the purposes of an exploration project contract.

Ernest Wm. Ellis

Ernest Wm. Ellis, Chief
Rare and Miscellaneous
Metals Division

8/12/55-gla

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

August 11, 1955

Memorandum

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

RECEIVED
AUG 12 1955

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

Subject: Report of examination, DMEA Docket 3593, L. T. Konopak, Trustee, Suerte, Oro, Nancy, K-Ore, Primero and Derecho groups of claims, Grand County, Utah

I have reviewed the Field Team report of examination, L. T. Konopak, Trustee, DMEA Docket 3593; and I have discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

The applicant proposed 70,750 feet of drilling at a cost of $247,060.50, of which the DMEA was asked to loan 75% or $185,269.88 on 5 separate claim groups located in the vicinity of the Salt Valley anticline north of Moab, Utah.

The Field Team reports that the ore-bearing members of the area are unfavorable for the occurrence of significant uranium ore deposits and that the known deposits occurring in the ore horizon on the Suerte, Nancy, and Oro claim groups consist of scattered ore bodies containing less than 500 pounds of ore. The Field Team recommends that the loan request be denied.

We concur in the recommendation of denial of the application for DMEA aid inasmuch as we believe that the insufficiently promising geological conditions do not warrant an exploration program.

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

John E Crawford
John E. Crawford

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

August 11, 1955

Memorandum

RECEIVED
AUG 12 1955

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

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

Subject: Report of examination, DMEA Docket 3593, L. T. Konopak, Trustee, Suerte, Oro, Nancy, K-Ore, Primero and Derecho groups of claims, Grand County, Utah

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John E. Crawford

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

August 11, 1955

Memorandum

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Uranium Commodity Committee, Room 4445

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

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John E. Crawford

RECEIVED
AUG 12 1955

8/8/55 gla

IN REPLY REFER TO:

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

RECEIVED
AUG - 8 1955

August 5, 1955

Memorandum

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

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

Subject: Review of Field Examination Report, DMEA Docket No. 3593 (uranium), L. T. Konopak, Trustee, Suerte, Oro, Nancy, K-Ore, Primero and Derecho claim groups, Grand County, Utah.

I had the occasion to closely supervise, at Grand Junction, the field examination covering the above-referenced property. The field report by the Geological Survey was transmitted by me, with covering memo, to the Field Team, Region III.

My covering memorandum, dated May 25, 1955, in which I concur with the examining team's recommendations for denial, contains my unchanged opinion of the subject properties.

W P Williams

W. P. Williams

IN REPLY REFER TO:

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

RECEIVED
AUG - 8 1955

August 5, 1955

Memorandum

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

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

Subject: Review of Field Examination Report, DMEA Docket No. 3593 (uranium), L. T. Konopak, Trustee, Sparta, Oro, Nancy, K-Ore, Primero and Dereshe claim groups, Grand County, Utah.

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WPW

W. P. Williams

WPWilliams:iml
G-8/5/55

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

IN REPLY REFER TO:

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

RECEIVED
AUG - 8 1955

August 5, 1955

Memorandum

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

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

Subject: Review of Field Examination Report, DMEA Docket No. 3593 (uranium), L. T. Kenagak, Trustee, Suerte, Oro, Nancy, K-Ore, Primero and Derecho claim groups, Grand County, Utah.

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G-8/5/55

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

8/8/55-gla

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

224 New Customhouse
Denver 2, Colorado

July 25, 1955

RECEIVED
AUG - 1 1955

Memorandum

To: Secretary to the Operating Committee, DMEA

From: DMEA Field Team, Region III

Subject: Report of Examination, DMEA Docket 3593, (Uranium), L. T. Konopak, Trustee; Suerte, Oro, Nancy, K-Ore, Primero and Derecho groups of claims, Grand County, Utah

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

The field examiners conclude that conditions are unfavorable for the occurence of significant uranium ore deposits and they recommend that the application be denied.

We concur in this recommendation.

DMEA Field Team, Region III

W. M. Traver

E. N. Harshman

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
8-5-55
(date)

DMEA
Date Rec'd.

JUL 14 1955

BUREAU OF MINES
Denver, Colorado

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

July 7, 1955

RECEIVED
AUG - 1 1955

Memorandum

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

From: Stephen R. Wilson

Subject: Docket No. DMEA-3593 (Uranium), Lothar T. Konopak, Trustee, Suerte, Nancy, Oro, K-Ore, Primero and Derecho claims, Grand County, Utah.

Attached are original and 10 copies of an engineering report covering examination of the subject property for DMEA loan appraisal. Also included are copies of a separate section of Summary, Conclusions and Recommendations, and a copy of the brochure. W. E. Young examined the property and prepared the engineering report.

The applicant has proposed exploration on 5 separate claim groups to consist of drilling 228 holes aggregating 70,050 feet. The estimated cost of the proposed work is $247,062.50. The claim group covers locations in the vicinity of the Salt Valley anticline north of Moab, Utah. Uranium mineralization is exposed in small occurrences on 2 claim groups, but no mineralization is known on the other 3 groups.

The examining engineer concludes that mineralization in the area of the Konopak property is not sufficiently strong to warrant Government participation in exploration. The limited aerial extent of the Salt Wash member of the Morrison formation, in conjunction with the extensive erosional exposures of this member, precludes the possibilities of economic deposits on portions of the 5 groups. Considerable drilling and other exploratory work has been accomplished on surrounding properties, and no deposits of economic significance have been discovered. The examining engineer recommends that the loan request be denied. I concur in the recommendation.

Members of the Atomic Energy Commission were contacted prior to preparation of the recommendations on the subject property.

Stephen R. Wilson
Stephen R. Wilson

Reviewed by
DMEA OPERATING COMMITTEE
8-5-55
(date)

Enclosures

cc: J. Bruce Clemmer

TRANSMITTED
JUL 25 1955

DMEA
Date Rec'd.
JUL 14 1955
BUREAU OF MINES
Denver, Colorado

RECEIVED
1955

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

By D. D. Haynes and W. E. Young

Lothar T. Konopak, Trustee, has applied for assistance under Docket No. DMEA-3593 to explore five uranium claim groups in Grand County, Utah. The claims are located along the Salt Valley anticline 12 to 30 miles north of Moab, Utah. The properties were examined by DMEA personnel May 10 and 11, 1955.

The Salt Wash member of the Jurassic Morrison formation is exposed on the Suerte, Nancy and Oro claim groups. The Brushy Basin member of the Morrison is also conspicuous on the Oro group. The K-Ore claims cover an extensive area of alluvium, with outcrops of the Chinle formation. The Primero and Derecho claims cover an area of alluvium with outcrops of the Jurassic Wingate and Kayenta formations. Small pods of uranium mineralization occur on the Suerte and Nancy groups.

The applicant has proposed an exploratory drilling program consisting of 228 holes aggregating 70,050 feet. The estimated cost is $247,062.50. The examiners do not believe geologic conditions to be sufficiently promising to recommend exploration. Mineralization exposed on the Suerte and Nancy claims is representative of certain horizons in the Salt Wash member. These occurrences are generally too small to be economically significant. No geologic evidence is present to indicate favorable zones on the Oro, K-Ore and Primero and Derecho claim groups.

Reviewed by
DMEA OPERATING COMMITTEE
8-5-55
(date)

The examining geologist and engineer recommend that the loan request be denied.

RECEIVED
AUG 1 1955

LOTHAR T. KONOPAK, TRUSTEE
SUERTE, NANCY, ORO, K-ORE, PRIMERO and DERECHO CLAIMS
GRAND COUNTY, UTAH
DMEA-3593
Uranium

Engineering Report

By W. E. Young
Mining Engineer
Bureau of Mines

Reviewed by
DMEA OPERATING COMMITTEE
8-5-55
(Date)

RECEIVED
AUG - 1 1955

LOTHAR T. KONOPAK, TRUSTEE
SUERTE, NANCY, ORO, K-ORE, PRIMERO AND DERECHO CLAIMS
GRAND COUNTY, UTAH

CONTENTS

	Page
Engineering report	
Summary	1
Introduction	1
Location, topography and physical features	2
History and production	2
Ownership and extent	2
Description of the deposits	3
Project proposals	4
Conclusions and recommendations	5

ILLUSTRATIONS

Fig. 1) Location map, Lothar T. Konopak, Trustee, Suerte, Nancy, Oro,
Fig. 2) K-Ore, Primero and Derecho claims, Grand County, Utah.

SUMMARY

Lothar T. Konopak, Trustee, made application to explore five claim groups for uranium mineralization. These groups are located along the Salt Valley anticline 12 to 30 miles north of Moab, Utah. A field examination was made to ascertain the feasibility of the proposed projects from a geological standpoint. All groups have potentially favorable formations. Only two of the groups have known outcrops of uranium mineralization. These occurrences are considered too small to be of economic interest.

The applicant proposes to explore the properties by drilling 228 holes aggregating 70,750 feet, at an estimated cost of $247,062.50.

Because of the small size of the existing mineralized pods and the lack of any specific targets other than potentially favorable formations, it is recommended that the application for a loan be denied.

INTRODUCTION

The properties of Lothar T. Konopak, Trustee, were examined May 10 and 11, 1955, by a geologist of the Geological Survey and an engineer of the Bureau of Mines. The examinations were made at the request of the Regional Field Team to determine the advisability of granting a Government assistance loan. Mr. Konopak accompanied the examining team during the examinations.

The claims cover five separate locations along the Salt Valley anticline. They are the Suerte group, the Nancy group, the Oro group, the K-Ore group, and the Primero and Derecho group.

The applicant proposes to explore the properties by drilling and has requested a loan of $247,062.50 for 228 holes aggregating 70,750 feet.

LOCATION, TOPOGRAPHY AND PHYSICAL FEATURES

All claim groups are located along the Salt Valley anticline, 12 to 30 miles north of Moab, Utah (fig. 1). The Suerte group is located on the southwest flank of the anticline. All other groups are on the down-faulted graben area along the crest of the anticline.

The Suerte group is located in Secs. 11 and 12, T. 24 S., R. 20 E. The K-Ore group is located in Secs. 29, 32 and 33, T. 23 S., R. 21 E. The Primero and Derecho group is located in Sec. 14, T. 23 S., R. 20 E. The Nancy group is located in Sec. 9, T. 24 S., R. 22 E. The Oro group is located in Secs. 10, 11, 14 and 15, T. 24 S., R. 22 E.

HISTORY AND PRODUCTION

All claims are held by right of location. They were located in 1954. There has been no production, and no drilling or other exploratory work has been accomplished on any of the claims.

OWNERSHIP AND EXTENT

The claims are owned by a group of individuals who have formed a trust for development, naming Lothar T. Konopak as Trustee. Beneficiaries of the trust are:

1. John T. Watson, agent for Wayne Wilson, Silver City, New Mexico
2. John T. Watson, Santa Fe, New Mexico
3. James C. Skakel, Moab, Utah
4. Reed Reynolds and Joyce Melroy, jointly, Moab, Utah
5. Mrs. L. T. Konopak, Santa Fe, New Mexico

DESCRIPTION OF THE DEPOSITS

The Suerte claims cover an outcrop of the Salt Wash member of the Jurassic Morrison formation. Strata exposed range from the Summerville to the Brushy Basin. The claims are located on the southwest flank of the Salt Valley anticline and the beds dip gently to the southwest. One exposure of uranium mineralization occurs on the south rim near the top of the Salt Wash sandstone. The exposure is a small pod of mineralization that narrows to a thin seam extending along the cliff face for a distance of 50 feet.

Nancy Group

The Nancy claims cover an outcrop of the Salt Wash member of the Morrison formation. This area is composed of fault grabens of the collapsed Salt Valley anticline. Formations ranging in age from Triassic Chinle to the Cretaceous Mancos are exposed within the graben area. The small block of isolated Salt Wash has been dissected by erosion and well exposed. Within the claims two small pods of rather high-grade mineralization outcrop.

K-Ore Group

The K-Ore claims cover an outcrop of the Triassic Chinle formation. This area is composed of fault graben of the collapsed Salt Valley anticline. Formations ranging in age from the Carboniferous Paradox to the Jurassic Morrison outcrop in the area. Most of the valley bottom is covered with a mantle of alluvium. There are no known outcrops of uranium mineralization in the area.

Primero and Derecho Group

The Primero and Derecho claims cover an outcrop of Jurassic Wingate, Kayenta, and alluvium. This area is also in the down-faulted graben of the Salt Valley anticline. There are no known outcrops of uranium mineralization in the area.

Oro Group

The Oro claims cover an outcrop of the Jurassic Morrison formation. This area is composed of fault graben of the collapsed Salt Valley anticline. Formations ranging in age from the Triassic Moenkopi to the Jurassic Morrison are exposed. There are no known outcrops of uranium mineralization in the area.

PROJECT PROPOSALS

The applicant proposes to explore the properties by drilling 228 holes aggregating 70,050 feet. Maps submitted with the application show proposed locations for the holes. The purpose of the drilling is to explore such underlying formations as the Triassic Chinle and Jurassic Morrison.

The applicant estimates that about 50 percent of the holes could be drilled by wagon drill and the remainder by diamond core drill. Estimates of cost are based on bids for an average for this type of work.

The applicant states the type of drilling proposed is of a primary nature, to be followed by additional drilling in indicated areas.

CONCLUSIONS AND RECOMMENDATIONS

Uranium mineralization in minor amounts is found on two of the five claim groups listed in the application. These occurrences are on the Nancy and the Suerte groups. The mineralization is not considered to have sufficient merit to justify exploration in either case. It is believed the occurrences in these areas consist of small pods which are common in certain horizons of the Salt Wash, but which are not usually economic. The limited areal extent of the favorable horizon, in conjunction with the extensive erosional exposures of this member, precludes the possibilities of deposits of economic value on the Nancy group. The Suerte group lies in an area in which erosion has denuded a wide expanse of the Salt Wash member, and numerous canyons have been cut, exposing its full thickness. Many small pods of rather high-grade uranium mineralization have been exposed. Considerable prospecting, some drilling, and other exploratory work has been done on the surrounding area. No deposits of economic importance have been discovered.

Other claim groups listed cover outcropping areas of favorable host rocks, but have no known occurrences of mineralization.

It is recommended the loan be denied.

DMEA
IN REPLY REFER TO:
Date Rec'd
JUN 2 1955
BUREAU OF MINES
Denver, Colorado

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

June 1, 1955

RECEIVED
AUG - 1 1955

TRANSMITTED
JUL 25 1955

Memorandum

To: Field Team, Region III

From: E. N. Harshman

Subject: DMEA Docket 3593 (Uranium), L. T. Kenopak, Trustee, Suerte, Oro, Nancy, K-Ore, Primero, and Derecho groups of claims, Grand County, Utah

Enclosed are 10 copies of a geologic report by D. D. Haynes, U. S. Geological Survey, covering his examination of the subject claims.

The application for DMEA exploration assistance includes 5 claim groups along the axis or on the southwest flank of the Salt Valley anticline.

The potential ore horizon on the Suerte, Nancy, and Oro claim groups is in the Salt Wash member of the Morrison formation. On the claims it is geologically unfavorable for the occurrence of significant uranium deposits; the largest known deposits consist of scattered bodies of material containing less than 500 pounds of ore.

The Primero-Derecho and K-Ore groups of claims are underlain by the Chinle ore horizon. There are no exposures of Chinle on the claims, but the nearest exposures are lithologically unfavorable for the occurrence of significant uranium ore deposits.

Haynes concludes that geologic conditions on the various claim groups are unfavorable for the occurrence of significant uranium ore deposits and recommends that the application for exploration assistance be denied.

I concur with the recommendation.

Signature by
DMEA Supervisor-Contracts
(Date)

E. N. Harshman 8-5-55

E. N. Harshman
Member, Field Team

Enclosures (10)
ENHarshman:arh

MINERAL DEPOSITS
DMEA
RECEIVED
MAY 31 1955
U. S.
GEOLOGICAL SURVEY
DENVER, COLORADO

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

May 25, 1955

RECEIVED
AUG - 1 1955

Memorandum

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

From: W. P. Williams

Subject: DMEA 3593, L. T. Konopak, Trustee, Suerte, Oro, Nancy, K-Ore, Primero, and Derecho groups of claims, Grand County, Utah

Transmitted herewith are 11 copies of a geologic report by D. D. Haynes, covering field examination of the above-referenced property. We are returning herewith the brochure covering this application.

The Salt Wash sand lenses on the Suerte claims are generally unfavorable for the occurrence of uranium mineralization. On the Nancy claims most of the upper Salt Wash member has been eroded. The remaining sands on the Nancy claims are unfavorable for uranium mineralization. The Oro claims have poor outcrops, but the exposed Salt Wash sandstones are unfavorable. There do not appear to be any favorable host beds in the Chinle formation on the K-Ore, Primero, and Derecho claims. The nearest known ore deposits to any of the above mentioned claims are 10 miles distant. Mineralized zones on some of the claims are very small (less than 500 lbs.) and are erratic in distribution. There are no geologic reasons to indicate that undiscovered ore bodies on the property would be larger. Haynes recommends that the application for DMEA assistance be denied, and I concur with his recommendations.

The Exploration Division, U. S. Atomic Energy Commission, Grand Junction Operations Office, was asked for advice in evaluating the property. The Commission had no specific data concerning the property.

W P Williams

W. P. Williams,
Geologist

WPW/mlr

Enclosures

cc: S. R. Wilson

Reviewed by
DMEA PROJECTS COMMITTEE
8-5-55
(Date)

UNITED STATES DEPARTMENT OF THE INTERIOR

DOUGLAS McKAY, SECRETARY

RECEIVED
AUG - 1 1955

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

DMEA 3593, L. T. Konopak, Trustee, Suerte, Oro, Nancy, K-Ore, Primero, and Derecho groups of claims, Grand County, Utah

Uranium

Geologic report

by

D. D. Haynes
U. S. Geological Survey

May 25, 1955

Reviewed by
DMEA OPERATING COMMITTEE
8-5-55
(date)

DMEA 3593

INTRODUCTION

Application (DMEA docket No. 3593) has been made by Mr. L. T. Konopak, trustee, for Government assistance in exploring for uranium in the Morrison and Chinle formations, Salt Valley Anticline area, Grand County, Utah.

The applicant, L. T. Konopak, trustee for the claim owners, proposes to explore the Suerte, Oro, Nancy, K-Ore, Primero, and Derecho groups of claims with a maximum of 70,750 feet of drilling at a total cost of $247,062.50. The Government's share would be 75 percent, or $185,296.88.

The Surete claims, located in secs. 11 and 12 of T. 24 S., R. 20 E., Grand County, Utah, are approximately 14½ miles north of the uranium mill and stockpile north of Moab. They are about 10½ miles north over Highway 160 and 4 miles east over unimproved roads, past the old C.C.C. Camp.

The Oro claims, located in secs. 10, 11, 14, and 15, T. 24 S., R. 22 E., Grand County, Utah, are approximately 26 miles northeast of the uranium mill and stockpile north of Moab. The route is over 9 miles of Highway 160 and 17 miles of unimproved road through Arches National Monument. The last mile is a fair trail.

The Nancy claims, located in sec. 9, T. 24 S., R. 22 E., Grand County, Utah, are about 25 miles from the uranium mill and stockpile north of Moab. To reach them Highway 160 is followed approximately 9 miles north; then southeast 16 miles over roads through Arches National Monument.

The K-Ore claims, located in secs. 29 and 33 of T. 23 S., R. 21 E., Grand County, Utah, are approximately 26½ miles northeast of the uranium mill and stockpile north of Moab. To reach the claims, Highway 160 is traveled 9 miles north; then northeast 17½ miles through Arches National Monument toward Klondike Bluff on unimproved roads.

The Primero and Derecho claims, located in sec. 14, T. 23 S., R. 29 E., Grand County, Utah, are about 3 miles beyond the K-Ore claims on the same unimproved road toward Klondike Bluff.

The claims were examined May 10 and 11, 1955, by a Region III examining team composed of W. E. Young of the U. S. Bureau of Mines, and E. S. Santos and D. D. Haynes of the U. S. Geological Survey. The examining team was accompanied by L. T. Konopak, trustee for the claim owners.

The writer conferred with Louis Garbrecht, U. S. Atomic Energy Commission, Exploration Division, on May 6 for the purpose of evaluating the property.

GEOLOGY

The dip of the exposed rocks in the vicinity of the Suerto claims, on the southwest flank of the Salt Valley Anticline, ranges from 6° to 8° to the southwest.

The dip of the exposed rocks in the vicinity of the Primero and Derecho, and K-Ore claims is 6° to 10° to the northeast.

The dip of the exposed rocks in the vicinity of the Nancy and Oro claims, which lie in a tilted fault block area, range from 8° to 25° to the northeast to 18° to 35° to the southwest. They range in age from the Triassic Chinle formation to the Cretaceous Mancos shale.

The Triassic Chinle formation in the area consists largely of red siltstone interbedded with discontinuous sandstone lenses.

There are numerous structureless limestone pebble conglomerate beds throughout the Chinle formation. In the Seven Mile District, about 10 miles to the southwest, the limestone pebble beds are the ore producing horizons in the Chinle formation. There are no other known ore producing horizons in the Chinle in the vicinity of the claims. The Chinle averages about 250 to 275 feet in thickness and thins towards the axis of the Salt Valley Anticline.

The Triassic Wingate formation is a fine-grained, light-buff sandstone. The quartz grains are rounded and evenly sized. The Wingate crops out in sheer reddish-bluff cliffs, and is coated with desert varnish in many places. The Wingate is not an ore producer in the area. The Wingate averages about 300 feet and thins toward the axis of the Salt Valley Anticline.

The Jurassic (?) Kayenta formation lies above the Wingate formation and is about 200 to 250 feet thick. It is an irregularly-bedded and cross-bedded fine- to coarse-grained lavender and gray sandstone. It is interbedded with red sandy shales and shale pellet conglomerates. The Kayenta is not a producer of ore in the area.

The Jurassic Navajo sandstone is about 200 feet thick in the Salt Valley area and consists of a fine- to medium grained buff, quartz sandstone. It is almost devoid of horizontal bedding and nearly everywhere is tangentially cross-bedded. The Navajo is of eolian deposition and in the area is a non-producer of ore.

The Jurassic Carmel formation is about 150 feet thick in the north end of Salt Valley and thins to the east. The Carmel consists mostly of soft, red, muddy sandstone ranging in character from thin-bedded to nearly massive. It is a bench former. There are no known ore deposits in the Carmel.

The Jurassic Entrada and Moab sandstone together are about 300 feet thick, consisting of well-rounded transparent quartz grains of eolian deposition. The sand grains of the Entrada are sorted into fine and coarse beds whereas the sand grains of the Moab sandstone are of almost uniform size. The Entrada contains minor sandy shales. The Entrada weathers into nearly sheer or rounded massive cliffs. The Moab sandstone weathers into sheer cliffs. Neither are ore producers in the area.

The Jurassic Summerville formation ranges in thickness from 40 to 45 feet in the Salt Valley area. It consists of red silty shales and laminated sandstone. The sandstones may be ripple marked in places. In places the Summerville contains huge masses of chert. It is not a known ore producer in the area.

The Jurassic Morrison formation consists of the lower Salt Wash member and the upper Brushy Basin member.

The Salt Wash member consists of numerous interbedded shales, silts, and sandstones. The sandstone lenses range from 10 to 40 feet in thickness. They are dominantly fine- to medium-grained quartz grains. There are numerous chert grains in the sand lenses and locally are conglomeratic. The interbedded shales and silts range in color from red to gray or gray-green where they may be leached. The Salt Wash is a very minor ore producer in the area. The thickness varies from 250 to 325 feet.

The upper Morrison member, the Brushy Basin, consists of variegated silts and limy mudstones in varying hues of green, gray-green, red, purple and orange-yellow. There are numerous chert pebble conglomerate beds and lenticular limestones. The Brushy Basin varies in thickness from 325 to 400 feet. It is not a known ore producer in the area.

The Cretaceous Dakota formation is about 50 feet thick and consists of gray and buff sandstone. It is in part conglomeratic and contains interbedded shales. It varies from fine to coarse grained and contains calcareous and siliceous cement. In the lower part carbonaceous shales are abundant.

The Cretaceous Mancos shale varies in thickness from 0 to 50 feet in the claimed area. In its lower part it weathers to a soft, gray, clay mantle. It is not an ore producer.

The Suerte claims are partially underlain by the Jurassic Morrison formation dipping gently to the southwest. About 90 percent of the area of Surete Nos. 2 and 5 claims lies on an exposed Summerville bench. Suerte Nos. 6, 7, and 8 are covered by a Brushy Basin slope ranging in thickness from 50 to 225 feet. Suerte Nos. 1, 3, and 4 are almost wholly underlain by the Salt Wash sandstone. Part of the upper and middle Salt Wash is eroded away on claims Nos. 1 and 3.

A Salt Wash sand that is a favorable host rock for ore deposition must be fine to medium grained, be more than 20~~0~~ feet thick, contain channels which thicken the sand and form traps for ore deposition, contain gray interstitial mudstone and mudstone pellets and carbonaceous material, and gray mudstone is present both above and below the lens.

The exposed Salt Wash sand lenses underlying the Suerte claims have only the fine to medium grain size and small amounts of gray mudstone below the sand. There are no visible channels in the exposed sands. The mudstone both above and below the sands and the interstitial mudstone is dominantly red. Very little carbonaceous material was seen in the exposures.

The Nancy claims are located in the central part of Cache Valley in a tilted fault-block area. Most of the upper Salt Wash sand is missing in the area. The beds dip from 4° to 35° and the vertical displacement may be as great as 400 feet.

The sands are not favorable as they are of uniform thickness, contain no visible channels, are underlain by red mudstone, have no visible carbonaceous material, and the interstitial red mudstone and mudstone pellets have not been altered to gray.

The Oro claims lie on the exposed Morrison formation. Claims Nos. 1, 3, and 5 lie on the exposed Salt Wash and the remainder lie on the Brushy Basin slopes. There are no vertical exposures of the Salt Wash on the claims. As the sands on the Nancy claims one mile to the northwest are unfavorable for ore deposition and those exposed in the vicinity of the Oro claims are also unfavorable, it can be safely concluded the Salt Wash underlying the Oro claims is also unfavorable. The five claims to the south are in a faulted area and drilling would be difficult.

The K-Ore, Primero, and Derecho claims lie almost entirely on alluvium. The drilling depth to the top of the Chinle would probably not exceed 30 feet. The dip in the vicinity of the claims is 15° to 30° to the east and northeast.

The northeast halves of Derecho Nos. 1, 2, and 3 overlie the Wingate sandstone. The drilling depth would be about 200 to 300 feet greater in that area. The Chinle underlying the K-Ore claims would be about 200 feet thick in the northern part of the claims, thinning to less than 100 feet near the southern claim boundaries. The Chinle formation was not exposed on any of the claims. Nearby there were no favorable sandstone or limestone pebble lenses which would be favorable host beds for ore deposition.

ORE DEPOSITS

The nearest known ore deposits in the Chinle formation are 10 miles to the southwest in the Seven Mile district. In that area the ore is localized in sandy siltstone lenses and in limestone pebble conglomerate beds. The Thornburg mine, which is the nearest Chinle producer, is in the 5,000 to 50,000 ton range. There are several other smaller mines in the Seven Mile area which will produce less than 5,000 tons.

The nearest ore deposits in the Salt Wash formation are about 12 miles to the northwest in the Yellow Cat district. The ore deposits in the Yellow Cat area are of the blanket type which range from 500 ~~feet~~ H to 10,000 tons. They are elongate mineralized masses trending north or northeast. They may be as much as 200 feet long, 150 wide and 1 to 6 feet thick.

The mineralized zones in the area of the Suerte, Oro, and Nancy claims are small, lenticular bodies containing less than 500 pounds of ore grade material (ore grade being 0.1 percent U_3O_8 or 1.0 percent V_2O_5) and very erratic in distribution. They may be no more than 20 feet long, 5 feet wide and from 2 inches to 2 feet thick. The minable ore in these mineralized masses would have a much smaller lateral extent.

The mineralized outcrops on the Nancy No. 3 claim were localized near a fault in the second sandstone lens of the Salt Wash. The mineralized outcrops contained carnotite, vanoxite, and malachite.

To find new ore bodies, that may be no larger than those now known on the claimed land, would be economically impossible at present. The drilling pattern would have to be spaced on 10 to 20 foot centers. Even at shallow depths the cost would be high, but under such cover as 200 feet of Brushy Basin exploration would be impractical.

PROPOSED EXPLORATION

The applicant proposes 70,750 feet of drilling at a cost of $247,060.50, of which the DMEA is asked to loan $185,296.88.

CONCLUSIONS AND RECOMMENDATIONS

It is my opinion that the ore bodies on Nancy No. 3 and Suerte No. 4 claims are a representative sample of the size and grade of ore bodies expected on the Suerte, Oro, and Nancy claims. On the K-Ore, Primero and Derecho groups, located on the Chinle formation, there are no favorable host beds in the nearby exposures.

Because geologic conditions on the property are not favorable for the occurrence of uranium ore, and because the expected size of the ore bodies is small, there seems to be little probability that an exploration program would result in a worthwhile discovery. I, therefore, recommend that the application for DMEA assistance be denied.

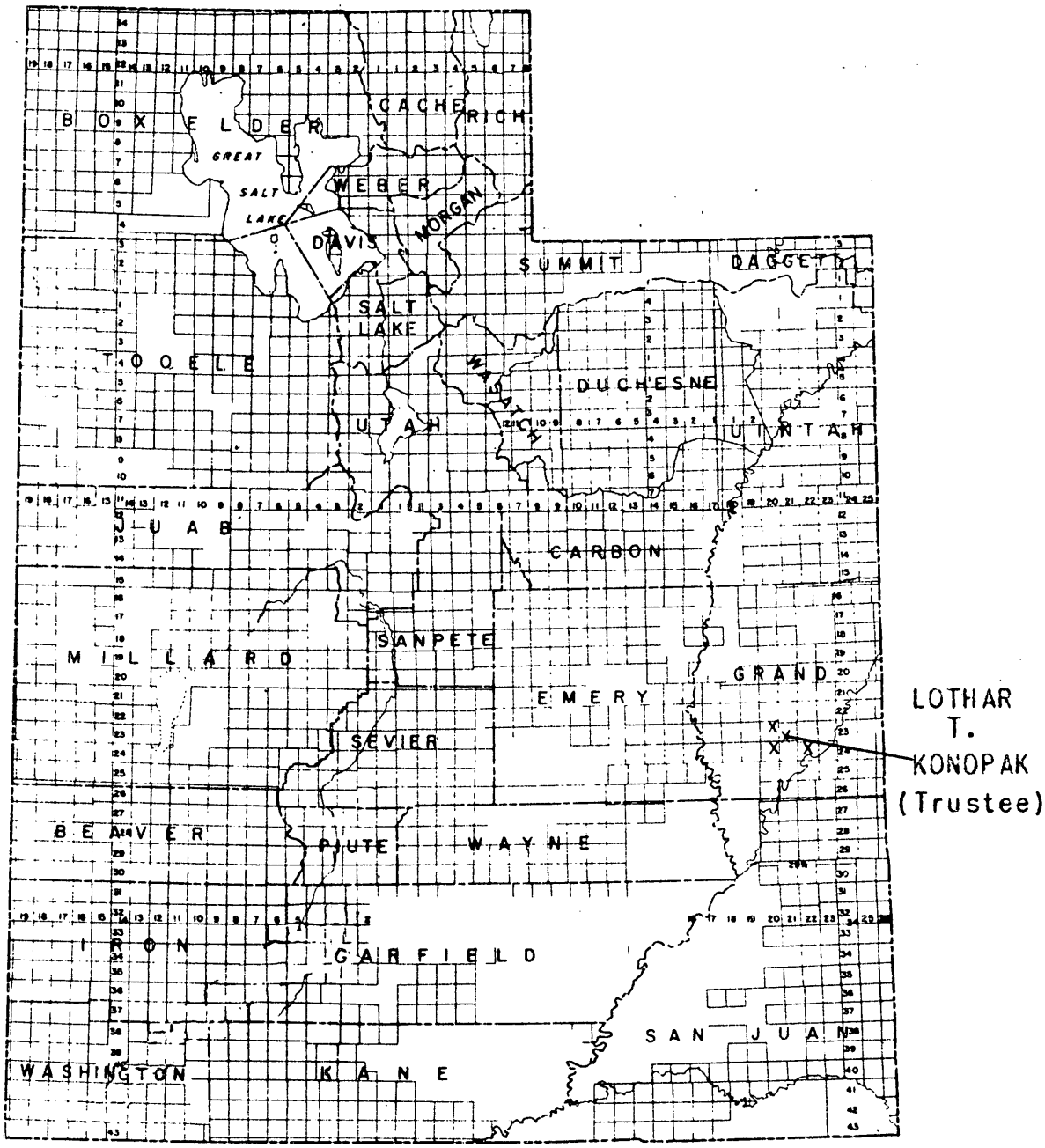
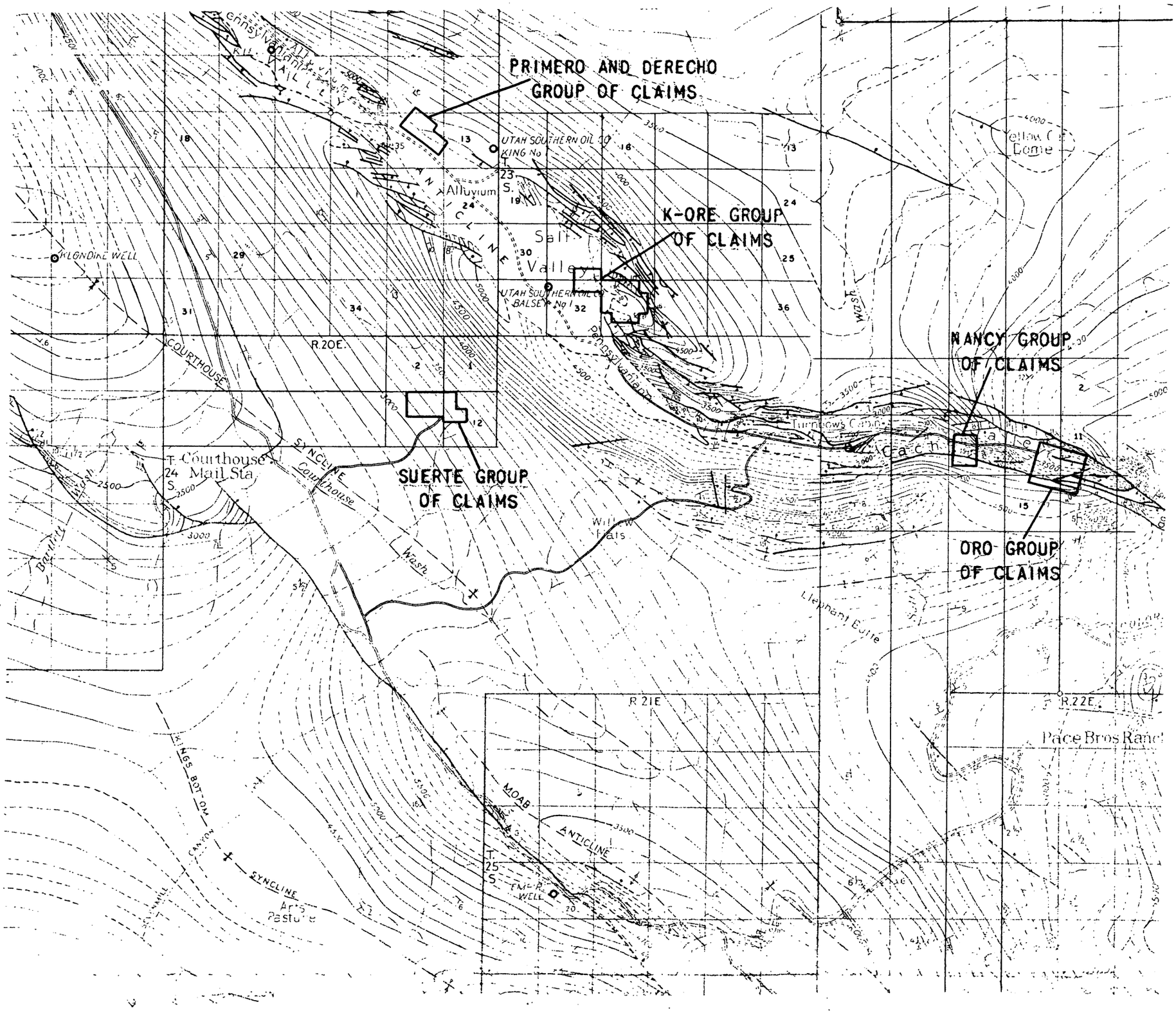


Figure 1. INDEX MAP OF UTAH SHOWING LOCATION OF LOTHAR T. KONOPAK (TRUSTEE), PROPERTY, SALT VALLEY AREA, GRAND COUNTY, UTAH



EXPLANATION

- FAULT, SHOWING DOWNTHROWN SIDE, DASHED WHERE APPROXIMATELY LOCATED
- ANTICLINE
- SYNCLINE
- STRIKE AND DIP OF BEDS
- STRUCTURE CONTOUR DRAWN ON BASE OF WINGATE SANDSTONE

Note: BASE FROM PRELIMINARY MAP OF GEOLOGIC STRUCTURE OF GRAND AND SAN JUAN COUNTIES, UTAH (OM-169)

N

1 0 4 MILES

Figure 2. GEOLOGIC MAP OF SALT VALLEY AREA, SHOWING LOCATION OF PRIMERO AND DERECHO, K-ORE, NANCY, ORO AND SUERTE GROUPS OF CLAIMS, LOTHAR T. KONOPAK, TRUSTEE, GRAND COUNTY, UTAH

8/1/55 gla

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

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224 New Customhouse
Denver 2, Colorado

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AUG - 1 1955

July 25, 1955

Memorandum

To: Secretary to the Operating Committee, DMEA

From: DMEA Field Team, Region III

Subject: Report of Examination, DMEA Docket 3593, (Uranium), L. T. Konopak, Trustee; Suerte, Oro, Nancy, K-Ore, Primero and Derecho groups of claims, Grand County, Utah

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

The field examiners conclude that conditions are unfavorable for the occurence of significant uranium ore deposits and they recommend that the application be denied.

We concur in this recommendation.

DMEA Field Team, Region III

W. M. Traver

W. M. Traver

E. N. Harshman

E. N. Harshman

Enclosures

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 2 1954

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

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

Not to be filled in by applicant

Docket No. 3593
Metal or Mineral Uranium
Date Received
Estimated Cost $247,063
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: Lother T. Konopak, Trustee
605 Camino del Monte Sol
Santa Fe, New Mexico

(*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. See page 1 attached.

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 page 2 attached.

(*b*) State any mine name by which the property is known. Not decided.

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

(*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

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. See page 13 attached.

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. See page 13 attached.

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades. See page 14 attached.

(*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. See page 14 attached.

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points. See page 27 attached.

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power. See page 29 attached.

16—66551-1

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

(*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. See page 29 attached

(*c*) The work will start within ..... days and be completed within 6 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. See page 29 attached.

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.). See page 30 attached.

(*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)? See page 33 attached.

(*b*) How do you propose to furnish your share of the costs? See page 33 attached.

☐ 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 November 20, 1954

L. I. Kornogan, Trustee
(Applicant)

By L. I. Kornogan

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

L. T. KONOPAK, TRUSTEE
605 Camino Monte Sol
Santa Fe, New Mexico

Land Office Commission
Utah
SEP 2 1957

Data Attached to Application
For Aid in an Exploration Project

1 (d). Names and Addresses of Beneficiaries of Trust: The beneficiaries of the Trust making this application are

(1) John T. Watson, Agent for
Wayne Wilson, of Silver City, New Mexico;
(2) John T. Watson, Santa Fe, New Mexico;
(3) James C. Skakel, Moab, Utah;
(4) Reed Reynolds and Joyce Melroy, Jointly, Moab, Utah;
(5) Mrs. L. T. Konopak, Santa Fe, New Mexico.

The purposes of the Trust are stated in the Trust Agreement as follows:

> "WHEREAS, the claim owners, and each of them, are desirous of joining together for the purpose of making application to the Defense Minerals Exploration Administrator for aid in an exploration project on their claims pursuant to D.M.E.A. Order No. 1, under the Defense Production Act of 1950, as amended, to obtain funds for exploring their claims, and are desirous thereafter to establish means for the production of ore from the claims, if justified by the exploration results; . . .
>
> * * * *
>
> "NOW, THEREFORE, the undersigned Claim Owners, and each of them, do hereby grant and convey unto L. T. Konopak, Trustee, in trust nevertheless for the purpose above described, subject only to the limitations set forth below, the following described claims set opposite their respective names, to-wit: . . .
>
> "Granting unto said Trustee the full and complete right to (1) make applications or commitments to the Atomic Energy Commission or Defense Mineral Exploration Administrator necessary to obtain aid on any or all claims, (2) make arrangements for the raising of funds for the owner's share of exploration costs, and (3) make such arrangement for the production of ore as may be feasible."

The aforesaid Trust Agreement was recorded in Grand County, Utah, on September 11, 1954, Book 39, pages 321-324, and entry No. 239, 183.

2. General: Aid is hereby being sought for exploring the claims under the trust agreement by core-drilling. The program which

L. T. KONOPAK, TRUSTEE
605 Camino Monte Sol
Santa Fe, New Mexico

Data Attached to Application
For Aid in an Exploration Project

is presented herewith for drilling is tentative, and the applicant is willing to make such modifications as may be desired or thought advisable by the geologists of the Atomic Energy Commission.

Before a contract is entered into with Defense Mineral Exploration Administration, the applicant expects to submit a more specific program with costs based on contracts, rather than estimates. However, it is believed that the first requirement is for the geologists of the AEC to survey the claims and decide whether, in their opinion, the possibilities of obtaining ore will justify participation by DMEA.

3. Applicant's Property Rights: The legal description of the land upon which the applicant wishes to explore is submitted as follows:

Suerte Claims

The following is a description of the Suerte claims #1 thru #8 said claims being located in the County of Grand, State of Utah, T 24 S, R 20 E, and being more particularly described as follows:

Suerte #1 - Commencing at corner #4 which is the NE Quarter corner of Section 11, T 24 S, R 20E, running thence South using the bearing of true North 600 to corner #1, thence West 1500 to corner #2, thence true North 600 to corner #3, thence East 1500 feet to corner #4 the point of beginning.

Suerte #2 - This claim is adjacent and continuous to Suerte #1, #3 and #4, the West boundary line of Suerte #2 being a common boundary line with the East boundary line of Suerte #1 and Suerte #3 and part of the East boundary of Suerte #4, and corner #4 of Suerte #1 and corner #4 of Suerte #2 being a common point and the point of beginning and running thence East 600 feet to corner #1, thence South 1500 feet to corner #2, thence West 600 feet to corner #3, thence North 1500 feet to corner #4 the point of beginning.

L. T. KONOPAK, TRU TEE,
605 Camino Monte Col,
Santa Fe, New Mexico

Data Attached to Application
For Aid in an Exploration Project

Suerte #3 - This claim is adjacent and contiguous to Suerte #1 the Southern boundary line of Suerte #1 and the Northern boundary line of Suerte #3 being a common boundary line and corner #1 of Suerte #1 and corner #4 of Suerte #3 being a common point and the point of beginning and running thence South 600 feet to corner #1, thence West 1500 feet to corner #2, thence North 600 feet to corner #3, thence East 1500 to corner #4 the point of beginning.

Suerte #4 - this claim is adjacent and contiguous to Suerte #3 the Southern boundary line of Suerte #3 and the Northern boundary line of Suerte #4 being a common boundary line and corner #1 of Suerte #3 and corner #4 of Suerte #4 being a common point and the point of beginning and running thence South 600 feet to corner #1, thence West 1500 to corner #2, thence North 600 feet to corner #3, thence East 1500 to corner #4 the point of beginning.

Suerte #5 - this claim is adjacent and contiguous to Suerte #2 and Suerte #4 the Southern boundary of Suerte #2 and part of the Northern boundary of Suerte #5 being a common boundary line and part of the Eastern boundary line of Suerte #4 and part of the Western boundary line of Suerte #5 being a common boundary line and corner #3 of Suerte #2 and corner #1 of Suerte #5 being a common point and the point of beginning and running thence East 1500 feet to corner #2, thence South 600 feet to corner #3, thence West 1500 feet to corner #4, thence North 600 feet to corner #1 the point of beginning.

Suerte #6 - This claims is adjacent and contiguous to Suerte #1 the Western boundary line of Suerte #1 and the Eastern boundary line of Suerte #6 being a common boundary line and corner #3 of Suerte #1 and corner #2 of Suerte #6 being a common point and the point of beginning and running thence South 600 feet to corner #3, thence West 1500 feet to corner #4, thence North 600 feet to corner #1, thence East 1500 feet to corner #2 the point of beginning.

Suerte #7 - This claim is adjacent and contiguous to Suerte #6 the Southern boundary line of Suerte #6 and the Northern boundary line of Suerte #7 being a common boundary line and corner #3 of Suerte #6 and corner #2 of Suerte #7 being a common point and the point of beginning and running thence South 600 feet to corner #3, thence West 1500 feet to corner #4, thence North 600 feet to corner #1, thence East 1500 feet to corner #2 the point of beginning.

Suerte #8 - This claim is adjacent and contiguous to Suerte #7 the Southern boundary line of Suerte #7 and the Northern boundary line of Suerte #8 being a common boundary line and corner #3 of Suerte #7 and corner #2 of Suerte #8 being a common point and the point of beginning and running thence

L. T. KONOPAK, TRUSTEE
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Data Attached to Application
For Aid in an Exploration Project

South 600 feet to corner #3, thence West 1500 feet to corner #4, thence North 600 feet to corner #1, thence East 1500 feet to corner #2 the point of beginning.

It should be noted that the bearings used in the above description are taken from a true North bearing there being a variation of 15 degrees 30' from magnetic North.

It should also be noted that the writer has been informed that the survey marker on the ground has been incorrectly stamped and is shown to be T 25 S but should be T 24 S.

Oro Claims

The following is a description of the Oro mining claims #1 through #10 situated in the County of Grand, State of Utah, T 24 S, R 22 E and being more particularly described as Follows:

Oro #1 - Beginning at a point which is 710 feet North 2 degrees 30' East and 1800 feet North zero degree 83' West to corner #1 and thence magnetic North 1500 to corner #2, thence South zero degree 83' East 600 feet to corner #3, thence South 1500 feet to corner #4 (said Southerly heading or bearing being taken from a magnetic North bearing) thence North zero degree 83' West 600 feet to the point of beginning corner #1.

Oro #2 - This claim is adjacent and contiguous to Oro #1 the Southerly boundary of Oro #1 and the Northerly boundary of Oro #2 being a common boundary and corner #4 of Oro #1 and corner #1 of Oro #2 being a common point and the point of beginning and running thence South 1500 feet to corner #2, thence North zero degree 83' West 600 feet to corner #3, thence North 1500 feet to corner #4, thence South zero degree 83' East to corner #1 the point of beginning.

Oro #3 - This claim is adjacent and contiguous to Oro #1 the Easterly boundary of Oro #1 and the Westerly boundary of Oro #3 being a common boundary line and corner #4 of Oro #1 and corner #1 of Oro #3 being a common point and the point of beginning and running thence North 1500 feet to corner #2, thence South zero degree 83' East 600 feet to corner #3, thence South 1500 feet to corner #4, thence North zero degree 83' West to corner #1 the point of beginning

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Data Attached to Application
For Aid in an Exploration Project

Oro #4 - This claim is adjacent and contiguous to Oro #2 the Easterly boundary line of Oro #2 and the Westerly boundary of Oro #4 being a common boundary line and corner #1 of Oro #2 and corner #4 of Oro #4 being a common point and the point of beginning and running thence South zero degree 83'East 600 to corner #1, thence South 1500 to corner #2, thence North zero degree 83'West 600 feet to corner #3, thence North 1500 feet to corner #4 the point of beginning.

Oro #5 - This claim is adjacent and contiguous to Oro #3 the easterly boundary line of Oro #3 and the Westerly boundary line of Oro #5 being a common boundary line and corner #4 of Oro #3 and corner #1 of Oro #5 being a common point and the point of beginning and running thence North 1500 to corner #2 running thence South -0 degree 83'East 600 feet to corner #3, thence South 1500 to corner #4, thence North zero degree 83'West 600 feet to corner #1 the point of beginning.

Oro #6 - This claim is adjacent and contiguous to Oro #4 and the Easterly boundary line of Oro #4 and the Westerly boundary line of Oro #6 being a common boundary line and corner #1 of Oro #4 and corner #4 of Oro #6 being a common point and the point of beginning and running thence South zero degree 83'East 600 feet to corner #1 thence South 1500 feet to corner #2, thence North zero degree 83'West 600 feet to corner #3, thence North 1500 feet to corner #4 the point of beginning.

Oro #7 - This claim is adjacent and contiguous to Oro #5 and the Easterly boundary line of Oro #5 and the Westerly boundary line of Oro #7 being a common and contiguous boundary line and corner #3 of Oro #5 and corner #2 of Oro #7 being a common point and the point of beginning and running thence North 78 degrees 30'East 600 to corner #3, thence South 1500 to corner #4, thence South 78 degrees 30'West 600 feet to corner #1, thence North 1500 feet to corner #2 the point of beginning.

Oro #8 - This claim is adjacent and contiguous to Oro #6 the Easterly boundary line of Oro #6 and the Westerly boundary line of #8 being a common boundary line and corner #1 of Oro #6 and corner #4 of Oro #8 being a common point and the point of beginning and running thence North 78 degrees 30' East 600 feet to corner #1, thence South 1500 feet to corner #2, thence South 78 degrees 30'West 600 feet to corner #3, thence North 1500 to corner #4 the point of beginning.

Oro #9 - This claim is adjacent and contiguous to Oro #7 the Easterly boundary line of Oro #7 and the Westerly boundary

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Santa Fe, New Mexico

Data Attached to Application
For Aid in an Exploration Project

line of Oro #9 being a common boundary line and corner #3 of Oro #7 and corner #2 of Oro #9 being a common point and the point of beginning and running thence North 78 degrees 30' East 600 feet to corner #3, thence South 1500 feet to corner #4, thence South 78 degrees 30' West 600 feet to corner #1, thence North 1500 feet to corner #2 the point of beginning.

Oro #10 - This claim is adjacent and contiguous to Oro #8 the Easterly boundary line of Oro #8 and the Westerly boundary line of Oro #10 being a common boundary line and corner #1 of Oro #8 and corner #4 of Oro #10 being a common point and the point of beginning and running thence North 78 degrees 30 ' East 600 feet to corner #1, thence South 1500 feet to corner #2, thence South 78 degrees 30' West to corner #3, thence North 1500 feet to corner #4 the point of beginning.

It should be noted that the courses and distances recited herein are recited as being based on magnetic North there being a variation between true North and magnetic North of 15 degrees and 30'.

Nancy Claims

The following is a description of the Nancy Claims #1 through #4 situated in Grand County, State of Utah, T 24 S, R 22 E, SLM and being more particularly described as follows:

Nancy #1 - Beginning at a point at the West Quarter corner of Section 10, T 24 S, R 22 E, said point being 50 feet South of the discovery monument of said Nancy #1 and running thence West 300 feet to corner #1, thence North 1500 feet to corner #2, thence East 600 feet to corner #3, thence South 1500 feet to corner #4, thence West 300 feet to the point of beginning.

Nancy #2 - This claim is adjacent and contiguous to Nancy #1 the Southerly boundary of Nancy #1 and the Northerly boundary of Nancy #2 being a common boundary and corner #4 of Nancy #1 and corner #1 of Nancy #2 being a common point and the point of beginning and running thence South 1500 feet to corner #2, thence West 600 feet to corner #3, thence North 1500 to corner #4, thence East 600 feet to corner #1 the point of beginning.

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Santa Fe, New Mexico

Data Attached to Application
For Aid in an Exploration Project

Nancy #3 - This claim is adjacent and contiguous to Nancy #1 the Westerly boundary of Nancy #1 and the Easterly boundary of Nancy #3 being a common boundary and corner #1 of Nancy #1 and corner #4 of Nancy #3 being a common point and the point of beginning and running thence West 600 feet to corner #1, thence North 1500 feet to corner #2, thence East 600 to corner #3, thence South 1500 feet to corner #4 the point of beginning.

Nancy #4 - This claim is adjacent and contiguous to Nancy #3 the Southerly boundary of Nancy #3 and the Northerly boundary of Nancy #4 being a common boundary and corner #4 of Nancy #3 and corner #1 of Nancy #4 being a common point and the point of beginning and running thence South 1500 feet to corner #2, thence West 600 feet to corner #3, thence North 1500 feet to corner #4, thence East 600 feet to corner #1 the point of beginning.

The courses and distances described in the foregoing descriptions are based upon magnetic North bearing there being a variation between true North and magnetic North of 15 degrees and 30'.

The following is a description of the Nancy Claims #5 and #6 said claims being located in the County of Grand, State of Utah in the East 1/2 of section 9 of T 24 S, R 22 E, SLM, and being more particularly described as follows:

Nancy #5 - Beginning at corner #1 of Nancy #5 which corner is 114 feet East of the Arches National Monument boundary in the East 1/2 of Section 9, T 24 S, R 22 E and running thence North 9 degrees 30' East 1500 feet to corner #2, thence West 600 feet to corner #3, thence South 1500 feet to corner #4, thence East 600 feet to corner #1 the point of beginning.

Nancy #6 - This claim is adjacent and contiguous to Nancy #5 the Southerly boundary of Nancy #5 and the Northerly boundary of Nancy #6 being a common boundary and corner #4 of Nancy #5 and corner #1 of Nancy #6 being a common point and the point of beginning and running thence South 15 degrees 30' East 1500 feet to corner #2, thence West 600 feet to corner #3, thence North 15 degrees 30' West 1500 feet to corner #4, thence East 600 feet to corner #1 the point of beginning.

It should be noted that the courses and distances described herein are described from a magnetic North bearing there being a variation between true and magnetic North of 15 degrees and 30'.

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Data Attached to Application
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K-Ore Claims

The following is a description of the mining claims known as the K-Ore mining claims #1 thru #4 inclusive located in the County of Grand, State of Utah, T 23 S, R 21 E, SLM.

K-Ore #1 - Commencing at the NW quarter corner of Section 33, T 23 S, R 21 E, SLM, said point being 10 feet East of the discovery monument of said claim and running thence North zero degree 03' West 300 feet to corner #1, thence South 89 degrees 58' West 1500 feet to corner #4, thence South zero degree 03' West 600 feet to corner #3, thence North 89 degrees 58' West 1500 feet to corner #2, thence North zero degree 03' West 300 feet to the point of beginning.

K-Ore #2 - This claim is adjacent and contiguous to K-Ore #1 the East boundary of K-Ore #1 and the West boundary of K-Ore #2 being the common boundary in part the point of beginning of the description of K-Ore #1 and corner of #1 of K-Ore #2 being a common point on said common boundary line and K-Ore #2 being described as follows: Beginning at the NW Quarter corner of Section 33, T 23 S, R 21 E, said point being corner #1 of the K-Ore #2 mining claim and running thence 88 degrees 58' East 600 to corner #2, thence South 01 degree 02' West 1500 feet to corner #3, thence North 88 degrees 58' West 300 feet to corner #4, thence North 01 degree 02' East 1500 feet to corner #1 the point of beginning.

K-Ore #3 - This claim is adjacent and contiguous to K-Ore #2 the whole of the East boundary of K-Ore #2 and the whole of the West boundary line of K-Ore #3 being a common boundary line, corner #2 of K-Ore #2 and corner #1 of K-Ore #3 being common point and the point of beginning and running thence South 89 degrees 59' East 600 feet to corner #2, thence South 01 degree 02' West 1500 feet to corner #3, thence North 89 degrees 59' West 300 feet to corner #4, thence North 01 degree 02' East 1500 feet to corner #1 the point of beginning.

K-Ore #4 - This claim is adjacent and contiguous to K-Ore #3 the whole of the East boundary line of K-Ore #3 and the whole of the West boundary line of K-Ore #4 being a common boundary line. Corner #2 of K-Ore #3 and corner #1 of K-Ore #4 is a common point and the point of beginning and running thence North 89 degrees 08' East 300 feet to corner #2, thence South 01 degree 02' West 1500 feet to corner #3, thence South 89 degrees 08' West 300 feet to corner #4, thence North 01 degree 02' East 1500 feet to corner #1 the point of beginning.

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Santa Fe, New Mexico

Data Attached to Application
For Aid in an Exploration Project

K-Ore #5 - This claim is adjacent and contiguous to K-Ore #2 and K-Ore #3 the North boundary line of K-Ore #5 being a common boundary line with part of the Southern boundary line of K-Ore #2 and part of the Southern boundary line of K-Ore #3 and beginning at corner #1 which is a point South 10 degrees 30' East 1528 feet and running thence North 89 degrees 37½' East 600 feet to corner #2 running thence South zero degree 24½' East 1500 feet to corner #3, thence South 89 degrees 35½' West 600 feet to corner #4, thence North zero degree 24½' West 1500 feet to corner #1 the point of beginning.

K-Ore #6 - This claim is adjacent and contiguous to K-Ore #5 the East boundary line of K-Ore #5 and the West boundary line of K-Ore #6 being a common boundary line and corner #2 of K-Ore #5 and corner #1 of K-Ore #6 being a common point and a point of beginning and running thence North 89 degrees, 37½' East 600 feet to corner #2, thence South zero degree 24½' East 1500 feet to corner #3, thence South 89 degrees 35½' West 600 feet to corner #4, thence North zero degree 24½' West 1500 feet to corner #1 the point of beginning.

K-Ore #7 - This claim is adjacent and contiguous to K-Ore #6 the East boundary line of K-Ore #6 and the West boundary line of K-Ore #7 being a common boundary line and corner #2 of K-Ore #6 and corner #1 of K-Ore #7 being a common point and a point of beginning and running thence North 89 degrees 37½' East 600 feet to corner #2, thence South zero degree 24½' East 1500 feet to corner #3, thence South 89 degrees 35½' West 600 feet to corner #4, thence North zero degree 24½' West 1500 feet to corner #1 the point of beginning.

K-Ore #8 - This claim is adjacent and contiguous to K-Ore #7 the East boundary line of K-Ore #7 and the West boundary line of K-Ore #8 being a common boundary line and corner #2 of K-Ore #7 and corner #1 of K-Ore #8 being a common point and the point of beginning and running thence North 89 degrees 37½' East 600 feet to corner #2 thence South zero degree 24½' East 1500 feet to corner #3 thence South 89 degrees 35½' West 600 feet to corner #4 thence North zero degree 24½' West 1500 to corner #1 and the point of beginning.

K-Ore #9 - This claim is adjacent and contiguous to K-Ore No.5, K-Ore #6 and K-Ore #7 the Northern boundary line of K-Ore #9 being a common boundary line with part of the Southern boundary line of K-Ore #5 and a common boundary line with all of

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Santa Fe, New Mexico

Data Attached to Application
For Aid in an Exploration Project

the Southern boundary of K-Ore #6 and all of the Southern Boundary of K-Ore #7 and beginning at corner #1 of K-Ore #9 which is a point South 11 degrees 20'East 3060 feet and running thence North 89 degrees 35½'East 1500 feet to corner #2, thence South zero degree 24½'East 600 feet to corner #3, thence South 89 degrees 35½'West 1500 to corner #4, thence zero degree 24½'West 600 to corner #1 the point of beginning.

L. T. KONOPAK, TRUSTEE
605 Camino Monte Sol
Santa Fe, New Mexico

Data Attached to Application
For Aid in an Exploration Project

Primero and Derecho Claims

Primero #1 - Commencing at the Northeast corner being corner #4 which lies 78 feet due West of the quarter corner of Sections 13 and 14, Township 23 South, Range 20 East, SLM, Grand County, Utah, running thence North 58 degrees West 1500 feet to corner #3, thence South 32 degrees West 600 feet to corner #2, being identical with corner #4 of Derecho #1 hereinafter described, thence South 58 degrees East 1500 feet to corner #1, thence North 32 degrees East 600 feet to the point and place of beginning.

Derecho #1 - This claim is adjacent and partially contiguous to the West boundary of Primero #1 and is described as beginning at the Southeast corner being corner #4 of this claim, a point identical with corner #2 of Primero #1 above described and running thence North 32 degrees East 1500 feet to corner #3, thence North 58 degrees West 600 feet to corner #2, a point identical with corner #3 of Derecho #2 hereinafter described, thence South 32 degrees West along a common boundary of this claim and Derecho #2 hereinafter described 1500 feet to corner #1, being a point identical with corner #4 of Derecho #2, thence South 58 degrees East 600 feet to the point and place of beginning.

Derecho #2 - This claim is adjacent and contiguous to Derecho #1, the East boundary line of this claim and the West boundary line of Derecho #1 being a common line, and corner #4 of this claim and corner #1 of Derecho #1 being a common point, and corner #3 of this claim and corner #2 of Derecho #1 being a common point, and beginning at said corner #1 of Derecho #1 running thence along said common boundary North 32 degrees East 1500 feet to corner #3, thence North 58 degrees West 600 feet to corner #2, being a point common with corner #3 of Derecho #3 hereinafter described, thence South 32 degrees West 1500 feet to corner #1 of this claim being a point common to corner #4 of Derecho #3 hereinafter described, thence South 58 degrees East 600 feet to the point and place of beginning.

Derecho #3 - This claim is adjacent and contiguous to Derecho #2, the East boundary line of this claim and the West boundary line of Derecho #2 being a common

L. T. KONOPAK, TRUSTEE
605 Camino Monte Sol
Santa Fe, New Mexico

Data Attached to Application
For Aid in an Exploration Project

Primero and Derecho Claims

line and corner #3 of this claim being a common point with corner #2 of Derecho #2 and corner #4 of this claim being a common point with corner #1 of Derecho #2 and beginning at corner #1 of this claim, thence North 32 degrees East along said common line 1500 feet to the common point, being corner #3 of this claim and corner #2 of Derecho #2, thence North 58 degrees West 600 feet to corner #2, thence South 32 degrees West 1500 feet to corner #1, thence South 58 degrees East 600 feet to the point and place of beginning.

L. T. KONOPAK, TRUSTEE
605 Camino Monte Sol
Santa Fe, New Mexico

Data Attached to Application
For Aid in an Exploration Project

3(f). Recording Data re Claims: The book and page numbers for each recorded location notice are submitted as follows:

Mine Name	Locator	Original Entry Book	Original Entry Page	Original Entry Entry No.	Amended Entry No.
Suerte #1	Skakel, Watson	24	488		
Suerte #2	" "	24	489		
Suerte #3	" "	24	489		
Suerte #4	" "	24	490		
Suerte #5	" "	24	490		
Suerte #6	" "	27	522		
Suerte #7	" "	27	522		
Suerte #8	" "	27	523		
Oro #1	Skakel, Reynolds, Watson	23	364		
Oro #2	" " "	23	364		
Oro #3	" " "	23	365		
Oro #4	" " "	23	365		
Oro #5	" " "	23	366		
Oro #7	" " "	23	366		
Oro #8	" " "	23	367		
Oro #9	" " "	23	367		
Oro #10	" " "	23	368		
Nancy #1	J. C. Skakel	18	22		
Nancy #2	"	18	22		
Nancy #3	"	18	23		
Nancy #4	"	18	23		
Nancy #5	"	18	24		
Nancy #6	"	18	24		
K-Ore #1	Mrs. L. T. Konopak	25	205	225,207	
K-Ore #2	"	25	205	225,208	
K-Ore #3	"	25	206	225,209	229,980
K-Ore #4	"	25	206	225,210	229,981
K-Ore No.5	"	25	207	225,211	229,982
K-Ore #6	"	25	207	225,212	229,983
K-Ore #7	"	25	208	225,213	229,984
K-Ore #8	"	25	208	225,214	229,985
K-Ore #9	"	25	209	225,216	229,986
Primero #1	Skakel, Watson, Melroy	20	64		
Derecho #1	" " "	20	63		
Derecho #2	" " "	20	64		
Derecho #3	" " "	20	65		

4. Physical Description:

4(a). Exploration Operations: There have been no mining or exploration operations, such as drilling, conducted upon

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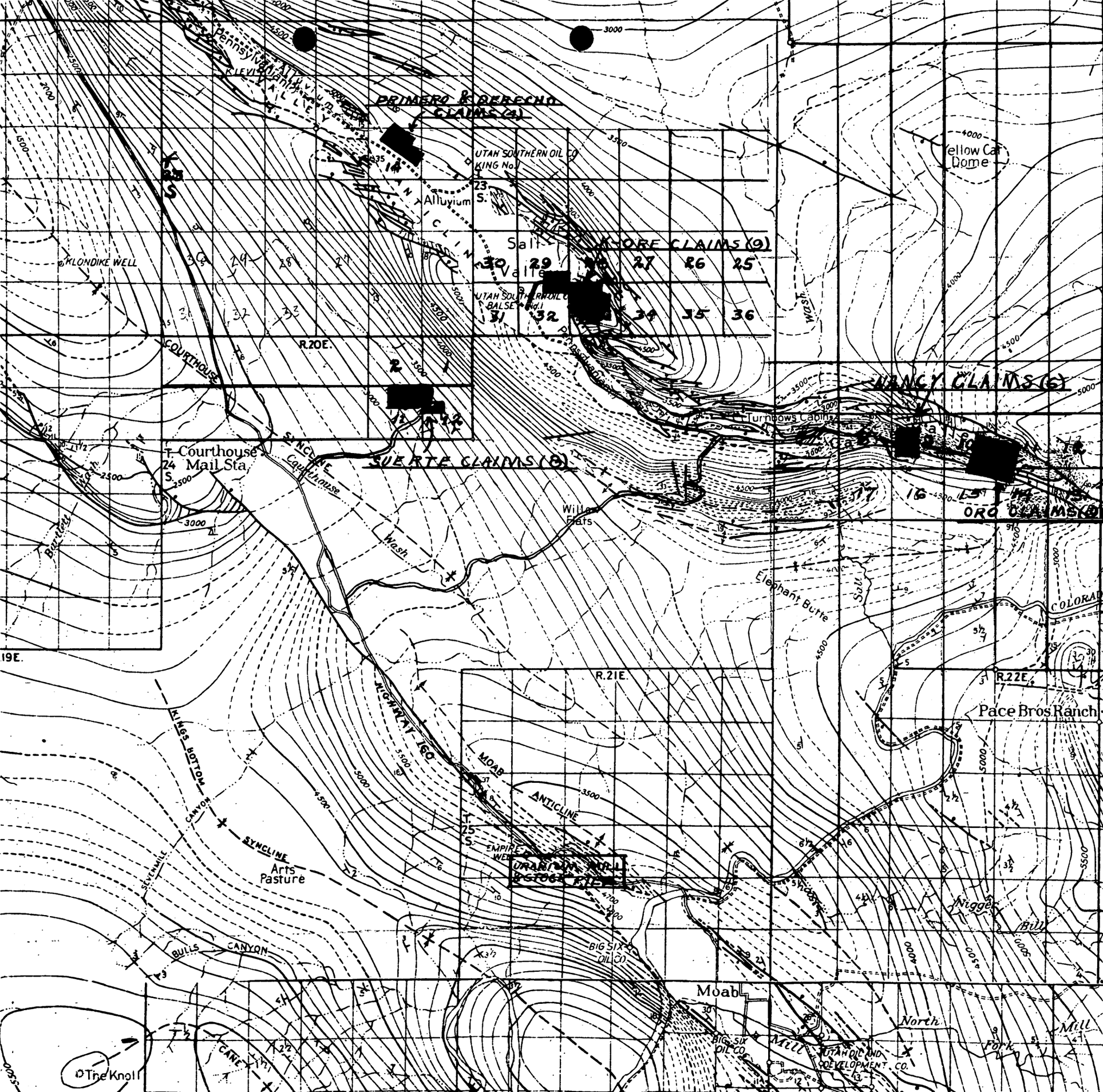
Data Attached to Application
For Aid in an Exploration Project

the lands involved herein. There are no existing mines working or production facilities available.

4 (b). Production: There has been no production in the past, nor is there any current production. The ore reserves on the claims involved herein are undetermined.

4 (c). The claims involved herein and the roads leading to them are shown on the map on the next page, which covers that part of Grand County, Utah, in which they are located.


PRIMERO & DERECHO CLAIMS (4)
UTAH SOUTHERN OIL CO
KING No.1
Alluvium
Salt Valley
ORE CLAIMS (9)
KLONDIKE WELL
UTAH SOUTHERN OIL CO
BALSE No.1
R.20E.
Courthouse
T. Courthouse
24 Mail Sta.
S.
SYNCLINE
Courthouse
Wash
SUERTE CLAIMS (8)
Willow Flats
Turnbows Cabin
NANCY CLAIMS (6)
ORO CLAIMS (8)
Elephant Butte
Salt
Wash
Yellow Cat Dome
COLORADO
R.21E.
R.22E.
Pace Bros Ranch
HIGHWAY 160
MOAB
ANTICLINE
T. 25 S.
EMPIRE
URANIUM MILL
& STOCK PILE
KINGS BOTTOM
CANYON
SYNCLINE
Arts Pasture
SEVENMILE
BULLS
CANYON
BIG SIX OIL CO.
Moab
BIG SIX OIL CO.
UTAH OIL AND DEVELOPMENT CO.
Mill
North
Fork
Mill
Nigger
Bill
CANE
The Knoll
Burlap
19E.

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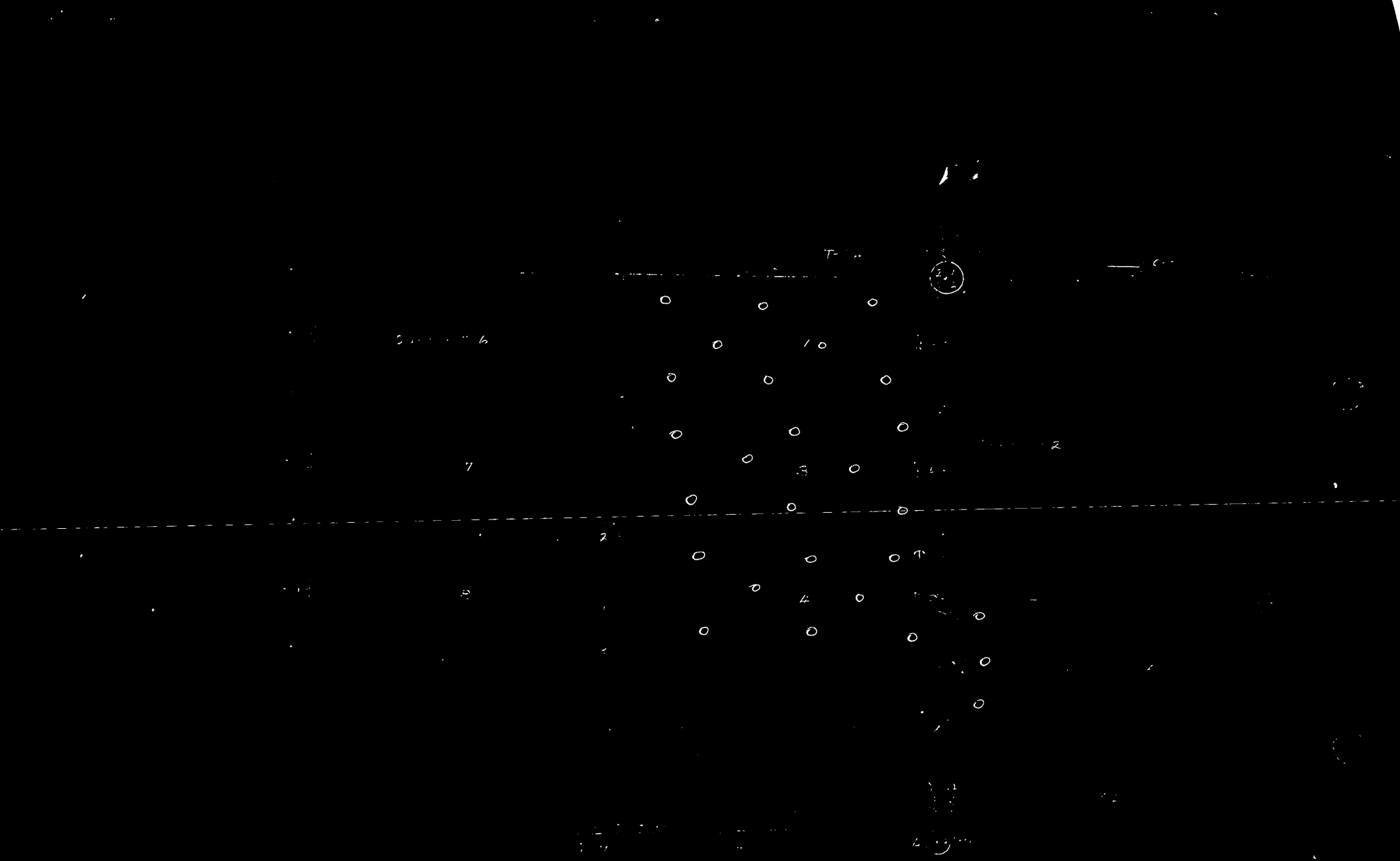
4 (c). Geological Features: The applicant's reasons for wishing to explore the claims are to determine the extent and accessability of uranium ore, and the feasibility of conducting a mining operation. Maps and the geological features of the respective claims are submitted as follows:

Suerte Claims



O - PROPOSED DRILLING

L. T. KONOPAK, TRUSTEE
605 Camino Monte Sol
Santa Fe, New Mexico

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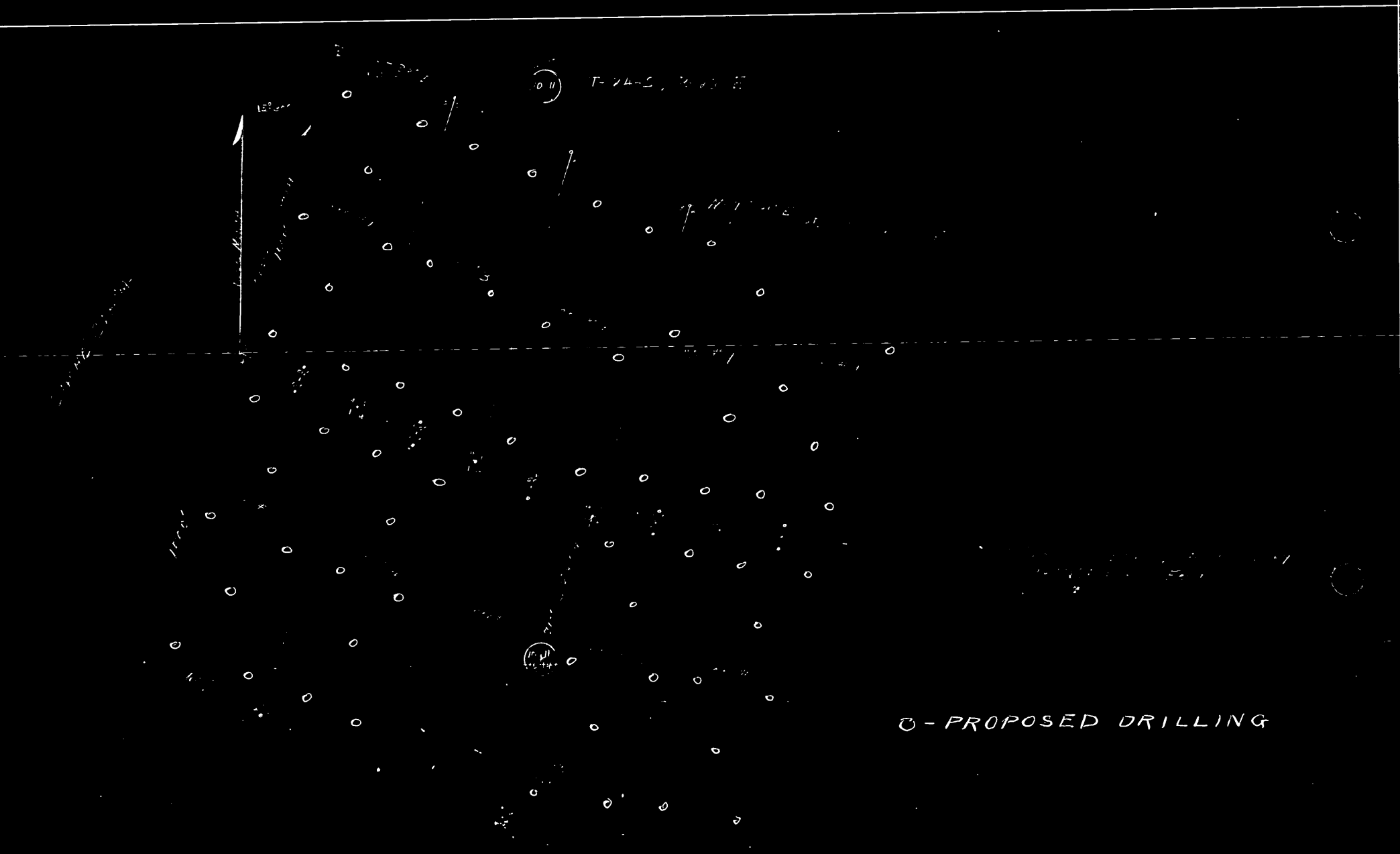
For Aid in and Exploration Project

Geological Features of Suerte Claims.

There are eight Suerte Claims located in Sections 11 and 12 of T.24 S., R.20 E. These claims are located entirely in the Morrison formation, as shown on Plate No. 1 of USGS in Geology of the Salt Valley Anticline and Adjacent Areas, Grant County, Utah, by C. H. Dane, Bulletin 853. Claims Nos. 6, 7 and 8 are on top of the Brushy Basin member of the Morrison; and Claims Nos. 1, 3 and 4, and a portion of the West end of No. 5 are on top of the Salt Wash member. The major portion of Nos. 2 and 5 are in the second rim of the Salt Wash member. An ore showing exists in the northeast corner of No. 4.

The applicant believes that the primary drilling should be confined to those claims lying on the top of the Salt Wash member, i.e., in claims Nos. 1, 3, 4 and the West end portion of No.5. The drilling depth will probably not exceed 200 feet.

Cro Claims


O - PROPOSED DRILLING

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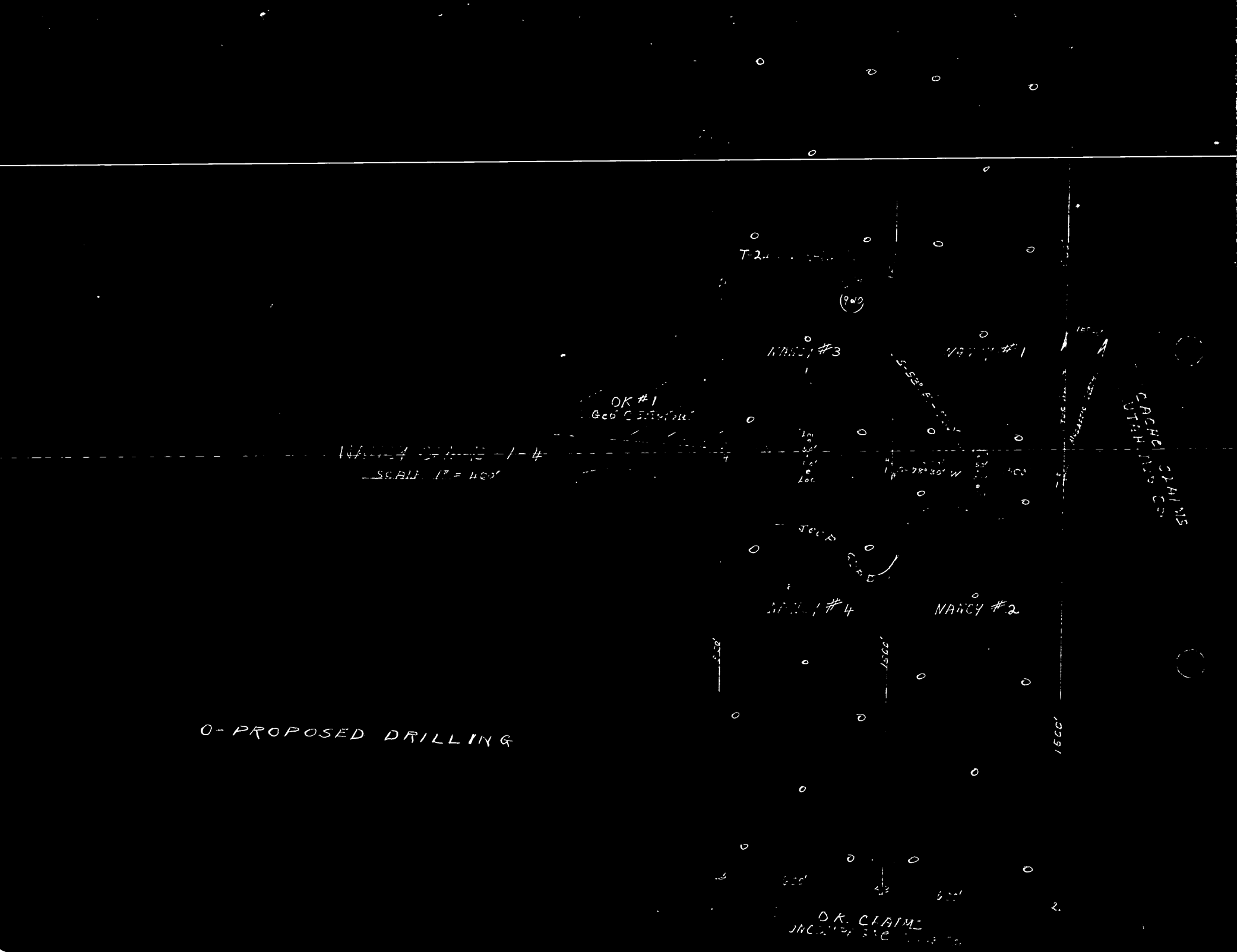
Geological Features of Oro Claims

There are nine Oro Claims located in Sections 10, 11, 14 and 15 of T. 24 S., R. 22 E. These claims are located on the floor of Cache Valley, and lie almost entirely exposed in the Salt Wash member of the Morrison formation, as shown by Plate #1, USGS Bulletin 863, supra. The Brushy Basin of the Morrison formation is exposed just North of Claims Nos. 1, 3 and 5, which indicates that most of these three claims are on the top of the Salt Wash member.

Claims 1, 3 and 5 should be drilled in the program of primary drilling. The remaining claims include many faults within the Cache Valley and more detailed study will be necessary to determine final locations for drilling. The depth of the Salt Wash on claims Nos. 1, 3 and 5 should not exceed 200 feet, while the depth on the remaining claims will vary with the depth of the formation and may run as deep as 600 feet.

Nancy Claims


T-2
NANCY #3
NANCY #1
OK #1
Geo C
SCALE 1" = 400'
S-52° E
N-78°30' W
CACHE
UTAH
NANCY #4
NANCY #2
1500'
O- PROPOSED DRILLING
OK CLAIMS

600'
TRUE NORTH
15°30'
T24S R22E
1/4 Cor.
9
10
MAGNETIC NORTH
S 67°30' W 2562'
NANCY #5
1500'
300'
Deer Creek x Wash
S-15°30' E
NANCY #6
1500'
600'
ARCHES NAT. MON.
NANCY CLAIMS - 6 x 6
T-24-S , R-22-E - E 1/2 Sec. 9
NOTE: ALL BEARINGS MAGNETIC NORTH
O-PROPOSED DRILLING

L. T. KONOPAK, TRUSTEE
605 Camino Monte Sol
Santa Fe, New Mexico

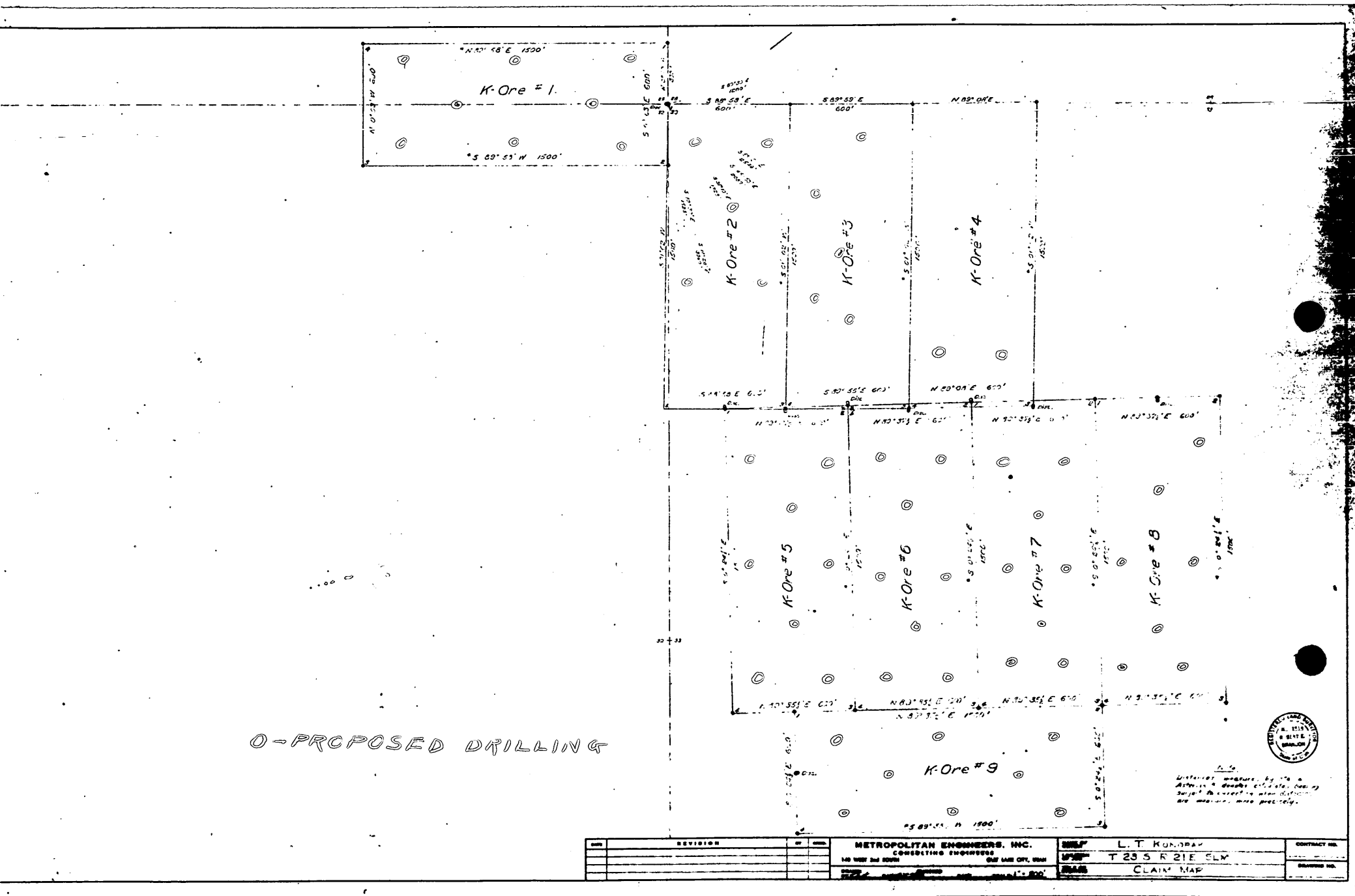
Data Attached to Application
For Aid in and Exploration Project

Geological Features of Nancy Claims

There are six Nancy Claims located in Section 9, T. 24 S., R. 22 E. These claims lie in an extremely faulted area of the Cache Valley Graben in which there are exposed both members of the Morrison formation and also the Dakota formation, as shown in Plate #1, USGS Bulletin 863, supra.

From the base of the Bushy Basin to the base of the Salt Wash member, the depth appears to be approximately 200 feet with variation of 200 feet according to the depth of the formations. One ore showing exists on claim No. 3 and appears to be in the top rim of the Salt Wash member.

K-Ore Claims


K-Ore # 1.
K-Ore #2
K-Ore #3
K-Ore #4
K-Ore #5
K-Ore #6
K-Ore #7
K-Ore #8
K-Ore #9
O-PROPOSED DRILLING
REVISION
METROPOLITAN ENGINEERS, INC.
CONSULTING ENGINEERS
L. T. KUNDRAT
T 23 S R 21 E SLM
CLAIM MAP

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Santa Fe, New Mexico

Data Attached to Application
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Geological Features of K-Ore Claims

There are nine K-Ore Claims. They are located in Sections 29 and 33, T. 23 S., R. 21 E. These claims are located in an exposed Chinle red shale, as shown on Plate #1, USGS Bulletin 836, supra.

From Plate No. 3 of the aforesaid bulletin, it appears that the depth of the Chinle formation would be approximately 300 feet. This entire depth should be drilled. A narrow neck of Paradox runs well into the center of these claims, and no drilling is suggested in this formation. The Wingate formation is exposed in portions of claims Nos. 3 and 4 and it is not proposed to drill them in the primary drilling program.

Primero and Derecho Claims

DERECHO #3
DERECHO #2
DERECHO #1
PRIMERO #1
N-58° W
T-23-S R-23-E S.L.M.
O - PROPOSED DRILLING
DERECHO #1 2 & 3 - PRIMERO #1
SCALE - 1" = 200'

L. T. Schubert, [illegible]
605 Camino Monte Sol
Santa Fe, New Mexico

Data Attached to Application
for Aid in an Exploration Project

Geological Features of Primero and Derecho Claims

There are one Primero and three Derecho Claims located in Section 14, T. 23 S., R. 20 E. These four claims lie mostly on a surface of alluvial fill. However, a narrow strip of Chinle shale in Primero No. 1 indicates that the alluvial fill is very shallow, and Plate No. 3 of USGS Bulletin 863, supra, shows the Chinle formation to be very near the surface, and, therefore, worthy of exploration.

The total depth to the base of the Chinle will be approximately 35[illegible] feet. In a small portion of each claim at the North, the Wingate formation is exposed, and it is not intended to drill this formation in the primary drilling program.

4(d). Accessibility of Claims: The Puerto Claims located in Sections 11 and 12 of T. 24 S., R. 20 E., are approximately 14½ miles from the Uranium Mill and Stock Pile North of Moab. Ten and one-half miles North of the Uranium Mill on Highway 160, the trail runs in an easterly direction to the Puerto Claims for approximately four miles, of which the last mile would have to be graded for transporting the drilling equipment.

The Oro Claims located in Sections 10, 11, 14 and 15, T. 24 S., R. 22 E., are approximately 26 miles from the Uranium Mill and Stock Pile North of Moab. To reach these claims,

L. T. KOLOPAK, CHU TEN
605 Camino Monte Sol
Santa Fe, New Mexico

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Highway 160 is followed for approximately nine miles North of the Uranium Mill, then an easterly direction is pursued on the road leading into and through the Arches National Monument for 15 miles, after which there is a fairly good trail for 7/10 of a mile. The last 1½ miles will have to be graded for transportation of drilling equipment. These claims are about 1½ miles beyond the Nancy Claims.

The Nancy Claims, located in Section 9, T.24 S., R.22 E., are approximately 25 miles from the Uranium Mill and Stock Pile North of Moab. To reach them, highway 160 is followed for approximately nine miles North of the Uranium Mill. Then the road to and through the Arches National Monument is followed for the next 16 miles. Approximately 3/4 of a mile of grading would be required for transportation of drilling equipment.

The K-Ore Claims, located in Sections 29 and 33 of T. 23 S., R. 21 E., are approximately 26½ miles from the Uranium Mill and Stock Pile at Moab. To reach them, Highway 160 is traveled for approximately nine miles North of the Uranium Mill. Then the next 17 miles are to and through the Arches National Monument toward Klondike Bluff. Approximately the last mile will have to be grated for transportation of drilling equipment.

The Primero and Derecho Claims, located in Section 14, T. 23 S., R. 20 E., are about three miles beyond the K-Ore claims on the same road toward Klondike Bluff. They are ap-

L. T. Konopak, Trustee
605 Camino Monte Sol
Santa Fe, New Mexico

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For Aid in an Exploration Project

proximately 30 miles from the Uranium Mill and Stock Pile North of Moab. A couple of miles of grading would be required for the transportation of drilling equipment.

4(e). Availability of Supplies and Manpower: Considering the activities in the Moab area, there are plenty of supplies and manpower available. Water will have to be trucked to the claims for use in drilling.

5(b). Exploration Work: The drilling now proposed for the exploration of the claims involved herein is shown hereinbefore on the maps submitted under 4(c). Reference is also therein made to such features as ore showings and the geological structures of the claims.

5(d). Operating Experience: The applicant is not experienced in mining. He is the senior member of the firm of Konopak & Dalton, Certified Public Accountants, of Toledo, Ohio. The business of the firm was started by the applicant on January 1, 1919. The firm has about 80 employes, and has made audits for clients both small and large. Its largest client did a business of approximately 250 million dollars per year during the war years. The applicant, personally, has had a great deal of experience in formulating and directing the operations of new businesses, especially manufacturing.

L. T. KLNOPAK, TRUSTEE
605 Camino Monte Sol
Santa Fe, New Mexico

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For Aid in and Exploration Project

The future plans of operating these claims are contingent upon the granting of this application for aid. Until the AMSA has approved our application, it is folly to make any contracts or firm commitments. When our application is approved, several firm bids from drilling companies will be obtained and a contract will be let to the lowest and best bidder. A geologist acceptable to AEC will be employed to surpervise the drilling operations. At the present time it is contemplated that Mr. Bill Owen, of Moab, Utah, will be employed as the geologist. However, as the applicant cannot determine how long it will take the AMSA to approve its application, a firm commitment of employment to Mr. Owen cannot be made at this time. The applicant believes that Mr. Owen is acceptable to the AEC, but if he is not available when this application is approved, then some other geologist acceptable to AEC will be employed.

After the drilling has been completed and if it is then found that a mining operation will be commercially feasible, then an expert mining engineer will be employed to set up a mining organization and to managed its operationsl Obviously, no firm commitments can be made for these future plans until this application has been approved by AMSA.

6. <u>Estimated Costs:</u> -

6(a). <u>Independent Contracts:</u> The applicant contemplates

30

L. T. KOROPAK, TRUSTEE
605 Camino Monte Sol
Santa Fe, New Mexico

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For Aid in an Exploration Project

having all work in connection with the drilling done by independent contractors. The holes now proposed to be drilled are considered as the first or primary program for the purpose of determining the location of the ore. Depending upon the cores and findings in the primary drilling, it will be necessary to institute a secondary drilling program to determine the extent of the ore and the commercial feasibility of mining it. It is contemplated that the secondary drilling may be the subject of a second contract with AEC, for the reason that the extent of it is impossible to determine until the primary drilling program is completed.

As no firm commitments have been made for the drilling operation herein proposed, the applicant desires to emphasize the fact that he is willing to modify the program in accordance with the superior judgment of the geologists in the AEC.

The locations proposed for drilling are marked on the maps hereinbefore submitted under 4(c). The applicant has a bid for the drilling work as follows:

<u>Drilling Costs</u>: EX size core (2 1/8") and 3⅝" Plug Bit Drilling:

<u>Solid Bit Drilling</u>

0 to 200 feet at $1.65 per foot
200 to 300 feet at $2.25 per foot
300 to 400 feet at $2.55 per foot

31

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Core Drilling
0 to 200' at $3.00 per ft.
200 to 300' at $3.80 per ft.
300 to 400' at $4.25 per ft.

Stand-by Time: Any time in excess of two hours that the equipment is required to stand by for the convenience of the owner will be paid for at the rate of $8.00 per hour.

Moving Time: For each move from drill hole to drill hole, the cost will be $35.00 per move.

Access Roads: Bulldozer costs for making access roads will be at the rate of $10.00 per hour.

According to the above bid for the work, the costs of the drilling program, as shown on the maps hereinbefore submitted, are summarized as follows:

Name of Claim	No. of Holes	Average Depth	Total Footage Drilled	Total Cost
Suerte	27	200'	5,460'	$ 12,960.00
Oro	63	200'- 600'	24,000'	82,680.00
Nancy	48	200'- 300'	12,800'	36,480.00
K-Ore	59	300'	17,700'	53,775.00
Primero and Derecho	31	350'	10,850'	37,187.50
Totals	228		70,750'	$223,082.50

Cost of moving equipment to 228 holes @ $35 per hole		7,980.00
Road Building (estimate)		5,000.00
Total Drilling Costs		$236,062.50
Geologist for 180 days @ $50 per day	$9,000.00	$1,500/mo.
Accounting and other Administrative expenses	2,000.00	11,000.00
Total Estimated Costs for Completing Primary Drilling Program Suggested Herein		$247,062.50

L. T. HOWORAK, TRUSTEE
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Santa Fe, New Mexico

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For Aid in an Exploration Project

In computing the drilling costs above, about one-half of the holes were figured for core drilling and the remaining one-half for solid bit drilling.

If and when the Defense Mineral Exploration Administration approves this application, than the applicant will obtain several competitive bids and make firm contracts for the work to be performed, subject to the approval of the DMEA. After the primary drilling program is completed, the applicant hopes to enter into a second exploration contract with DMEA to determine the feasibility of mining the claims.

7. Funds Required: The applicant is prepared to furnish his share of the costs of the proposed project in accordance with the regulations on Government participation (Sec. 7, DMEA No. 1).

The applicant has interested a small group of individuals who have signified their desire to invest an amount of money for a share in the claims herein involved sufficient to take care of the applicant's costs.

The foregoing statements are attached to and made a part of applicant's application for aid in an exploration project

L. T. KONOPAK, TRUSTEE
605 Camino Monte Col
Santa Fe, New Mexico

Data Attached to Application
For Aid in an Exploration Project

pursuant to DMEA Order 1, under the Defense Production Act of 1950, as amended.

L. T. Konopak

DMEA
Date Rec'd
JUL 14 1955
BUREAU OF MINES
Denver, Colorado

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

RECEIVED
AUG - 1 1955

July 7, 1955

TRANSMITTED
JUL 25 1955

Memorandum

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

From: Stephen R. Wilson

Subject: Docket No. DMEA-3593 (Uranium), Lothar T. Konopak, Trustee, Suerte, Nancy, Oro, K-Oro, Primero and Derecho claims, Grand County, Utah.

Attached are original and 10 copies of an engineering report covering examination of the subject property for DMEA loan appraisal. Also included are copies of a separate section of Summary, Conclusions and Recommendations, and a copy of the brochure. W. E. Young examined the property and prepared the engineering report.

The applicant has proposed exploration on 5 separate claim groups to consist of drilling 228 holes aggregating 70,050 feet. The estimated cost of the proposed work is $247,062.50. The claim group covers locations in the vicinity of the Salt Valley anticline north of Moab, Utah. Uranium mineralization is exposed in small occurrences on 2 claim groups, but no mineralization is known on the other 3 groups.

The examining engineer concludes that mineralization in the area of the Konopak property is not sufficiently strong to warrant Government participation in exploration. The limited aerial extent of the Salt Wash member of the Morrison formation, in conjunction with the extensive erosional exposures of this member, precludes the possibilities of economic deposits on portions of the 5 groups. Considerable drilling and other exploratory work has been accomplished on surrounding properties, and no deposits of economic significance have been discovered. The examining engineer recommends that the loan request be denied. I concur in the recommendation.

Members of the Atomic Energy Commission were contacted prior to preparation of the recommendations on the subject property.

Stephen R. Wilson
Stephen R. Wilson

Enclosures

cc: J. Bruce Clemmer

TRANSMITTED
JUL 25 1955

DMEA
Date Rec'd.
JUL 14 1955
BUREAU OF MINES
Denver, Colorado

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

By D. D. Haynes and W. E. Young

Lother T. Konopak, Trustee, has applied for assistance under Docket No. DMEA-3993 to explore five uranium claim groups in Grand County, Utah. The claims are located along the Salt Valley anticline 12 to 30 miles north of Moab, Utah. The properties were examined by DMEA personnel May 10 and 11, 1955.

The Salt Wash member of the Jurassic Morrison formation is exposed on the Suerte, Nancy and Oro claim groups. The Brushy Basin member of the Morrison is also conspicuous on the Oro group. The K-Oro claims cover an extensive area of alluvium, with outcrops of the Chinle formation. The Primero and Derecho claims cover an area of alluvium with outcrops of the Jurassic Wingate and Kayenta formations. Small pods of uranium mineralization occur on the Suerte and Nancy groups.

The applicant has proposed an exploratory drilling program consisting of 228 holes aggregating 70,050 feet. The estimated cost is $247,062.50. The examiners do not believe geologic conditions to be sufficiently promising to recommend exploration. Mineralization exposed on the Suerte and Nancy claims is representative of certain horizons in the Salt Wash member. These occurrences are generally too small to be economically significant. No geologic evidence is present to indicate favorable zones on the Oro, K-Oro and Primero and Derecho claim groups.

The examining geologist and engineer recommend that the loan request be denied.

LONEAR T. EUROPAE, TRUSTEE
ROBERTS, MARCI, GEO, E-ORE, PEGGIO and DENGORO CLAIMS
GRANT COUNTY, UTAH
[illegible]
Upshaw

Engineering Report

By H. E. Young
Mining Engineer
Bureau of Mines

LOTHAR T. KONOPAK, TRUSTEE
SUERTE, NANCY, ORO, E-ORE, PRIMERO AND BURRONO CLAIMS
GRAND COUNTY, UTAH

CONTENTS

	Page
Engineering report	
Summary	1
Introduction	1
Location, topography and physical features	2
History and production	2
Ownership and extent	2
Description of the deposits	3
Project proposals	4
Conclusions and recommendations	5

ILLUSTRATIONS

Fig. 1) Location map, Lothar T. Konopak, Trustee, Suerte, Nancy, Oro,
Fig. 2) E-Ore, Primero and Burrono claims, Grand County, Utah.

SUMMARY

Lothar T. Kanegsk, Trustee, made application to explore five claim groups for uranium mineralization. These groups are located along the Salt Valley anticline 12 to 30 miles north of Moab, Utah. A field examination was made to ascertain the feasibility of the proposed projects from a geological viewpoint. All groups have potentially favorable formations. Only two of the groups have known outcrops of uranium mineralization. These occurrences are considered too small to be of economic interest.

The applicant proposes to explore the properties by drilling 228 holes aggregating 79,790 feet, at an estimated cost of $247,042.50.

Because of the small size of the existing mineralized pods and the lack of any specific targets other than potentially favorable formations, it is recommended that the application for a loan be denied.

INTRODUCTION

The properties of Lothar T. Kanegsk, Trustee, were examined May 10 and 11, 1955, by a geologist of the Geological Survey and an engineer of the Bureau of Mines. The examinations were made at the request of the Regional Field Team to determine the advisability of granting a Government assistance loan. Mr. Kanegsk accompanied the examining team during the examinations.

The claims cover five separate locations along the Salt Valley anticline. They are the Smarts group, the Kanay group, the Ore group, the K-Ore group, and the Primero and Ruroche group.

The applicant proposes to explore the properties by drilling and has requested a loan of $247,062.50 for 226 holes aggregating 70,750 feet.

LOCATION, TOPOGRAPHY AND PERSONAL FEATURES

All claim groups are located along the Salt Valley anticline, 12 to 30 miles north of Moab, Utah (Fig. 1). The Fourth group is located on the northwest flank of the anticline. All other groups are on the down-faulted graben open along the crest of the anticline.

The Fourth group is located in Secs. 11 and 12, T. 24 S., R. 20 E. The K-Ore group is located in Secs. 29, 30 and 33, T. 23 S., R. 21 E. The Primero and Reverte group is located in Sec. 14, T. 23 S., R. 20 E. The Kanopy group is located in Sec. 9, T. 24 S., R. 22 E. The Oro group is located in Secs. 10, 11, 14 and 15, T. 24 S., R. 22 E.

HISTORY AND PROSPECTING

All claims are held by right of location. They were located in 1954. There has been no production, and no drilling or other exploratory work has been accomplished on any of the claims.

OWNERSHIP AND INTEREST

The claims are owned by a group of individuals who have formed a trust for development, naming Luther T. Kanopek as Trustee. Beneficiaries of the trust are:

1. John T. Watson, agent for Kayne Wilson, Silver City, New Mexico
2. John T. Watson, Santa Fe, New Mexico
3. James G. Shahni, Moab, Utah
4. Reed Reynolds and Joyce Mabry, jointly, Moab, Utah
5. Mrs. L. T. Kanopek, Santa Fe, New Mexico

DESCRIPTION OF THE DEPOSITS

The Fourte claims cover an outcrop of the Salt Wash member of the Jurassic Morrison formation. Strata exposed range from the Summerville to the Brushy Basin. The claims are located on the southeast flank of the Salt Valley anticline and the beds dip gently to the southeast. One exposure of uranium mineralization occurs on the south rim near the top of the Salt Wash sandstone. The exposure is a small pod of mineralization that narrows to a thin zone extending along the cliff face for a distance of 50 feet.

Henry Group

The Henry claims cover an outcrop of the Salt Wash member of the Morrison Formation. This area is composed of fault grabens of the collapsed Salt Valley anticline. Formations ranging in age from Triassic Chinle to the Cretaceous Mancos are exposed within the graben area. The small block of isolated Salt Wash has been dissected by erosion and well exposed. Within the claims two small pods of rather high-grade mineralization outcrop.

Kelly Group

The K-Ore claims cover an outcrop of the Triassic Chinle formation. This area is composed of fault graben of the collapsed Salt Valley anticline. Formations ranging in age from the Carboniferous Paradox to the Jurassic Morrison outcrop in the area. Most of the valley bottom is covered with a mantle of alluvium. There are no known outcrops of uranium mineralization in the area.

Primero and Rancho Areas

The Primero and Rancho claims cover an outcrop of Jurassic Wingate, Kayenta, and alluvium. This area is also in the down-faulted graben of the Salt Valley anticline. There are no known outcrops of uranium mineralization in the area.

Ore Areas

The Ore claims cover an outcrop of the Jurassic Morrison formation. This area is composed of fault graben of the collapsed Salt Valley anticline. Formations ranging in age from the Triassic Moenkopi to the Jurassic Morrison are exposed. There are no known outcrops of uranium mineralization in the area.

PROJECT PROPOSALS

The applicant proposes to explore the properties by drilling 228 holes aggregating 70,000 feet. Maps submitted with the application show proposed locations for the holes. The purpose of the drilling is to explore such underlying formations as the Triassic Chinle and Jurassic Morrison.

The applicant estimates that about 50 percent of the holes could be drilled by wagon drill and the remainder by diamond core drill. Estimates of cost are based on bids for an average for this type of work.

The applicant states the type of drilling proposed is of a primary nature, to be followed by additional drilling in indicated areas.

CONCLUSIONS AND RECOMMENDATIONS

Uranium mineralization in minor amounts is found on two of the five claim groups listed in the application. These occurrences are on the Nancy and the Fourte groups. The mineralization is not considered to have sufficient merit to justify exploration in either case. It is believed the occurrences in these areas consist of small pods which are common in certain horizons of the Salt Wash, but which are not usually economic. The limited areal extent of the favorable horizon, in conjunction with the extensive erosional exposures of this member, precludes the possibilities of deposits of economic value on the Nancy group. The Fourte group lies in an area in which erosion has denuded a wide expanse of the Salt Wash member, and numerous canyons have been cut, exposing its full thickness. Many small pods of rather high-grade uranium mineralization have been exposed. Considerable prospecting, some drilling, and other exploratory work has been done on the surrounding area. No deposits of economic importance have been discovered.

Other claim groups listed cover outcropping areas of favorable host rocks, but have no known occurrences of mineralization.

It is recommended the loan be denied.

IN REPLY REFER TO:
DMEA
Date Rec'd.
JUN 2 1955
BUREAU OF MINES
Denver, Colorado

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

June 1, 1955

RECEIVED
AUG 1 1955

TRANSMITTED
JUL 25 1955

Memorandum

To: Field Team, Region III

From: E. N. Harshman

Subject: DMEA Docket 3593 (Uranium), L. T. Konopak, Trustee, Suerte, Oro, Nancy, K-Ore, Primero, and Derecho groups of claims, Grand County, Utah

Enclosed are 10 copies of a geologic report by D. D. Haynes, U. S. Geological Survey, covering his examination of the subject claims.

The application for DMEA exploration assistance includes 5 claim groups along the axis or on the southwest flank of the Salt Valley anticline.

The potential ore horizon on the Suerte, Nancy, and Oro claim groups is in the Salt Wash member of the Morrison formation. On the claims it is geologically unfavorable for the occurrence of significant uranium deposits; the largest known deposits consist of scattered bodies of material containing less than 500 pounds of ore.

The Primero-Derecho and K-Ore groups of claims are underlain by the Chinle ore horizon. There are no exposures of Chinle on the claims, but the nearest exposures are lithologically unfavorable for the occurrence of significant uranium ore deposits.

Haynes concludes that geologic conditions on the various claim groups are unfavorable for the occurrence of significant uranium ore deposits and recommends that the application for exploration assistance be denied.

I concur with the recommendation.

E. N. Harshman

E. N. Harshman
Member, Field Team

Enclosures (10)
ENHarshman:arh

MINERAL DEPOSITS
DMEA
RECEIVED
MAY 31 1955
U. S.
GEOLOGICAL SURVEY
DENVER, COLORADO

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

RECEIVED
AUG - 1 1955

May 25, 1955

Memorandum

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

From: W. P. Williams

Subject: DMEA 3593, L. T. Konopak, Trustee, Suerte, Oro, Nancy, K-Ore, Primero, and Derecho groups of claims, Grand County, Utah

Transmitted herewith are 11 copies of a geologic report by D. D. Haynes, covering field examination of the above-referenced property. We are returning herewith the brochure covering this application.

The Salt Wash sand lenses on the Suerte claims are generally unfavorable for the occurrence of uranium mineralization. On the Nancy claims most of the upper Salt Wash member has been eroded. The remaining sands on the Nancy claims are unfavorable for uranium mineralization. The Oro claims have poor outcrops, but the exposed Salt Wash sandstones are unfavorable. There do not appear to be any favorable host beds in the Chinle formation on the K-Ore, Primero, and Derecho claims. The nearest known ore deposits to any of the above mentioned claims are 10 miles distant. Mineralized zones on some of the claims are very small (less than 500 lbs.) and are erratic in distribution. There are no geologic reasons to indicate that undiscovered ore bodies on the property would be larger. Haynes recommends that the application for DMEA assistance be denied, and I concur with his recommendations.

The Exploration Division, U. S. Atomic Energy Commission, Grand Junction Operations Office, was asked for advice in evaluating the property. The Commission had no specific data concerning the property.

W P Williams

W. P. Williams,
Geologist

WPW/mlr

Enclosures

cc: S. R. Wilson

UNITED STATES DEPARTMENT OF THE INTERIOR

DOUGLAS McKAY, SECRETARY

RECEIVED
AUG - 1 1955

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

DMEA 3593, L. T. Konopak, Trustee, Suerte, Oro, Nancy, K-Ore, Primero, and Derecho groups of claims, Grand County, Utah

Uranium

Geologic report

by

D. D. Haynes
U. S. Geological Survey

May 25, 1955

DMEA 3593

INTRODUCTION

Application (DMEA docket No. 3593) has been made by Mr. L. T. Konopak, trustee, for Government assistance in exploring for uranium in the Morrison and Chinle formations, Salt Valley Anticline area, Grand County, Utah.

The applicant, L. T. Konopak, trustee for the claim owners, proposes to explore the Suerte, Oro, Nancy, K-Ore, Primero, and Derecho groups of claims with a maximum of 70,750 feet of drilling at a total cost of $247,062.50. The Government's share would be 75 percent, or $185,296.88.

The Surete claims, located in secs. 11 and 12 of T. 24 S., R. 20 E., Grand County, Utah, are approximately 14½ miles north of the uranium mill and stockpile north of Moab. They are about 10½ miles north over Highway 160 and 4 miles east over unimproved roads, past the old C.C.C. Camp.

The Oro claims, located in secs. 10, 11, 14, and 15, T. 24 S., R. 22 E., Grand County, Utah, are approximately 26 miles northeast of the uranium mill and stockpile north of Moab. The route is over 9 miles of Highway 160 and 17 miles of unimproved road through Arches National Monument. The last mile is a fair trail.

The Nancy claims, located in sec. 9, T. 24 S., R. 22 E., Grand County, Utah, are about 25 miles from the uranium mill and stockpile north of Moab. To reach them Highway 160 is followed approximately 9 miles north; then southeast 16 miles over roads through Arches National Monument.

The K-Ore claims, located in secs. 29 and 33 of T. 23 S., R. 21 E., Grand County, Utah, are approximately 26½ miles northeast of the uranium mill and stockpile north of Moab. To reach the claims, Highway 160 is traveled 9 miles north; then northeast 17½ miles through Arches National Monument toward Klondike Bluff on unimproved roads.

The Primero and Derecho claims, located in sec. 14, T. 23 S., R. 29 E., Grand County, Utah, are about 3 miles beyond the K-Ore claims on the same unimproved road toward Klondike Bluff.

The claims were examined May 10 and 11, 1955, by a Region III examining team composed of W. E. Young of the U. S. Bureau of Mines, and E. S. Santos and D. D. Haynes of the U. S. Geological Survey. The examining team was accompanied by L. T. Konopak, trustee for the claim owners.

The writer conferred with Louis Garbrecht, U. S. Atomic Energy Commission, Exploration Division, on May 6 for the purpose of evaluating the property.

GEOLOGY

The dip of the exposed rocks in the vicinity of the Suerto claims, on the southwest flank of the Salt Valley Anticline, ranges from 6° to 8° to the southwest.

The dip of the exposed rocks in the vicinity of the Primero and Derecho, and K-Ore claims is 6° to 10° to the northeast.

The dip of the exposed rocks in the vicinity of the Nancy and Oro claims, which lie in a tilted fault block area, range from 8° to 25° to the northeast to 18° to 35° to the southwest. They range in age from the Triassic Chinle formation to the Cretaceous Mancos shale.

The Triassic Chinle formation in the area consists largely of red siltstone interbedded with discontinuous sandstone lenses.

There are numerous structureless limestone pebble conglomerate beds throughout the Chinle formation. In the Seven Mile District, about 10 miles to the southwest, the limestone pebble beds are the ore producing horizons in the Chinle formation. There are no other known ore producing horizons in the Chinle in the vicinity of the claims. The Chinle averages about 250 to 275 feet in thickness and thins towards the axis of the Salt Valley Anticline.

The Triassic Wingate formation is a fine-grained, light-buff sandstone. The quartz grains are rounded and evenly sized. The Wingate crops out in sheer reddish-bluff cliffs, and is coated with desert varnish in many places. The Wingate is not an ore producer in the area. The Wingate averages about 300 feet and thins toward the axis of the Salt Valley Anticline.

The Jurassic (?) Kayenta formation lies above the Wingate formation and is about 200 to 250 feet thick. It is an irregularly-bedded and cross-bedded fine- to coarse-grained lavender and gray sandstone. It is interbedded with red sandy shales and shale pellet conglomerates. The Kayenta is not a producer of ore in the area.

The Jurassic Navajo sandstone is about 200 feet thick in the Salt Valley area and consists of a fine- to medium grained buff, quartz sandstone. It is almost devoid of horizontal bedding and nearly everywhere is tangentially cross-bedded. The Navajo is of eolian deposition and in the area is a non-producer of ore.

The Jurassic Carmel formation is about 150 feet thick in the north end of Salt Valley and thins to the east. The Carmel consists mostly of soft, red, muddy sandstone ranging in character from thin-bedded to nearly massive. It is a bench former. There are no known ore deposits in the Carmel.

The Jurassic Entrada and Moab sandstone together are about 300 feet thick, consisting of well-rounded transparent quartz grains of eolian deposition. The sand grains of the Entrada are sorted into fine and coarse beds whereas the sand grains of the Moab sandstone are of almost uniform size. The Entrada contains minor sandy shales. The Entrada weathers into nearly sheer or rounded massive cliffs. The Moab sandstone weathers into sheer cliffs. Neither are ore producers in the area.

The Jurassic Summerville formation ranges in thickness from 40 to 45 feet in the Salt Valley area. It consists of red silty shales and laminated sandstone. The sandstones may be ripple marked in places. In places the Summerville contains huge masses of chert. It is not a known ore producer in the area.

The Jurassic Morrison formation consists of the lower Salt Wash member and the upper Brushy Basin member.

The Salt Wash member consists of numerous interbedded shales, silts, and sandstones. The sandstone lenses range from 10 to 40 feet in thickness. They are dominantly fine- to medium-grained quartz grains. There are numerous chert grains in the sand lenses and locally are conglomeratic. The interbedded shales and silts range in color from red to gray or gray-green where they may be leached. The Salt Wash is a very minor ore producer in the area. The thickness varies from 250 to 325 feet.

The upper Morrison member, the Brushy Basin, consists of variegated silts and limy mudstones in varying hues of green, gray-green, red, purple and orange-yellow. There are numerous chert pebble conglomerate beds and lenticular limestones. The Brushy Basin varies in thickness from 325 to 400 feet. It is not a known ore producer in the area.

The Cretaceous Dakota formation is about 50 feet thick and consists of gray and buff sandstone. It is in part conglomeratic and contains interbedded shales. It varies from fine to coarse grained and contains calcareous and siliceous cement. In the lower part carbonaceous shales are abundant.

The Cretaceous Mancos shale varies in thickness from 0 to 50 feet in the claimed area. In its lower part it weathers to a soft, gray, clay mantle. It is not an ore producer.

The Suerte claims are partially underlain by the Jurassic Morrison formation dipping gently to the southwest. About 90 percent of the area of Surete Nos. 2 and 5 claims lies on an exposed Summerville bench. Suerte Nos. 6, 7, and 8 are covered by a Brushy Basin slope ranging in thickness from 50 to 225 feet. Suerte Nos. 1, 3, and 4 are almost wholly underlain by the Salt Wash sandstone. Part of the upper and middle Salt Wash is eroded away on claims Nos. 1 and 3.

A Salt Wash sand that is a favorable host rock for ore deposition must be fine to medium grained, be more than 20~~0~~ feet thick, contain channels which thicken the sand and form traps for ore deposition, contain gray interstitial mudstone and mudstone pellets and carbonaceous material, and gray mudstone is present both above and below the lens.

The exposed Salt Wash sand lenses underlying the Suerte claims have only the fine to medium grain size and small amounts of gray mudstone below the sand. There are no visible channels in the exposed sands. The mudstone both above and below the sands and the interstitial mudstone is dominantly red. Very little carbonaceous material was seen in the exposures.

The Nancy claims are located in the central part of Cache Valley in a tilted fault-block area. Most of the upper Salt Wash sand is missing in the area. The beds dip from 4° to 35° and the vertical displacement may be as great as 400 feet.

The sands are not favorable as they are of uniform thickness, contain no visible channels, are underlain by red mudstone, have no visible carbonaceous material, and the interstitial red mudstone and mudstone pellets have not been altered to gray.

The Oro claims lie on the exposed Morrison formation. Claims Nos. 1, 3, and 5 lie on the exposed Salt Wash and the remainder lie on the Brushy Basin slopes. There are no vertical exposures of the Salt Wash on the claims. As the sands on the Nancy claims one mile to the northwest are unfavorable for ore deposition and those exposed in the vicinity of the Oro claims are also unfavorable, it can be safely concluded the Salt Wash underlying the Oro claims is also unfavorable. The five claims to the south are in a faulted area and drilling would be difficult.

The K-Ore, Primero, and Derecho claims lie almost entirely on alluvium. The drilling depth to the top of the Chinle would probably not exceed 30 feet. The dip in the vicinity of the claims is 15° to 30° to the east and northeast.

The northeast halves of Derecho Nos. 1, 2, and 3 overlie the Wingate sandstone. The drilling depth would be about 200 to 300 feet greater in that area. The Chinle underlying the K-Ore claims would be about 200 feet thick in the northern part of the claims, thinning to less than 100 feet near the southern claim boundaries. The Chinle formation was not exposed on any of the claims. Nearby there were no favorable sandstone or limestone pebble lenses which would be favorable host beds for ore deposition.

ORE DEPOSITS

The nearest known ore deposits in the Chinle formation are 10 miles to the southwest in the Seven Mile district. In that area the ore is localized in sandy siltstone lenses and in limestone pebble conglomerate beds. The Thornburg mine, which is the nearest Chinle producer, is in the 5,000 to 50,000 ton range. There are several other smaller mines in the Seven Mile area which will produce less than 5,000 tons.

The nearest ore deposits in the Salt Wash formation are about 12 miles to the northwest in the Yellow Cat district. The ore deposits in the Yellow Cat area are of the blanket type which range from 500 ~~feet~~ H to 10,000 tons. They are elongate mineralized masses trending north or northeast. They may be as much as 200 feet long, 150 wide and 1 to 6 feet thick.

The mineralized zones in the area of the Suerte, Oro, and Nancy claims are small, lenticular bodies containing less than 500 pounds of ore grade material (ore grade being 0.1 percent U_3O_8 or 1.0 percent V_2O_5) and very erratic in distribution. They may be no more than 20 feet long, 5 feet wide and from 2 inches to 2 feet thick. The minable ore in these mineralized masses would have a much smaller lateral extent.

The mineralized outcrops on the Nancy No. 3 claim were localized near a fault in the second sandstone lens of the Salt Wash. The mineralized outcrops contained carnotite, vanoxite, and malachite.

To find new ore bodies, that may be no larger than those now known on the claimed land, would be economically impossible at present. The drilling pattern would have to be spaced on 10 to 20 foot centers. Even at shallow depths the cost would be high, but under such cover as 200 feet of Brushy Basin exploration would be impractical.

PROPOSED EXPLORATION

The applicant proposes 70,750 feet of drilling at a cost of $247,060.50, of which the DMEA is asked to loan $185,296.88.

CONCLUSIONS AND RECOMMENDATIONS

It is my opinion that the ore bodies on Nancy No. 3 and Suerte No. 4 claims are a representative sample of the size and grade of ore bodies expected on the Suerte, Oro, and Nancy claims. On the K-Ore, Primero and Derecho groups, located on the Chinle formation, there are no favorable host beds in the nearby exposures.

Because geologic conditions on the property are not favorable for the occurrence of uranium ore, and because the expected size of the ore bodies is small, there seems to be little probability that an exploration program would result in a worthwhile discovery. I, therefore, recommend that the application for DMEA assistance be denied.

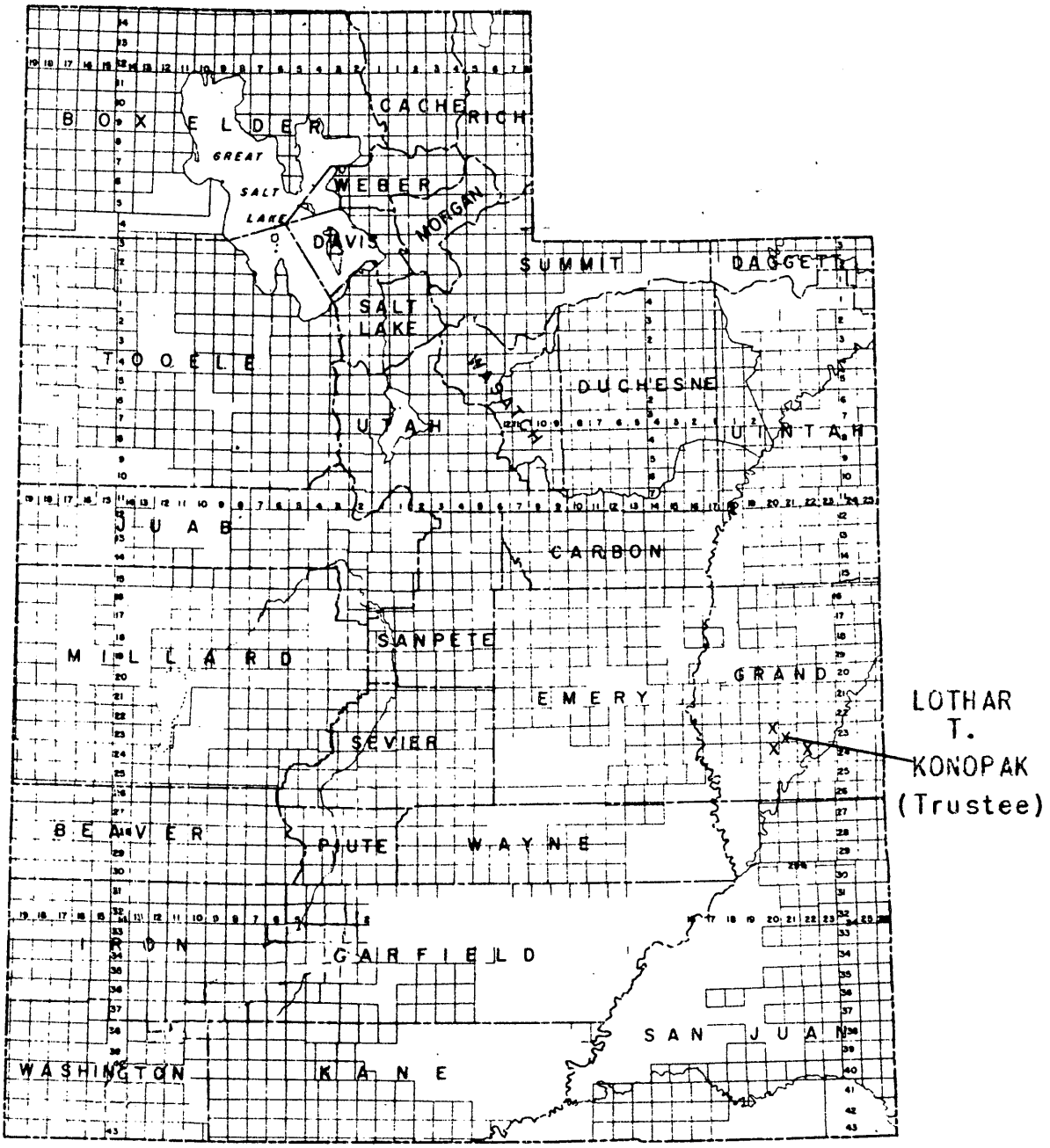

Figure 1. INDEX MAP OF UTAH SHOWING LOCATION OF LOTHAR T. KONOPAK (TRUSTEE), PROPERTY, SALT VALLEY AREA, GRAND COUNTY, UTAH

MF-500

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

REFERENCE SLIP

DATE 5-31-55

REFERRED TO:

1. Mr. Selfridge, Rm. 4459
2. ~~Mr. Mittbendorf, Rm. 4459~~
3. ~~Mails & Files, Rm. 4450~~
4. Return docket to Code 700

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: Routed to Mr. Selfridge only because Legal Division's memo May 23 was forwarded to Region III on May 27.

Check (X) before the items needing attention.

Ernest Wm. Ellis
Initials of sender.

gla

GPO 16—63815-1

DMEA SURNAME COPY

See Solicitor's docket copy for surnames:
Rubin
Hofflund
Knouse
Ellis
Selfridge
FEJohnson

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

JUN - 1 1955

Mr. L. T. Konopak, Trustee
Konopak and Dalton
605 Camino Del Monte Sol
Santa Fe, New Mexico

Re: Docket No. DMEA-3593 (Uranium)
Suerte, Oro, Nancy, K-Ore,
Primero, and Derecho Groups
of claims
Grand County, Utah

Dear Mr. Konopak:

In response to our letter dated March 1 to you, there was transmitted to us with your letter of April 29 copies of four agreements concerning your trusteeship with respect to mining claims for which you propose an exploration project.

In short, our review of these agreements indicates that you do not have the right to possession of the mining claims for the purposes of an exploration project contract. In this regard, DMEA Order-1 Amended (19 Federal Register 1563), which sets forth procedures and regulations for obtaining the aid of this agency in exploration, provides in Section 8 that:

> "The Operator must have, preserve, and maintain a sufficient interest in the land, as owner, lessee, or otherwise, for the purposes of the exploration project contract. . ."

A copy of this order is enclosed, together with a pamphlet which explains the DMEA program.

Thus, we cannot process the application in its present form. We shall continue processing the application, however, when we are furnished with evidence of an applicant's right to possession of the claims involved.

Rd

If the applicant turns out to be other than the landowners, a Consent to Lien from the owners is required prior to the execution of an exploration project contract.

Sincerely yours,

C. O. Mittendorf

Administrator

Enclosures 2

HCRubin/emd

Copy to: DMEA Docket
Solicitor's Docket
Adm. R. File
E. W. Ellis
Field Team, Region III (2)
Operating Committee
J. E. Crawford, BU. Mines
T. H. Kiilsgaard, G. S.
J. L. Hofflund
H. C. Rubin
chron.
pending

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

MAY 23 1955.

Memorandum

To: The Administrator, DMEA
Attention: Mr. E. W. Ellis

From: Acting Assistant Solicitor, Defense Minerals

Subject: Docket No. DMEA-3593, Lothar T. Konopak (Uranium)

On a reference slip dated May 16 Mr. Ellis requested our review of and comments on four instruments submitted by the applicant, L. T. Konopak, Trustee.

1. In a "Trust Agreement" dated July 15, 1954, John T. Watson, Agent; John T. Watson; James C. Skakel; Reed Reynolds and Joyce Melroy, jointly; and Mrs. L. T. Konopak, all being "Claim Owners," conveyed their interests in certain listed claims to L. T. Konopak as Trustee for the purposes of making application to DMEA for exploration aid and authorizing him to make arrangements for the raising of funds and the production of ore, but withholding from him any authority to lease or otherwise encumber the claims without written authorization of at least four of the claim owners.

2. A "Supplemental Agreement and Further Authorization to Trustee," similarly dated July 15, 1954, authorized the Trustee to transfer an undivided one-sixth interest in the claims for the purpose of fund raising, subject to the provisions of the trust.

3. In an "Acceptance of Trust and Agreement of Trustee," dated August 5, 1954, the Trustee accepted the trust provisions of the trust agreements mentioned in 1 and 2 above, and undertook to terminate the trust upon the completion of the objectives of the trust.

4. In a "Reaffirmance of Trust Agreement of July 15, 1954," dated March 24, 1955, the claim owners (all being the same as originally except that Great Lakes Carbon Corporation, a Delaware corporation, apparently bought

out the entire interest of Skakel), represented that they had relocated their claims under P. L. 585 and reaffirmed the trust agreements set forth in 1 and 2, above.

The application (page 33) indicates that the applicant intends to have the work performed by independent contractor. However, the applicant does not presently have the right to possession of the land and his interest in it as Trustee is supposed to terminate when he interests someone in undertaking the project.

It appears, therefore, from the above that the Trustee is not a proper party to the application. However, if all the claim owners joined in the exploration contract as partners, authorizing someone to act for all of them if need be, they would be proper parties to an application. They could later assign the contract with the Government's consent, if they desired, executing a Consent to Lien. Or, they could grant possession of the land to some third party and execute Consents to Lien.

In short, under the present arrangement, the applicant does not have a sufficient interest in the land.

J. L. Hofflund
Acting Assistant Solicitor
Defense Minerals

Attachment

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

MAY 23 1955.

Memorandum

To: The Administrator, DMEA
Attention: Mr. E. W. Ellis

From: Acting Assistant Solicitor, Defense Minerals

Subject: Docket No. DMEA-3593, Lothar T. Konopak (Uranium)

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In short, under the present arrangement, the applicant does not have a sufficient interest in the land.

J. L. Hofflund

J. L. Hofflund
Acting Assistant Solicitor
Defense Minerals

Attachment

Surname 700

F L Knouse
Ellis
Selfridge
Johnson
Whitendorf

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

MAY 31 1955

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

Re: Docket No. DMEA-3593 (Uranium)
Lothar T. Konopak
Suerte, Ore, Nancy, K-ore, Primero,
and Derecho Groups of Claims
Grand County, Utah

Dear Mr. Traver:

For your information there are enclosed two copies of a memorandum dated May 23, from the Acting Assistant Solicitor, DMEA, concerning the subject project, which is self explanatory.

We are writing to the Applicant and requesting that he clarify the question concerning his interest in the land.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee (JHB)

Enclosures

APPROVED:

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

Thor H. Kiilsgaard (JHB)
Member, Geological Survey

FLKnouse:am
5-25-55
cc to: Admr. Reading File
Operating Committee
Docket
Messrs. J. E. Crawford, Rm. 3641
T. H. Kiilsgaard, Rm. 5224
J. O. Hosted, Rm. 3210, ESA
Code 700
Mr. Knouse

R.C.h.

Butler

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

MAY 23 1955.

Memorandum

To: The Administrator, DMEA
Attention: Mr. E. W. Ellis

From: Acting Assistant Solicitor, Defense Minerals

Subject: Docket No. DMEA-3593, Lothar T. Konopak (Uranium)

On a reference slip dated May 16 Mr. Ellis requested our review of and comments on four instruments submitted by the applicant, L. T. Konopak, Trustee.

1. In a "Trust Agreement" dated July 15, 1954, John T. Watson, Agent; John T. Watson; James C. Skakel; Reed Reynolds and Joyce Malroy, jointly; and Mrs. L. T. Konopak, all being "Claim Owners," conveyed their interests in certain listed claims to L. T. Konopak as Trustee for the purposes of making application to DMEA for exploration aid and authorizing him to make arrangements for the raising of funds and the production of ore, but withholding from him any authority to lease or otherwise encumber the claims without written authorization of at least four of the claim owners.

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In short, under the present arrangement, the applicant does not have a sufficient interest in the land.

J. L. Hofflund

J. L. Hofflund
Acting Assistant Solicitor
Defense Minerals

Attachment

HCRubin/emd

Copy to: DMEA Docket
Solicitor's Docket
E. W. Ellis (3)
J. L. Hofflund
H. C. Rubin
chron.

5/3/55 gla

L. T. KONOPAK
605 CAMINO DEL MONTE SOL
SANTA FE
NEW MEXICO

DEPT. OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 3 - 1955

April 29, 1955.

3593

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

Dear Mr. Mittendrof:

Pursuant to your request of March 1, 1955, I am sending you herewith four photstatic copies of each of the following Trust Agreements:

1. Trust Agreement, dated July 15, 1954,
2. Supplemental Agreement, dated July 15, 1954,
3. Acceptance of Trust, dated August 5, 1954, and
4. Reaffirmance of Trust, dated March 24, 1955.

As I have just returned from an extended trip in the East, this has been my first opportunity to comply with your request.

The Field Team has not yet endeavored to contact me regarding its examination. I hope that it will in the near future.

Very truly yours,

L. T. Konopak

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 3 - 1955

TRUST AGREEMENT

THIS AGREEMENT, made this 14th day of July, 1954, by and between L. T. KAMPAK, hereinafter called the "Trustee," and 1. John T. Watson, Agent; 2. John T. Watson, 3. Jesse C. Eckel, 4. Reed Romaker and Joyce Romaker, jointly; and 5. Mrs. L. T. Kampak, hereinafter called the "Claim Owners;" WITNESSETH:

WHEREAS, the five Claim Owners have located, staked and recorded with the proper county official certain uranium mining claims in their respective names hereinafter described, and where necessary, have applied for a lease of these located or former withdrawn lands under the Mineral Leasing Act of 1920 and pursuant to Circular 7 of the Atomic Energy Commission; and

WHEREAS, the Claim Owners, and each of them, are desirous of joining together for the purpose of making application to the Defense Mineral Exploration Administrator for aid in an exploration project on their claims pursuant to D.M.E.A. Order No. 2 under the Defense Production Act of 1950, as amended, to obtain funds for exploring their claims, and are desirous thereafter to establish money for the production of ore from their claims, if justified by the exploration results; and

WHEREAS, the Claim Owners have agreed with the Trustee and among themselves that each Claim Owner will participate upon an equal basis in any proceeds derived therefrom regardless of which claim is accepted and developed;

NOW, THEREFORE, the undersigned Claim Owners, and each of them, do hereby grant and convey unto L. T. Kampak, Trustee, in trust nevertheless for the purpose above described, subject only to the limitations set forth below, the following described claims set opposite their respective names, to-wit:

See Exhibit "A" attached hereto.

Granting unto said Trustee the full and complete right to (1) make applications or amendments to the Atomic Energy Commission or Defense Mineral Exploration Administration necessary to obtain aid on any or all claims, (2) make arrangements for the filing of funds for the Group's share of exploration costs, and (3) make such arrangements for the production of pay as may be feasible.

PROVIDED, HOWEVER, that the Trustee shall not sell or dispose of any claim or lease or otherwise encumber said claim, except upon written authorization of at least four of said Claim Owners, nor shall he permit said Claim Owners to any personal obligation without first having obtained the written approval of the Claim Owner concerned.

IN WITNESS WHEREOF, we have hereunto signed our names.

1. _____ Agent.

2. _____ and _____ his wife

3. _____ and _____ his wife

4. _____ as sole and

_____ and _____ his wife

5. _____ and _____ her husband

STATE OF NEW MEXICO }
COUNTY OF SANTA FE } SS.

On this 6th day of July, 1954, before me personally appeared John T. Watson, Agent, John T. Watson and Jane Watson, his wife, and Mrs. L. T. Konopik and L. T. Konopik, her husband, not L. T. Konopik, Trustee, to me known to be the persons described in and who executed the foregoing instrument and acknowledged that same to their free act and deed.

_____
Notary Public

My commission expires 1-15-57

STATE OF UTAH

COUNTY OF GRAND } ss

On this 15th day of July, 1974, before me personally appeared Dean C. Sacher and Jacqueline B. Sacher, his wife, and Ken Reynolds and Joyce Reynolds, his wife, and Joyce Nelson, to me known to be the persons described in and who executed the Conveyance, Instrument and Indenture and they acknowledged that they executed the same.

Notary Public

My commission expires

ACCEPTED:

Grantee

EXHIBIT "A"

NAME	LOCATOR	BOOK	PAGE
Oro #1	Skokel, Reynolds, Watson	23	354
Oro #2	" " "	23	364
Oro #3	" " "	23	365
Oro #4	" " "	23	365
Oro #5	" " "	23	366
Oro #7	" " "	23	366
Oro #8	" " "	23	367
Oro #9	" " "	23	367
Oro #10	" " "	23	368
Suerte #1	Skokel, Watson	24	453
Suerte #2	" "	24	459
Suerte #3	" "	24	459
Suerte #4	" "	24	459
Suerte #5	" "	24	468
Suerte #6	" "	27	522
Suerte #7	" "	27	522
Suerte #8	" "	27	523
Nancy's #1	J. C. Skokel	19	22
Nancy's #2	"	19	22
Nancy's #3	"	19	23
Nancy's #4	"	19	23
Nancy's #5	"	19	24
Nancy's #6	"	18	24
Primero #1	Skokel, Watson, Malroy	20	64
Derecho #1	" " "	20	63
Derecho #2	" " "	20	64
Derecho #3	" " "	20	65

Name	Locator	Book	Page	Original Entry No	Amended Entry No.
K-ore No. 1	Mrs. L. T. Konopak	25	205	225,207	
K-ore No. 2	Mrs. L. T. Konopak	25	205	225,208	
K-ore No. 3	Mrs. L. T. Konopak	25	206	225,209	229,980
K-ore No. 4	Mrs. L. T. Konopak	25	206	225,210	229,981
K-ore No. 5	Mrs. L. T. Konopak	25	207	225,211	229,982
K-ore No. 6	Mrs. L. T. Konopak	25	207	225,212	229,983
K-ore No. 7	Mrs. L. T. Konopak	25	208	225,213	229,984
K-ore No. 8	Mrs. L. T. Konopak	25	208	225,214	229,985
K-ore No. 9	Mrs. L. T. Konopak	25	209	225,216	229,986

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 3 - 1955

ACCEPTANCE OF TRUST AND ACKNOWLEDGMENT
OF TRUSTEE

In consideration of the joint pooling of claims vested in the Trust Agreement of July 1, 1954, and of an undivided one-fifth interest in the stock held by A. Reed Reynolds, Trustee, for my wife, Mrs. L. T. Kenopic, I have accepted the Trust provided in said Agreement. The terms of my acceptance are as follows:

1. I will proceed with diligence to obtain financial assistance from Defense Mineral Exploration Administration.

2. I will contribute to this end, and for the other purposes provided in said Trust Agreement, my time and personal expenses including necessary traveling expenses, but otherwise will not be bound to pay out more than $250.00 for the purpose of complying with said Trust Agreement; Provided, however, until mining operations are commenced my services shall terminate, or I shall be compensated for my time and expenses.

3. I have required and have received the Supplemental Agreement and authority to dispose of as much as a one-fifth undivided interest in the pooled claims, and accept the same on the condition only that I need no further authorization for this purpose.

4. When the objects of this Trust have been accomplished or I am satisfied they cannot be accomplished, I will quitclaim all interest in the pooled claims set forth in said Trust Agreement to any other Trustee, assignee or successor in interest, individual or corporation, designated by at least four of the claim owners set forth in said Trust, and will account to and advise them of my activities and efforts in behalf of said Trust.

SIGNED this 1 day of July, 1954.

Trustee

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 3 - 1955

SUPPLEMENTAL AGREEMENT AND FURTHER
AUTHORIZATION TO TRUSTEE

WHEREAS, the undersigned "Claim Owners" did by Trust Agreement dated the 14th day of July, 1954, designate L. T. Konopek, Trustee, and provide that said Trustee could not sell or dispose of, lease or encumber the claims set forth in said Trust Agreement without written authority from at least four of the undersigned; NOW in order to facilitate said agreement,

IT IS HEREBY AGREED and authority is hereby given to said L. T. Konopek, Trustee, to pledge or transfer to himself or others not to exceed an undivided one-sixth interest in the claims set forth in said Trust Agreement for a sum of not less than $7,200.00 or any fractional interest less than one-sixth for a proportionally smaller sum; Provided, however, any transfer or pledge will be subject to the Trust Agreement and all the terms thereof, and any sum so received by the Trustee will be used and expended for the purpose of the Trust only.

IN WITNESS WHEREOF, we have hereunto signed our names this 14th day of July, 1954.

Claim Owners under Trust:

1. [signature] Agent
2. [signature] and _____ his wife
3. [signature] and [signature] his wife
4. [signature] in sole, and
   [signature] and [signature] his wife
5. [signature] and [signature] her husband

MEMORANDUM OF SUBSTANCE OF SALE, JULY 15, 1924

THIS AGREEMENT, made this [illegible] day of [illegible], 1924, by and between L. T. Kanaga, hereinafter called the "Vendor" and (1), John T. Nixon, Agent, (2), John T. Nixon, (3), Nora Lee Porter Kanaga, a Delaware Corporation, (4) Nora Agnes Lee Kanaga Nixon, hereinafter called (5), Mrs. L. T. Kanaga, hereinafter called the "Field Owner", WITNESSETH:

WHEREAS John T. Nixon, Agent, John T. Nixon, John G. Nixon, Nora Kanaga and Agnes Nixon, and Mrs. L. T. Kanaga have heretofore located or applied for a local pressure in Section 7 of the Aquila Unit, Terrebonne Parish, Louisiana, shown on the plat attached hereto and made a part hereof, and

WHEREAS on the 12th day of July, 1924, the Lessees named in the preceding paragraph assigned by Trust Agreement their respective interests in said claims to L. T. Kanaga, in trust nevertheless, subject to the terms and conditions set forth in the Agreement of Trust of the records of Cross County, Ark., on the 18th day of September, 1924, and

WHEREAS Kanaga is now ready, willing and able to make the application for said Lease with the Aquila Energy Corporation on behalf of said claims pursuant to Public Law 365, 66th Congress of the United States, and said Lease applications were delivered and the said claims located or relocated by the original locators, all as set forth on the attached plat, and

WHEREAS John G. Nixon and Nora Lee Porter, the [illegible] day of December, 1924, [illegible] the Trust Agreement of July 12, 1924, and Cross Lease Corporation,

NOW, THEREFORE, it is hereby agreed between the undersigned

STATE OF NEW YORK }
COUNTY OF Nassau } SS

On this 24th day of March, 1955, before me personally appeared Mrs. L. T. Konopak and L. T. Konopak, her husband, and L. T. Konopak, Trustee, to me known to be the persons described in and who executed the above and foregoing instrument and acknowledged that they executed the same as their free act and deed.

Frank C. Paul
Notary Public

My commission expires _____

FRANK C. PAUL
NOTARY PUBLIC, STATE OF NEW YORK
No 30-5017[illegible]
Qualified in Nassau County
Term Expires March 30, 1956

[illegible] the Trustee [illegible] as follows,

The wife [illegible] and the trustee hereby ratify and confirm the trust agreement of July 15, 1957, and approve and confirm the actions of the trustee pursuant to said Agreement, and acknowledge that the undersigned are [illegible] of said class who may vote [illegible] and subject to the approval of said Trustee and do and do hereby and consent to said trust [illegible] and that the [illegible] and so [illegible] [illegible] [illegible]

called in and who executed the foregoing instrument and acknowledged that they signed the same as their free act and deed.

Notary Public

My Commission Expires:

STATE OF UTAH }
COUNTY OF UINTAH } ss

On this 22nd day of February, 1955, before me personally appeared A. R. Ch'ueiko and Joyce Ochueiko, his wife, and Joyce Nelson, to me known to be the persons described in and who executed the foregoing instrument and acknowledged the same to their free act and deed.

Lucy Holyak
Notary Public

My Commission Expires
4-26-58

ACCEPTED:

TRUSTEE

STATE OF UTAH }
COUNTY OF [illegible] } ss

On this [illegible] day of February, 1955, before me personally appeared [illegible], [illegible] and [illegible], [illegible], to me known to be the persons described in and who executed the foregoing instrument and acknowledged the same to their free act and deed.

Notary Public

My Commission Expires:

ACCEPTED:

TRUSTEE

STATE OF UTAH }
COUNTY OF [illegible] } ss

On this 2 day of March, 1955, before me personally appeared [illegible] to me known to be the [illegible] President of Utah [illegible] Corporation and who executed the foregoing instrument and acknowledged the same to be their free act and deed.

Charlotte L. Gilbert
Notary Public

My Commission Expires

CHARLOTTE L. [illegible]
[illegible]

ACCEPTED:

TRUSTEE

EXHIBIT "A"

NAME	LOCATION	BOOK	PAGE
Oro #1	Skakel, Reynolds, Watson	23	364
Oro #2	" " "	23	364
Oro #3	" " "	23	365
Oro #4	" " "	23	365
Oro #5	" " "	23	366
Oro #7	" " "	23	366
Oro #8	" " "	23	367
Oro #9	" " "	23	367
Oro #10	" " "	23	368
Suerte #1	Skakel, Watson	24	488
Suerte #2	" "	24	489
Suerte #3	" "	24	489
Suerte #4	" "	24	490
Suerte #5	" "	24	490
Suerte #6	" "	27	522
Suerte #7	" "	27	522
Suerte #8	" "	27	523
Daney's #1	J. W. Skakel	16	22
Daney's #2	"	16	22
Daney's #3	"	16	23
Daney's #4	"	16	23
Daney's #5	"	16	24
Daney's #6	"	18	24
Primero #1	Skakel, Watson, Delrey	20	64
Derecho #1	" " "	20	63
Derecho #2	" " "	20	64
Derecho #3	" " "	20	65

Name	Location	Book	Page	Original Entry No	Amended Entry No.
K-ore No. 1	Mrs. L. T. Konopak	25	205	225,207	
K-ore No. 2	Mrs. L. T. Konopak	25	205	225,208	
K-ore No. 3	Mrs. L. T. Konopak	25	206	225,209	229,980
K-ore No. 4	Mrs. L. T. Konopak	25	206	225,210	229,981
K-ore No. 5	Mrs. L. T. Konopak	25	207	225,211	229,982
K-ore No. 6	Mrs. L. T. Konopak	25	207	225,212	229,983
K-ore No. 7	Mrs. L. T. Konopak	25	208	225,213	229,984
K-ore No. 8	Mrs. L. T. Konopak	25	208	225,214	229,985
K-ore No. 9	Mrs. L. T. Konopak	25	209	225,216	229,986

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 3 - 1955

TRUST AGREEMENT

THIS AGREEMENT, made this 15th day of July, 1954, by and between L. T. KONOPAK, hereinafter called the "Trustee," and 1. John T. Watson, Agent; 2. John T. Watson; 3. James C. Eckel; 4. Fred Reynolds and Joyce Reynolds, Joint; and 5. Mrs. A. P. Konopak, hereinafter called the "Claim Owners," WITNESSETH:

WHEREAS, the five Claim Owners have located, staked and recorded with the proper county official certain uranium mining claims in their respective names hereinafter described, and where necessary, have applied for a lease of those located on former withdrawn lands under the Mineral Leasing Act of 1920 and pursuant to Circular 7 of the Atomic Energy Commission; and

WHEREAS, the Claim Owners, and each of them, are desirous of joining together for the purpose of making application to the Defense Mineral Exploration Administrator for aid in an exploration project on their claims pursuant to D.M.E.A. Order No. 2, under the Defense Production Act of 1950, as amended, to obtain funds for exploring their claims; and are desirous thereafter to establish means for the production of ore from their claims, if justified by the exploration results; and

WHEREAS, the Claim Owners have agreed with the Trustee and among themselves that each Claim Owner will participate upon an equal basis in any proceeds derived therefrom regardless of which claim is accepted and developed;

NOW, THEREFORE, the undersigned Claim Owners, and each of them, do hereby grant and convey unto L. T. Konopak, Trustee, in trust nevertheless for the purpose above described, subject only to the limitations set forth below, the following described claims set opposite their respective names, to-wit:

See Exhibit "A" attached hereto.

Granting said Trustee the full and complete right to (1) make applications or commitments to the Atomic Energy Commission or Defense Mineral Exploration Administration necessary to obtain aid on any or all claims, (2) take arrangements for the making of funds for the owner's share of exploration costs, and (3) make such arrangements for the production of ore as may be feasible.

PROVIDED, HOWEVER, that the Trustee shall not sell or dispose of any claims or lease or otherwise encumber said claims, except upon written authorization of at least five of said Claim Owners, nor shall he permit said Claim Owners to any personal obligation without first having obtained the written approval of the Claim Owner concerned.

IN WITNESS WHEREOF, we have hereunto signed our names:

1. _____ Agent.

2. _____ and _____ his wife.

3. _____ and _____ his wife.

4. _____ as sole and _____ and _____ his wife.

5. _____ and _____ her husband.

STATE OF NEW MEXICO }
COUNTY OF SAN JUAN } ss.

On this 6th day of July, 1954, before me personally appeared John T. Wilson, Agent, John T. Wilson and Jane Wilson, his wife, and Mrs. L. P. Hancock and L. P. Hancock, her husband, and L. T. Hancock, Trustee, to me known to be the persons described in and who executed the foregoing instrument and acknowledged that they did execute the same.

_____
Notary Public

My commission expires 5-15-57

STATE OF UTAH

COUNTY OF UINTAH } ss

On this 15th day of July, 1964, before me personally appeared Rose C. Smith and Jacklyn B. Smith, his wife, and Lola McQuade and Joyce Brownlee, his wife, and Joyce Halsey, to me known to be the persons described in and who executed the foregoing instrument and acknowledged the same to be their free act and deed.

Notary Public

My commission expires June 1, 1965

ACCEPTED:

Director

MAPS	LOCATOR	BOOK	PAGE
Oro #1	Skokel, Reynolds, Watson	23	354
Oro #2	" " "	23	364
Oro #3	" " "	23	365
Oro #4	" " "	23	366
Oro #5	" " "	23	368
Oro #7	" " "	23	336
Oro #8	" " "	23	367
Oro #9	" " "	23	367
Oro #10	" " "	23	368
Sparta #1	Skokel, Watson	24	431
Sparta #2	" "	24	439
Sparta #3	" "	24	439
Sparta #4	" "	24	470
Sparta #5	" "	24	470
Sparta #6	" "	27	532
Sparta #7	" "	27	522
Sparta #8	" "	27	523
Nancy's #1	J. C. Skokel	18	22
Nancy's #2	"	18	22
Nancy's #3	"	18	23
Nancy's #4	"	18	23
Nancy's #5	"	18	24
Nancy's #6	"	18	24
Trimero #1	Skokel, Watson, Mabry	20	64
Otracho #1	" " "	20	63
Dorson #2	" " "	20	64
Oro #3	" " "	20	65

Name	Locator	Book	Page	Original Entry No	Amended Entry No
K-ore No. 1	Mrs. L. T. Konopak	25	205	225,207	
K-ore No. 2	Mrs. L. T. Konopak	25	205	225,208	
K-ore No. 3	Mrs. L. T. Konopak	25	206	225,209	229,910
K-ore No. 4	Mrs. L. T. Konopak	25	206	225,210	229,911
K-ore No. 5	Mrs. L. T. Konopak	25	207	225,211	229,912
K-ore No. 6	Mrs. L. T. Konopak	25	207	225,212	229,913
K-ore No. 7	Mrs. L. T. Konopak	25	208	225,213	229,914
K-ore No. 8	Mrs. L. T. Konopak	25	208	225,214	229,915
K-ore No. 9	Mrs. L. T. Konopak	25	209	225,216	229,916

DEPARTMENT OF THE INTERIOR
Bureau of Mineral Administration
RECEIVED
MAY 3 - 1955

SUPPLEMENTAL AGREEMENT AND FURTHER AUTHORIZATION TO TRUSTEE

WHEREAS, the undersigned "Claim Owners" did by Trust Agreement dated the 22nd day of July, 1954, designate L. S. Kornegay, Trustee, and provide that said Trustee could not sell by alienation, lease or mortgage the claims set forth in said Trust Agreement without written authority from at least four of the undersigned; NOW in order to facilitate said agreement,

IT IS HEREBY AGREED and authority is hereby given to said L. S. Kornegay, Trustee, to pledge or transfer to himself or others not to exceed an undivided one-sixth interest in the claims set forth in said Trust Agreement for a sum of not less than $7,200.00, or any fractional interest less than one-sixth for a proportionally smaller sum; Provided, however, any transfer or pledge will be subject to the Trust Agreement and all the terms thereof, and any sum so received by the Trustee will be used and expended for the purpose of the Trust only.

IN WITNESS WHEREOF, we have hereunto signed our names this 22nd day of July, 1954.

Claim Owners under Trust:

1. [illegible] Agent

2. [illegible] and _____ his wife

3. [illegible] and [illegible] his wife

4. [illegible] as sole, and

[illegible] and [illegible] his wife

5. [illegible] and [illegible] her husband

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 3 - 1955

ACCEPTANCE OF TRUST AND ASSIGNMENT
OF TRUSTEE

In consideration of the joint posting of claims provided in the Trust Agreement of July [illegible], 1954, and of an undivided one-fifth interest in the stock held by A. Reed Reynolds, Trustee, for my wife, Mrs. L. T. Knight, I have accepted the Trust provided in said Agreement. The terms of my acceptance are as follows:

1. I will proceed with diligence to obtain financial assistance from Defense Mineral Exploration Administration.

2. I will contribute to this end, and for the other purposes provided in said Trust Agreement, my time and personal expenses including necessary traveling expenses, but otherwise will not be bound to pay out more than $250.00 for the purpose in accordance with said Trust Agreement; provided, however, that mining operations are commenced by services small terminate, or I shall be compensated for my time and expenses.

3. I have required and have received the Development Agreement and authority to dispose of as much as a one-fifth undivided interest in the posted claims, and accept the same on the condition only that I need no further authorization for this purpose.

4. When the objects of this Trust have been accomplished or I am satisfied they cannot be accomplished, I will quitclaim all interest in the posted claims set forth in said Trust Agreement to any other Trustee, designee or successor in interest, individual or corporation, designated by at least four of the claim owners and turn to said Trust, and will account to and advise them of my activities and efforts in behalf of said Trust.

SIGNED this [illegible] day of July, 1954.

Trustee

REAFFIRMANCE OF TRUST AGREEMENT OF JULY 18, 1954

THIS AGREEMENT, made this ____ day of December, 1955, by and between L. T. Keeney, hereinafter called the "Trustee" and (1), John T. Nelson, Agent; (2), John T. Nelson; (3), Great Lakes Carbon Corporation, a Delaware corporation; (4) Ned Reynolds and Joyce Miller, jointly; and (5), Mrs. L. T. Keeney, hereinafter called the "Claim Owners", WITNESSETH:

WHEREAS John T. Nelson, Agent; John T. Nelson, Jesse E. Nelson, Ned Reynolds and Joyce Miller, and Mrs. L. T. Keeney have heretofore located or applied for a lease pursuant to Circular 2 of the Atomic Energy Commission upon those claims shown on the list attached hereto and made a part hereof, and

WHEREAS on the 18th day of July, 1954, the locators named in the preceding paragraph assigned by Trust Agreement their interest in said claims to L. T. Keeney, as trust manager, said Agreement having been recorded in Book 30, Page 341 of the records of Grand County, Utah, on the 11th day of September, 1954, and

WHEREAS thereafter it became necessary to relocate or repost all of said claims and to withdraw the application for said lease with the Atomic Energy Commission in case of said claims pursuant to Public Law 585, 83rd Congress of the United States, and said lease applications were withdrawn and the said claims reposted or relocated by the original locators, all as set forth on the attached list, and

WHEREAS James C. Stobel and Jocelyne S. Stobel, his wife, did on the 5th day of December, 1955, transfer all their right, title and beneficial interest in said claims located in their name and their interest in said Trust Agreement of July 18th, 1954, unto Great Lakes Carbon Corporation,

NOW, THEREFORE, it is hereby agreed between the above-named

STATE OF NEW YORK }
COUNTY OF Nassau } SS

On this 24TH day of March, 1955, before me personally appeared Mrs. L. T. Konopak and L. T. Konopak, her husband, and L. T. Konopak, Trustee, to me known to be the persons described in and who executed the above and foregoing instrument and acknowledged that they executed the same as their free act and deed.

Frank C. Paul
Notary Public

My commission expires _____

FRANK C. PAUL
NOTARY PUBLIC, STATE OF NEW YORK
No 30-8297300
Qualified in Nassau County
Term Expires March 30, 1956

claim owners and the Trustee herein as follows, to-wit:

The claim owners and the Trustee hereby ratify and confirm the Trust Agreement of July 15, 1930, and approve and confirm the actions of the Trustee pursuant to said Agreement, and acknowledge that the submitting and recording of said claims were made with the authority and subject to the approval of said Trustee and for and in the behalf and subject to said Trust Agreement and that the same shall remain and be in full force and effect, and that if any further grantings or conveyances to said Trustee be necessary, to give full force and effect to said Trust Agreement, the same to merely granted by each and all of us, the further agree to execute such other and further documents as are necessary to give full force and effect to said Agreement.

IN WITNESS WHEREOF, we have hereunto signed our names.

L. J. Tempest Trustee

Claimants:

[illegible] Owners

[illegible] and [illegible] as

Grant Lands Mining Corporation

By [illegible] Attest: [illegible]

Vice President Secretary

[illegible] [illegible] as

[illegible] as sole [illegible]

[illegible] and L. J. Tempest, its Trustee

Being designed and intended to cover Lots Seven (7) and Eight (8) in Section One Hundred Ten (110) in the Trust Agreement of July 15, 1930, and containing the portion owned by [illegible] and [illegible] his wife.

STATE OF NEW MEXICO)
) ss.
County of Santa Fe)

On this [illegible] day of February, 1933, before me personally appeared John T. Watson, Agent; John T. Watson and Jane Watson, his wife, and Geo. L. T. Tempest and L. J. Tempest, his husband, and L. J. Tempest, Trustee, to me known to be the persons des-

entitled to and who executed the foregoing instrument and acknowledged that they same as their free act and deed.

Notary Public

My Commission Expires:

STATE OF UTAH }
COUNTY OF UINTAH } ss

On this 22nd day of February, 1955, before me personally appeared A. V. Reynolds and Joyce Reynolds, his wife, and Joyce Halvey, to me known to be the persons described in and who executed the foregoing instrument and acknowledged the same as their free act and deed.

Lucile Holmak
Notary Public

My Commission Expires:
4-26-58

Recorded:

Indexed:

STATE OF [illegible] }
COUNTY OF [illegible] } ss

On this [illegible] day of February, 1955, before me personally appeared Jones W. Stokes and Jocelyn A. Elliott, his wife, to me known to be the persons described in and who executed the foregoing instrument and acknowledged the same as their free act and deed.

Notary Public

My Commission Expires:

Recorded:

Indexed:

STATE OF NEW YORK }
COUNTY OF [illegible] } ss

On this [illegible] day of March, 1955, before me personally appeared W. C. McConnell, to me known to be the Vice President of Green River Valley Corporation and the person described in and who executed the foregoing instrument and acknowledged the same as his free act and deed.

Charlotte L. Parker
Notary Public

My Commission Expires

CHARLOTTE L. PARKER
[illegible]

Recorded:

Indexed:

EXHIBIT "A"

NAME	LOCATOR	BOOK	PAGE
Oro #1	Skakel, Reynolds, Watson	23	364
Oro #2	" " "	23	364
Oro #3	" " "	23	365
Oro #4	" " "	23	365
Oro #5	" " "	23	366
Oro #7	" " "	23	366
Oro #8	" " "	23	367
Oro #9	" " "	23	367
Oro #10	" " "	23	368
Suerte #1	Skakel, Watson	24	488
Suerte #2	" "	24	489
Suerte #3	" "	24	489
Suerte #4	" "	24	490
Suerte #5	" "	24	490
Suerte #6	" "	27	582
Suerte #7	" "	27	582
Suerte #8	" "	27	583
Nancy's #1	J. C. Skakel	18	22
Nancy's #2	"	18	22
Nancy's #3	"	18	23
Nancy's #4	"	18	23
Nancy's #5	"	18	24
Nancy's #6	"	18	24
Primero #1	Skakel, Watson, Melroy	20	64
Derecho #1	" " "	20	63
Derecho #2	" " "	20	64
Derecho #3	" " "	20	65

Name	Locator	Book	Page	Original Entry No	Amended Entry No.
K-ore No. 1	Mrs. L. T. Konopak	25	205	225,207	
K-ore No. 2	Mrs. L. T. Konopak	25	205	225,208	
K-ore No. 3	Mrs. L. T. Konopak	25	206	225,209	229,980
K-ore No. 4	Mrs. L. T. Konopak	25	206	225,210	229,981
K-ore No. 5	Mrs. L. T. Konopak	25	207	225,211	229,982
K-ore No. 6	Mrs. L. T. Konopak	25	207	225,212	229,983
K-ore No. 7	Mrs. L. T. Konopak	25	208	225,213	229,984
K-ore No. 8	Mrs. L. T. Konopak	25	208	225,214	229,985
K-ore No. 9	Mrs. L. T. Konopak	25	209	225,216	229,986

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 3 - 1955

TRUST AGREEMENT

THIS AGREEMENT, made this 15th day of July, 1954, by and between L. T. KONOPAK, hereinafter called the "Trustee," and 1. John T. Watson, Agent; 2. John T. Watson; 3. James C. Stokes; 4. Reed Reynolds and Joyce Melroy, Jointly; and 5. Mrs. A. T. Konopak; hereinafter called the "Claim Owners;" WITNESSETH:

WHEREAS, the Five Claim Owners have located, staked and recorded with the proper county official certain uranium mining claims in their respective names hereinafter described, and where necessary, have applied for a lease of these locations on former withdrawn lands under the Mineral Leasing Act of 1920 and pursuant to Circular 7 of the Atomic Energy Commission; and

WHEREAS, the Claim Owners, and each of them, are desirous of joining together for the purpose of making application to the Defense Mineral Exploration Administrator for aid in an exploration project on their claims pursuant to D.M.E.A. Order No. 1 under the Defense Production Act of 1950, as amended, to obtain funds for exploring their claims; and are desirous thereafter to establish means for the production of ore from their claims, if justified by the exploration results; and

WHEREAS, the Claim Owners have agreed with the Trustee and among themselves that each Claim Owner will participate upon an equal basis in any proceeds derived therefrom regardless of which claim is accepted and developed;

NOW, THEREFORE, the undersigned Claim Owners, and each of them, do hereby grant and convey unto L. T. Konopak, Trustee, in trust nevertheless for the purpose above described, subject only to the limitations set forth below, the following described claims set opposite their respective names, to-wit:

See Exhibit "A" attached hereto.

Granting unto said Trustee the full and complete right to (1) make applications or commitments to the Atomic Energy Commission or Defense Mineral Exploration Administrator necessary to obtain aid on any or all claims, (2) make arrangements for the raising of funds for the owner's share of exploration costs, and (3) make such arrangement for the production of ore as may be feasible.

PROVIDED, HOWEVER, that the Trustee shall not sell or dispose of any claim or lease or otherwise encumber said claim, except upon written authorization of at least four of said Claim Owners, nor shall he commit said Claim Owners to any personal obligation without first having obtained the written approval of the Claim Owner concerned.

IN WITNESS WHEREOF, we have hereunto signed our names.

1. _____ Agent.

2. _____ and _____ his wife.

3. _____ and _____ his wife

4. _____ as sole and

_____ and _____ his wife

5. _____ and _____ her husband

STATE OF NEW MEXICO }
COUNTY OF SANTA FE } ss

On this 6th day of July, 1954, before me personally appeared John T. Watson, Agent, John T. Watson and Jane Watson, his wife, and Mrs. L. T. Konopak and L. T. Konopak, her husband, and L. T. Konopak, Trustee, to me known to be the persons described in and who executed the foregoing instrument and acknowledged the same to their free act and deed.

_____
Notary Public

My commission expires 1-15-57

STATE OF UTAH

COUNTY OF GRAND } ss.

On this 15th day of July, 1[illegible], before me personally appeared James C. Baker and Jocelyn B. Baker, his wife, and Neal Reynolds and Joyce Reynolds, his wife, and Joyce Leroy, to me known to be the persons described in and who executed the foregoing instrument and acknowledged that they as their free act and deed.

Notary Public

My commission expires [illegible]

ACCEPTED:

Trustee

EXHIBIT "A"

NAME	LOCATOR	BOOK	PAGE
Oro #1	Skokel, Reynolds, Watson	23	354
Oro #2	" " "	23	364
Oro #3	" " "	23	365
Oro #4	" " "	23	365
Oro #5	" " "	23	365
Oro #7	" " "	23	366
Oro #8	" " "	23	367
Oro #9	" " "	23	367
Oro #10	" " "	23	368
Suerte #1	Skokel, Watson	24	493
Suerte #2	" "	24	489
Suerte #3	" "	24	498
Suerte #4	" "	24	490
Suerte #5	" "	24	496
Suerte #6	" "	27	522
Suerte #7	" "	27	522
Suerte #8	" "	27	528
Nancy's #1	J. C. Skokel	18	22
Nancy's #2	"	18	22
Nancy's #3	"	18	23
Nancy's #4	"	18	23
Nancy's #5	"	18	24
Nancy's #6	"	18	24
Primero #1	Skokel, Watson, Mabry	20	64
Derecho #1	" " "	20	63
Derecho #2	" " "	20	64
Derecho #3	" " "	20	65

Name	Locator	Book	Page	Original Entry No	Amended Entry No.
K-ore No. 1	Mrs. L. T. Konopak	25	205	225,207	
K-ore No. 2	Mrs. L. T. Konopak	25	205	225,208	
K-ore No. 3	Mrs. L. T. Konopak	25	206	225,209	229,960
K-ore No. 4	Mrs. L. T. Konopak	25	206	225,210	229,961
K-ore No. 5	Mrs. L. T. Konopak	25	207	225,211	229,962
K-ore No. 6	Mrs. L. T. Konopak	25	207	225,212	229,963
K-ore No. 7	Mrs. L. T. Konopak	25	208	225,213	229,964
K-ore No. 8	Mrs. L. T. Konopak	25	208	225,214	229,965
K-ore No. 9	Mrs. L. T. Konopak	25	209	225,216	229,966

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 3 - 1955

SUPPLEMENTAL AGREEMENT AND FURTHER AUTHORIZATION TO TRUSTEE

WHEREAS, the undersigned "Claim Owners" did by Trust Agreement dated the 14th day of July, 1954, designate L. T. Kenoyer, Trustee, and provide that said Trustee could not sell or dispose of, lease or encumber the claims set forth in said Trust Agreement without written authority from at least four of the undersigned; NOW in order to facilitate said agreement,

IT IS HEREBY AGREED and authority is hereby given to said L. T. Kenoyer, Trustee, to pledge or transfer to himself or others not to exceed an undivided one-sixth interest in the claims set forth in said Trust Agreement for a sum of not less than $7,200.00, or any fractional interest less than one-sixth for a proportionally smaller sum; Provided, however, any transfer or pledge will be subject to the Trust Agreement and all the terms thereof, and any sum so received by the Trustee will be used and expended for the purpose of the Trust only.

IN WITNESS WHEREOF, we have hereunto signed our names this 14th day of July, 1954.

Claim Owners under Trust:

1. [signature] Agent

2. [signature] and [signature] his wife

3. [signature] and [signature] his wife

4. [signature] as sole, and

[signature] and [signature] his wife

5. [signature] and [signature] her husband

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 3 - 1955

ACCEPTANCE OF TRUST AND AGREEMENT OF TRUSTEE

In consideration of the joint pooling of claims recited in the Trust Agreement of July [illegible], 1954, and of an undivided one-fifth interest in the stock held by A. Reed Reynolds, Trustee, for my wife, Mrs. L. T. Kenopic, I have accepted the Trust provided in said Agreement. The terms of my acceptance are as follows:

1. I will proceed with diligence to obtain financial assistance from Defense Mineral Exploration Administrator.

2. I will contribute to this end, and for the other purposes provided in said Trust Agreement, my time and personal expenses including necessary traveling expenses, but otherwise will not be bound to pay out more than $250.00 for the purpose of complying with said Trust Agreement; Provided, however, when mining operations are commenced my services shall terminate, or I shall be compensated for by time and expenses.

3. I have required and have received the Supplemental Agreement and authority to dispose of as much as a one-eighth undivided interest in the pooled claims, and accept the same on the condition only that I need no further authorization for this purpose.

4. When the objects of this Trust have been accomplished or I am satisfied they cannot be accomplished, I will quitclaim all interest in the pooled claims set forth in said Trust Agreement to any other Trustee, assignee or successor in interest, individual or corporation, designated by at least four of the claimants set forth in said Trust, and will account to and advise them of my activities and efforts in behalf of said Trust.

SIGNED this 27 day of July, 1954.

_____
Trustee

ASSIGNMENT OF TRUST AGREEMENT OF JULY 11, 1954

THIS ASSIGNMENT, made this 7th day of February, 1955, by and between L. T. Kanopp, hereinafter called the "Trustee" and (1), John T. Watson, Agent; (2), John T. Watson; (3), Great Lakes Carbon Corporation, a Delaware Corporation; (4) Jose Reynaldo and Joyce Ruiz, Jointly, and (5), Leo. L. T. Kanopp, hereinafter called the "Claim Owner", WITNESSETH:

WHEREAS John T. Watson, Agent; John T. Watson, Jesse C. Shaid, Jose Reynaldo and Joyce Ruiz, and Leo. L. T. Kanopp have heretofore located or applied for a lease pursuant to Circular 2 of the Atomic Energy Commission upon those claims shown on the list attached hereto and made a part hereof, and

WHEREAS on the 15th day of July, 1954, the locators named in the preceding paragraph assigned by Trust Agreement their interest in said claims to L. T. Kanopp, in trust hereunto, said agreement having been recorded in Book 32, Pages 545-554 of the records of Grand County, Utah, on the 11th day of September, 1954, and

WHEREAS thereafter it became necessary to relocate or repost all of said claims and to withdraw the application for said leases with the Atomic Energy Commission on each of said claims pursuant to Public Law 885, 83rd Congress of the United States, and said lease applications were withdrawn and the said claims reposted or relocated by the original locators, all as set forth on the attached list, and

WHEREAS Jesse C. Shaid and Jacolyne S. Shaid, his wife, did on the 15th day of December, 1954, transfer all their right, title and beneficial interest in said claims located in Grand County and their interest in said Trust Agreement of July 15th, 1954, unto Great Lakes Carbon Corporation,

NOW, THEREFORE, it is hereby agreed between the above-named

STATE OF NEW YORK }
COUNTY OF NASSAU } SS

On this 24TH day of March, 1955, before me personally appeared Mrs. L. T. Konopak and L. T. Konopak, her husband, and L. T. Konopak, Trustee, to me known to be the persons described in and who executed the above and foregoing instrument and acknowledged that they executed the same as their free act and deed.

Frank C. Paul
Notary Public

My commission expires _____

FRANK C. PAUL
NOTARY PUBLIC, STATE OF NEW YORK
No. 30-8297300
Qualified in Nassau County
Term Expires March 30, 1956

claim owners and the Trustee herein as follows, to-wit:

The claim owners and the Trustee hereby ratify and confirm the Trust Agreement of July 15, 1954, and approve and confirm the actions of the Trustee pursuant to said Agreement, and acknowledge that the relocating and reposting of said claims were done with the authority and subject to the approval of said Trustee and for and in his behalf and subject to said Trust Agreement and that the same shall remain and is now in full force and effect, and that if any further granting or conveying to said Trustee is necessary, to give full force and effect to said Trust Agreement, the same is hereby granted by each and all of us, who further agree to execute such other and further documents as are necessary to give full force and effect to said Agreement.

IN WITNESS WHEREOF, we have hereunto signed our names.

R. J. Hoagland Trustee

Owners:

[illegible] Agent

[illegible] and Jack Watson his wife

Great Lakes Carbon Corporation

By [illegible] Vice President Attest: [illegible] Assistant Secretary

Earl Reynolds and Joyce Reynolds his wife

Joyce Wilson as sole [illegible]

Mrs. R. J. Hoagland and R. J. Hoagland her husband

Having assigned our interest to Great Lakes Carbon Corporation, we disclaim any further interest in the Trust Agreement of July 15, 1954, but acknowledge the contents above are true.

[illegible] his wife.

STATE OF NEW MEXICO }
COUNTY OF SANTA FE } ss

On this [illegible] day of February, 1955, before me personally appeared John F. Galera, [illegible] John F. Galera and [illegible] his wife, and Mrs. R. J. Hoagland and R. J. Hoagland, her husband and L. J. Hoagland, Trustee, to me known to be the persons who

ecuted it and who executed the foregoing instrument and acknowledged the same to be their free act and deed.

Notary Public

My Commission Expires:

STATE OF UTAH }
COUNTY OF UINTA } ss

On this 22nd day of February, 1955, before me personally appeared A. Fred Reynolds and Joyce Reynolds, his wife, and Joyce Hilton, to me known to be the persons described in and who executed the foregoing instrument and acknowledged the same as their free act and deed.

Lucie Holzpak
Notary Public

My Commission Expires:
4-26-58

ACCEPTED:

Trustee

STATE OF CALIFORNIA }
COUNTY OF [illegible] } ss

On this 22 day of February, 1955, before me personally appeared John C. Shakel and Jocelyne R. Shakel, his wife, to me known to be the persons described in and who executed the foregoing instrument and acknowledged the same as their free act and deed.

Notary Public

My Commission Expires:
[illegible]

ACCEPTED:

Trustee

STATE OF UTAH }
COUNTY OF [illegible] } ss

On this [illegible] day of February, 1955, before me personally appeared Alice M. Crowell, to me known to be the Vice President of Uinta Gardens Corporation and the person described in and who executed the foregoing instrument and acknowledged the same as his free act and deed.

Charlotte L. Walker
Notary Public

My Commission Expires

CHARLOTTE L. WALKER
Notary Public, State of Utah
Residing in Weber County
[illegible]
Commission Expires [illegible]

ACCEPTED:

Trustee

EXHIBIT "A"

NAME	LOCATOR	BOOK	PAGE
Oro #1	Skakel, Reynolds, Watson	23	364
Oro #2	" " "	23	364
Oro #3	" " "	23	365
Oro #4	" " "	23	365
Oro #5	" " "	23	366
Oro #7	" " "	23	366
Oro #8	" " "	23	367
Oro #9	" " "	23	367
Oro #10	" " "	23	368
Suerte #1	Skakel, Watson	24	488
Suerte #2	" "	24	489
Suerte #3	" "	24	489
Suerte #4	" "	24	490
Suerte #5	" "	24	490
Suerte #6	" "	27	522
Suerte #7	" "	27	522
Suerte #8	" "	27	523
Nancy's #1	J. C. Skakel	18	22
Nancy's #2	"	18	22
Nancy's #3	"	18	23
Nancy's #4	"	18	23
Nancy's #5	"	18	24
Nancy's #6	"	18	24
Primero #1	Skakel, Watson, Melroy	20	64
Derecho #1	" " "	20	63
Derecho #2	" " "	20	64
Derecho #3	" " "	20	65

Name	Locator	Book	Page	Original Entry No	Amended Entry No.
K-ore No. 1	Mrs. L. T. Konopak	25	205	225,207	
K-ore No. 2	Mrs. L. T. Konopak	25	205	225,208	
K-ore No. 3	Mrs. L. T. Konopak	25	206	225,209	229,980
K-ore No. 4	Mrs. L. T. Konopak	25	206	225,210	229,981
K-ore No. 5	Mrs. L. T. Konopak	25	207	225,211	229,982
K-ore No. 6	Mrs. L. T. Konopak	25	207	225,212	229,983
K-ore No. 7	Mrs. L. T. Konopak	25	208	225,213	229,984
K-ore No. 8	Mrs. L. T. Konopak	25	208	225,214	229,985
K-ore No. 9	Mrs. L. T. Konopak	25	209	225,216	229,986

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 3 - 1955

TRUST AGREEMENT

THIS AGREEMENT, made this 15th day of July, 1954, by and between L. T. KONOPAK, hereinafter called the "Trustee," and 1. John T. Watson, Agent; 2. John T. Watson; 3. James C. Smith; 4. Reed Reynolds and Joyce Reynolds, jointly; and 5. Mrs. L. T. Konopak, hereinafter called the "Claim Owners;" WITNESSETH:

WHEREAS, the five Claim Owners have located, staked and recorded with the proper county official certain uranium mining claims in their respective names hereinafter described, and have necessary, have applied for a lease of these located on forest withdrawn lands under the Mineral Leasing Act of 1920 and pursuant to Circular 7 of the Atomic Energy Commission, and

WHEREAS, the Claim Owners, and each of them, are desirous of joining together for the purpose of making application to the Defense Mineral Exploration Administrator for aid in an exploration project on their claims pursuant to D.M.E.A. Order No. 1 under the Defense Production Act of 1950, as amended, to obtain funds for exploring their claims; and are desirous thereafter to establish means for the production of ore from their claims, if justified by the exploration results; and

WHEREAS, the Claim Owners have agreed with the Trustee and among themselves that each Claim Owner will participate upon an equal basis in any proceeds derived therefrom regardless of which claim is accepted and developed;

NOW, THEREFORE, the undersigned Claim Owners, and each of them, do hereby grant and convey unto L. T. Konopak, Trustee, in trust nevertheless for the purpose above described, subject only to the limitations set forth below, the following described claims set opposite their respective names, to-wit:

See Exhibit "A" attached hereto.

Granting unto said Trustee the full and complete right to (1) make applications or commitments to the Atomic Energy Commission or Defense Mineral Exploration Administrator necessary to obtain aid on any or all claims, (2) make arrangements for the raising of funds for the owner's share of exploration costs, and (3) make such arrangement for the production of ore as may be feasible.

PROVIDED, HOWEVER, that the Trustee shall not sell or dispose of any claims or lease or otherwise encumber said claims, except upon written authorization of at least four of said Claim Owners nor shall he commit said Claim Owners to any personal obligation without first having obtained the written approval of the Claim Owner concerned.

IN WITNESS WHEREOF, we have hereunto signed our names.

1. _____ Agent.

2. _____ and _____ his wife

3. _____ and _____ his wife

4. _____ as sole and

_____ and _____ his wife

5. _____ and _____ her husband

STATE OF NEW MEXICO }
COUNTY OF SANTA FE } SS

On this 6th day of July, 1954, before me personally appeared John T. Watson, Agent, John T. Watson and Jane Watson, his wife, and Mrs. L. T. Konopek and L. T. Konopek, her husband, and L. T. Konopek, Trustee, to me known to be the persons described in and who executed the foregoing instrument and acknowledged the same to their free act and deed.

_____
Notary Public

My commission expires 5-15-57

STATE OF UTAH }
COUNTY OF GRAND } ss

On this 15th day of July, 1974, before me personally appeared Jesse C. Walker and Jacqline B. Walker, his wife, and Earl Reynolds and Joyce Reynolds, his wife, and Joyce Halpry, to me known to be the persons described in and who executed the foregoing instruments and acknowledged the same as their free act and deed.

Notary Public

My commission expires

ACCEPTED:

Trustee

EXHIBIT "B"

NAME	LOCATOR	BOOK	PAGE
Oro #1	Skakel, Reynolds, Watson	23	364
Oro #2	" " "	23	364
Oro #3	" " "	23	365
Oro #4	" " "	23	365
Oro #5	" " "	23	366
Oro #7	" " "	23	366
Oro #8	" " "	23	367
Oro #9	" " "	23	367
Oro #10	" " "	23	368
Suerte #1	Skakel, Watson	24	453
Suerte #2	" "	24	489
Suerte #3	" "	24	419
Suerte #4	" "	24	490
Suerte #5	" "	24	470
Suerte #6	" "	27	522
Suerte #7	" "	27	522
Suerte #8	" "	27	523
Nancy's #1	J. C. Skakel	13	22
Nancy's #2	"	13	22
Nancy's #3	"	13	23
Nancy's #4	"	13	23
Nancy's #5	"	13	24
Nancy's #6	"	13	24
Primero #1	Skakel, Watson, Melroy	31	64
Derecho #1	" " "	20	63
Derecho #2	" " "	20	64
Derecho #3	" " "	20	65

Name	Locator	Book	Page	Original Entry No	Amended Entry No.
K-ore No. 1	Mrs. L. T. Konopak	25	205	225,207	
K-ore No. 2	Mrs. L. T. Konopak	25	205	225,208	
K-ore No. 3	Mrs. L. T. Konopak	25	206	225,209	229,980
K-ore No. 4	Mrs. L. T. Konopak	25	206	225,210	229,981
K-ore No. 5	Mrs. L. T. Konopak	25	207	225,211	229,982
K-ore No. 6	Mrs. L. T. Konopak	25	207	225,212	229,983
K-ore No. 7	Mrs. L. T. Konopak	25	208	225,213	229,984
K-ore No. 8	Mrs. L. T. Konopak	25	208	225,214	229,985
K-ore No. 9	Mrs. L. T. Konopak	25	209	225,216	229,986

DEPARTMENT OF
Defense Minerals
RE
MAY 3 - 1955

SUPPLEMENTAL AGREEMENT AND FURTHER
AUTHORIZATION TO TRUSTEE

WHEREAS, the undersigned "Claim Owners" said by Trust Agreement dated the 7th day of July, 1954, designate L. T. Konopek, Trustee, and provide that said Trustee could not sell or dispose of, lease or encumber the claims set forth in said Trust Agreement without written authority from at least four of the undersigned; NOW in order to facilitate said agreement,

IT IS HEREBY AGREED and authority is hereby given to said L. T. Konopek, Trustee, to pledge or transfer to himself or others not to exceed an undivided one-sixth interest in the claims set forth in said Trust Agreement for a sum of not less than $7,200.00, or any fractional interest less than one-sixth for a proportionally smaller sum; Provided, however, any transfer or pledge will be subject to the Trust Agreement and all the terms thereof, and any sum so received by the Trustee will be used and expended for the purpose of the Trust only.

IN WITNESS WHEREOF, we have hereunto signed our names this 7th day of July, 1954.

Claim Owners under Trust:

1. [signature] Agent

2. [signature] and _____ his wife

3. _____ and _____ his wife

4. [signature] as sole, and

[signature] and [signature] his wife

5. [signature] and [signature] her husband

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
MAY 3 - 1955

ACCEPTANCE OF TRUST AND AGREEMENT OF TRUSTEE

In consideration of the joint pooling of claims recited in the Trust Agreement of July [illegible], 1954, and of an undivided one-fifth interest in the stock held by A. Reed Reynolds, Trustee, for my wife, Mrs. [illegible] T. Kenopic, I have accepted the Trust provided in said Agreement. The terms of my acceptance are as follows:

1. I will proceed with diligence to obtain financial assistance from Defense Mineral Exploration Administration.

2. I will contribute to this end, and for the other purposes provided in said Trust Agreement, my time and personal expenses including necessary traveling expenses, but otherwise will not be bound to pay out more than $200.00 for the purpose of complying with said Trust Agreement; Provided, however, that when operations are commenced my services shall terminate and I shall be compensated for my time and expenses.

3. I have required and have received the supplemental agreement and authority to dispose of as much as a one-fifth undivided interest in the pooled claims, and accept the same on the condition only that I need no further authorization for this purpose.

4. When the objects of this Trust have been accomplished or I am satisfied they cannot be accomplished, I will quitclaim all interest in the pooled claims set forth in said Trust Agreement to any other Trustee, assignee or successor in interest, individual or corporation, designated by at least four of the claim owners set forth in said Trust, and will account to and advise them of my activities and efforts in behalf of said Trust.

SIGNED this ____ day of July, 1954.

_____
Trustee

AMENDMENT OF TRUST AGREEMENT OF JULY 15, 1954

THIS AGREEMENT, made this 24th day of February, 1955, by and between L. T. Kenopsk, hereinafter called the "Trustee" and (1), John T. Watson, Agent; (2), John T. Watson; (3), Great Lakes Carbon Corporation, a Delaware Corporation, (4) Ned Reynolds and Joyce Halsey, jointly, and (5), Geo. L. T. Kenopsk, hereinafter called the "Claim Owners", WITNESSETH:

WHEREAS John T. Watson, Agent; John T. Watson, James G. Skekel, Ned Reynolds and Joyce Halsey, and Geo. L. T. Kenopsk have heretofore located or applied for a lease pursuant to Circular 7 of the Atomic Energy Commission upon those claims shown on the list attached hereto and made a part hereof, and

WHEREAS on the 15th day of July, 1954, the locators named in the preceding paragraph assigned by Trust Agreement their interest in said claims to L. T. Kenopsk, as trust manager, said Agreement being duly recorded in Book 38, Page 341 of the records of Grand County, Utah, on the 11th day of September, 1954, and

WHEREAS thereafter it became necessary to relocate or repost all of said claims and to withdraw the application for said leases with the Atomic Energy Commission on some of said claims pursuant to Public Law 585, 83rd Congress of the United States, and said lease applications were withdrawn and the said claims reposted or relocated by the original locators, all as set forth on the attached list, and

WHEREAS James G. Skekel and Jocelyne B. Skekel, his wife, did on the 16th day of December, 1954, transfer all their rights, title and beneficial interest in said claims located in their names and their interest in said Trust Agreement of July 15th, 1954, unto Great Lakes Carbon Corporation,

NOW, THEREFORE, it is hereby agreed between the above-named

STATE OF NEW YORK }
COUNTY OF NASSAU } SS

On this 24TH day of March, 1955, before me personally appeared Mrs. L. T. Konopak and L. T. Konopak, her husband, and L. T. Konopak, Trustee, to me known to be the persons described in and who executed the above and foregoing instrument and acknowledged that they executed the same as their free act and deed.

Frank C. Paul
Notary Public

My commission expires _____

FRANK C. PAUL
NOTARY PUBLIC, STATE OF NEW YORK
No 30-8297300
Qualified in Nassau County
Term Expires March 30, 1956

Claim Owner and the Trustee herein to follow, to-wit:

The claim owners and the Trustee hereby ratify and confirm the Trust Agreement of July 15, 1954, and approve and confirm the actions of the Trustee pursuant to said Agreement, and acknowledge that the relocating and repositing of said claims were made with the authority and subject to the approval of said Trustee and for and in his behalf and subject to said Trust Agreement and that the same shall remain and is now in full force and effect, and that if any further granting or conveying to said Trustee is necessary, to give full force and effect to said Trust Agreement, the same is hereby granted by each and all of us, who further agree to execute such other and further documents as are necessary to give full force and effect to said Agreement.

IN WITNESS WHEREOF, we have hereunto signed our names.

L. J. Kennedy Trustee

Carbon

Agent

and

Great Lakes Carbon Corporation

by Vice President Attest: Assistant Secretary

and Dyer Reynolds his wife

Dyer Reynolds as sole

Mrs. L. J. Kennedy and L. J. Kennedy her husband

having assigned our interest to Great Lakes Carbon Corporation, we disclaim any further interest in the Trust Agreement of July 15, 1954, but approve the restrictions set forth.

and his wife.

STATE OF NEW MEXICO)
)ss
COUNTY OF SANTA FE)

On this day of February, 1955, before me personally appeared John T. Moran, Agent; John L. Lemon and Jack Tolson, his wife, and Geo. L. J. Kennedy and L. J. Kennedy, his husband, and L. J. Kennedy, Trustee, to me known to be the persons described

[illegible]

[illegible]

[illegible]

[illegible]

STATE OF OHIO
COUNTY OF GRANT } SS

[illegible] 22nd day of [illegible], [illegible] before me [illegible] [illegible] [illegible]

EXHIBIT "A"

Name	Locator	Book	Page
Oro #1	Skanel, Tripoli, Petron	23	364
Oro #2	" " "	23	364
Oro #3	" " "	23	365
Oro #4	" " "	23	365
Oro #5	" " "	23	366
Oro #7	" " "	23	366
Oro #8	" " "	23	367
Oro #9	" " "	23	367
Oro #10	" " "	23	368
Sierra #1	Skanel, Petron	24	488
Sierra #2	" "	24	489
Sierra #3	" "	24	489
Sierra #4	" "	24	490
Sierra #5	" "	24	490
Sierra #6	" "	24	490
Sierra #7	" "	27	522
Sierra #8	" "	27	522
Sierra #9	" "	27	523
Haney's #1	J. L. Skanel	12	22
Haney's #2	"	13	22
Haney's #3	"	14	23
Haney's #4	"	14	23
Haney's #5	"	14	23
Haney's #6	"	16	24
Primero #1	Skanel, Petron, Melroy	15	26
Derecho #1	" " "	20	64
Derecho #2	" " "	20	65
Derecho #3	" " "	20	64
Derecho #4	" " "	20	65

Name	Locator	Book	Page	Original Entry No	Amended Entry No.
K-ORS No. 1	[illegible] Monopak	25	205	285,207	
K-ORS No. 2	[illegible] Monopak	25	205	285,208	
K-ORS No. 3	[illegible] Monopak	25	206	285,209	289,980
K-ORS No. 4	[illegible] Monopak	25	206	285,210	289,981
K-ORS No. 5	[illegible] Monopak	25	207	285,211	289,982
K-ORS No. 6	[illegible] Monopak	25	207	285,212	289,983
K-ORS No. 7	[illegible] Monopak	25	[illegible]	285,213	289,984
K-ORS No. 8	[illegible] Monopak	25	208	285,214	289,985
K-ORS No. 9	[illegible] Monopak	25	208	285,215	289,986

Surname 700

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

MAR 1 - 1955

F L Knouse
Ellis
Newcomb
Hedges
Selfridge
Johnson

Mr. L. T. Konopak, Trustee
Konopak and Dalton
1900 Ohio Building
Toledo 4, Ohio

Re: Docket No. DMEA-3593 (Uranium)
Suerte, Oro, Nancy, K-Ore, Primero,
and Derecho Groups of claims
Grand County, Utah

Dear Mr. Konopak:

The application for assistance in exploring your property in Grand County, Utah, under the captioned docket number, has been reviewed by the Rare and Miscellaneous Metals Division of the Defense Minerals Exploration Administration. It has been referred for a field examination to the Executive Officer of Region III at the following address:

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

We have noted from your letter of February 11, 1955, that after March 31st your address will again be 605 Camino del Monte Sol, Santa Fe, New Mexico. This information is being transmitted to our Regional Office. The Field Team will contact you at the earliest opportunity in regard to this project.

In the meantime, please furnish a copy of the "Trust Agreement" between you and the mining claim owners.

Sincerely yours,

C. O. Mittendorf

Administrator

FLKnouse:am
2-25-55
cc to: Admr. Reading File
Docket
Code 700
Mr. Knouse
DMEA Field Team, Region III(2)

R.C.B.

Surname 700

F. L. Knouse
Selfridge
Hedges

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

MAR 1 - 1955

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

Re: Docket No. DMEA-3593 (Uranium)
Lothar P. Konopak
Suerte, Oro, Nancy, K-Ore, Primero,
and Derecho Groups of claims
Grand County, Utah

Dear Mr. Traver:

The captioned application is referred to Region III for a field examination and report on the proposed project. A copy of the application was retained by your office.

Enclosed are copies of memoranda from Mr. R. D. Trace and Mr. John E. Crawford, both dated February 18, 1955, members of the Uranium Commodity Committee.

There are also enclosed copies of a letter from the Applicant dated February 11, 1955, and a copy of an undated report by Mr. William J. Owen.

If the Field Team recommends either the program as submitted, or an alternate one approved by the Applicant, please furnish us the necessary information to draft a contract. In this connection please request the Applicant to furnish the dates that all mining claims were recorded or amended, that may be included in the contract.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (JHB)

Enclosures

FLKnouse:am
2-25-55
cc to: Admr. Reading File
Operating Committee
Docket
Messrs. J. E. Crawford, Rm. 3641
T. H. Kiilsgaard, Rm. 5224
J. O. Hosted, Rm. 3210, GSA
Code 700
Mr. Knouse

APPROVED:

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

E. L. Newcomb
Member, Geological Survey (JHB)

P.C.S.

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

2-21-55
Pw

February 18, 1955

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 18 1955

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee

From: Bureau of Mines Member
Uranium Commodity Committee

Subject: DMEA Docket 3593, Lothar T. Konopak,
605 Camino del Monte Sol, Santa Fe, New Mexico

I have reviewed the application included in the subject docket and have discussed it with Joseph O. Hosted, representative of the Atomic Energy Commission.

It is recommended that the application be referred to the Field Team for investigation and report, and that the Field Team be requested to discuss the application with Ernest Gordon, Atomic Energy Commission, Grand Junction, Colorado.

John E. Crawford
John E. Crawford

Attachment

Copy to: Branch of Rare and Precious Metals
Division of Minerals
J. O. Hosted (2)
J. E. Crawford

2/23/55 sgla

IN REPLY REFER TO:

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

Department of the Interior
Defense Minerals Administration
RECEIVED
FEB 23 1955

February 18, 1955

Re: DMEA-3593
Lothar T. Konopak
(Suerte, Oro, Nancy,
K-Ore, Primero,
Derecho Claims)
Grand County, Utah
$247,063 - Uranium

Memorandum

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

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

Subject: Review of supplemental data

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Suerte claims: Uranium minerals are exposed along the face of the rim for 50 feet, although mostly too thin to be economic. This prospect, however, appears to be slightly better than the Nancy prospect. A little private exploration would also help in an evaluation of the prospect.

Recommendation: Refer to Field Team.

Bob Trace
R. D. Trace

IN REPLY REFER TO:

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 23 1955

February 18, 1955

Re: DMEA-3593
Lothar T. Konopak
(Suerte, Oro, Nancy,
K-Ore, Primero,
Derecho Claims)
Grand County, Utah
$247,063 - Uranium

Memorandum

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

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

Subject: Review of supplemental data

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Recommendation: Refer to Field Team.

R. D. Trace

Copy to: DMEA (3)

2/14/55 gh

KONOPAK & DALTON

CERTIFIED PUBLIC ACCOUNTANTS

TOLEDO 4, OHIO

L. T. KONOPAK
H. L. DALTON
H. J. SWEENY
J. M. ECKER
V. J. DOBSON
W. J. RAMSER
R. U. PATTERSON
R. A. DRAPER
J. R. CREAGAN

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
FEB 14 1955

February 11, 1955.

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

Attention: Mr. Ernest Wm. Ellis, Chief,
Rare and Miscellaneous Metals Div.

Re: Docket No. DMEA-3593 (Uranium)
Suerte, Oro, Nancy, K-Ore, Primaro,
and Derecho Groups of Claims.
Grand County, Utah

Gentlemen:

With reference to your letter of December 14, 1954, I am very sorry that I encountered various difficulties in securing the data requested therein, but I assure you it is not due to lack of interest in the uranium claims involved.

In your letter, you state,

> "Therefore, please furnish four copies each of maps or sketches, drawn to scale that show location, width, and assay value of each ore exposure in relation to the geology, proposed drilling, and mining claim boundaries, as justification for the proposed work."

That request, together with the preceding paragraph of your letter, was submitted to Mr. William J. Owen, Geologist, Moab, Utah. Four copies of his report in response thereto are submitted herewith.

Your statement "as justification for the proposed work" contains an inference that, because of no ore showing on the surface of the other claims, you may not consider them worthy of exploration. However, there is a good geological reason for the staking of each of the other claims. Geologic formations with potential ore are within reasonable depths of drilling to determine the existence of ore.

After surveying the claims on the actual ground, and checking the geology with the survey by the U. S. Geological Survey Department reported in Bulletin 863, I feel certain that you and the other geologists in your department will agree that each group of the claims involved herein is worthy of exploration by drilling.

There are many rumors floating around Moab and it is difficult to determine those worthy of credence, but I have been informed that some private drilling has been done on claims about a half mile away from our K-Ore claims, which are in the same formation and are practically of the same geology, and it is rumored that some good uranium showings were found. There are no ore exposures on these claims, but the Chinle and Schinarump formation is practically on the surface, and therefore, the exploration cost by drilling is within reason and is worthy of pursuing because of the many instances where uranium is found in that formation around Moab.

It is my hope that, after your geologists make their survey on the ground, we can confer to determine the further procedure and outline a definite drilling program, after which I will get firm bids and let contracts approved by the Government geologists.

Neither you nor I want to go ahead with a drilling program unless we both believe that there are possibilities of a profitable mining venture. I am inclined to this belief regarding each group of the claims involved herein, and I am sure that we can come to an agreement of mutual advantage through a verbal discussion after you have surveyed the claims.

Respectfully submitted,

L. T. Konopak, Trustee.

L. T. Konopak

LTK:mcp
encl.

Until March 31st my address will be

1900 Ohio Building, Toledo, Ohio.

After March 31st my address will again be

605 Camino del Monte Sol,
Santa Fe, New Mexico.

DMEA-3593

GEOLOGICAL REPORT

NANCY AND SUERTE LODE MINERAL CLAIMS

GRAND COUNTY, UTAH

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED

Letter T. Kronojeski,
605 Camino del Monte Sol,
Santa Fe, N. Mexico

NANCY CLAIMS

These are four lode mineral claims 600' X 1500' situated in Sections 9 and 10, R22E, T24S, Grand County, Utah. They may be reached from Moab, Utah by traveling nine miles north on U.S. highway 160 to the Arches National Monument road, thence east through the Arches National Monument and about fifteen miles to Cache Valley and the claimed vicinity.

GEOLOGY:

The geology of Cache Valley is contained in U.S.GgS. Bulletin 863 -- "Geologic Map of The Salt Valley Anticline and The Adjacent Areas, Grand County, Utah." Cache Valley is a part of the southeast projection of Salt Valley anticline, which is a northeast, southeast elongated collapsed salt structure. The Nancy claims overlie the salt wash sandstone and to a small extent lower cretaceous sedimentary beds, (Burro Canyon sandstone, Dakota sandstone, lower Mancos Shale). This area in the collapsed portion of Cache-Graben has been faulted and interlaced with joint systems; there are two prominent east west faults striking through the claims, and the main Graben producing faults lie immediately to the north and to the south of the claim boundaries.

MINERAL EXPOSURES:

As shown on the enclosed map, the main mineral occurrence is along the boundary line between the Nancy #1 and Nancy #3 claims. This mineral occurrence is in the upper rim of the salt wash sandstone and is 6" to 1' thick where not covered by overburden. It extends approximately 6' along the rim. Sample #1 taken from this spot was found by Chemical assay to contain:

.0432% U3O8 (uranium oxide)

3.62% (vanadium oxide)

Immediately behind this outcrop the rim is flat and can be explored with a wagon drill. Drilling depths through the upper rim will be approximately 25', progressing deeper as more thickness is explored. Thirty-five feet northeast of sample #1 there is another mineral exposure on the top surface of the upper sand rim and behind the rim outcrop. Sample #2 taken from this exposure was found by chemical assay to contain:

0.440% u3O8

1.76% V2O5

This sample was taken from a hole two feet in diameter, and one foot deep, dug with a prospector's pick. It was impossible to determine the full extent of this mineralization due to a six inch snow cover and snow falling during the period of investigation.

A jeep road reaches within one thousand feet of these mineral outcrops, and to make the flat drill area accessible would require approximately five days of road building with a caterpillar and compressor. This would constitute an outlay of approximately $1,000.00.

DEVELOPMENT RECOMMENDATIONS:

I suggest that the rim and surface near the ore outcrops be stripped of overburden in an attempt to uncover a commercial face of ore. In addition the areas behind the rim should be drilled on 10' centers in an attempt to locate ore rolls. This additional exploration program in the immediate vicinity of the mineral showings will involve up to 10,000 feet of wagon drilling, and will require an expenditure of approximately $10,000.00.

SUERTE CLAIMS

The Suerte #1 through #8 lode mineral claims are situated in Sections 11 and 12, R 20E, T 24S, Grand County, Utah. From Moab the area can be reached by traveling 12 miles north on U.S. highway 160 to the old C.C.C. Camp turn-off, thence east past the C.C.C. Camp and about five miles further on a jeep road to the claims. A good road traverses the claims and provides access for drill rigs behind mineral outcrops. Additional drill roads and drill sights can be constructed for less than $1,000.00.

GEOLOGY:

The Suerte Claims are along the southeast flank of the Salt

Valley anticline and the sedimentary strata dip gently to the southwest. Strata exposed on the claims range from the red Summerville silts and shales up through the Salt Wash and Brushy Basin members of the Morrison formation. The surface of Suerte #1, 3 and 4 consists of a flat bench formed by the upper rim of the salt wash sandstone. This is also the rim wherein there is exposed uranium and vanadium mineralization. The surface of Suerte #6, 7 and 8 is Brushy Basin shale, and drilling depths on these claims will be approximately 225' deeper than on Suerte #1, 3 and 4.

MINERALIZATION:

Observed mineralization was near the northeastern corner of Suerte #4 and consisted of a 1" to 3' thick vein of uranium and vanadium occuring as cement matter between the sand grains of the upper rim Salt Wash sandstone. This mineral vein is exposed for 50' along the east face of the rim. The area to the west and immediately behind the mineral outcrops is a flat surface along the top of the mineralized rim, and drilling depths from this flat surface through the ore horizon will range from 15' to 50'. Sample #1 taken from the mineral outcrop (see map of Suerte Claims) was found by chemical assay to contain:

0.705% U_3O_8

4.71% V_2O_5

DEVELOPMENT RECOMMENDATIONS:

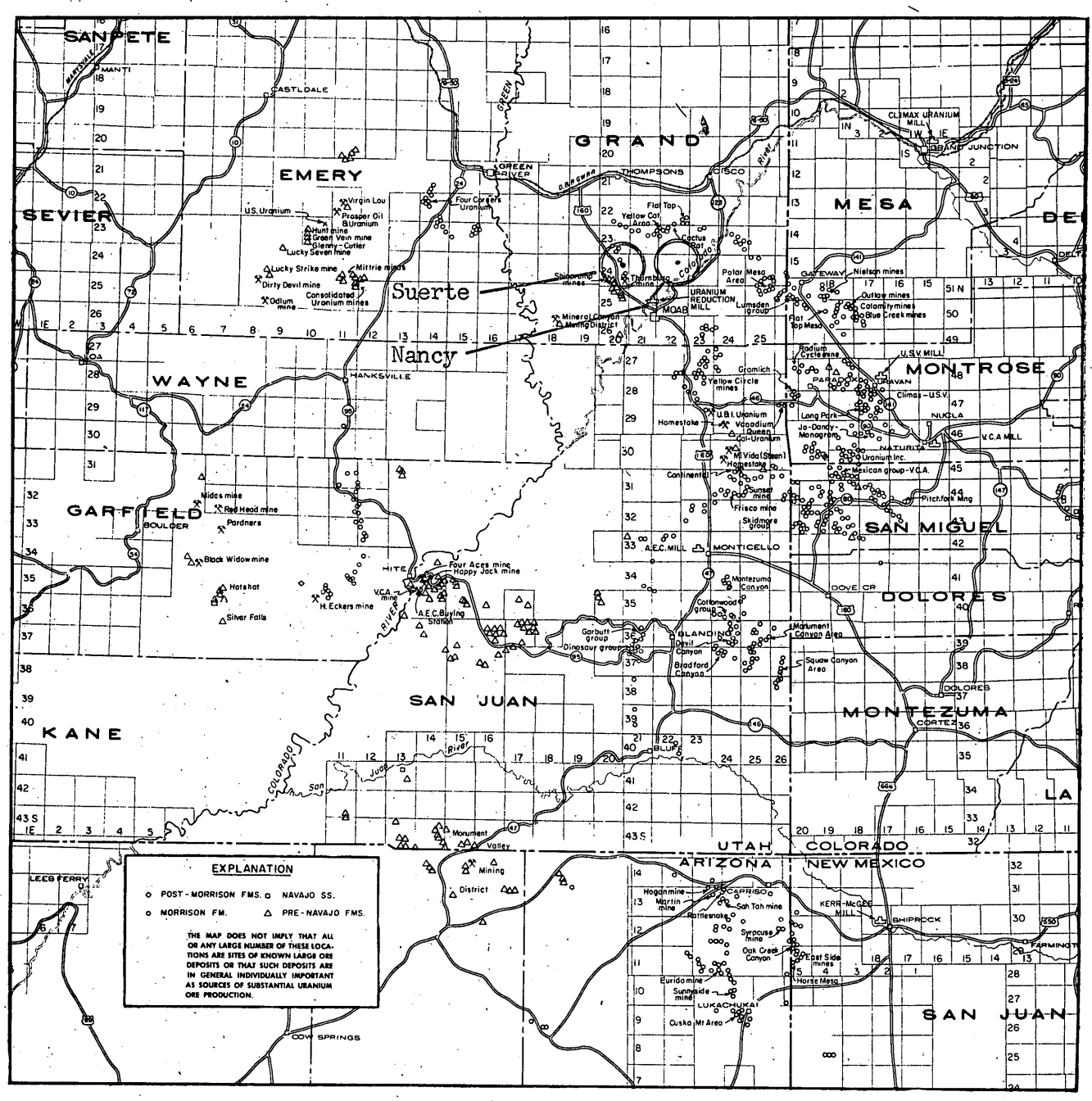
Due to the extremely favorable assay results of grab sample #1, I suggest the following exploration and development procedure: Offset immediately behind the mineralized rim outcrop space locations on 10' centers and explore with a wagon drill. The initial drilling will aggregate to approximately 6,000 feet, and will cost up to $10,000.00 including supervision fees. The deeper areas further back from the mineralized rim should be core drilled on 250' centers; and these holes should be carefully checked and logged for favorability criteria leading to the placement of additional drill holes on closer pattern. This exploration drilling will require approximately 40 holes and approximately 10,000 feet of drilling. If core drilled for $2.50 per foot the outlay of $30,000.00 will be required, including supervision fees.

It is my opinion that the Suerte Claims are high quality uranium prospects, deserving of a well planned exploration and development program.

Note: All chemical assay results presented in this report and on attached maps were run by J. Earl Smith, Smith Laboratory, chemist and referee assayer, Moab, Utah.

William J. Owen

William J. Owen, associates
Geologists & Mining Engineers
Uranium Building; Moab, Utah.



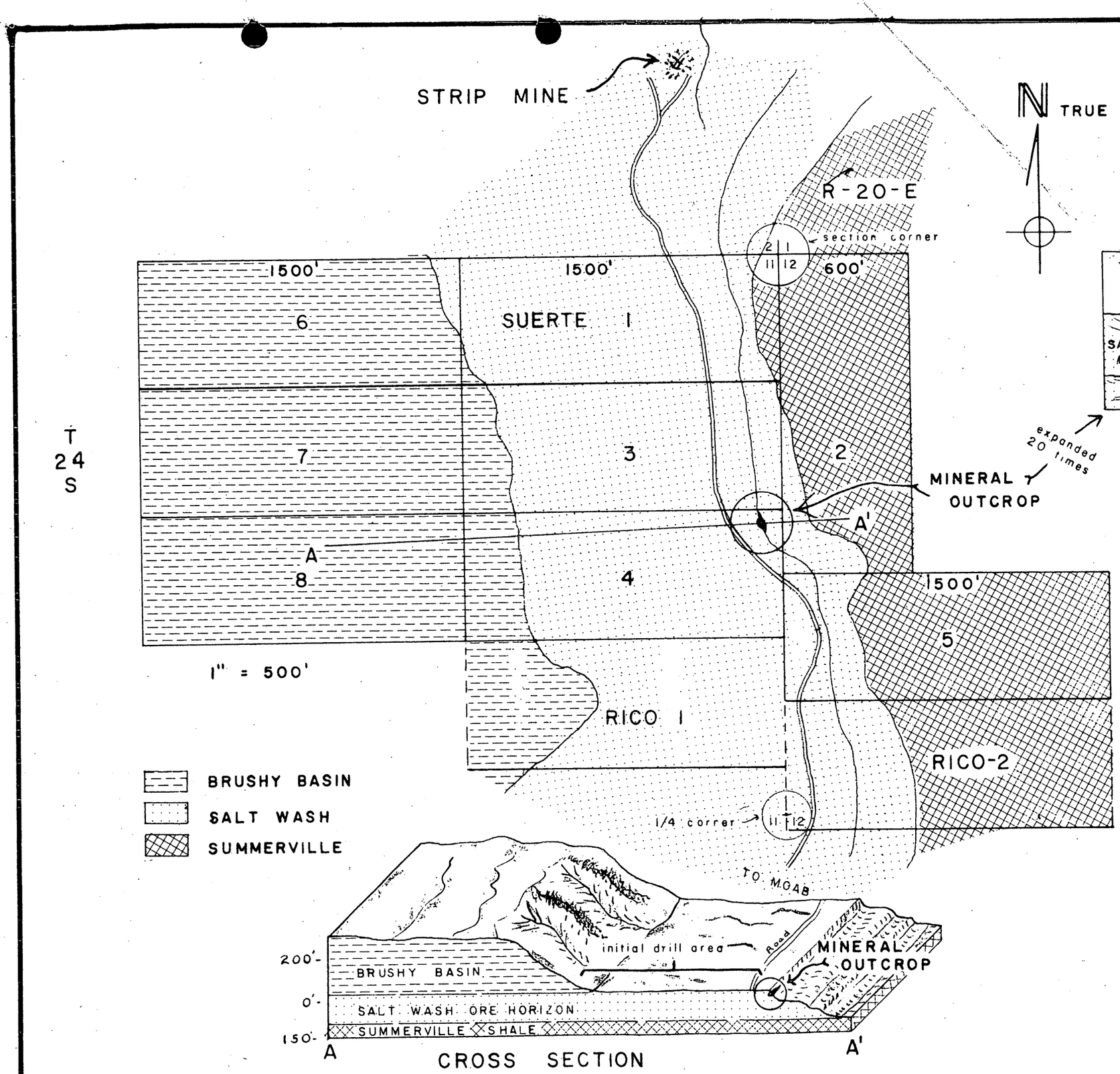
INDEX MAP OF PROPERTIES
NANCY & SUERTE CLAIMS
IN THE URANIUM REGION

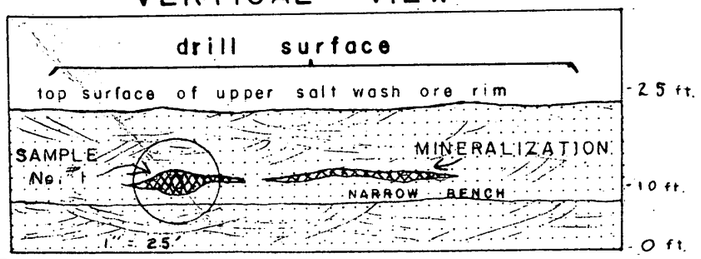
UTAH - COLORADO - ARIZONA - NEW MEXICO.
SHOWING BEDDED URANIUM DEPOSITS - MINES
PROCESSING MILLS AND PRINCIPAL HIGHWAYS

0 24 48 MI

WILLIAM J. OWEN
ASSOCIATES
GEOLOGISTS AND MINING ENGINEERS
P.O. BOX 586 - URANIUM BUILDING
MOAB - UTAH

WESTERN STATES MAP CO.





expanded 20 times

View looking West at Upper Salt Wash Sandstone Ore Rim and Mineral Outcrops, Vein of Mineral is one (1) inch to three feet (3') wide and extends for approximately fifty (50) feet along face of Rim. Dull area behind rim varies from fifteen (15) feet to fifty (50) feet drilling depths thru upper sand rim.

Chemical Assay: Sample #1
0.705 % V_3O_8 (uranium)
4.71 % V_2O_5 (vanadium)

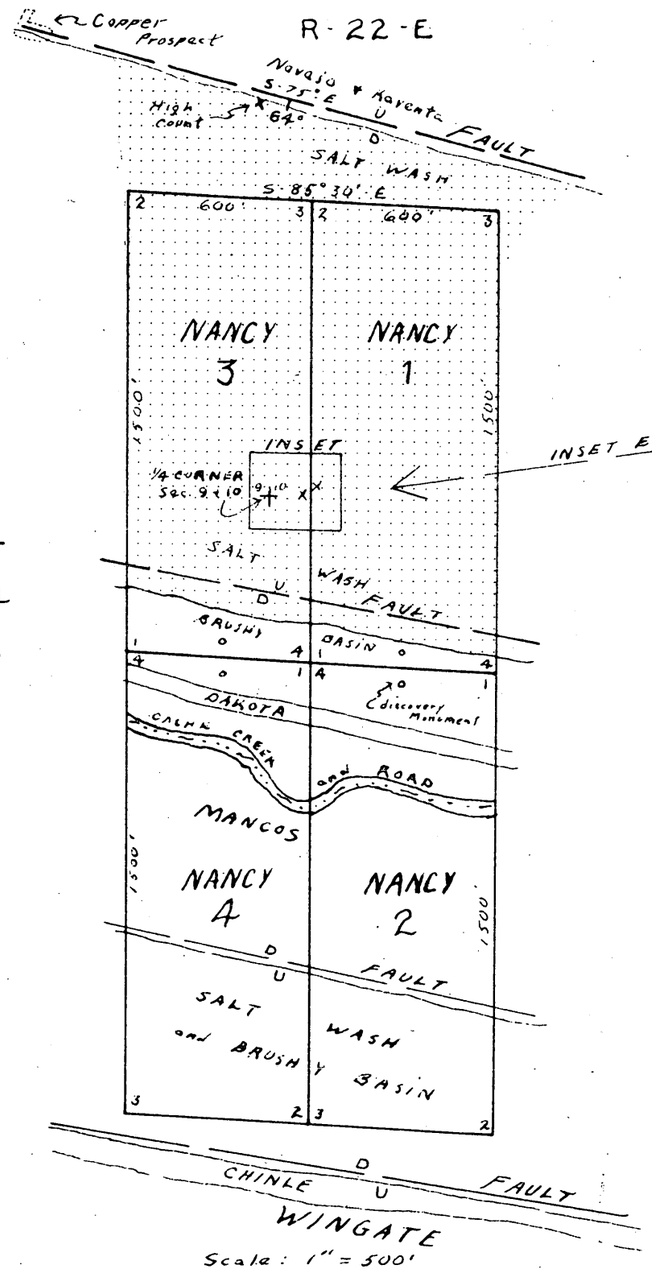
MAP OF

SUERTE CLAIMS

GRAND COUNTY, UTAH

by WILLIAM J. OWEN
MOAB, UTAH

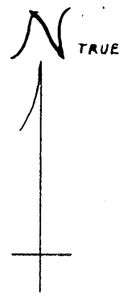
January 24, 1955



Scale: 1" = 500'

CACHE VALLEY

GRAND COUNTY, UTAH



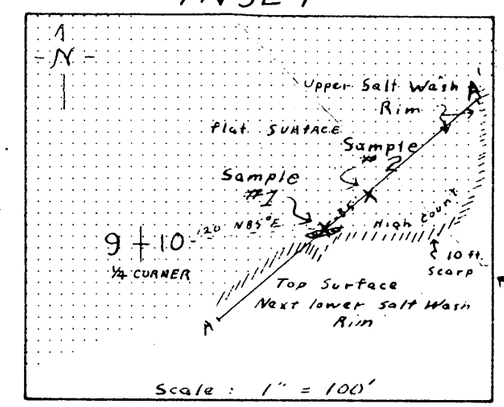
INSET EXPANDED FIVE (5) TIMES

Normal Stratigraphic Sequence

CRETACEOUS	MANCOS
	DAKOTA
	BURRO CANYON
JURASSIC	MORRISON
	BRUSHY BASIN
	SALT WASH *
	SUMMERVILLE
	ENTRADA
	CARMEL
	NAVAJO
	KAYENTA
TRIASSIC	WINGATE
	CHINLE *
	SHINARUMP * (might be missing)
	MOENKOPI

chief ore horizons - *

INSET



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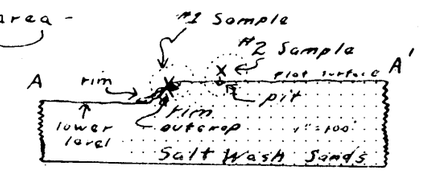

CROSS-SECTION THRU A—A', SHOWING SURFACE OF SALT WASH SANDSTONE UPPER RIMS AND ORE OUTCROPS.

SAMPLE #1

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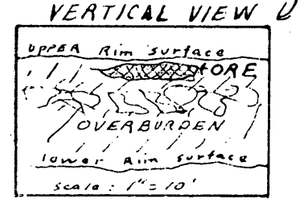

grab sample taken from rim outcrop, ore exposure is 6 inches to 2 foot thick near top of rim, depth and total thickness not visable due to overburden.

Chemical Assay: 0.432 % U_3O_8
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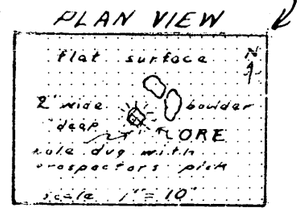
SAMPLE #2

PLAN VIEW



grab sample taken with prospectors pick from flat upper rim surface, 2 foot diameter hole dug to 1 foot depth, ore sample taken from hole.

Chemical Assay: 0.440 % U_3O_8
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by WILLIAM S. OWEN ASSOCIATES
GEOLOGISTS + MINING ENGINEERS
MOAB, UTAH
January 20, 1955

NANCY CLAIMS and ORE OUTCROPS

DMEA-3593

DEPARTMENT OF THE INTERIOR
Bureau of Mines Administration
RECEIVED
FEB 14 1955

GEOLOGICAL REPORT

NANCY AND SUERTE LODE MINERAL CLAIMS

GRAND COUNTY, UTAH

NANCY CLAIMS

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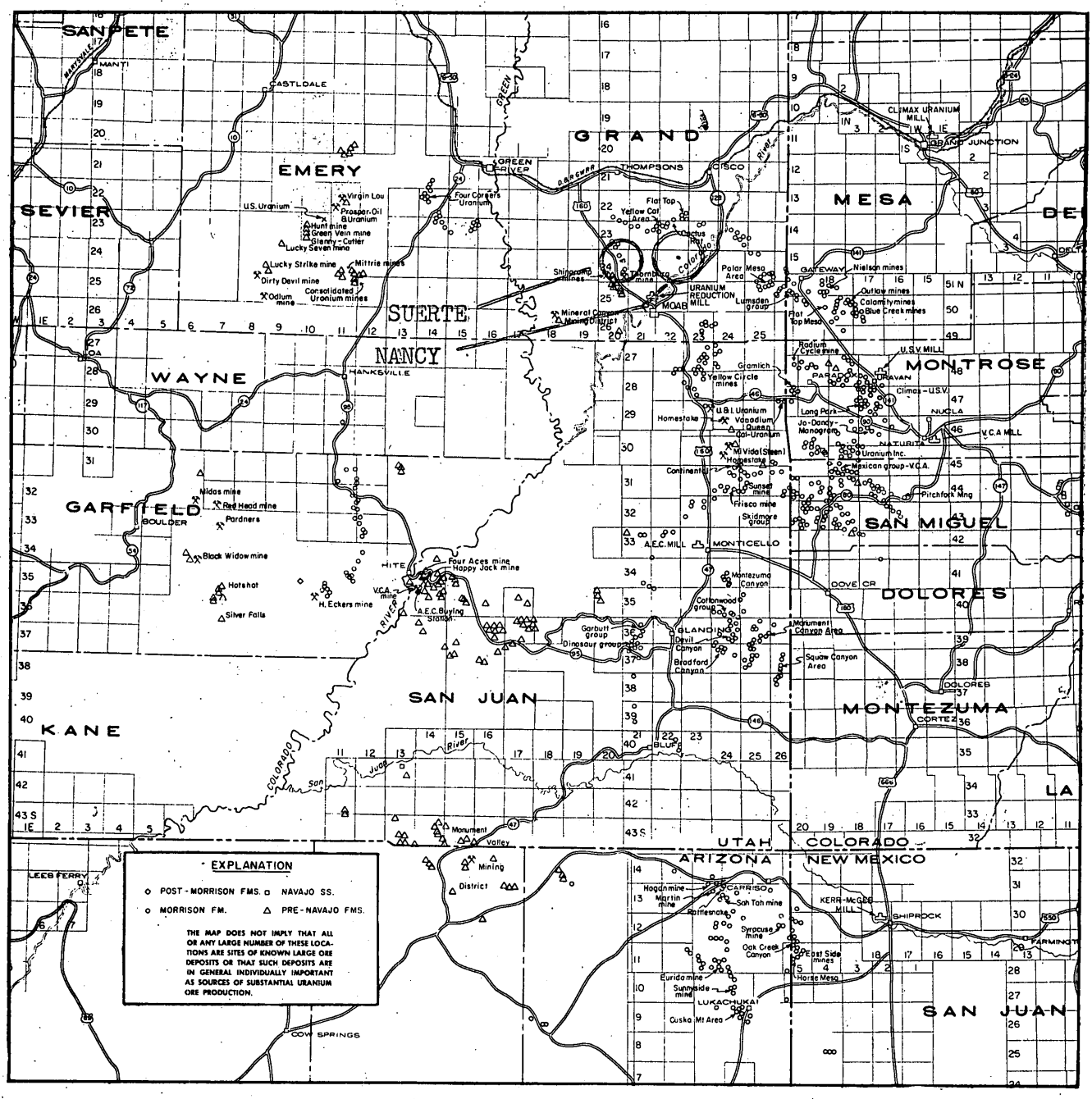
William J. Owen, associates
Geologists & Mining Engineers
Uranium Building; Moab, Utah.



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NANCY & SUERTE CLAIMS

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0 24 48 Mil

WILLIAM J. OWEN

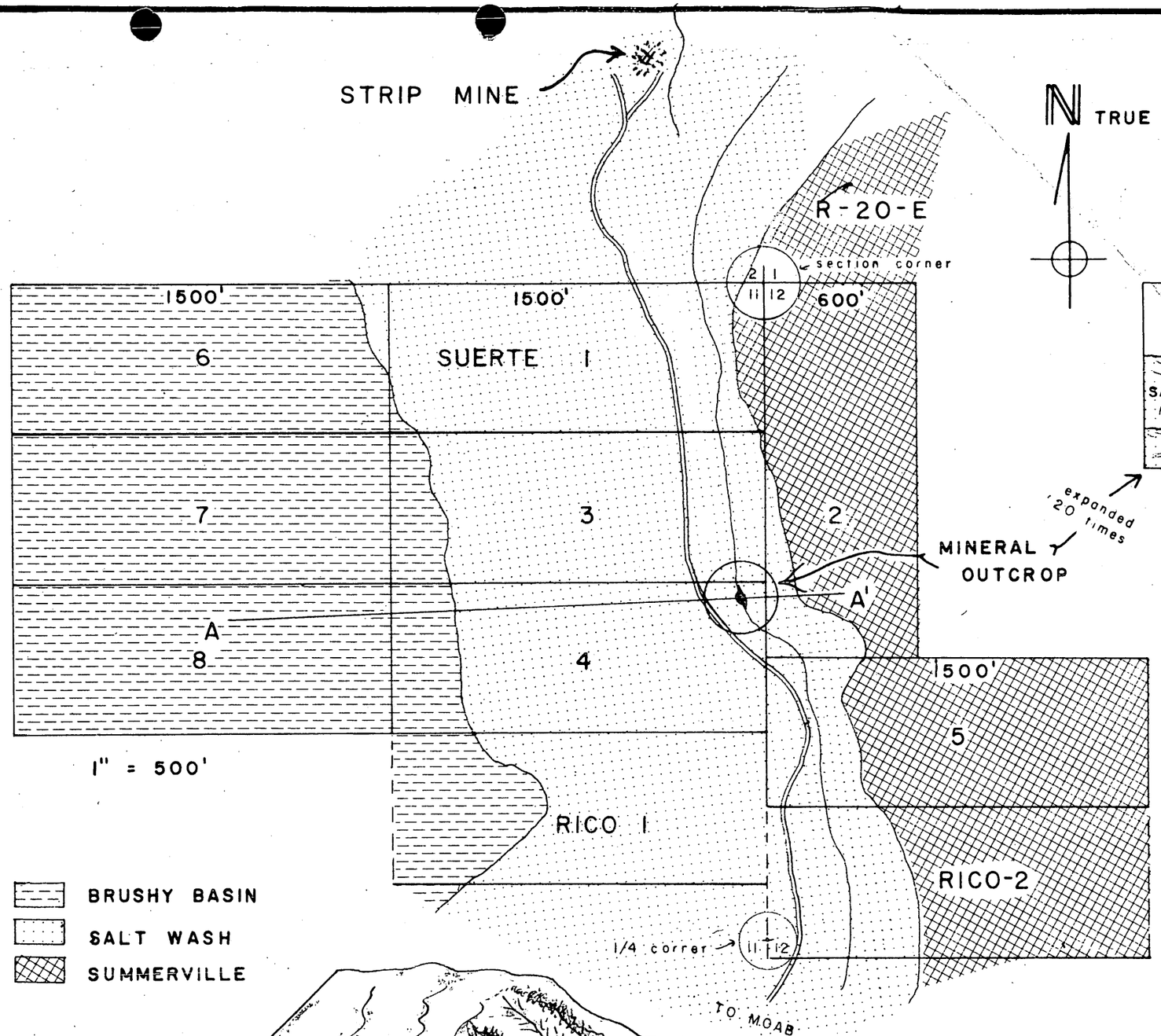
ASSOCIATES

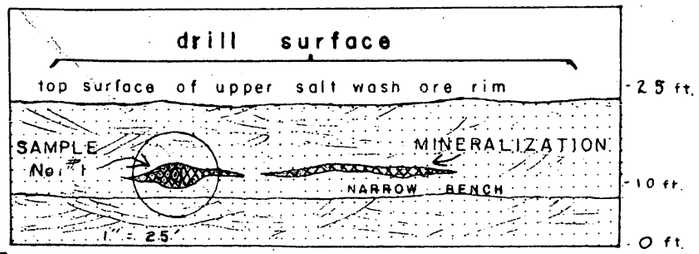
GEOLOGISTS AND MINING ENGINEERS

P.O. BOX 586 - URANIUM BUILDING

MOAB - UTAH

WESTERN STATES MAP CO.





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View looking West at Upper Salt Wash Sandstone Ore Rim and Mineral Outcrops, Vein of Mineral is one (1') inch to three feet (3') wide and extends for approximately fifty (50) feet along face of Rim. Drill area behind rim varies from fifteen (15) feet to fifty (50) feet drilling depths thru upper sand rim.

Chemical Assay: Sample #1
0.705 % V_3O_8 (uranium)
4.71 % V_2O_5 (vanadium)

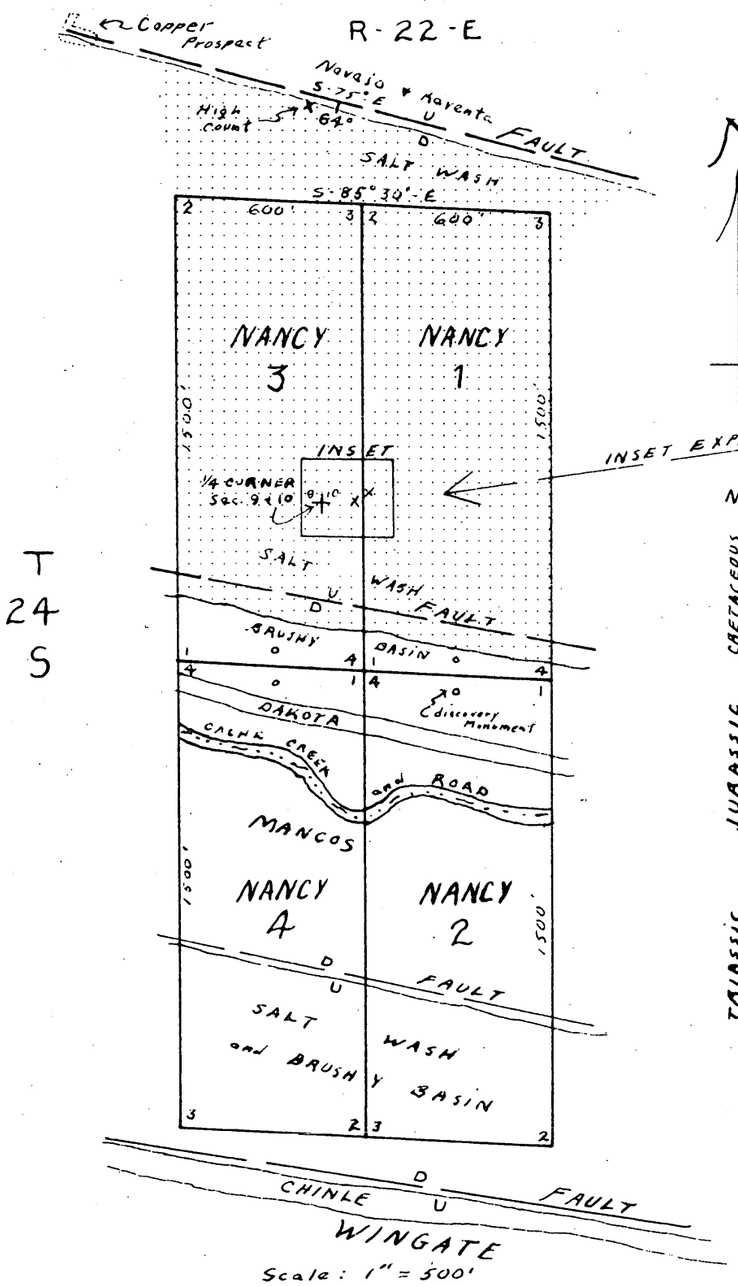
MAP OF

SUERTE CLAIMS

GRAND COUNTY, UTAH

by WILLIAM J. OWEN

January 24, 1955 MOAB, UTAH



CACHE VALLEY

GRAND COUNTY, UTAH

N TRUE

INSET EXPANDED FIVE (5) TIMES

Normal Stratigraphic Sequence

CRETACEOUS	MANCOS
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JURASSIC	MORRISON
	BRUSHY BASIN
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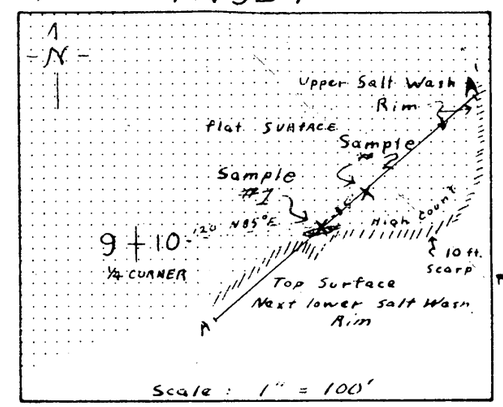
	SUMMERVILLE
	ENTRADA
	CARMEL
	NAVAJO
	KAYENTA
TRIASSIC	WINGATE
	CHINLE *
	SHINARUMP * (might be missing)
	MOENKOPI

chief ore horizons - *



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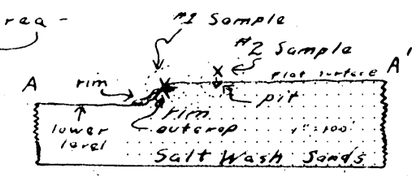
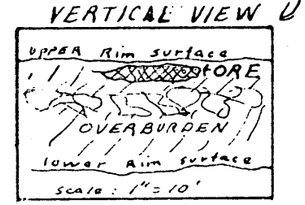


CROSS-SECTION

THRU A—A', SHOWING SURFACE OF SALT WASH SANDSTONE UPPER RIMS AND ORE OUTCROPS.

SAMPLE #1

VERTICAL VIEW



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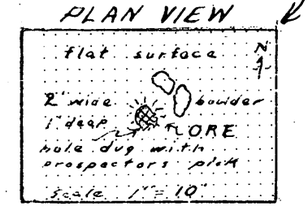
3.62 % V_2O_5

SAMPLE #2

PLAN VIEW



grab sample taken with prospectors pick from flat upper rim surface; 2 foot diameter hole dug to 1 foot depth, ore sample taken from hole.

Chemical Assay: 0.440 % U_3O_8
1.76 % V_2O_5

by WILLIAM S. OWEN ASSOCIATES
GEOLOGISTS & MINING ENGINEERS
MOAB, UTAH
January 20, 1955

NANCY CLAIMS and ORE OUTCROPS

1/4/55 gla

L. T. KONOPAK
605 CAMINO DEL MONTE SOL
SANTA FE
NEW MEXICO

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 30 1954

Dec. 28, 1954.

Mr. Ernest Em. Ellis, Chief
Rare and Miscellaneous Metals Division,
Defense Minerals Exploration Administration,
U. S. Department of Interior,
Washington, D. C.

Dear Sir:

Re: Docket No. DMEA-3593 (Uranium)
Suerte, Oro, Nancy, K-ore, Primero
and Derecho groups of claims,
Grand County, Utah

My delay in answering your letter of Dec. 14, 1954, is because of the Christmas holidays and the usual resulting travel.

However, in the very near future, I will have the data from my geologist for the answer to your letter.

You must realize that I am extremely anxious to expedite action on my Application and that I am very sorry for this delay. I hope that it will not inconvenience you too much.

In closing, may I wish you a Happy New Year.

Very truly yours,

L. T. KONOPAK, TRUSTEE

L. T. Konopak

Surname 700

F. L. Knouse

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

DEC 14 1954

Mr. Lothar T. Konopak(Trustee)
607 Camino del Monte Sol
Santa Fe, New Mexico

Re: Docket No. DMEA-3593(Uranium)
Suerte, Ore, Nancy, K-Ore, Primero
and Derecho groups of claims
Grand County, Utah

Dear Mr. Konopak:

This is with reference to your application for Government aid, now being processed by this office, to explore the subject groups of mining claims.

To enable us to continue with the processing of this application we will require the following additional information:

It is noted in your reply to "Item 5(b), Form MF-103 Application for Aid in an Exploration Project" it states: "The drilling now proposed for the exploration of the claims involved herein is shown hereinbefore on the maps submitted under 4(c). Reference is also therein made to such features as ore showings and the geological structures of the claim."

In this connection your description of the ore exposures did not furnish the desired information. Therefore, please furnish four copies each of maps or sketches, drawn to scale that show location, width, and assay value of each ore exposure in relation to the geology, proposed drilling, and mining claim boundaries, as justification for the proposed work.

Upon receipt of this information, we will be able to continue with the processing of your application.

Sincerely yours,

Ernest C. Ellis, Chief
Rare and Miscellaneous Metals Division

FLKnouse:am
12-13-54
cc to: Admr. Reading File
Docket
Messrs. J. E. Crawford, Rm. 3641
T. H. Kiilsgaard, Rm. 5224
J. O. Hosted, Rm. 3210, GSA
DMEA Field Team, Region IV (2) Mr. Knouse Code 700

12/10/54 gla

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 10 1954

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

December 9, 1954

Memorandum

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

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

Subject: DMEA Docket No. 3593, Lothar T. Konopak, 605 Camino del Monte Sol, Santa Fe, New Mexico

I have reviewed the application included in the subject docket and have discussed it with Joseph O. Hosted, representative of the Atomic Energy Commission.

It is recommended that the application be returned to the applicant for more evidence of uranium mineralization on the land for which he is making application for exploration assistance.

John E. Crawford
John E. Crawford

Attachment

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 10 1954

December 9, 1954

Memorandum

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

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

Subject: DMEA Docket No. 3593, Lothar T. Konopak, 605 Camino del Monte Sol, Santa Fe, New Mexico

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John E. Crawford

Attachment

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC - 2 1954

224 New Customhouse
Denver 2, Colorado

November 29, 1954

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region IV

Subject: Application for DMEA assistance (Uranium)
Lothar T. Konopak, Trustee for claim owners, (Suerte, Oro Nancy, K-Ore, Primero, and Derecho groups of claims)
Grand County, Utah

Enclosed are three copies of the subject application in the amount of $247,062.50 submitted by Lothar T. Konopak.

John F. Shaw
For W. H. King

Enclosures

RDB:mn

cc: Docket
C.O.Mittendorf
Chron.

12/7/54 gla

IN REPLY REFER TO:

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC - 7 1954

December 6, 1954

Re: DMEA-3593
Lothar T. Konopak
(Suerte, Oro, Nancy,
K-Ore, Primero,
Derecho Claims)
Grand County, Utah
$247,063 - Uranium

Memorandum

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

From: E. L. Newcomb, U. S. Geological Survey

Subject: Review of application

The applicant has proposed an extensive drilling project totalling 70,750 feet (228 holes).

This application lacks supporting data which will be required before any serious consideration can be made of the proposed drilling program.

The applicant's claims may very well be in areas underlain by the Brushy Basin and Salt Wash members of the Morrison, but this fact does not necessarily justify an exploration project. In light of the meager data presented, we have no alternative but to regard this proposition as a prospecting venture.

I recommend the applicant be notified that further data is needed, i.e. results of drilling, assays from mineralized showings or other tangible evidence which establishes the presence of uranium mineralization on the applicant's several claim groups. I do not believe a field referral is justified on basis of the present application data.

E. L. Newcomb

E. L. Newcomb

IN REPLY REFER TO:

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 7 1954

December 6, 1954

Re: DMEA-3593
Lother T. Konopak
(Suerte, Oro, Nancy,
K-Ore, Primero,
Derecho Claims)
Grand County, Utah
$247,063 - Uranium

Memorandum

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From: E. L. Newcomb, U. S. Geological Survey

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E. L. Newcomb

ELNewcomb:hlm
G-12/6/54

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

IN REPLY REFER TO:

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 7 1954

December 6, 1954

Re: DMEA-3593
Lothar T. Kenopek
(Puerto, Oro, Nancy,
K-Oro, Primero,
Derecho Claims)
Grand County, Utah
$247,063 - Uranium

Memorandum

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

From: E. L. Newcomb, U. S. Geological Survey

Subject: Review of application

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E. L. Newcomb

ELNewcomb:hlm
G-12/6/54

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

IN REPLY REFER TO:

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 7 1954

December 6, 1954

Re: DMEA-3593
Lother T. Konupak
(Quarto, Cro, Henry,
K-Ore, Primero,
Derecho Claims)
Grand County, Utah
$247,363 - Uranium

Memorandum

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

From: E. L. Newcomb, U. S. Geological Survey

Subject: Review of application

The applicant has proposed an extensive drilling project totalling 70,750 feet (228 holes).

This application lacks supporting data which will be required before any serious consideration can be made of the proposed drilling program.

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I recommend the applicant be notified that further data is needed, i.e. results of drilling, assays from mineralized showings or other tangible evidence which establishes the presence of uranium mineralization on the applicant's several claim groups. I do not believe a field referral is justified on basis of the present application data.

E. L. Newcomb

ELNewcomb:hlm
G-12/6/54

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

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

December 2, 1954

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-3593 Lothar T. Konopak (Trustee)

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

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

December 2, 1954
Subject: DMEA-3593
Re: Exploration Assistance

Mr. Lothar T. Konopak (Trustee)
605 Camino del Monte Sol
Santa Fe, New Mexico

Dear Sir:

The receipt of your application dated November 20, 1954 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-3593 and referred to the Rare and Miscellaneous Metals Division.

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

Sincerely yours,

Robert E. Adams, Chief
Operations Control and
Statistics Division

60932

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC - 2 1954

224 New Customhouse
Denver 2, Colorado

November 29, 1954

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region lV

Subject: Application for DMEA assistance (Uranium)
Lothar T. Konopak, Trustee for claim owners, (Suerte, Oro Nancy, K-Ore, Primero, and Derecho groups of claims)
Grand County, Utah

Enclosed are three copies of the subject application in the amount of $247,062.50 submitted by Lothar T. Konopak.

John F. Shaw
For W. H. King

Enclosures

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED
DEC - 2 1954

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. 3593
Metal or Mineral Uranium
Date Received
Estimated Cost $247,063
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:

Lothar T. Konopak, Trustee
605 Camino del Monte Sol
Santa Fe, New Mexico

(*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. See page 1 attached.

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 page 2 attached.

(*b*) State any mine name by which the property is known. Not decided.

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

(*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

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. See page 13 attached.

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. See page 13 attached.

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades. See page 14 attached.

(*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. See page 14 attached.

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points. See page 27 attached.

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power. See page 29 attached.

16—66551-1

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

(*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. See page 29 attached

(*c*) The work will start within ..... days and be completed within 6 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. See page 29 attached.

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.). See page 30 attached.

(*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)? See page 33 attached.

(*b*) How do you propose to furnish your share of the costs? See page 33 attached.

☐ 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 November 20, 1954

L. J. Fonogan, Trustee
(Applicant)

By L. J. Fonogan

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

L. T. KONOPAK, TRUSTEE
605 Camino Monte Sol
Santa Fe, New Mexico

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 2 1954

Data Attached to Application
For Aid in an Exploration Project

1 (d). Names and Addresses of Beneficiaries of Trust: The beneficiaries of the Trust making this application are

(1) John T. Watson, Agent for
Wayne Wilson, of Silver City, New Mexico;
(2) John T. Watson, Santa Fe, New Mexico;
(3) James C. Skakel, Moab, Utah;
(4) Reed Reynolds and Joyce Melroy, Jointly, Moab, Utah;
(5) Mrs. L. T. Konopak, Santa Fe, New Mexico.

The purposes of the Trust are stated in the Trust Agreement as follows:

"WHEREAS, the claim owners, and each of them, are desirous of joining together for the purpose of making application to the Defense Minerals Exploration Administrator for aid in an exploration project on their claims pursuant to D.M.E.A. Order No. 1, under the Defense Production Act of 1950, as amended, to obtain funds for exploring their claims, and are desirous thereafter to establish means for the production of ore from the claims, if justified by the exploration results; . . .

* * * *

"NOW, THEREFORE, the undersigned Claim Owners, and each of them, do hereby grant and convey unto L. T. Konopak, Trustee, in trust nevertheless for the purpose above described, subject only to the limitations set forth below, the following described claims set opposite their respective names, to-wit: . . .

"Granting unto said Trustee the full and complete right to (1) make applications or commitments to the Atomic Energy Commission or Defense Mineral Exploration Administrator necessary to obtain aid on any or all claims, (2) make arrangments for the raising of funds for the owner's share of exploration costs, and (3) make such arrangement for the production of ore as may be feasible."

The aforesaid Trust Agreement was recorded in Grand County, Utah, on September 11, 1954, Book 39, pages 321-324, and entry No. 239, 183.

2. General: Aid is hereby being sought for exploring the claims under the trust agreement by core-drilling. The program which

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
DEC 2 1954

L. T. KONOPAK, TRUSTEE
605 Camino Monte Sol
Santa Fe, New Mexico

Data Attached to Application
For Aid in an Exploration Project

is presented herewith for drilling is tentative, and the applicant is willing to make such modifications as may be desired or thought advisable by the geologists of the Atomic Energy Commission.

Before a contract is entered into with Defense Mineral Exploration Administration, the applicant expects to submit a more specific program with costs based on contracts, rather than estimates. However, it is believed that the first requirement is for the geologists of the AEC to survey the claims and decide whether, in their opinion, the possibilities of obtaining ore will justify participation by DMEA.

3. Applicant's Property Rights: The legal description of the land upon which the applicant wishes to explore is submitted as follows:

Suerte Claims

The following is a description of the Suerte claims #1 thru #8 said claims being located in the County of Grand, State of Utah, T 24 S, R 20 E, and being more particularly described as follows:

Suerte #1 - Commencing at corner #4 which is the NE Quarter corner of Section 11, T 24 S, R 20E, running thence South using the bearing of true North 600 to corner #1, thence West 1500 to corner #2, thence true North 600 to corner #3, thence East 1500 feet to corner #4 the point of beginning.

Suerte #2 - This claim is adjacent and contiguous to Suerte #1, #3 and #4, the West boundary line of Suerte #2 being a common boundary line with the East boundary line of Suerte #1 and Suerte #3 and part of the East boundary of Suerte #4, and corner #4 of Suerte #1 and corner #4 of Suerte #2 being a common point and the point of beginning and running thence East 600 feet to corner #1, thence South 1500 feet to corner #2, thence West 600 feet to corner #3, thence North 1500 feet to corner #4 the point of beginning.

L. T. KONOPAK, TRUSTEE,
605 Camino Monte Sol,
Santa Fe, New Mexico

Data Attached to Application
For Aid in an Exploration Project

Suerte #3 - This claim is adjacent and contiguous to Suerte "1 the Southern boundary line of Suerte #1 and the Northern boundary line of Suerte #3 being a common boundary line and corner #1 of Suerte #1 and corner #4 of Suerte #3 being a common point and the point of beginning and running thence South 600 feet to corner #1, thence West 1500 feet to corner #2, thence North 600 feet to corner #3, thence East 1500 to corner #4 the point of beginning.

Suerte #4 - this claim is adjacent and contiguous to Suerte #3 the Southern boundary line of Suerte #3 and the Northern boundary line of Suerte #4 being a common boundary line and corner #1 of Suerte #3 and corner #4 of Suerte #4 being a common point and the point of beginning and running thence South 600 feet to corner #1, thence West 1500 to corner #2, thence North 600 feet to corner #3, thence East 1500 to corner #4 the point of beginning.

Suerte #5 - this claim is adjacent and contiguous to Suerte #2 and Suerte #4 the Southern boundary of Suerte #2 and part of the Northern boundary of Suerte #5 being a common boundary line and part of the Eastern boundary line of Suerte #4 and part of the Western boundary line of Suerte #5 being a common boundary line and corner #3 of Suerte #2 and corner #1 of Suerte #5 being a common point and the point of beginning and running thence East 1500 feet to corner #2, thence South 600 feet to corner #3, thence West 1500 feet to corner #4, thence North 600 feet to corner #1 the point of beginning.

Suerte #6 - This claims is adjacent and contiguous to Suerte #1 the Western boundary line of Suerte #1 and the Eastern boundary line of Suerte #6 being a common boundary line and corner #3 of Suerte #1 and corner #2 of Suerte #6 being a common point and the point of beginning and running thence South 600 feet to corner #3, thence West 1500 feet to corner #4, thence North 600 feet to corner #1, thence East 1500 feet to corner #2 the point of beginning.

Suerte #7 - This claim is adjacent and contiguous to Suerte #6 the Southern boundary line of Suerte #6 and the Northern boundary line of Suerte #7 being a common boundary line and corner #3 of Suerte #6 and corner #2 of Suerte #7 being a common point and the point of beginning and running thence South 600 feet to corner #3, thence West 1500 feet to corner #4, thence North 600 feet to corner #1, thence East 1500 feet to corner #2 the point of beginning.

Suerte #8 - This claim is adjacent and contiguous to Suerte #7 the Southern boundary line of Suerte #7 and the Northern boundary line of Suerte #8 being a common boundary line and corner #3 of Suerte #7 and corner #2 of Suerte #8 being a common point and the point of beginning and running thence

L. T. KONOPAK, TRUSTEE
605 Camino Monte Sol
Santa Fe, New Mexico

Data Attached to Application
For Aid in an Exploration Project

South 600 feet to corner #3, thence West 1500 feet to corner #4, thence North 600 feet to corner #1, thence East 1500 feet to corner #2 the point of beginning.

It should be noted that the bearings used in the above description are taken from a true North bearing there being a variation of 15 degrees 30' from magnetic North.

It should also be noted that the writer has been informed that the survey marker on the ground has been incorrectly stamped and is shown to be T 25 S but should be T 24 S.

Oro Claims

The following is a description of the Oro mining claims #1 through #10 situated in the County of Grand, State of Utah, T 24 S, R 22 E and being more particularly described as Follows:

Oro #1 - Beginning at a point which is 710 feet North 2 degrees 30'East and 1800 feet North zero degree 83'West to corner #1 and thence magnetic North 1500 to corner #2, thence South zero degree 83'East 600 feet to corner #3, thence South 1500 feet to corner #4 (said Southerly heading or bearing being taken from a magnetic North bearing) thence North zero degree 83'West 600 feet to the point of beginning corner #1.

Oro #2 - This claim is adjacent and contiguous to Oro #1 the Southerly boundary of Oro #1 and the Northerly boundary of Oro #2 being a common boundary and corner #4 of Oro #1 and corner #1 of Oro #2 being a common point and the point of beginning and running thence South 1500 feet to corner #2, thence North zero degree 83'West 600 feet to corner #3, thence North 1500 feet to corner #4, thence South zero degree 83' East to corner #1 the point of beginning.

Oro #3 - This claim is adjacent and contiguous to Oro #1 the Easterly boundary of Oro #1 and the Westerly boundary of Oro #3 being a common boundary line and corner #4 of Oro #1 and corner #1 of Oro #3 being a common point and the point of beginning and running thence North 1500 feet to corner #2, thence South zero degree 83'East 600 feet to corner #3, thence South 1500 feet to corner #4, thence North zero degree 83'West to corner #1 the point of beginning

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For Aid in an Ezploration Project

Oro #4 - This claim is adjacent and contiguous to Oro #2 the Easterly boundary line of Oro #2 and the Westerly boundary of Oro #4 being a common boundary line and corner #1 of Oro #2 and corner #4 of Oro #4 being a common point and the point of beginning and running thence South zero degree 83'East 600 to corner #1, thence South 1500 to corner #2, thence North zero degree 83'West 600 feet to corner #3, thence North 1500 feet to corner #4 the point of beginning.

Oro #5 - This claim is adjacent and contiguous to Oro #3 the easterly boundary line of Oro #3 and the Westerly boundary line of Oro #5 being a common boundary line and corner #4 of Oro #3 and corner #1 of Oro #5 being a common point and the point of beginning and running thence North 1500 to corner #2 running thence South -0 degree 83'East 600 feet to corner #3, thence South 1500 to corner #4, thence North zero degree 83'West 600 feet to corner #1 the point of beginning.

Oro #6 - This claim is adjacent and contiguous to Oro #4 and the Easterly boundary line of Oro #4 and the Westerly boundary line of Oro #6 being a common boundary line and corner #1 of Oro #4 and corner #4 of Oro #6 being a common point and the point of beginning and running thence South zero degree 83'East 600 feet to corner #1 thence South 1500 feet to corner #2, thence North zero degree 83'West 600 feet to corner #3, thence North 1500 feet to corner #4 the point of beginning.

Oro #7 - This claim is adjacent and contiguous to Oro #5 and the Easterly boundary line of Oro #5 and the Westerly boundary line of Oro #7 being a common and contiguous boundary line and corner #3 of Oro #5 and corner #2 of Oro #7 being a common point and the point of beginning and running thence North 78 degrees 30'East 600 to corner #3, thence South 1500 to corner #4, thence South 78 degrees 30'West 600 feet to corner #1, thence North 1500 feet to corner #2 the point of beginning.

Oro #8 - This claim is adjacent and contiguous to Oro #6 the Easterly boundary line of Oro #6 and the Westerly boundary line of #8 being a common boundary line and corner #1 of Oro #6 and corner #4 of Oro #8 being a common point and the point of beginning and running thence North 78 degrees 30' East 600 feet to corner #1, thence South 1500 feet to corner #2, thence South 78 degrees 30'West 600 feet to corner #3, thence North 1500 to corner #4 the point of beginning.

Oro #9 - This claim is adjacent and contiguous to Oro #7 the Easterly boundary line of Oro #7 and the Westerly boundary

L. T. KONOPAK, TRUSTEE
605 Camino Monte Sol
Santa Fe, New Mexico

Data Attached to Application
For Aid in an Exploration Project

line of Oro #9 being a common boundary line and corner #3 of Oro #7 and corner #2 of Oro #9 being a common point and the point of beginning and running thence North 78 degrees 30'East 600 feet to corner #3, thence South 1500 feet to corner #4, thence South 78 degrees 30'West 600 feet to corner #1, thence North 1500 feet to corner #2 the point of beginning.

Oro #10 - This claim is adjacent and contiguous to Oro #8 the Easterly boundary line of Oro #8 and the Westerly boundary line of Oro #10 being a common boundary line and corner #1 af Oro #8 and corner #4 of Oro #10 being a common point and the point of beginning and running thence North 78 degrees 30 ' East 600 feet to corner #1, thence South 1500 feet to corner #2, thence South 78 degrees 30'West to corner #3, thence North 1500 feet to corner #4 the point of beginning.

It should be noted that the courses and distances recited herein are recited as being based on magnetic North there being a variation between true North and magnetic North of 15 degrees and 30'.

Nancy Claims

The following is a description of the Nancy Claims #1 through #4 situated in Grand County, State of Utah, T 24 S, R 22 E, SLM and being more particularly described as follows:

Nancy #1 - Beginning at a point at the West Quarter corner of Section 10, T 24 S, R 22 E, said point being 50 feet South of the discovery monument of said Nancy #1 and running thence West 300 feet to corner #1, thence North 1500 feet to corner #2, thence East 600 feet to corner #3, thence South 1500 feet to corner #4, thence West 300 feet to the point of beginning.

Nancy #2 - This claim is adjacent and contiguous to Nancy #1 the Southerly boundary of Nancy #1 and the Northerly boundary of Nancy #2 being a common boundary and corner #4 of Nancy #1 and corner #1 of Nancy #2 being a common point and the point of beginning and running thence South 1500 feet to corner #2, thence West 600 feet to corner #3, thence North 1500 to corner #4, thence East 600 feet to corner #1 the point of beginning.

L. T. KONOPAK, TRUSTEE
605 Camino Monte Sol
Santa Fe, New Mexico

Data Attached to Application
For Aid in an Exploration Project

Nancy #3 - This claim is adjacent and contiguous to Nancy #1 the Westerly boundary of Nancy #1 and the Easterly boundary of Nancy #3 being a common boundary and corner #1 of Nancy #1 and corner #4 of Nancy #3 being a common point and the point of beginning and running thence West 600 feet to corner #1, thence North 1500 feet to corner #2, thence East 600 to corner #3, thence South 1500 feet to corner #4 the point of beginning.

Nancy #4 - This claim is adjacent and contiguous to Nancy #3 the Southerly boundary of Nancy #3 and the Northerly boundary of Nancy #4 being a common boundary and corner #4 of Nancy #3 and corner #1 of Nancy #4 being a common point and the point of beginning and running thence South 1500 feet to corner #2, thence West 600 feet to corner #3, thence North 1500 feet to corner #4, thence East 600 feet to corner #1 the point of beginning.

The courses and distances described in the foregoing descriptions are based upon magnetic North bearing there being a variation between true North and magnetic North of 15 degrees and 30'.

The following is a description of the Nancy Claims #5 and #6 said claims being located in the County of Grand, State of Utah in the East 1/2 of section 9 of T 24 S, R 22 E, SLM, and being more particularly described as follows:

Nancy #5 - Beginning at corner #1 of Nancy #5 which corner is 114 feet East of the Arches National Monument boundary in the East 1/2 of Section 9, T 24 S, R 22 E and running thence North 9 degrees 30'East 1500 feet to corner #2, thence East 600 feet to corner #3, thence South 1500 feet to corner #4, thence West 600 feet to corner #1 the point of beginning.

Nancy #6 - This claim is adjacent and contiguous to Nancy #5 the Southerly boundary of Nancy #5 and the Northerly boundary of Nancy #6 being a common boundary and corner #4 of Nancy #5 and corner #1 of Nancy #6 being a common point and the point of beginning and running thence South 15 degrees 30'East 1500 feet to corner #2, thence West 600 feet to corner #3, thence North 15 degrees 30'West 1500 feet to corner #4, thence East 600 feet to corner #1 the point of beginning.

It should be noted that the courses and distances described herein are described from a magnetic North bearing there being a variation between true and magnetic North of 15 degrees and 30'.

L. T. KONOPAK, TRUSTEE
605 Camino Monte Sol
Santa Fe, New Mexico

Data Attached to Application
For Aid in an Exploration Project

K-Ore Claims

The following is a description of the mining claims known as the K-Ore mining claims #1 thru #9 inclusive located in the County of Grand, State of Utah, T 23 S, R 21 E, SLM.

K-Ore #1 - Commencing at the NW Quarter corner of Section 33, T 23 S, R 21 E, SLM, said point being 10 feet East of the discovery monument of said claim and running thence North zero degree 03' West 300 feet to corner #1, thence South 89 degrees 58'West 1500 feet to corner #4, thence South zero degree 03'West 600 feet to corner #3, thence North 89 degrees 58'East 1500 feet to corner #2, thence North zero degree 03'West 300 feet to the point of beginning.

K-Ore #2 - This claim is adjacent and contiguous to K-Ore #1 the East boundary of K-Ore #1 and the West boundary of K-Ore #2 being the common boundary in part the point of beginning of the description of K-Ore #1 and corner of #1 of K-Ore #2 being a common point on said common boundary line and K-Ore #2 being described as follows: Beginning at the NW Quarter corner of Section 33, T 23 S, R 21 E, said point being corner #1 of the K-Ore #2 mining claim and running thence 88 degrees 58'East 600 to corner #2, thence South 01 degree 02'West 1500 feet to corner #3, thence North 88 degrees 58' West 300 feet to corner #4, thence North 01 degree 02'East 1500 feet to corner #1 the point of beginning.

K-Ore #3 - This claim is adjacent and contiguous to K-Ore #2 the whole of the East boundary of K-Ore #2 and the whole of the West boundary line of K-Ore #3 being a common boundary line, corner #2 of K-Ore #2 and corner #1 of K-Ore #3 beinga common point and the point of beginning and running thence South 89 degrees 59'East 600 feet to corner #2, thence South 01 degree 02'West 1500 feet to corner #3, thence North 89 degrees 59'West 300 feet to corner #4, thence North 01 degree 02'East 1500 feet to corner #1 the point of beginning.

K-Ore #4 - This claim is adjacent and contiguous to K-Ore #3 the whole of the East boundary line of K-Ore #3 and the whole of the West boundary line of K-Ore #4 being a common boundary line. Corner #2 of K-Ore #3 and corner #1 of K-Ore #4 is a common point and the point of beginning and running thence North 89 degrees 08'East 300 feet to corner #2, thence South 01 degree 02'West 1500 feet to corner #3, thence South 89 degrees 08' West 300 feet to corner #4, thence North 01 degree 02'East 1500 feet to corner #1 the point of beginning.

L. T. KONOPAK, TRUSTEE
605 Camino Monte Sol
Santa Fe, New Mexico

Data Attached to Application
For Aid in an Exploration Project

K-Ore #5 - This claim is adjacent and contiguous to K-Ore #2 and K-Ore #3 the North boundary line of K-Ore #5 being a common boundary line with part of the Southern boundary line of K-Ore #2 and part of the Southern boundary line of K-Ore #3 and beginning at corner #1 which is a point South 10 degrees 30'East 1528 feet and running thence North 89 degrees 37½' East 600 feet to corner #2 running thence South zero degree 24½'East 1500 feet to corner #3, thence South 89 degrees 35½'West 600 feet to corner #4, thence North zero degree 24½'West 1500 feet to corner #1 the point of beginning.

K-Ore #6 - This claim is adjacent and contiguous to K-Ore #5 the East boundary line of K-Ore #5 and the West boundary line of K-Ore #6 being a common boundary line and corner #2 of K-Ore #5 and corner #1 of K-Ore #6 being a common point and a point of beginning and running thence North 89 degrees, 37½'East 600 feet to corner #2, thence South zero degree 24½'East 1500 feet to corner #3, thence South 89 degrees 35½'West 600 feet to corner #4, thence North zero degree 24½'West 1500 feet to corner #1 the point of beginning.

K-Ore #7 - This claim is adjacent and contiguous to K-Ore #6 the East boundary line of K-Ore #6 and the West boundary line of K-Ore #7 being a common boundary line and corner #2 of K-Ore #6 and corner #1 of K-Ore #& being a common point and a point of beginning and running thence North 89 degrees 37½'East 600 feet to corner #2, thence South zero degree 24½'East 1500 feet to corner #3, thence South 89 degrees 35½'West 600 feet to corner #4, thence North zero degree 24½'West 1500 feet to corner #1 the point of beginning.

K-Ore #8 - This claim is adjacent and contiguous to K-Ore #7 the East boundary line of K-Ore #7 and the West boundary line of K-Ore #8 being a common boundary line and corner #2 of K-Ore #7 and corner #1 of K-Ore #8 being a common point and the point of beginning and running thence North 89 degrees 37½'East 600 feet to corner #2 thence South zero degree 24½' East 1500 feet to corner #3 thence South 89 degrees 35½'West 600 feet to corner #4 thence North zero degree 24½'West 1500 to corner #1 and the point of beginning.

K-Ore #9 - This claim is adjacent and contiguous to K-Ore No.5, K-Ore #6 and K-Ore #7 the Northern boundary line of K-Ore #9 being a common boundary line with part of the Southern boundary line of K-Ore #5 and a common boundary line with all of

10

L. T. KONOPAK, TRUSTEE
605 Camino Monte Sol
Santa Fe, New Mexico

Data Attached to Application
For Aid in an Exploration Project

the Southern boundary of K-Ore #6 and all of the Southern Boundary of K-Ore #7 and beginning at corner #1 of K-Ore #9 which is a point South 11 degrees 20'East 3060 feet and running thence North 89 degrees 35½'East 1500 feet to corner #2, thence South zero degree 24½'East 600 feet to corner #3, thence South 89 degrees 35½'West 1500 to corner #4, thence zero degree 24½'West 600 to corner #1 the point of beginning.

L. T. KONOPAK, TRUSTEE
605 Camino Monte Sol
Santa Fe, New Mexico

Data Attached to Application
For Aid in an Exploration Project

Primero and Derecho Claims

Primero #1 - Commencing at the Northeast corner being corner #4 which lies 78 feet due West of the quarter corner of Sections 13 and 14, Township 23 South, Range 20 East, SLM, Grand County, Utah, running thence North 58 degrees West 1500 feet to corner #3, thence South 32 degrees West 600 feet to corner #2, being identical with corner #4 of Derecho #1 hereinafter described, thence South 58 degrees East 1500 feet to corner #1, thence North 32 degrees East 600 feet to the point and place of beginning.

Derecho #1 - This claim is adjacent and partially contiguous to the West boundary of Primero #1 and is described as beginning at the Southeast corner being corner #4 of this claim, a point identical with corner #2 of Primero #1 above described and running thence North 32 degrees East 1500 feet to corner #3, thence North 58 degrees West 600 feet to corner #2, a point identical with corner #3 of Derecho #2 hereinafter described, thence South 32 degrees West along a common boundary of this claim and Derecho #2 hereinafter described 1500 feet to corner #1, being a point identical with corner #4 of Derecho #2, thence South 58 degrees East 600 feet to the point and place of beginning.

Derecho #2 - This claim is adjacent and contiguous to Derecho #1, the East boundary line of this claim and the West boundary line of Derecho #1 being a common line, and corner #4 of this claim and corner #1 of Derecho #1 being a common point, and corner #3 of this claim and corner #2 of Derecho #1 being a common point, and beginning at said corner #1 of Derecho #1 running thence along said common boundary North 32 degrees East 1500 feet to corner #3, thence North 58 degrees West 600 feet to corner #2, being a point common with corner #3 of Derecho #3 hereinafter described, thence South 32 degrees West 1500 feet to corner #1 of this claim being a point common to corner #4 of Derecho #3 hereinafter described, thence South 58 degrees East 600 feet to the point and place of beginning.

Derecho #3 - This claim is adjacent and contiguous to Derecho #2, the East boundary line of this claim and the West boundary line of Derecho #2 being a common

L. T. KONOPAK, TRUSTEE
605 Camino Monte Sol
Santa Fe, New Mexico

Data Attached to Application
For Aid in an Exploration Project

Primero and Derecho Claims

line and corner #3 of this claim being a common point with corner #2 of Derecho #2 and corner #4 of this claim being a common point with corner #1 of Derecho #2 and beginning at corner #1 of this claim, thence North 32 degrees East along said common line 1500 feet to the common point, being corner #3 of this claim and corner #2 of Derecho #2, thence North 58 degrees West 600 feet to corner #2, thence South 32 degrees West 1500 feet to corner #1, thence South 58 degrees East 600 feet to the point and place of beginning.

L. T. KONOPAK, TRUSTEE
605 Camino Monte Sol
Santa Fe, New Mexico

Data Attached to Application
For Aid in an Exploration Project

3(f). Recording Data re Claims: The book and page numbers for each recorded location notice are submitted as follows:

Mine Name	Locator	Original Entry Book	Original Entry Page	Original Entry Entry No.	Amended Entry No.
Suerte #1	Skakel, Watson	24	488		
Suerte #2	" "	24	489		
Suerte #3	" "	24	489		
Suerte #4	" "	24	490		
Suerte #5	" "	24	490		
Suerte #6	" "	27	522		
Suerte #7	" "	27	522		
Suerte #8	" "	27	523		
Oro #1	Skakel, Reynolds, Watson	23	364		
Oro #2	" " "	23	364		
Oro #3	" " "	23	365		
Oro #4	" " "	23	365		
Oro #5	" " "	23	366		
Oro #7	" " "	23	366		
Oro #8	" " "	23	367		
Oro #9	" " "	23	367		
Oro #10	" " "	23	368		
Nancy #1	J. C. Skakel	18	22		
Nancy #2	"	18	22		
Nancy #3	"	18	23		
Nancy #4	"	18	23		
Nancy #5	"	18	24		
Nancy #6	"	18	24		
K-Ore #1	Mrs. L. T. Konopak	25	205	225,207	
K-Ore #2	"	25	205	225,208	
K-Ore #3	"	25	206	225,209	229,980
K-Ore #4	"	25	206	225,210	229,981
K-Ore No.5	"	25	207	225,211	229,982
K-Ore #6	"	25	207	225,212	229,983
K-Ore #7	"	25	208	225,213	229,984
K-Ore #8	"	25	208	225,214	229,985
K-Ore #9	"	25	209	225,216	229,986
Primero #1	Skakel, Watson, Melroy	20	64		
Derecho #1	" " "	20	63		
Derecho #2	" " "	20	64		
Derecho #3	" " "	20	65		

4. Physical Description:

4(a). Exploration Operations: There have been no mining or exploration operations, such as drilling, conducted upon

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605 Camino Monte Sol
Santa Fe, New Mexico

Data Attached to Application
For Aid in an Exploration Project

the lands involved herein. There are no existing mines working or production facilities available.

4 (b). Production: There has been no production in the past, nor is there any current production. The ore reserves on the claims involved herein are undetermined.

4 (c). The claims involved herein and the roads leading to them are shown on the map on the next page, which covers that part of Grand County, Utah, in which they are located.

21-a

L. T. KONOPAK, TRUSTEE
605 Camino Monte Sol
Santa Fe, New Mexico

Data Attached to Application
For Aid in an Exploration Project

4 (c). Geological Features: The applicant's reasons for wishing to explore the claims are to determine the extent and accessability of uranium ore, and the feasibility of conducting a mining operation. Maps and the geological features of the respective claims are submitted as follows:

Suerte Claims

2

L. T. KONOPAK, TRUSTEE
605 Camino Monte Sol
Santa Fe, New Mexico

Data Attached to Application
For Aid in and Exploration Project

Geological Features of Suerte Claims.

There are eight Suerte Claims located in Sections 11 and 12 of T.24 S., R.20 E. These claims are located entirely in the Morrison formation, as shown on Plate No. 1 of USGS in Geology of the Salt Valley Anticline and Adjacent Areas, Grant County, Utah, by C. H. Dane, Bulletin 863. Claims Nos. 6, 7 and 8 are on top of the Brushy Basin member of the Morrison; and Claims Nos. 1, 3 and 4, and a portion of the West end of No. 5 are on top of the Salt Wash member. The major portion of Nos. 2 and 5 are in the second rim of the Salt Wash member. An ore showing exists in the northeast corner of No. 4. ? grade + extent?

The applicant believes that the primary drilling should be confined to those claims lying on the top of the Salt Wash member, i.e., in claims Nos. 1, 3, 4 and the West end portion of No.5. The drilling depth will probably not exceed 200 feet.

Oro Claims

L. T. KONOPAK, TRUSTEE
605 Camino Monte Sol
Santa Fe, New Mexico

Data Attached to Application
For Aid in an Exploration Project

Geological Features of Oro Claims

There are nine Oro Claims located in Sections 10, 11, 14 and 15 of T. 24 S., R. 22 E. These claims are located on the floor of Cache Valley, and lie almost entirely exposed in the Salt Wash member of the Morrison formation, as shown by Plate #1, USGS Bulletin 863, supra. The Brushy Basin of the Morrison formation is exposed just North of Claims Nos. 1, 3 and 5, which indicates that most of these three claims are on the top of the Salt Wash member.

Claims 1, 3 and 5 should be drilled in the program of primary drilling. The remaining claims include many faults within the Cache Valley and more detailed study will be necessary to determine final locations for drilling. The depth of the Salt Wash on claims Nos. 1, 3 and 5 should not exceed 200 feet, while the depth on the remaining claims will vary with the depth of the formation and may run as deep as 600 feet.

Nancy Claims

L. T. KONOPAK, TRUSTEE
605 Camino Monte Sol
Santa Fe, New Mexico

Data Attached to Application
For Aid in and Exploration Project

Geological Features of Nancy Claims

There are six Nancy Claims located in Section 9, T. 24 S., R. 22 E. These claims lie in an extremely faulted area of the Cache Valley Graben in which there are exposed both members of the Morrison formation and also the Dakota formation, as shown in Plate #1, USGS Bulletin 863, supra.

From the base of the Bushy Basin to the base of the Salt Wash member, the depth appears to be approximately 200 feet with variation of 200 feet according to the depth of the formations. One ore showing exists on claim No. 3 and appears to be in the top rim of the Salt Wash member.

Grade & extent?

K-Ore Claims

L. T. KONOPAK, TRUSTEE
605 Camino Monte Sol
Santa Fe, New Mexico

Data Attached to Application
For Aid in an Exploration Project

Geological Features of K-Ore Claims

There are nine K-Ore Claims. They are located in Sections 29 and 33, T. 23 S., R. 21 E. These claims are located in an exposed Chinle red shale, as shown on Plate #1, USGS Bulletin 836, supra.

From Plate No. 3 of the aforesaid bulletin, it appears that the depth of the Chinle formation would be approximately 300 feet. This entire depth should be drilled. A narrow neck of Paradox runs well into the center of these claims, and no drilling is suggested in this formation. The Wingate formation is exposed in portions of claims Nos. 3 and 4 and it is not proposed to drill them in the primary drilling program.

Primero and Derecho Claims

L. T. KONOPAK, TRUSTEE
605 Camino Monte Sol
Santa Fe, New Mexico

Data Attached to Application
For Aid in an Exploration Project

Geological Features of Primero and Derecho Claims

There are one Primero and three Derecho Claims located in Section 14, T. 23 S., R. 20 E. These four claims lie mostly on a surface of alluvial fill. However, a narrow strip of Chinle shale in Primero No. 1 indicates that the alluvial fill is very shallow, and Plate No. 3 of USGS Bulletin 863, supra, shows the Chinle formation to be very near the surface, and, therefore, worthy of exploration.

The total depth to the base of the Chinle will be approximately 350 feet. In a small portion of each claim at the North, the Wingate formation is exposed, and it is not intended to drill this formation in the primary drilling program.

4(d). Accessibility of Claims: The Suerte Claims located in Sections 11 and 12 of T. 24 S., R. 20 E., are approximately 14½ miles from the Uranium Mill and Stock Pile North of Moab. Ten and one-half miles North of the Uranium Mill on Highway 160, the trail runs in an easterly direction to the Suerte Claims for approximately four miles, of which the last mile would have to be graded for transporting the drilling equipment.

The Oro Claims located in Sections 10, 11, 14 and 15, T. 24 S., R. 22 E., are approximately 26 miles from the Uranium Mill and Stock Pile North of Moab. To reach these claims,

L. T. KONOPAK, TRUSTEE
605 Camino Monte Sol
Santa Fe, New Mexico

Data Attached to Application
For Aid in an Exploration Project

Highway 160 is followed for approximately nine miles North of the Uranium Mill, then an easterly direction is pursued on the road leading into and through the Arches National Monument for 15 miles, after which there is a fairly good trail for 7/10 of a mile. The last 1½ miles will have to be graded for transportation of drilling equipment. These claims are about 1½ miles beyond the Nancy Claims.

The Nancy Claims, located in Section 9, T.24 S., R.22 E., are approximately 25 miles from the Uranium Mill and Stock Pile North of Moab. To reach them, highway 160 is followed for approximately nine miles North of the Uranium Mill. Then the road to and through the Arches National Monument is followed for the next 16 miles. Approximately 3/4 of a mile of grading would be required for transportation of drilling equipment.

The K-Ore Claims, located in Sections 29 and 33 of T. 23 S., R. 21 E., are approximately 26½ miles from the Uranium Mill and Stock Pile at Moab. To reach them, Highway 160 is traveled for approximately nine miles North of the Uranium Mill. Then the next 17 miles are to and through the Arches National Monument toward Klondike Bluff. Approximately the last mile will have to be graded for transportation of drilling equipment.

The Primero and Derecho Claims, located in Section 14, T. 23 S., R. 20 E., are about three miles beyond the K-Ore claims on the same road toward Klondike Bluff. They are ap-

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605 Camino Monte Sol
Santa Fe, New Mexico

Data Attached to Application
For Aid in an Exploration Project

proximately 30 miles from the Uranium Mill and Stock Pile North of Moab. A couple of miles of grading would be required for the transportation of drilling equipment.

4(e). Availability of Supplies and Manpower: Considering the activities in the Moab area, there are plenty of supplies and manpower available. Water will have to be trucked to the claims for use in drilling.

5(b). Exploration Work: The drilling now proposed for the exploration of the claims involved herein is shown hereinbefore on the maps submitted under 4(c). Reference is also therein made to such features as ore showings and the geological structures of the claims.

5(d). Operating Experience: The applicant is not experienced in mining. He is the senior member of the firm of Konopak & Dalton, Certified Public Accountants, of Toledo, Ohio. The business of the firm was started by the applicant on January 1, 1919. The firm has about 80 employes, and has made audits for clients both small and large. Its largest client did a business of approximately 250 million dollars per year during the war years. The applicant, personally, has had a great deal of experience in formulating and directing the operations of new businesses, especially manufacturing.

L. T. KONOPAK, TRUSTEE
605 Camino Monte Sol
Santa Fe, New Mexico

Data Attached to Application
For Aid in and Exploration Project

The future plans of operating these claims are contingent upon the granting of this application for aid. Until the DMEA has approved our application, it is folly to make any contracts or firm commitments. When our application is approved, several firm bids from drilling companies will be obtained and a contract will be let to the lowest and best bidder. A geologist acceptable to AEC will be employed to surpervise the drilling operations. At the present time it is contemplated that Mr. Bill Owen, of Moab, Utah, will be employed as the geologist. However, as the applicant cannot determine how long it will take the DMEA to approve its application, a firm commitment of employment to Mr. Owen cannot be made at this time. The applicant believes that Mr. Owen is acceptable to the AEC, but if he is not available when this application is approved, then some other geologist acceptable to AEC will be employed.

After the drilling has been completed and if it is then found that a mining operation will be commercially feasible, then an expert mining engineer will be employed to set up a mining organization and to manage its operations. Obviously, no firm commitments can be made for these future plans until this application has been approved by DMEA.

6. Estimated Costs: -

6(a). Independent Contracts: The applicant contemplates

L. T. KONOPAK, TRUSTEE
605 Camino Monte Sol
Santa Fe, New Mexico

Data Attached to Application
For Aid in an Exploration Project

having all work in connection with the drilling done by independent contractors. The holes now proposed to be drilled are considered as the first or primary program for the purpose of determining the location of the ore. Depending upon the cores and findings in the primary drilling, it will be necessary to institute a secondary drilling program to determine the extent of the ore and the commercial feasibility of mining it. It is contemplated that the secondary drilling may be the subject of a second contract with DMEA, for the reason that the extent of it is impossible to determine until the primary drilling program is completed.

As no firm commitments have been made for the drilling operation herein proposed, the applicant desires to emphasize the fact that he is willing to modify the program in accordance with the superior judgment of the geologists in the AEC.

The locations proposed for drilling are marked on the maps hereinbefore submitted under 4(c). The applicant has a bid for the drilling work as follows:

<u>Drilling Costs</u>: N X size core (2 1/8") and 3½" Plug Bit Drilling:

<u>Solid Bit Drilling</u>

0 to 200 feet at $1.65 per foot
200 to 300 feet at $2.25 per foot
300 to 400 feet at $2.55 per foot

31

L. T. KONOPAK, TRUSTEE
605 Camino Monte Sol
Santa Fe, New Mexico

Data Attached to Application
For Aid in an Exploration Project

Core Drilling
0 to 200' at $3.00 per ft.
200 to 300' at $3.80 per ft.
300 to 400' at $4.25 per ft.

Stand-by Time: Any time in excess of two hours that the equipment is required to stand by for the convenience of the owner will be paid for at the rate of $8.00 per hour.

Moving Time: For each move from drill hole to drill hole, the cost will be $35.00 per move.

Access Roads: Bulldozer costs for making access roads will be at the rate of $10.00 per hour.

According to the above bid for the work, the costs of the drilling program, as shown on the maps hereinbefore submitted, are summarized as follows:

Name of Claim	No. of Holes	Average Depth	Total Footage Drilled	Total Cost
Suerte	27	200'	5,460'	$ 12,960.00
Oro	63	200'- 600'	24,000'	82,680.00
Nancy	48	200'- 300'	12,800'	36,480.00
K-Ore	59	300'	17,700'	53,775.00
Primero and Derecho	31	350'	10,850'	37,187.50
Totals	228		70,750'	$223,082.50

Cost of moving equipment to 228 holes @ $35 per hole		7,980.00
Road Building (estimate)		5,000.00
Total Drilling Costs		$236,062.50
Geologist for 180 days @ $50 per day	$9,000.00	
Accounting and other Administrative expenses	2,000.00	11,000.00
Total Estimated Costs for Completing Primary Drilling Program Suggested Herein		$247,062.50

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In computing the drilling costs above, about one-half of the holes were figured for core drilling and the remaining one-half for solid bit drilling.

If and when the Defense Mineral Exploration Administration approves this application, then the applicant will obtain several competitive bids and make firm contracts for the work to be performed, subject to the approval of the DMEA. After the primary drilling program is completed, the applicant hopes to enter into a second exploration contract with DMEA to determine the feasibility of mining the claims.

7. Funds Required: The applicant is prepared to furnish his share of the costs of the proposed project in accordance with the regulations on Government participation (Sec.7, DMEA No. 1).

The applicant has interested a small group of individuals who have signified their desire to invest an amount of money for a share in the claims herein involved sufficient to take care of the applicant's costs.

The foregoing statements are attached to and made a part of applicant's application for aid in an exploration project

L. T. KONOPAK, TRUSTEE
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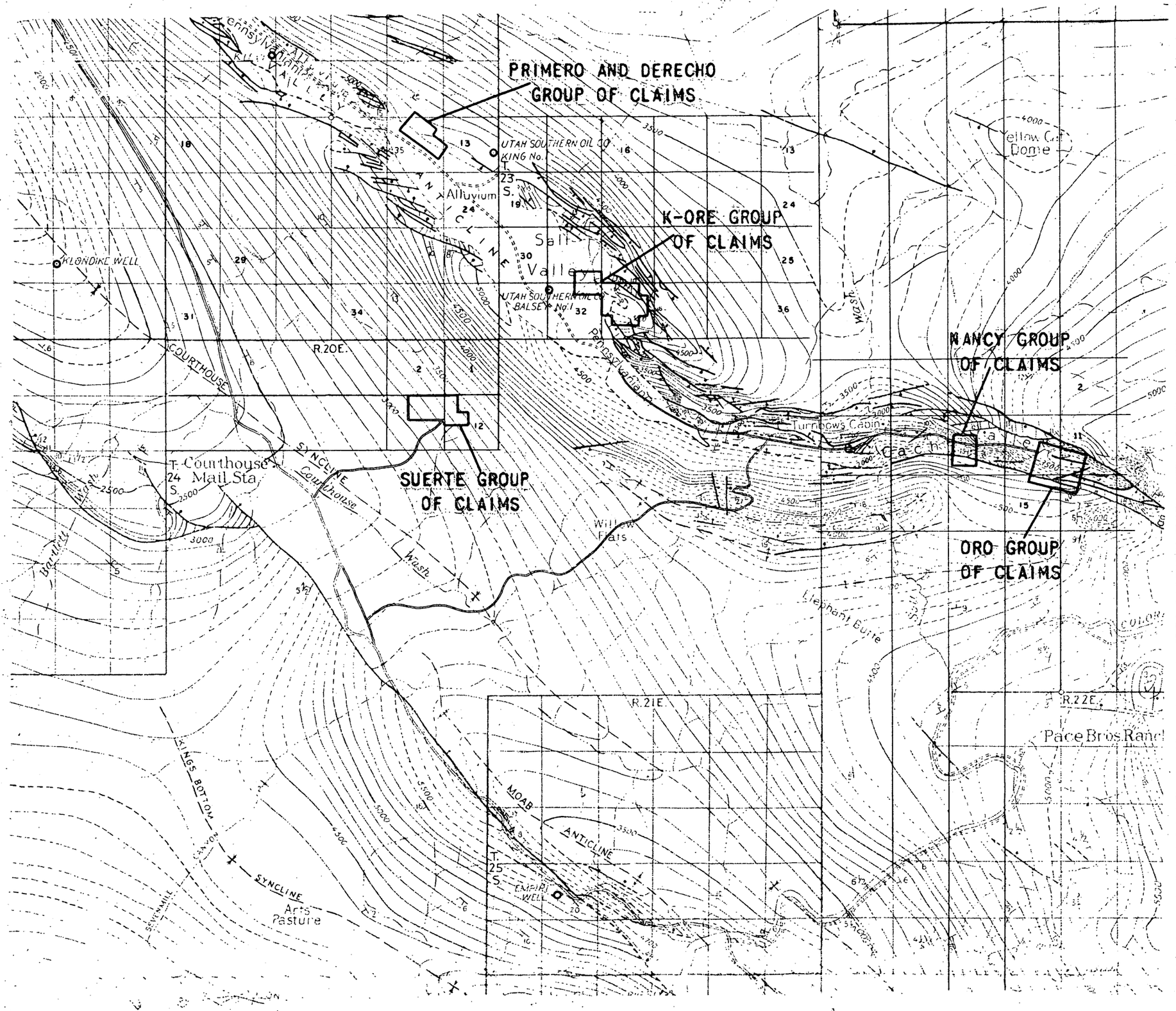
pursuant to DMEA Order 1, under the Defense Production Act of 1950, as amended.

L. T. Konopak



EXPLANATION

FAULT, SHOWING DOWNTHROWN SIDE, DASHED WHERE APPROXIMATELY LOCATED

ANTICLINE

SYNCLINE

STRIKE AND DIP OF BEDS

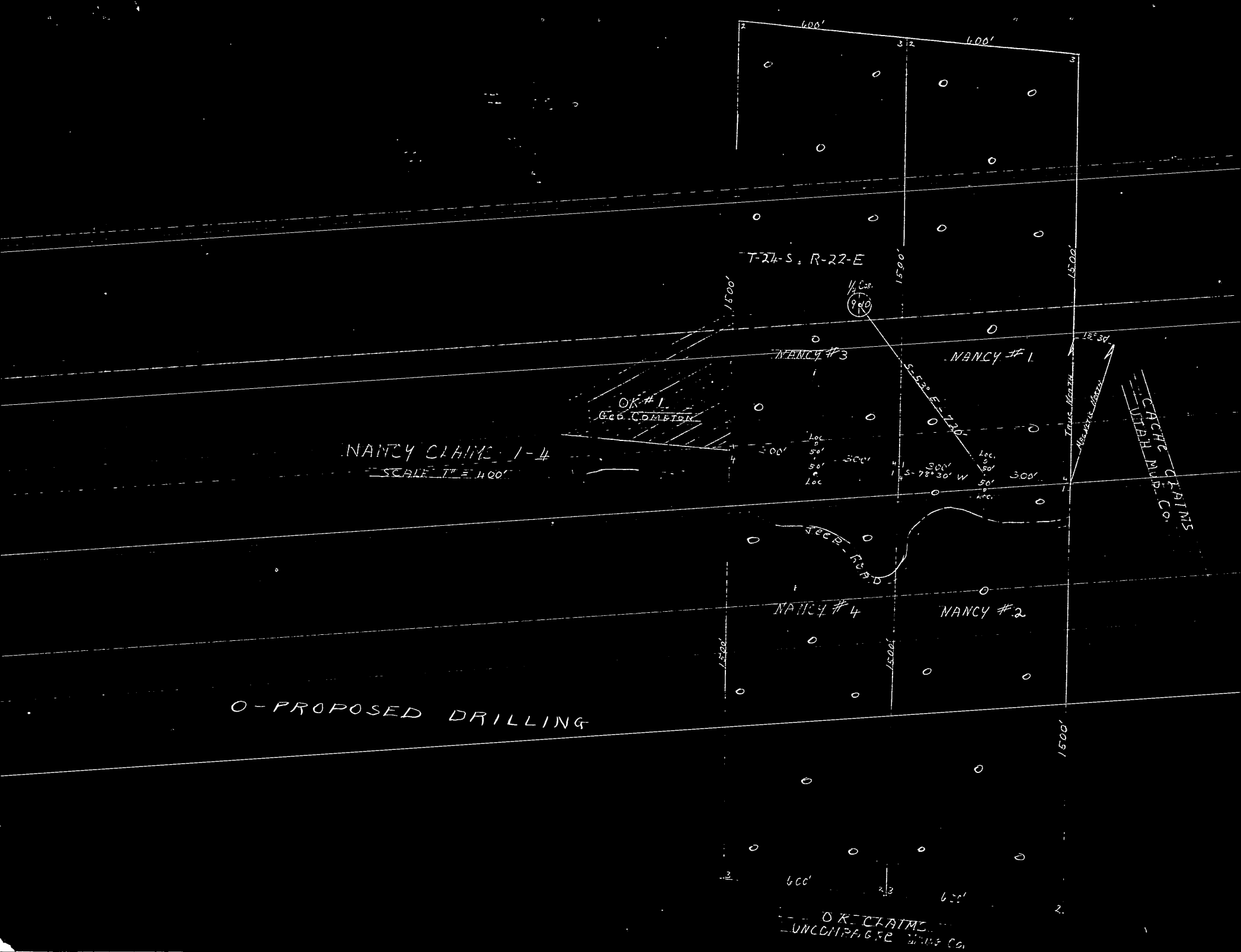
STRUCTURE CONTOUR DRAWN ON BASE OF WINGATE SANDSTONE

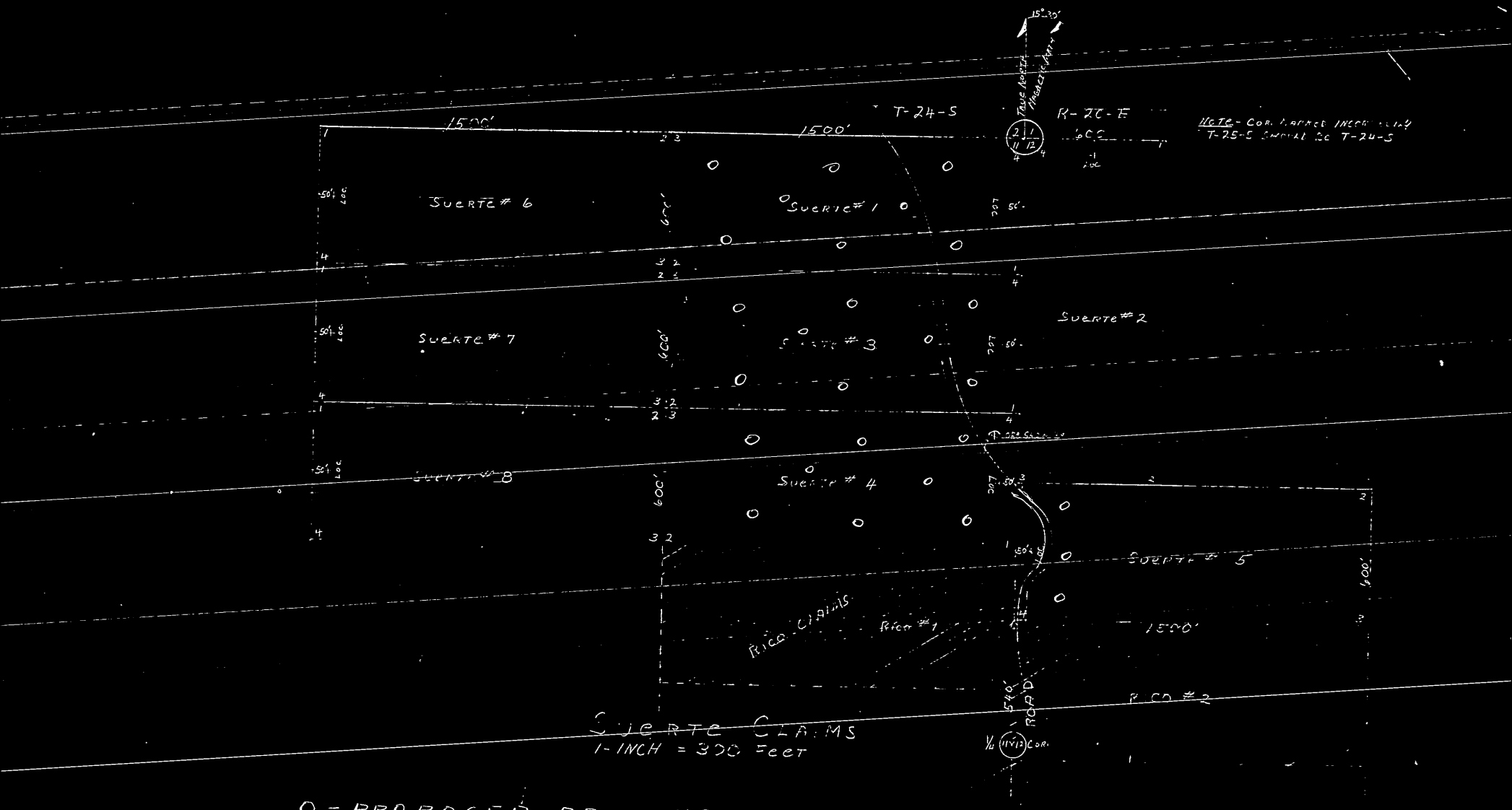
Note: BASE FROM PRELIMINARY MAP OF GEOLOGIC STRUCTURE OF GRAND AND SAN JUAN COUNTIES, UTAH (OM-169)

1 0 4 MILES

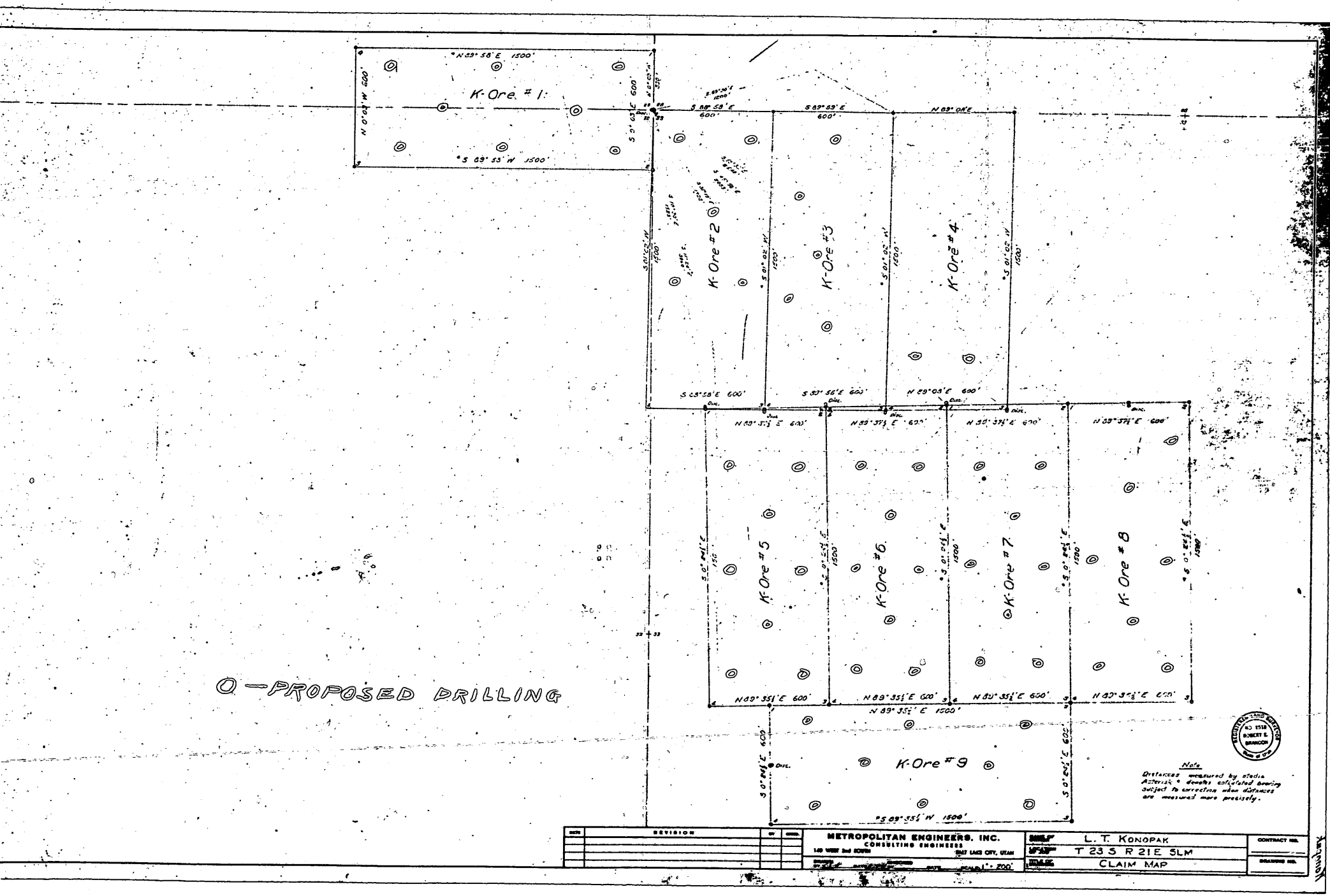
Figure 2. GEOLOGIC MAP OF SALT VALLEY AREA, SHOWING LOCATION OF PRIMERO AND DERECHO, K-ORE, NANCY, ORO AND SUERTE GROUPS OF CLAIMS, LOTHAR T. KONOPAK, TRUSTEE, GRAND COUNTY, UTAH

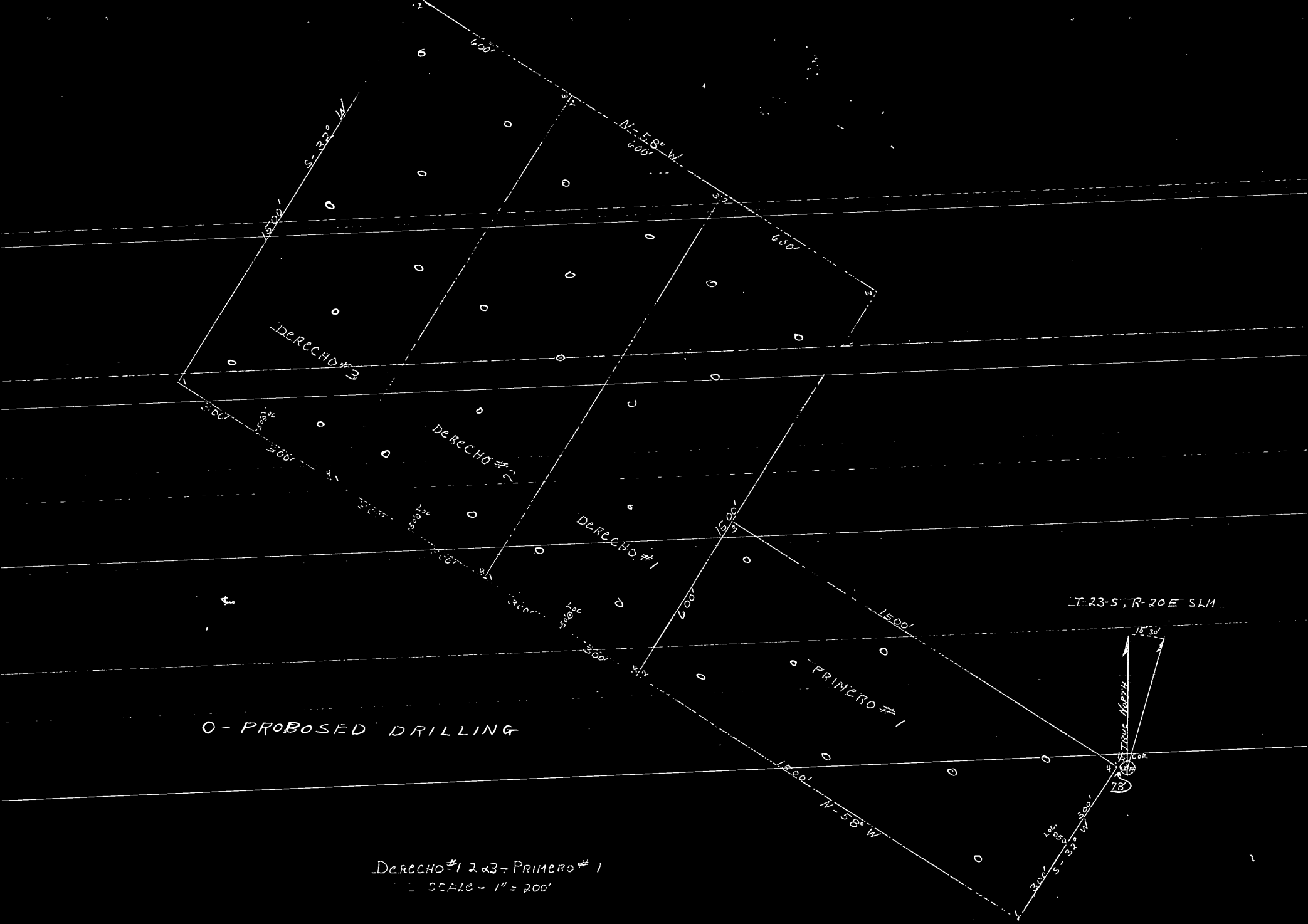
MAGNETIC NORTH
O-PROPOSED DRILLING


600'
600'
T-24-S, R-22-E
1500'
1500'
1500'
1/4 Cor.
NANCY #3
NANCY #1
15° 30'
S-52° E-720'
OK #1
GEO. COMPTON
NANCY CLAIMS 1-4
SCALE 1" = 400'
500'
500'
300'
S-78° 30' W
300'
True North
Magnetic North
CACHE CLAIMS
UTAH MUD CO.
Jeep Road
NANCY #4
NANCY #2
1500'
1500'
1500'
O-PROPOSED DRILLING
600'
600'
OK CLAIMS
UNCOMPAGRE MINE CO.

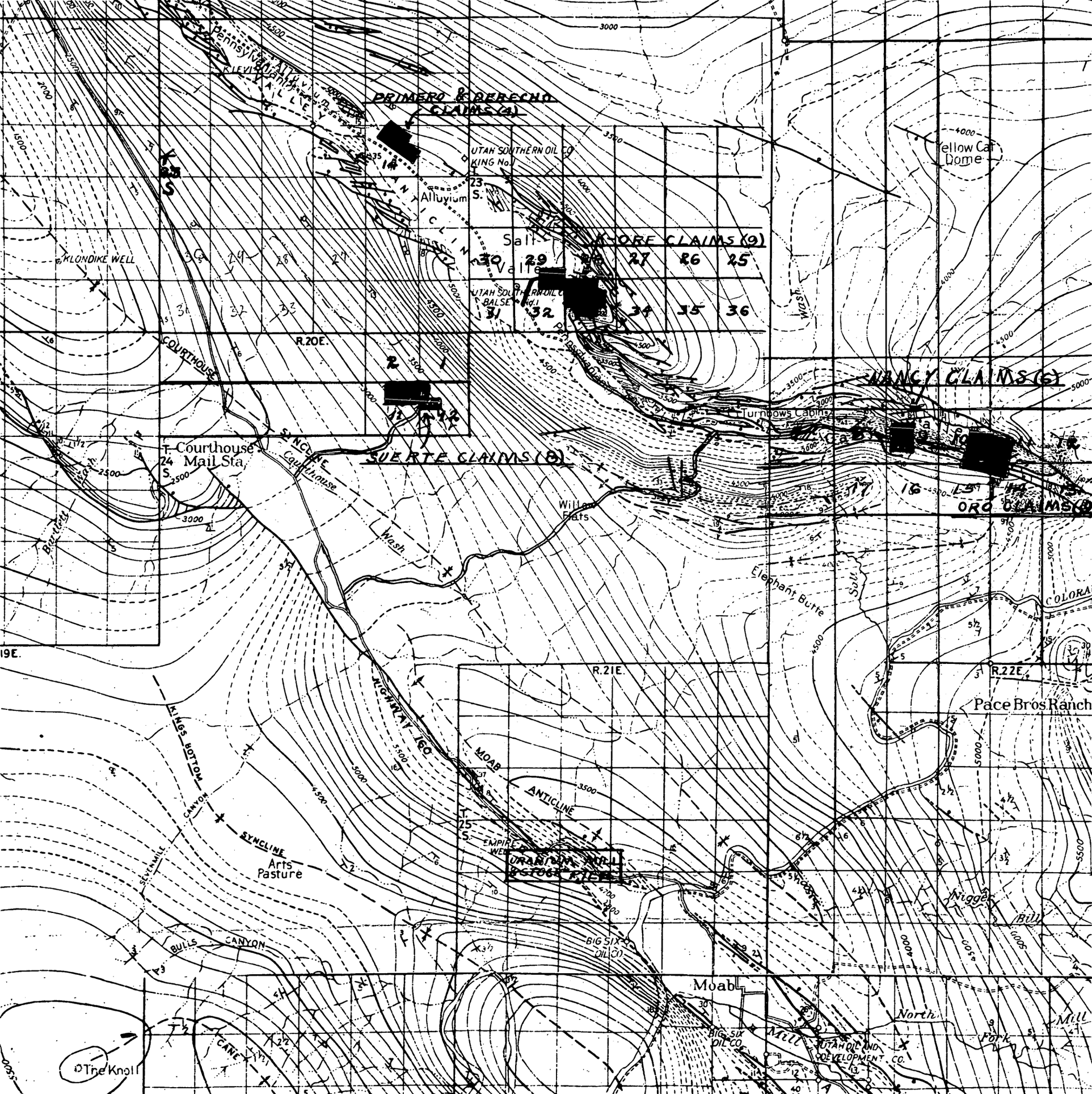


O - PROPOSED DRILLING


K-Ore #1
K-Ore #2
K-Ore #3
K-Ore #4
K-Ore #5
K-Ore #6
K-Ore #7
K-Ore #8
K-Ore #9
*N 89° 58' E 1500'
*S 89° 58' W 1500'
N 0° 02' W 600'
S 0° 02' E 600'
S 89° 58' E 600'
S 89° 59' E 600'
N 89° 01' E
S 0° 02' W 1500'
S 89° 55' E 600'
S 89° 56' E 600'
N 89° 05' E 600'
N 89° 37½' E 600'
N 89° 35½' E 600'
N 89° 35½' E 1500'
S 0° 24½' E 600'
S 0° 24½' E 1500'
*S 89° 35½' W 1500'
Q — PROPOSED DRILLING
Note
Distances measured by stadia.
Asterisk * denotes calculated bearing
subject to correction when distances
are measured more precisely.
REGISTERED LAND SURVEYOR
NO 1518
ROBERT E. BRANDOR
REVISION
METROPOLITAN ENGINEERS, INC.
CONSULTING ENGINEERS
140 WEST 2nd SOUTH
SALT LAKE CITY, UTAH
L. T. KONOPAK
T 23 S R 21E SLM
CLAIM MAP
CONTRACT NO.
DRAWING NO.
SCALE 1" = 200'

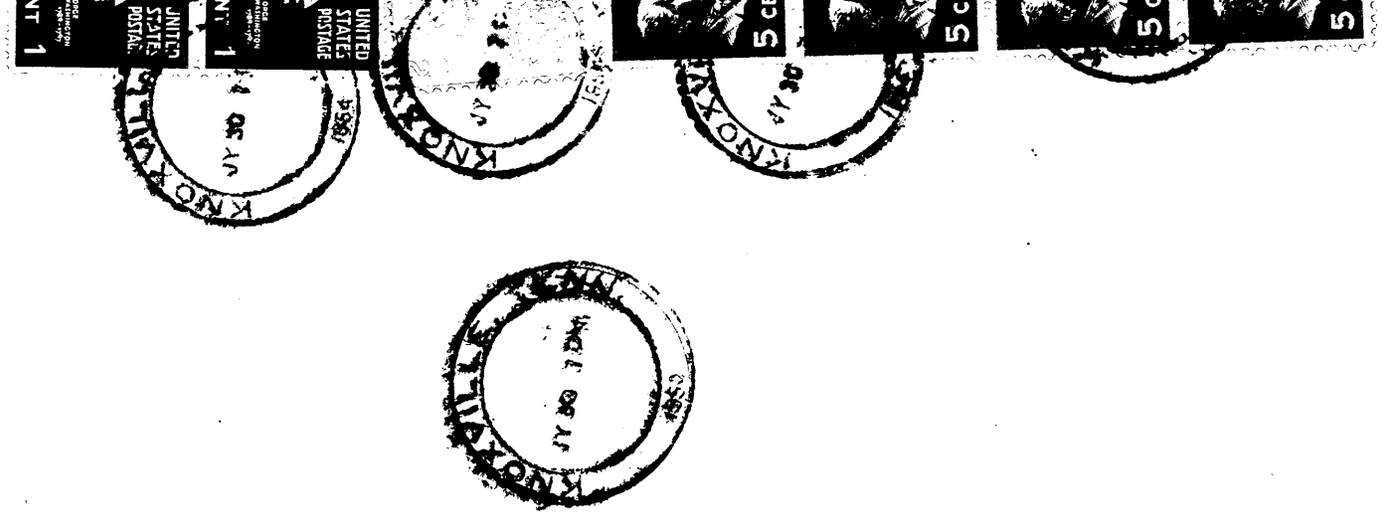

DERECHO #3
DERECHO #2
DERECHO #1
PRIMERO #1
N-58° W
S-32° W
1500'
600'
3000'
T-23-S, R-20 E SLM
TRUE NORTH
COM.
18°30'
O - PROPOSED DRILLING
DERECHO #1 2 & 3 - PRIMERO #1
SCALE - 1" = 200'

T-24-S, R-22-E
10·11
15·14
N-78° 30' E
600'
1500'
ORO #1
ORO #2
ORO #3
ORO #4
ORO #5
ORO #6
ORO #7
ORO #8
ORO #9
ORO #10
CACHE CLAIMS
TRUE NORTH
MAGNETIC NORTH
15° 30'
710'-S-2° 30' W
ORO CLAIMS - L-10, CACHE VALLEY
1-INCH = 300 Feet
O - PROPOSED DRILLING

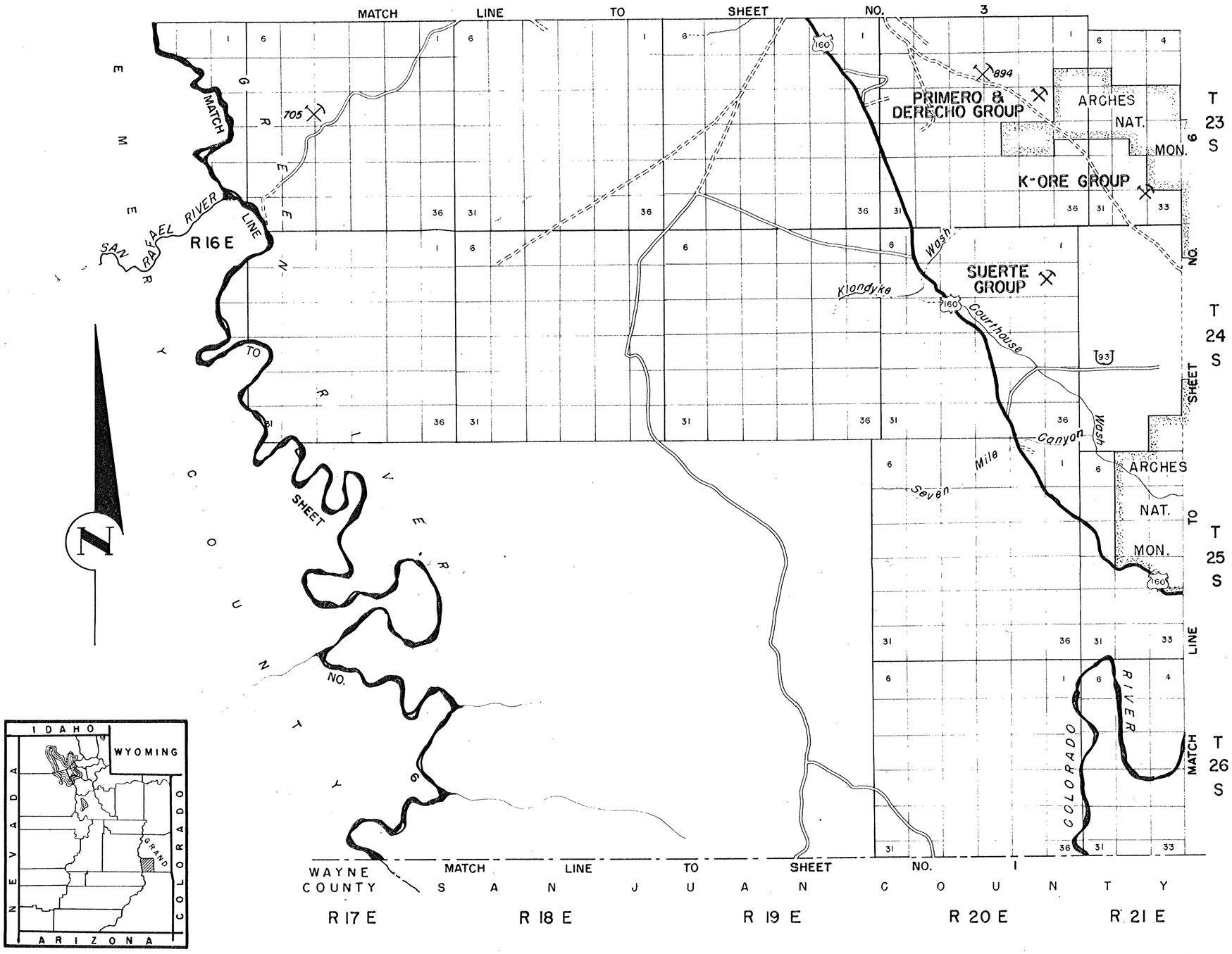

PRIMERO & DERECHO CLAIMS (4)
UTAH SOUTHERN OIL CO KING No.1
Alluvium
Salt Valley
ORE CLAIMS (9)
UTAH SOUTHERN OIL CO BALSER No.1
KLONDIKE WELL
COURTHOUSE
R.20E.
NANCY CLAIMS (6)
Turnbows Cabin
T. Courthouse
24 Mail Sta.
S.
SYNCLINE
Courthouse
SUERTE CLAIMS (8)
Willow Flats
Wash
Elephant Butte
ORO CLAIMS (8)
Yellow Cat Dome
Pace Bros. Ranch
R.21E.
R.22E.
HIGHWAY 160
MOAB
ANTICLINE
T. 25 S.
EMPIRE WELL
URANIUM MILL & STOCK PILE
KINGS BOTTOM
CANYON
SYNCLINE
Arts Pasture
SEVEN MILE
BULLS CANYON
BIG SIX OIL CO.
Moab
Nigger Bill
North Fork
Mill
UTAH OIL AND DEVELOPMENT CO.
The Knoll
CANE
Burlap

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

OFFICIAL BUSINESS



Mr. George C. Selfridge, Chairman
Operating Committee, D.M.E.A.
Dept. of the Interior
Washington 25, D.C.



U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Fig. 2

DMEA Docket No. 3593

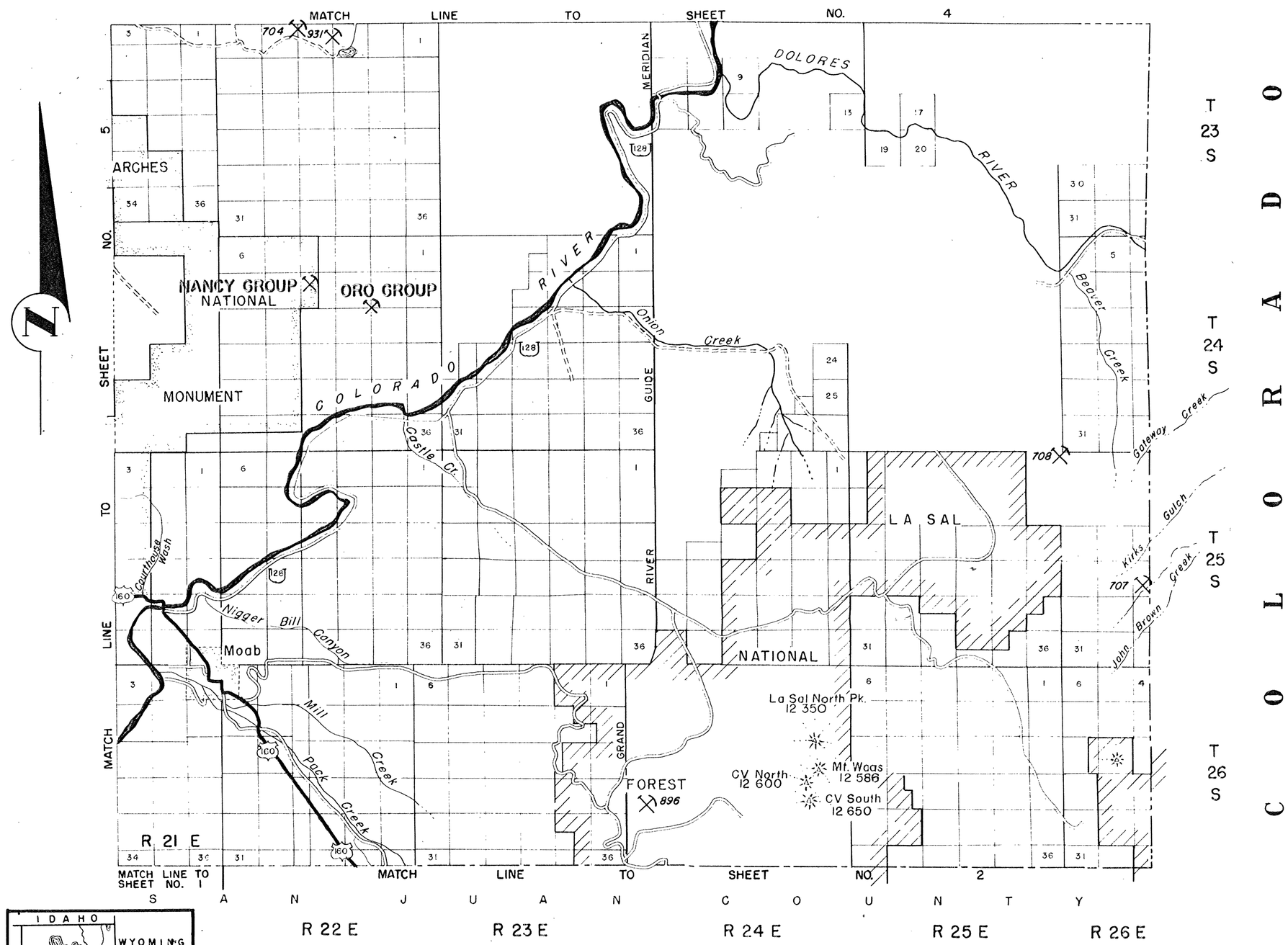
STATE : UTAH

COUNTY : GRAND

Sheet 5 of 6

Location Map of LOTHAR T. KONOPAK MINES

ENGINEER: *W. E. YOUNG*	DATE: JULY 13, 1955
TRACED: JULY, 1955, BY: A. P. T. S.	1900 - 342 - C
CHECKED :	



U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Fig. 1

DMEA Docket No. 3593

STATE : UTAH

COUNTY : GRAND

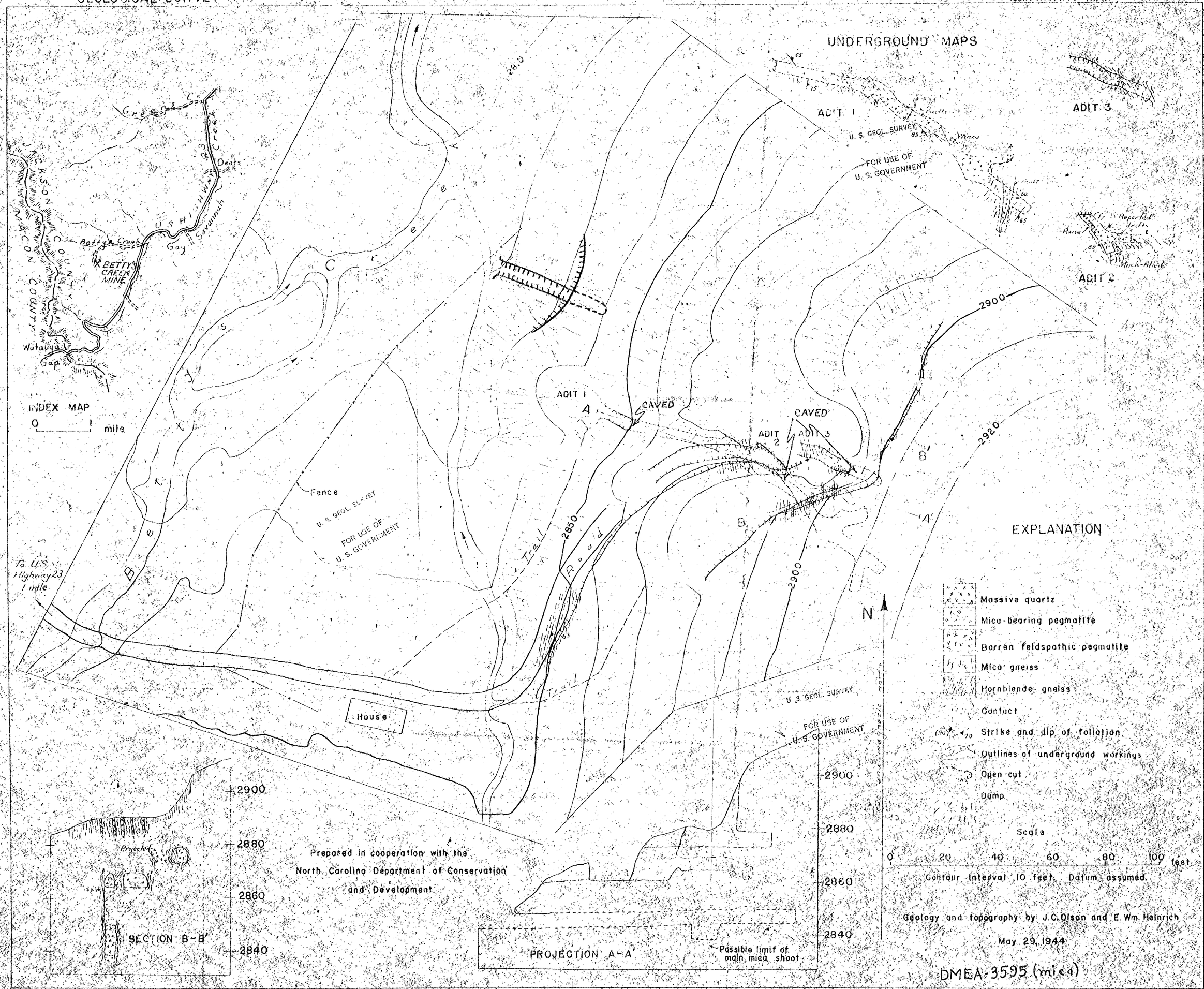
Sheet 6 of 6

Location Map of LOTHAR KONOPAK MINES

ENGINEER : W. E. YOUNG	DATE: JULY 11, 1955
TRACED: JULY, 1955, BY: A. P. T. S.	1900 - 341 - C
CHECKED :	

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STRATEGIC MINERALS INVESTIGATIONS
PRELIMINARY MAP



Prepared in cooperation with the
North Carolina Department of Conservation
and Development

BETTYS CREEK MICA MINE, JACKSON COUNTY, N. C.