DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

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DMA Docket No. 3643

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Cys to USBM, USGS, and Region II.

This document has been recorded as

Exploration

Any action taken to change the type of request for assistance must be promptly reported to the Reports and Records Branch. Use DMA Form 2 for submitting these reports.

Routing Slip

To:	700	Date	1/18/55
To:	Operating Com.	Date	1/28/55
To:	" "	Date	4/29/55
To:		Date	
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DO NOT DETACH

CONTROLLED DOCUMENT

Surname copy
Murphy
Ellis
Gechan
Kiilsgaard
Selfridge
Johnson

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

MAY - 2 1955

Mr. Clarence R. King
King & King
11762 Mines Avenue
Whittier, California

Re: Docket No. DMEA-3643 (Uranium)
Walter A. Martin
Sec. 35, T.10 N., R.13 W., S.B.B.& M.
Kitty Kat prospect
Kern County, California

Dear Mr. King:

The application for aid in an exploration project, referred to above, and other information available to us in Washington concerning the subject property have been reviewed.

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

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

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

Sincerely yours,

C. O. Mittendorf (for)

Administrator
FMMurphy/gla 4-26-55
cc to: Admr.'s 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. Murphy
DMEA Field Team, Region II (2)

Copy to: Walter A. Martin
525 Freeling Avenue
Sarasota, Florida

Docket copy

Murphy

April 25, 1955

Summary or Proposed Project

Object: Denial of application for an exploration project.

Docket No. DMEA-3643

Commodity: Uranium

Applicant: Walter A. Martin
525 Freeling Avenue
Sarasota, Florida. All correspondence to
King and King
11762 Mines Avenue
Whittier, California, with copy to Mr. Martin

Property: Sec. 35, T. 10 N., R. 13 W. S.B.B. & M.
Kitty Kat Prospect
Kern County, California

Date of Application: January 15, 1955

Amount of Application: $22,658.00

Work Proposed:

(1) Scintillometric survey of the section (1 square mile), stations at 300 foot intervals.

(2) 100 wagon drill holes, average depth estimated at 80 feet, or 8,000 feet of drilling.

Estimated Cost of Work Proposed:

Labor, supervision and consultant (includes radioactivity survey)	$10,615.00
Operating Materials and Supplies	1,780.00
Operating Equipment (rental)	5,432.00
Miscellaneous	1,876.00
Contingencies	2,955.00
	$22,658.00

Field Team Report: Transmitted April 5, 1955

The report recommends a denial of the application for exploration aid. The uranium-bearing lenses are small and widely scattered, the uranium content is too low to indicate the possibility of discovering an economic deposit. Field examination completed February 18, 1955. King and King, consulting engineers, in a letter, dated February 23, 1955, addressed to Mr. W. A. Martin and a copy of which was forwarded to DMEA, advises that the results of the preliminary work in probing drill holes and assay work which indicated 0.28 percent U_3O_8 were in error and that the values were only about 0.08 percent U_3O_8. King and King, therefore, recommended that Mr. Martin withdraw the subject application.

Geology of Prospect

The Kitty Kat prospect is in an area underlain by layered tuffaceous volcanic rocks of the Miocene Rosamond formation. The beds strike northwest, dip moderately southwest, and are cut by minor faults.

Autunite, the only radioactive mineral, is disseminated in small lenses scattered through rhyolitic tuff. Preliminary work by the applicant consisted of wagon drilling 32 holes, which the applicant's consultant King and King probed with the above described results.

The Field Team report, indicates that the radioactive mineral is erratically confined to the upper ten feet of the holes, also, that the tuff would only average 0.01 to 0.03 percent U_3O_8.

Commodity Committee Members' Comments:

U. S. Bureau of Mines

J. E. Crawford, April 20, 1955, states in part, "We concur with the Field Team's recommendation that the application for assistance be denied."

U. S. Geological Survey

R. D. Trace, April 20, 1955, states, "I concur with the Field Team and recommend a denial of the subject application because "The uranium-bearing lenses are small and widely scattered, and the uranium content is too low to indicate the possibility of discovering an economic deposit."

Rare and Miscellaneous Metals Division - F. M. Murphy, April 26, 1955

In view of the Field Team's report and the applicant's consulting engineers' letter, this Division recommends that the subject application should be denied.

Ernest Wm. Ellis

Ernest Wm. Ellis, Chief
Rare and Miscellaneous
Metals Division

4/21/55 gla

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 21 1955

April 20, 1955

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee

From: Bureau of Mines Member
Uranium Commodity Committee

Subject: Field Team report of examination, DMEA Docket 3643, Walter A. Martin, Kitty Kat prospect, Kern County, California

I have reviewed the Field Team report of examination, DMEA Docket 3643, Walter A. Martin, Kitty Kat prospect, Kern County, California; and I have discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

We concur with the Field Team's recommendation that the application for assistance be denied.

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

April 20, 1955

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee

From: Bureau of Mines Member
Uranium Commodity Committee

Subject: Field Team report of examination, DMEA Docket 3643, Walter A. Martin, Kitty Kat prospect, Kern County, California

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John E. Crawford

JECrawford:ds
Copy to: Division of Minerals
Branch of Rare and Precious Metals
J. O. Hosted (2)
J. E. Crawford (2)
F i l e s

4/20/55 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
APR 20 1955

April 20, 1955

Re: DMEA-3643
W. A. Martin
Kitty Kat Prospect
Kern County, Calif.
$22,658 - Uranium

Memorandum

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

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

Subject: Review of Field Team report

I concur with the Field Team and recommend a denial of the subject application because "The uranium-bearing lenses are small and widely scattered, and the uranium content is too low to indicate the possibility of discovering an economic deposit."

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
APR 20 1955

April 20, 1955

Re: DMEA-3643
W. A. Martin
Kitty Kat Prospect
Kern County, Calif.
$22,658 - Uranium

Memorandum

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

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

Subject: Review of Field Team report

I concur with the Field Team and recommend a denial of the subject application because "The uranium-bearing leases are small and widely scattered, and the uranium content is too low to indicate the possibility of discovering an economic deposit."

R. D. Trace

RDTrace:hlm

G-4/20/55

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

IN REPLY REFER TO:

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 20 1955

April 20, 1955

Re: DMEA-3643
W. A. Martin
Kitty Kat Prospect
Kern County, Calif.
$22,056 - Uranium

Memorandum

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

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

Subject: Review of Field Team report

I concur with the Field Team and recommend a denial of the subject application because "The uranium-bearing leases are small and widely scattered, and the uranium content is too low to indicate the possibility of discovering an economic deposit."

R. D. Trace

RDTrace:hlm

G-4/20/55

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

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

IN REPLY REFER TO:

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 20 1955

April 20, 1955

Re: DMEA-3643
W. A. Martin
Kitty Kat Prospect
Kern County, Calif.
$22,058 - Uranium

Memorandum

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

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

Subject: Review of Field Team report

I concur with the Field Team and recommend a denial of the subject application because "The uranium-bearing leases are small and widely scattered, and the uranium content is too low to indicate the possibility of discovering an economic deposit."

R. D. Trace

RDTrace:hlm

G-4/20/55

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

R Zn Ea 4/4/55 gla

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

Defense Minerals Administration
RECEIVED
APR 8 1955

1605 Evans Avenue
Reno, Nevada

April 5, 1955

Memorandum

To: Operating Committee, DMEA, Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-3643 - Uranium
Walter A. Martin
Sec. 35, T. 10 N., R. 13 W., S. B. B. &M.
Kitty Kat Prospect
Kern County, California

Reference is made to your letter of January 31, 1955 in which you referred above subject application to us for a field examination and recommendations.

Attached are four copies of a report, DMEA-3643 (Uranium) Mr. Walter A. Martin, Kitty Kat prospect, Kern County, California by B. H. Sheahan, mining engineer, U. S. Bureau of Mines, and Earl H. Pampeyan, geologist, U. S. Geological Survey, dated March 30, 1955.

The report recommends a denial of the application for exploration aid. The uranium-bearing lenses are small and widely scattered, and the uranium content is too low to indicate the possibility of discovering an economic deposit.

Roscoe Smith and I approve of the recommendations in the report and believe a denial is justified.

S. Ricker

Attach.

Reviewed by
DMEA OPERATING COMMITTEE
4-13-55
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

APR - 8 1957

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION II

APPLICATION REPORT

DMEA 3643 (Uranium)
Mr. Walter A. Martin
Kitty Kat prospect, Kern County, California

by

B. H. Sheahan
Mining Engineer
U. S. Bureau of Mines

Earl H. Pampeyan
Geologist
U. S. Geological Survey

March 30, 1955

4-13-55

Department of the Interior
Defense Minerals Administration
RECEIVED
JUN 8 1955

INTRODUCTION

Mr. Walter A. Martin, 525 Freeling Ave., Sarasota, Florida applied to the Defense Minerals Exploration Administration, docket DMEA 3643, for Government assistance in a $22,658.00 program to explore for uranium at the Kitty Kat prospect adjoining the Rosamond uranium mine (DMEA 2708), Kern County, California.

A field examination was made Feb. 18, 1955 by B. H. Sheahan, Mining Engineer, U. S. Bureau of Mines, Earl H. Pampeyan, Geologist, U. S. Geological Survey, and Wayne S. Moen, Geologist, U. S. Atomic Energy Commission, accompanied by Mr. Dan M. King, the applicant's Consulting Engineer.

Subsequent correspondence from Mr. King dated February 23, 1955 advises the applicant and the DMEA that an error was made in assaying the standard sample used in radiometrically logging the drill holes, and the deposit now is shown to be very low grade and not of commercial value. Mr. King also advised the applicant to withdraw his request for DMEA aid.

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

Autunite, the only radioactive mineral, occurs sporadically at and near the surface in lenses 1.3 feet in maximum thickness and as much as 20 feet long. A sample from the thickest lens assayed 0.012 percent U_3O_8 (radiometric).

The uranium-bearing lenses are small and widely scattered, and the uranium content is so low that it is extremely doubtful that a commercial discovery would result from the exploration.

These findings are now confirmed by the applicant's consultant and it is recommended, therefore, that the application be denied.

LOCATION, ACCESSIBILITY, LOCAL RESOURCES

The property is known as the Kitty Kat uranium prospect, and is located in section 35, T. 10 N., R. 13 W., SBB&M, Kern County, California. The property is situated in the Rosamond Hills 5 miles northwest of Rosamond, California. (See Location Map figure 1.)

To reach the property from Mojave, California follow U. S. Highway 6 southerly 4.3 miles; turn southwesterly and follow the paved Tropico-Mojave road 8.4 miles to a trail; follow the trail 1.3 miles westerly to the property. The total distance from Mojave is 14 miles.

Topography of the area is shown on the Elizabeth Lake quadrangle sheet, Kern County, California.

The area is accessible all year. All roads are paved with the exception of 1.3 miles of poor road or trail from the Kitty Kat prospect to the Tropico-Mojave road.

The nearest source of labor is Mojave, California and the current wage scale for miners is $2.00 per hour. Material and supplies could be obtained from Mojave or Los Angeles, California.

Water is not available on the property. The nearest supply would require an eight mile truck haul from the vicinity of Rosamond, California. There is no native timber available.

Electric power transmission lines are within three miles of the property. The applicant intended to use either gasoline or diesel engines for power requirements.

HISTORY AND PRODUCTION

According to Mr. Dan M. King, the uranium occurrences were found in 1952. Most of the existing exploration work was done in the autumn of 1954. There has been no production of uranium ore.

A uranium occurrence located in section 25, T. 10 N., R. 13 W., SBB&M, is described in a State of California publication.[1/]

PROPERTY AND OWNERSHIP

The following information was obtained from the application.

Mr. Walter A. Martin of Sarasota, Florida holds an assigned lease upon section 35, T. 10 N., R. 13 W., SBB&M. This section was the property of the Southern Pacific Land Company. Title passed to Mr. L. J. Stillwell by purchase. Stillwell leased to Mr. Joseph Gross, who assigned the lease to the Joplin Machinery & Electric Company, who in turn assigned its lease to Mr. Walter A. Martin for a ten year period.

According to Mr. Dan M. King, who was the only person interviewed, Mr. Walter A. Martin has had some experience operating a lead zinc property in Missouri. Also, according to Mr. King, the applicant is financially able to provide his share of the exploration costs. Bank references were included with the application.

DEVELOPMENT

There are no surface improvements or equipment on the property. The exploration work included a few shallow prospect pits less than five feet deep, and removing overburden in an area of about a half

---

1/ George W. Walker, Geologist, U. S. Geological Survey, Rosamond uranium prospect, Kern County, California Special Report 37, California State Division of Mines.

acre (Fig. 2). Approximately 32 wagon drill holes were drilled in this area. The holes were ten feet to 84 feet in depth and the average depth was reported to be 50 feet.

GEOLOGY AND ORE DEPOSITS

The Kitty Kat prospect is in an area underlain by layered tuffaceous volcanic rocks of the Miocene Rosamond formation. The beds strike northwest, dip moderately southwest and are cut by minor faults.

Autunite, the only radioactive mineral, is disseminated in small lenses scattered through rhyolitic tuff. Systematic probing of the 32 wagon drill holes by the applicant's consultant showed that the radioactive mineral is erratically confined to the upper ten feet of the holes. The best exposure of autunite-bearing tuff measured 1.3 feet at maximum thickness and lensed out to 2 inches in 20 feet along the dip and to nothing in less than 10 feet along the strike of the beds. Readings of 0.3 MR/HR were obtained at this outcrop with a Precision Model III Scintillator. A reading of 0.4 MR/HR was obtained locally at an outcrop near the east edge of the drilled area (Fig. 2). The background count in the mapped area was 0.15 MR/HR and $\frac{1}{4}$ mile to the east was 0.02-0.04 MR/HR.

SAMPLING

One sample was taken from the property. The location of the sample is indicated on map Figure 2.

Sample No.	% U_3O_8 Equivalent	Remarks
No. 1, S-345	0.012	(radiometric determination)

ORE RESERVES

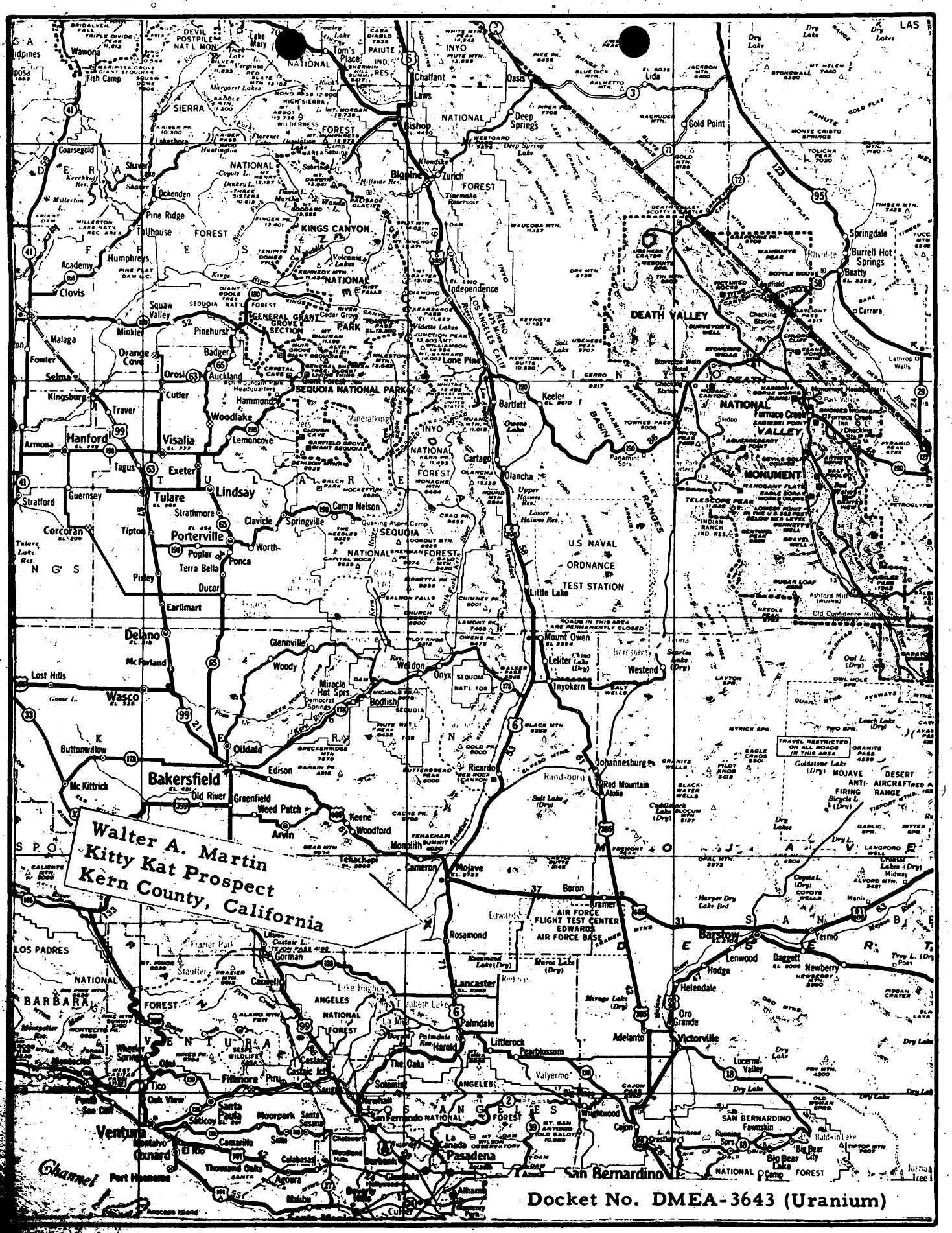
There is no measured, indicated or inferred ore. About 1,000 tons of tuffaceous material averaging less than 0.03 percent U_3O_8 is inferred to lie within ten feet of the surface in the mapped area (Fig. 2).

PROPOSED EXPLORATION

The applicant proposed an extensive program of wagon drilling and radiometric surveying in three areas within the property. His proposal included the following:

(1) 100 holes -- 80 foot average depth
(2) 1 square mile -- radiometric grid survey
(3) Detailed geologic mapping and petrographic studies

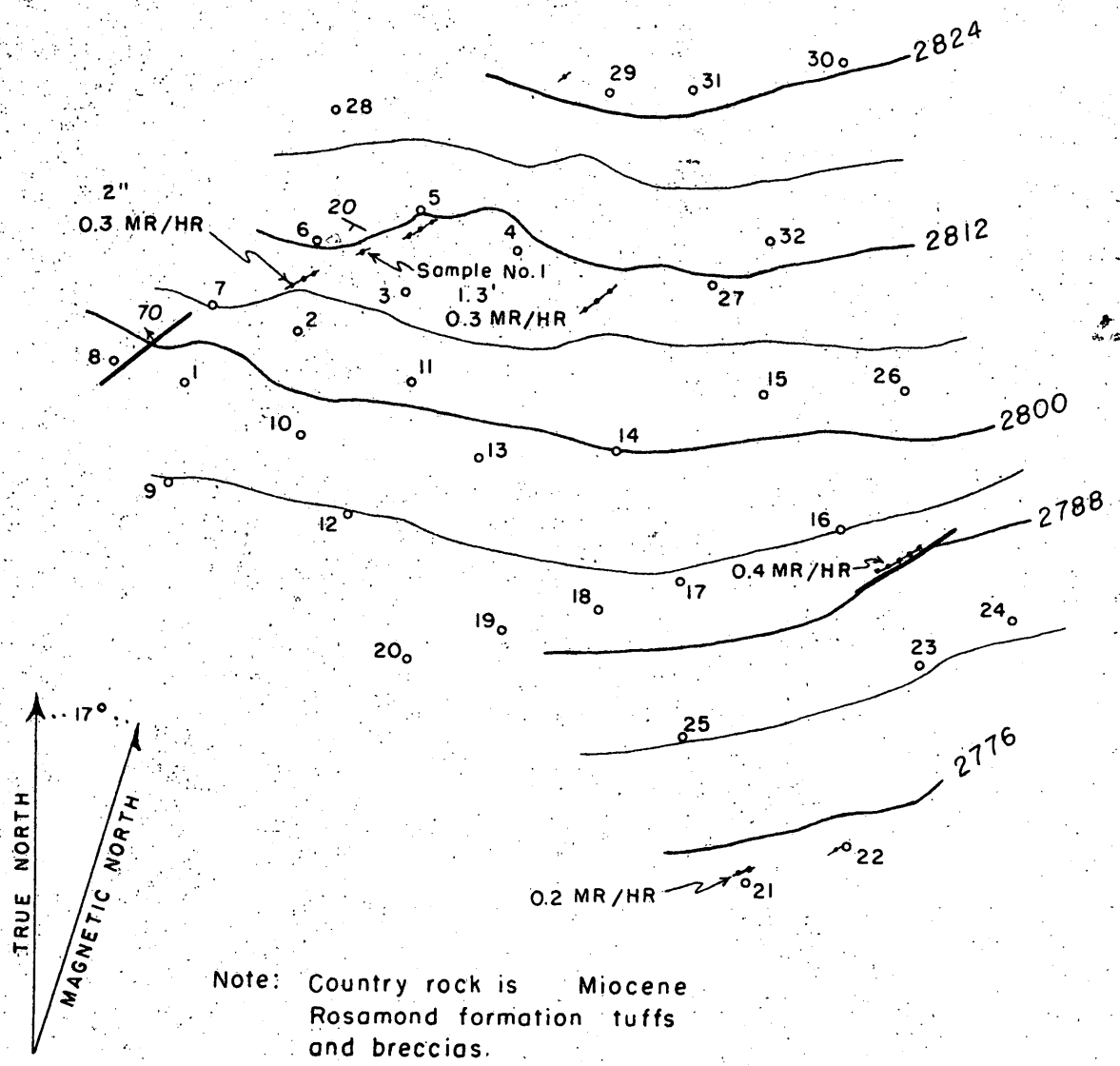
During a discussion between the applicant's consultant, the DMEA Field Team and the AEC representative it was mutually agreed that the exploration program originally proposed be suspended until the applicant showed that a 50-ton carload of ore grade material could be successfully mined from the property. At such a time a reappraisal of the property would be made with the idea that during the work some favorable indications of ore controls might be uncovered.



LOCATION MAP

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMEA 3643
(URANIUM)



Note: Country rock is Miocene Rosamond formation tuffs and breccias.

Base from Company maps

KITTY KAT PROSPECT, KERN COUNTY, CALIFORNIA

40 0 40 80 Feet

Contour interval 6 feet

Figure 2

4/8/55 sgla

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 8 1955

1605 Evans Avenue
Reno, Nevada

April 5, 1955

Memorandum

To: Operating Committee, DMEA, Interior Building, Washington 25, D.C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-3643 - Uranium
Walter A. Martin
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Kitty Kat Prospect
Kern County, California

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Roscoe Smith and I approve of the recommendations in the report and believe a denial is justified.

S. Ricker

Attach.

SRicker:gh
cc: E. E. Thurlow, AEC, Salt Lake City, Utah (w/copy of report)
H. C. Miller
R. M. Smith
File

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

Bureau of Mines
Mineral
Section
MAR 8 1956

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION II

APPLICATION REPORT

DMEA 3643 (Uranium)
Mr. Walter A. Martin
Kitty Kat prospect, Kern County, California

by

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U. S. Bureau of Mines

Earl H. Pampeyan
Geologist
U. S. Geological Survey

March 30, 1955

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(3) Detailed geologic mapping and petrographic studies

During a discussion between the applicant's consultant, the DMEA Field Team and the AEC representative it was mutually agreed that the exploration program originally proposed be suspended until the applicant showed that a 50-ton carload of ore grade material could be successfully mined from the property. At such a time a reappraisal of the property would be made with the idea that during the work some favorable indications of ore controls might be uncovered.

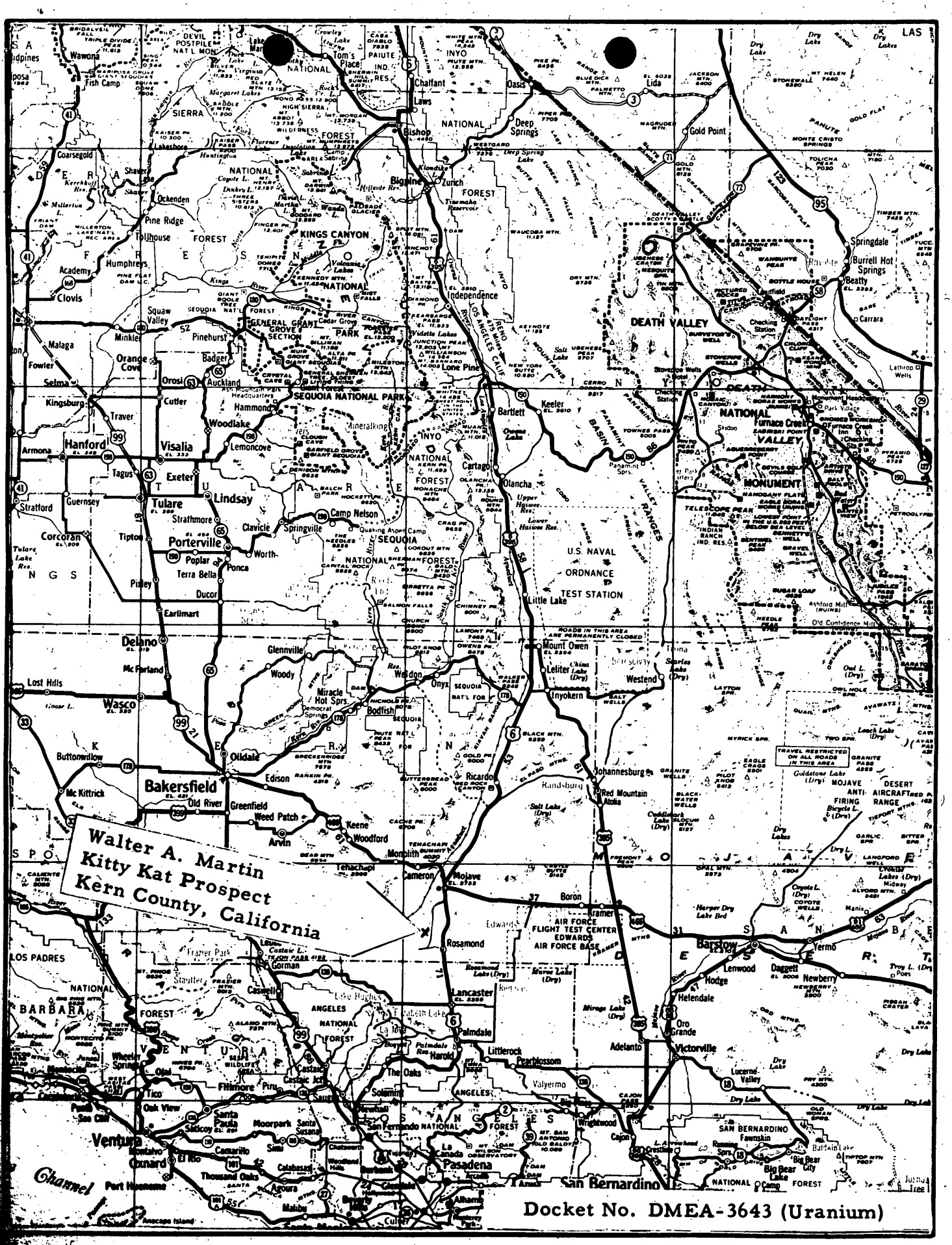
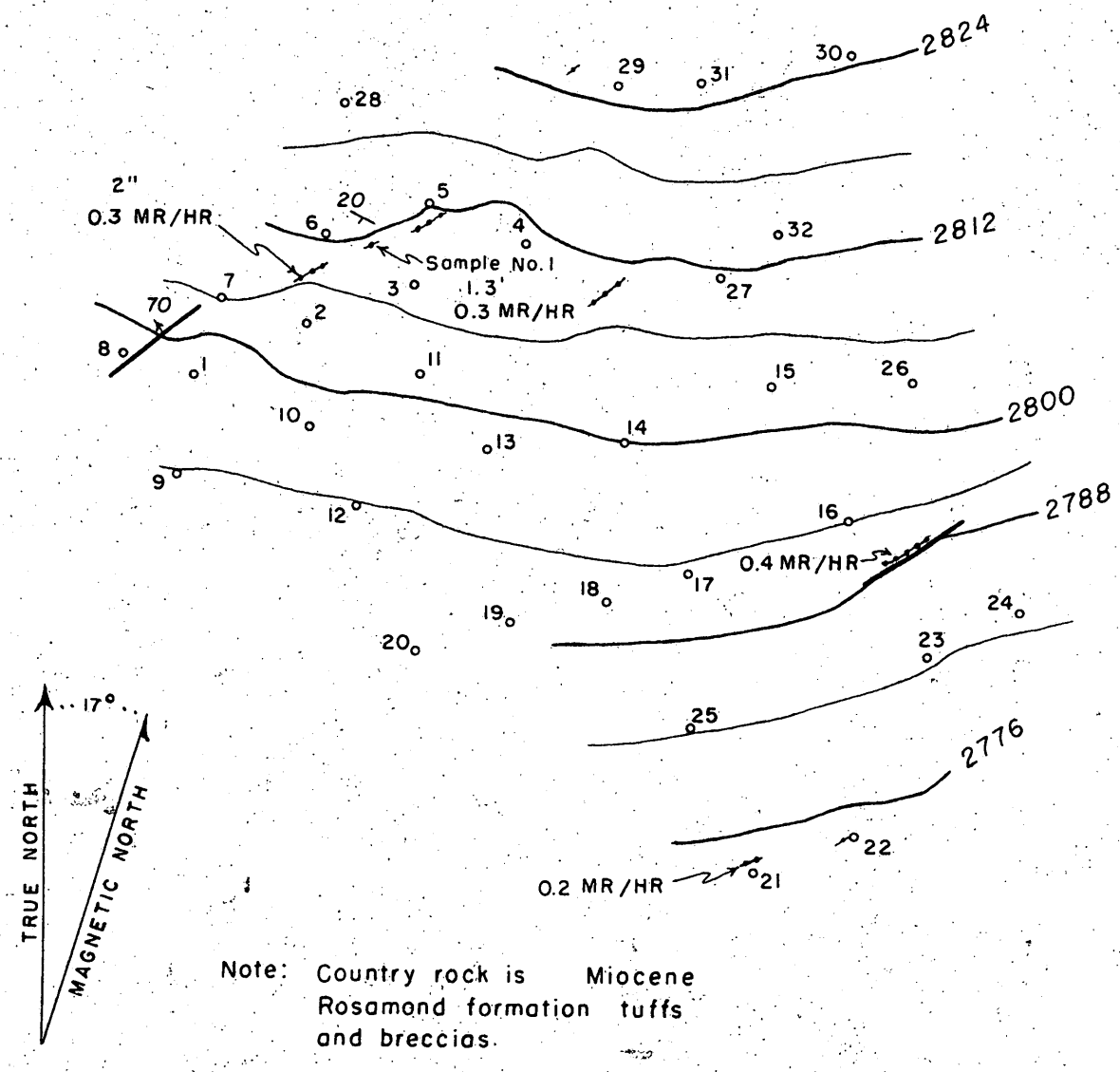


FIG. 1 LOCATION MAP

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMEA 3643
(URANIUM)



Note: Country rock is Miocene Rosamond formation tuffs and breccias.

Base from Company maps

KITTY KAT PROSPECT, KERN COUNTY, CALIFORNIA

40 0 40 80 Feet

Contour interval 6 feet

Figure 2

3/1/55 gla

EXAMINATION • EVALUATION • PLANT DESIGN • MANAGEMENT

KING & KING

MINING ENGINEERS

Defense Minerals Administration
RECEIVED
FEB 28 1955

CLARENCE R. KING
7648 BOLSA RD.
MIDWAY CITY, CALIF.
WESTMINSTER 8272

DAN M. KING
11762 MINES BLVD.
WHITTIER, CALIF.
OXFORD 44361

February 23, 1955

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

Gentlemen:

In view of the attached report, please hold in abeyance any action on D.M.E.A. Docket No. 3643 (Uranium) until further word from Mr. Walter A. Martin.

Very truly yours,

KING & KING

Dan M. King

By Dan M. King

DMK:VJ
Encl. - Report

CC to: U.S. Bureau of Mines, Reno, Nevada
A.E.C., Bakersfield, Calif.
Mr. Walter A. Martin

KING & KING

MINING ENGINEERS

February 23, 1955

Mr. Walter A. Martin
8040 Teasdale
University City, Missouri

Dear Mr. Martin:

The following data is submitted to be attached to the report on the Kitty Kat Prospect, Rosamond, California, D.M.E.A. Docket No. 3643.

As you will recall the analysis of ore found by the drilling conducted under our direction in November, 1954, was based on the results of probing holes. The standard against which readings were compared was prepared by the methods described in the report, which you have.

Eight splits were made from the original head sample of the standard. Mr. Ed Eisenhauer, Jr., was directed to make a control assay of one of the splits. This was reported by him to give the following results:

Chemical U_3O_8 - - - - - - 0.28%
Radiometric U_3O_8 - - - - 0.30%

The standard was used during the probing of the holes at the Kitty Kat and reserves calculated therefrom, based on the chemical equivalent of the reported result from Eisenhauer (0.28%). Since he ran this by control methods, it was assumed to be correct.

After the conversations in Bakersfield with Mr. Bowes, he agreed to have another pulp assayed by the A.E.C. Checking by radiometric means in Bakersfield gave the following results - 0.08%. Mr. Bowes called me, and suggested we check further.

Submission of two pulps, one to Eisenhauer, and another to Smith Emery Company of Los Angeles, gave the following results:

Smith Emery Co. - - - - - - - - - 0.06% U_3O_8 (chemical)

Eisenhauer (second result)- - - 0.098 " "

Examination of the pulp which Eisenhauer states is from the original

KING & KING

MINING ENGINEERS

(0.28%) assay shows it to be a different color than the rest of the samples. It is more radioactive than the others.

Comparing the results of the reassaying of the standard, it must be noted that of four samples picked from the eight prepared, a small variation is noted, but they are all in the same range - around 0.08 in three cases while the original is far above this range. Further that one is off color, namely the high one. It appears that an error in assaying has been committed, and that the standard does run about 0.08% U_3O_8, instead of 0.28%. Eisenhauer is now assaying the identical pulp from the Smith Emery assay to establish the exact variance between envelopes of pulp as submitted to the assayors.

In view of the above, we wish to have this letter attached to the report as submitted, and to state that we do not feel there is any ore of commercial grade showing in the holes drilled, and that as of this date the probabilities of developing such ore in near surface deposits are almost nil. Further, that in the light of the above, we wish to recommend withdrawal of the D.M.E.A. application.

Inasmuch as we have directed the work on this property, we feel responsible for such things as retaining assayors for the work and for their accuracy. Since considerable time and money has been spent by you on the preparation of the application, we will make arrangements to refund the fees charged for the preparation of the reports, etc. (as of December 1st, 1954).

Very truly yours,

KING & KING

Dan M. King

By Dan M. King

DMK:VJ

CC to: D.M.E.A., Washington
A.E.C., Bakersfield
U.S. Bureau of Mines, Reno
Mssrs. Gross, Stillwell, Eisenhauer

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

Surname copy

Ellis
Hedges
Kilgoard
Selfridge
Johnson

JAN 31 1955

Mr. Clarence R. King
King & King
11762 Mines Avenue
Whittier, California

Re: Docket No. DMEA-3643 (Uranium)
Walter A. Martin
Sec. 35, T.10 N., R.13 W., SB.B.&M.
Kitty Kat prospect
Kern County, California

Dear Mr. King:

Reference is made to your recent visit to this office and discussion with Mr. Ernest Wm. Ellis, Chief, Rare and Miscellaneous Metals Division, concerning the referenced application. It is our understanding that communications regarding this application are to be directed to you, with copies to the Applicant, Mr. Walter A. Martin.

This application has been reviewed by the Rare and Miscellaneous Metals Division and has been referred for a field examination to the Executive Officer of Region II at the following address:

Mr. Spangler Ricker
Executive Officer
DMEA Field Team, Region II
420 Custom House
555 Battery Street
San Francisco 11, California

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

Sincerely yours,

G. O. Mitterdorf

Administrator

cc to: Mr. Walter A. Martin
525 Freeling Avenue
Sarasota, Florida

cc to: Admr.'s Reading File
Docket
Code 700
DMEA Field Team, Region II (2)

R.C.K.

700

Surname copy

Ellis
Selfridge
Johnson

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

JAN 31 1955

Mr. Spangler Ricker
Executive Officer
DMEA Field Team, Region II
420 Custom House
555 Battery Street
San Francisco 11, California

Re: Docket No. DMEA-3643 (Uranium)
Walter A. Martin
Sec. 35, T.10 N., R.13 W., SB.B.&M.
Kitty Kat prospect
Kern County, California

Dear Mr. Ricker:

The captioned application is referred to Region II Field Team for a field examination and recommendation. A copy of the application was forwarded to your office on January 18.

Enclosed are copies of memoranda from John E. Crawford, dated January 19, and E. L. Newcomb, dated January 26, 1955, members of the Uranium Commodity Committee.

It is suggested that the Field Team communicate with Ernest E. Thurlow, Atomic Energy Commission, Salt Lake City, Utah, in connection with the subject application. As you probably know, uranium and thorium applications are discussed with A.E.C. representatives in order to obtain possible information relating to that particular case.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (JHB)

Enclosures 4

APPROVED:

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

Thor H. Kiilsgaard (JHB)
Member, Geological Survey

EWEllis/gla
1-28-55
cc to: Admr.'s Reading File
Operating Committee
Docket
Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA
Code 700

R.C.h.

1/27/55 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
JAN 27 1955

January 26, 1955

Re: DMEA-3643
Walter A. Martin
(Kitty Kat Prospect)
Kern Co., Calif.
$22,658 - 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 program of wagon drilling and radiometric surveying in three areas on the Kitty Kat property. The project would consist of:

1.) 100 holes -- 80 foot average depth.
2.) 1 square mile -- radiometric grid survey.
3.) Detailed geologic mapping and petrographic studies.

Uranium is reported to have been discovered in 1952 on the Kitty Kat property. Trenching indicated that radioactivity was caused by the presence of autunite on the prospect. In 1954, W. A. Martin drilled 32 holes on a part of the Kitty Kat prospect. The average depth of these holes was 53 feet and the maximum depth was about 80 feet. Holes 5, 11, 15, 21, 25, 27 and 29 are reported to have cut ore which averaged higher than 0.1 percent U_3O_8 in thicknesses greater than 1.0 feet.

The uranium mineralization occurs in tuffs and interfingering lenses of agglomerate which are assumed to be a part of the Rosamond formation of Miocene(?) age. These sediments lie unconformably upon an erosion surface of quartz monzonite and strike N. 50° W. and dip 13° southeast. Two systems of faults or joints are present in the area, (1.) faults striking N. 60° E. and dipping steeply northwest and (2.) a group of faults and joints striking N. 60° W. of unknown dip. Although uranium mineralization often occurs in the northeast set of faults, drilling has indicated that much of the uranium ore occurs in a clay-like bed in the Rosamond sediments.

There does not appear to be any continuity of mineralization between ore holes. Drilling has indicated that the ore deposits probably occur as small pods or pockets.

By assuming that these localized deposits can be mined by open pit methods and that sorting of the ore will be required, the applicant has estimated possible ore reserves may total 975 tons averaging 0.26 percent U_3O_8.

The relationship of the mineralization to faulting is not easily understood from the data presented, but there is a strong possibility that the ore is localized by the clay seams or lenses where these clay deposits are cut by faults.

I recommend this application be referred to the Field Team for an examination and a report with their recommendations.

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
JAN 27 1955

January 26, 1955

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Walter A. Martin
(Kitty Kat Prospect)
Kern Co., Calif.
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The relationship of the mineralization to faulting is not easily understood from the data presented, but there is a strong possibility that the ore is localized by the clay seams or lenses where these clay deposits are cut by faults.

I recommend this application be referred to the Field Team for an examination and a report with their recommendations.

E. L. Newcomb

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

ELNewcomb:hlm
G-1/26/55

1/21/55 gla

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 21 1955

January 19, 1955

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 3643, Walter A. Martin, 525 Freeling Avenue, Sarasota, Florida

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 E. Thurlow, Atomic Energy Commission, Salt Lake City, Utah.

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
F i l e s

Mr. Walter A. Martin
525 Freeling Avenue
Sarasota, Florida

January 18, 1955
Subject: DMEA-3643
Re: Exploration Assistance
Kitty Kat

Dear Mr. Martin:

The receipt of your application dated January 15, 1955 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-3643 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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 18 1955

WALTER A. MARTIN
525 Freeling Avenue
Sarasota, Florida

Defence Minerals Exploration Administration
Department of Interior
Washington 25, D.C.

Gentlemen;

Attached please find an application for aid in the exploration of a uranium prospect near Rosamond, California, and supporting data prepared by my engineers.

This prospect seems to have every possibility of developing into a profitable mine upon completion of the work outlined. Exploration of the indicated reserves on this ground could add many thousand tons of available ore to the probable reserves of the Bakersfield and nearby areas. This in turn might make possible future installation of beneficiation facilities in this region.

Note

I would appreciate having copies of all correspondence related to this docket sent to King & King at their Whittier address for their attention and action, if necessary. I would like to request that they be advised in advance of any field examination in order to show your people the ground.

Trusting this matter will merit your early attention, I remain

Very truly yours

Walter A. Martin

Walter A. Martin

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 18 1955

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

Not to be filled in by applicant

Docket No. 3643
Metal or Mineral Uranium
Date Received January 18, 1955
Estimated Cost $22,658
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: WALTER A. MARTIN,
525 Freeling Ave., Sarasota, Florida
~~address with copy~~ all correspondence to: King & King, with copy to Martin
11762 Mines Ave., Whittier, Calif.)

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

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

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

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

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract
All of Sec. 35, T 10 N, R 13 W, San Bernardino Base & Meridian;
Near Rosamond, Kern County, Calif.

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

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

(*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. See Appendix A, attached to Engineers Report herewith.

(*e*) If you own the land, describe any liens or encumbrances on it
None: this land is fee land, including mineral rights

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. None: this land is fee land, including mineral rights

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

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

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

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points. See Engineers Report, page 2

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

16—66551-1

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

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

(*c*) The work will start within 15 days and be completed within 4 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 Appendix B, Report herewith

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 Engineers Report herewith, page 10

(*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. As above, page 10

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel. As above, page 10

(*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. As above, page 11

(*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. As above, page 11

(*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. As above, page 11

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

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

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

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

[X] Money [ ] Use of equipment owned by you [ ] Other

Explain in detail on acompanying paper. Applicant pays all bills & follows normal contract procedure

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 January 15, 1955

(Applicant)

By

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

KING & KING

MINING ENGINEERS

DEPARTMENT OF THE INTERIOR
Bureau Minerals Administration
RECEIVED
JAN 18 1955

Documents and data attached to the application herewith are as follows:

(1) Engineers Report and Recommendations, consisting of: eleven typewritten pages.

(2) Three appendices, as follows:

Appendix A, containing the following data:
- Cover page giving chain of title.
- Copy lease, Stillwell to Gross.
- Consent form MF203, s/ Stillwell.
- Copy lease assignment, Gross to Joplin Machinery & Electric Co.
- Copy consent form MF203, s/ Gross.
- Copy lease assignment, Joplin Mach. Co. to Martin.
- Copy consent form MF203, s/ J. V. Reynolds, Pres. Joplin Mach.
- Copy consent to lease assignment to Martin, s/ Stillwell.
- Copy, consent to lease assignment, to Martin, s/ Gross.

Appendix B: Statement of qualifications of Applicant and Technical Consultants.

Appendix C: Radiometric Drill Log Results.

(3) Ten maps as follows:

Map No. 1: Plan of area drilled.
Map No. 2: Topographic map, Sec. 35.
Map No. 3: Index map, showing location of the property.
Sections No. 's 1 to 7 inc., drawn through drilled area.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 18 1955

KING & KING

MINING ENGINEERS

CLARENCE R. KING
7648 BOLSA RD.
MIDWAY CITY, CALIF.
WESTMINSTER 8272

DAN M. KING
11762 MINES BLVD.
WHITTIER, CALIF.
OXFORD 44361

1-20-55

4 January 1955

INTRODUCTION

This report, and recommended exploration program has been compiled to supply the technical data necessary for an application for aid in an exploration project to be made by Mr. Walter A. Martin, to the Defense Minerals Exploration Administration. This is a part of, and attached to, the above-mentioned application.

The Kitty Kat prospect, described herein, is one of several uranium prospects which have been discovered during the past few years within a few miles of Rosamond, California. During 1954 the property passed into the hands of Mr. W. A. Martin, who holds the property by lease, at this time. Wagon drilling and some surface prospecting disclosed the presence of a limited tonnage of possibly commercial ore beneath shallow cover in the Rosamond formation of Tertiary rocks. Origin and quantity of ore within the deposit are both unknown at this time. Drilling was halted in December, 1954 to assess results. This report is a recapitulation of work done to date, and contains recommendations for further work.

LOCATION AND ACCESS

The property is located on Section 35, T 10 N, R 13 W, S.B.B. & M., in the southeasterly corner of Kern County California. It is ten miles south of Mojave and three miles northerly from the Tropico Mine. This mine, in turn, is four miles west of the small town of Rosamond, California, on the Southern Pacific railroad. (See Index Map, No. 3). Rail shipping points are Fleta, (a siding North of Rosamond), and Rosamond. Paved road connecting with the highway at Rosamond passes within a mile of the property.

TITLES AND PROPERTY HOLDINGS

Mr. Walter A. Martin, of Sarasota, Florida, holds an assigned lease upon Section 35, T 10 N, R 13 W, S.B.B. & M. The 640 acres embraced in this sectionof land were the property of the Southern Pacific Land Co. Title passed to Mr. L. J. Stillwell by purchase. Stillwell leased to Mr. Joseph Gross, who assigned the lease to the Joplin Machinery & Electric Co., who in turn assigned their lease to Mr. Walter A. Martin. (See Appendix A, for pertinent documents.)

HISTORY OF THE PROPERTY

Uranium was discovered upon nearby ground during 1950 and 1951. Prospecting by Mr. Stillwell in 1952 upon his Section 35 disclosed outcrops of radioactive rocks. Some small trenches were dug which disclosed autunite as the principal radioactive mineral. Little was done

upon the property until the fall of 1954 when Mr. Martin began exploration by wagon drilling. Drill holes up to 80 feet in depth disclosed irregularly spaced uranium-bearing rocks beneath overburden ranging from nothing to about 14 feet. Of 32 holes drilled, 6 showed commercial grades and thicknesses of ore.

GENERAL INFORMATION

The topography upon and near the property is one of low, rolling hills and alluvium-filled valleys and washes. Relief is about 600 feet maximum, between the lowest washes in the southeast corner of the Section, to the highest hills in the northwest corner. About 75% of the area of the property is free from thick alluvium mantles and vegetation.

The climate is typical of the Mojave desert: hot, very dry summers and mild winters, with not more than 5 to 10 inches of rain per year. The slight rainfall is confined to the winter months.

Labor supply is available from nearby towns, but skilled miners might have to be recruited from the Randsberg or Owens Valley areas.

Water is not available upon the property. At present, water would have to be hauled from Rosamond for any work contemplated. It is not likely that a dependable source for large quantities of water could be found by drilling wells on the property unless one of the larger faults in the southeast corner of the Section was water-bearing. Such a water source could probably be found by drilling wells within two to three miles from the property, however.

Power for exploration work would be generated from gasoline or diesel engines. Electric power lines are within three miles of the property.

No timber is growing near or on the property. Vegetation consists of a scanty growth of greasewood, cactus, and other desert flora.

All supplies would come from Lancaster, Mojave, or the Los Angeles area.

ECONOMIC GEOLOGY

Upon and near the property, strata of the lower members of the Miocene (?) Rosamond formation rest upon an erosion surface of quartz monzonite. Rock outcrops and drilling upon the property show that the Rosamond formation here corresponds roughly to the section described by Noble, (California Division of Mines, Bulletin 170, 1954). The strike of the Rosamond beds is roughly N 30 to 40 W and the dip 10° to 20° to the SE. On the property the Rosamond formation is largely composed of a white tuff interfingering with lenses of brownish agglomerate and a greenish, slightly bentonitic tuff (?). The tops of the low hills in the area are a bluff-forming brown, well cemented fanglomerate. It is possible that almost the entire Rosamond section in this area is represented, or that the various beds represent facies of the lower member of this formation.

According to Noble, (op. cit.) and others, nearby exposures of the Rosamond have been intruded by dikes of rhyolitic to pegmatitic texture.

An exposure of a dike of this type may occur about 800 ft. NE of the Kitty Kat workings, where and outcrop of a fine-grained intrusive is found, and where marked silicification is noted. The exact relationship of this outcrop to known dikes in the adjacent ground, (Sec. 25) where a small uranium orebody has been found associated with similiar dikes, is obscure and requires further study.

Basement quartz monzonite is exposed about 350 feet NE of the Kitty Kat workings. This exposure is bounded on one side by a fault and by alluvium on another side. (See Map No. 2).

A major fault postulated by Noble lies to the south of the property. As plotted by Noble, this hypothetical fault strikes N 60° W. It forms the boundary of the Rosamond formation south of the property. A parallel fault structure is suspected in the wash immediately to the south of the Kitty Kat workings. In the case of this suspected fault, the south side apparently has been downthrown. A series of pegmatite to aplite dikes striking about N 60° E appears to the east of the section, and outcrops in Section 35 may be an extension of this series of dikes. The dikes may mark the course of a major fault.

At the Kitty Kat workings, the sediments dip about 13° to the southeast and strike about N 50° W. They are rudely bedded, suggesting shallow water deposition, but may be wind-laid in part. They are cut by a series of small faults striking about N 60° E and dipping steeply to the northwest. These small faults outcrop for short distances only. A series of joints or tear faults striking roughly N 60° W is also noted.

The traces of the N 60° E faults are iron-stained. (See Map No. 1 for detail).

Uranium minerals, principally autunite, were found at the Kitty Kat workings along the strike of the N 60° E faults in two small pits dug by the discoverer. Subsequent examination disclosed another radio-active area some 900 feet southeast of the original discovery. Wagon drilling late in 1954 disclosed uranium mineralization throughout the area drilled. Mapping and logging of the drill holes showed no reliable pattern of ore occurrence except possibly in relationship to an under-lying clayey stratum. (See Sections 6 and 7, maps herewith). As of this date the uranium mineralization does not appear conclusively related to faults or veins, nor is such a realtionship ruled out by the work so far done. It seems probable that the uranium was fixed in its present position, regardless of origen, by the montmorillonite certain to be present in the clayey tuff beds. (See U.S.G.S. Circular 224, by Waters and Granger).

ORE RESERVES.

Wagon drilling results to date are tabulated below:

Total holes drilled	32
Average depth, feet	53
Total footage of hole drilled	1,700
Average overburden thickness, feet	11
Holes with over 1 ft. thickness, @ over 0.15% U_3O_8	6
Holes with traces to 0.15% U_3O_8	16
Barren holes	10

The drill hole logs of the foregoing holes will be found in Appendix C. The weighted average thickness and grade of ore found in the six holes containing a thickness of over one foot of ore above 0.15% U_3O_8 was:

2.2 feet averaging 0.26% U_3O_8.

Reference to Map No. 1, Sections 1 to 7, and Appendix C will show that the entire area covered by the drilling was uranium-bearing. Further, the mineralized area shows no signs of ending on three of the four sides of the drilled area.

The ore thickness shown is mineable since it occurs near the surface. The holes so far drilled, and which encounter ore above 0.16% U_3O_8, do not, however, establish continuity in any one plane from one hole to another. This might be interpreted as indicating the occurrence of several small pods or pockets of ore-grade material. Assuming this to be the case, and excluding the barren area on the south side of the area drilled, the entire drilled area of 130 feet by 210 feet will have to be mined to a depth of 11 feet in order to selectively mine and/or sort out the mineable ore.

The following calculations should hold true, if the foregoing procedure is followed:

(1) Rock to be mined: $\frac{130 \times 210 \times 11 \text{ feet}}{14(\text{cu. ft./ton, tuff})} = 21,450$ tons.

(2) Average ore thickness in 6/24ths of holes drilled is 2.2 feet.

(3) Total tons ore sorted from area mined: $\frac{130 \times 210 \times 2.2}{4^* \times 14} = 975$ tons.

*Note: assumed that 6/24ths, or 1/4 of volume will be ore above 0.16% grade, in same proporation as ratio of ore-bearing to non-ore-bearing holes.

It seems reasonable that at least 975 tons of ore can be held above an average grade of 0.2% U_3O_8 by selective mining and/or sorting during the moving of the block containing this ore, by open pit methods. The gross value f.o.b. mine, of the ore thus sorted from the block of ground, would be between $30,000 and $40,000, on a Plateau schedule. (This includes initial bonus on production of the first 10,000 lbs. of U_3O_8 from a new property). The cost of mining the entire block to get at the ore would be on the order of $20,000.

Ore reserves disclosed by drilling so far done may therefor be summarized as: 975 short tons averaging 0.26% U_3O_8.

RECOMMENDATIONS AND CONCLUSIONS.

The fact that initial exploration work has disclosed reasonably favorable showings in drilling about one-half of the discovery area, and that at least one other area of similiar outcrops and surface radioactivity is known, leads to the following conclusions:

(1) Ore of similiar grade and type will probably exist as extensions of the Kitty Kat discovery area; and as orebodies in other areas within the property.

(2) Information upon the habits of the ore and possible genesis is lacking, especially with regard to the possibility of the existence of primary hydrothermal vein-type occurrences somewhere in the area.

(3) Location of the property between the gold-bearing fault veins of Soledad mountain and the Tropico mine, on related fault structures; raises the possibility that primary hydrothermal mineralization may exist beneath the outcrops or elsewhere beneath the silicified intrusives.

We therefor recommend the following program:

(1) Shallow drilling of known anomalies should be continued and any further anomalies found by (2) below should be drilled in the same manner.

(2) While shallow drilling is continuing, a scintillometric survey of the property on grid coordinates, with mapping of detailed geologic structure, should be carried on. Grid stations should not be more than 300 feet apart, with such additional stations as necessary to determine detail. Isorad map overlays for the geological map may then be used to guide drilling after the presently known anomalies are drilled out, if other favorable areas are found by this work.

(3) Detailed thin section and other laboratory work should be done simultaneously with the mapping to study possible genesis and chances for developing primary ore in depth on the property.

The following cost estimates, based upon the recommendations above, have been reduced to a unit cost basis based on the estimated drilling requirements. It will be noted that the direct drilling cost is somewhat higher than that obtained on the Colorado Plateau. This is due to several factors: it is a small job; experienced crews are not available locally; steel loss due to caving holes is high in this formation; and the terrain requires moving the drill with a cat. Further, so little is known of the habits of the ore that the aquisition of basic information such as the location of anomalies, adds appreciably to the cost of drilling. Engineering cost after this phase of exploration is completed should drop

to perhaps 10% of the budget. In our opinion, drilling cannot be intelligently done without the basic geologic and scintillometric mapping and some laboratory work ; and provision for this should be included in the estimate. It is estimated that 100 drill holes averaging 80 feet deep will explore shallow anomalies on the property, and the estimates are therefor based upon 8000 feet of total shallow drilling to arrive at unit cost items; shown in the following tabulation:

TABULATED ESTIMATE OF COSTS.

Application Item No.	Description of item	Est. total Cost	Unit cost, per ft. hole
6 A	Independent contracts	None	
6 B	Labor, supervision & consult.:		
	a. -Labor, 3 men @ $/hr., 40 hr. wk., 4 months	$3,840	$0.48
	b. -Supervision @ $500/mo., 4 mo.	2,000	0.25
	c. -Consultants & engrs.:		
	1. drilling layout, mapping & hole logging	1,200	0.15
	2. scintillometric survey, inc. 1 sq. mile, 300 ft. stations, detail geol., maps & isorad	2,775	0.346
	3. petrographic studies	500	0.063
	4. preparation & corelation of data	300	0.038
6 B	Total, labor, super. & cons.	$10,615	$1.327
6 C	Operating matls. & supplies:		
	1. steel bits, replacements	500	0.063
	2. Fuel & lub. oil	1,200	0.150
	3. misc. sm. tools, expendible	80	0.010
6 C	Operating matls. & supplies	$ 1,780	$0.223
	Forward to Page 11	$12,395	$1.550

TABULATED ESTIMATE OF COSTS, (CONTINUED):

Application Item No.	Description of item	Est. total Cost	Unit cost per ft. hole
-------	Forward from page 10	$12,395	$1.550
6 D	Operating equipment:		
	1- 500 cfm. compressor, rent-option, $608/mo., 4 mo.	2,432	0.304
	1-Wagon drill, rent-option, $175/mo., 4 mo.	700	0.088
	1-Jeep & hse. trlr. @ $125/mo, 4mo.	500	0.063
	1- D-4 tractor @$450/mo., 4 mo.	1,800	0.225
6 D	Total Operating Equipment	$ 5,432	$0.680
6 E	Rehabilitation & Repairs:	None	
6 F	New Buildings & Etc.	None	
6 G	Miscellaneous Expense:		
	Engineer, mileage & exp.	$ 350	$0.044
	Payroll taxes, Ind. Comp., 15% of payroll	876	0.110
	Accounting @ $100/mo, 4-mo.	400	0.050
	Maps: supplies & exp., prep. of	250	0.031
6 G	Total Miscellaneous Expense	$ 1,876	$0.235
6 H	Contingency: 15% of Items 1 to 6	$ 2,955	$0.370
Total Estimated Cost, Exploration Program:		$22,658	$2.83

Respectfully submitted,

KING & KING, by-

Dan M. King

Dan M. King

Clarence R. King

APPENDIX A.

LEGAL HISTORY OF TITLE & DOCUMENTS PERTAINING THERETO.

The original deed to the land, issued by the Southern Pacific Land Co. to L. J. Stillwell, is dated Feb. 24, 1931, and is recorded in Book 240, Page 351, Records of Kern County, at Bakersfield, Calif.

Copies of the lease from Stillwell to Joseph M. Gross, and its assignment to Joplin Machinery & Electric Co., are attached hereto. Copy of a subsequent assignment from Joplin Machinery & Electric Co. to Walter A. Martin is also attached hereto. Consents of the foregoing transfers of lease, signed by Stillwell and Gross, are also attached hereto.

Consents to leins, (Form MF-203), signed by all of the above parties, namely: Joseph M. Gross, Joplin Machinery & Electric Co., by J. V. Reynolds, Pres., L. J. Stillwell; and Walter A. Martin.

It appears, therefor, that Walter A. Martin is the lessee, by assignment, of Sec. 35, T 10 N, R 13 W, S.B.B.&M.; and that all persons involved in the chain of title have signed consents to lein, form MF-203.

The documents, or copies thereof, noted in the foregoing, are attached herewith as part of this appendix.

MF-203
(Revised July 1, 1954)

OWNER'S CONSENT TO LIEN

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

ALL OF SECTION 35; TOWNSHIP 10 NORTH; RANGE 13 WEST
SAN BERNARDINO BASE LINE & MERIDIAN, Situated near Rodamond, CAlif.

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

2/

hereinafter called the "Operator"; and

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

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

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

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

1/ Either (a) insert the legal description of the land, or (b) strike out the words "as follows" and insert "in a lease [or contract, deed, or other document] dated _____, and recorded in book _____ page _____ official records of said county." If (b) is used, the book and page of recordation cannot be dispensed with. If the space provided is insufficient, use an Annex, and refer to the Annex in the space.

2/ Insert the name of the Operator as it will appear in the exploration project contract.

3/ Mining or production from the land is not required, and in the absence of production there is no obligation to repay the Government.

(OVER)

3. The undersigned shall commit no act nor assert any claim that may contravene or conflict with the lien, claim, or rights of the Government under the provisions of said contract. This agreement shall be binding upon the heirs, executors, administrators, successors, and assigns of the undersigned.

4. Changes and added provisions _____

_____

_____

_____

Dated this 28 day of December, 195 4.

Joseph M Gross [Seal]

_____ [Seal]

_____ [Seal]

STATE OF CALIFORNIA
COUNTY OF
Los Angeles } SS.

On December 28, 1954, before me, the undersigned, a Notary Public in and for said County and State, personally appeared Joseph M Gross

known to me to be the person whose name is subscribed to the within instrument and acknowledged that he executed the same.

WITNESS my hand and official seal.

(Seal) Helen M Tutt
Notary Public in and for said County and State.

My Commission Expires May 16, 1958

Form 523 7-48 (Individual)

No.....

Mine Lease

L. J. STILLWELL

.....

To

JOSEPH M. GROSS

.....

Dated....., 19.....

ORDER No.....

When recorded, please mail this Instrument to

Joseph M. Gross
533 No. LaCienega
Los Angeles 48, Calif.

22650
RECORDED AT REQUEST OF Ralph Tanner & Ross
MAY 13 1953 BOOK 2060 PAGE 250
At 12 M
OFFICIAL RECORDS KERN COUNTY, CALIFORNIA
L. [illegible], RECORDER
DEPUTY RECORDER

91250

6

2080 250

22699

Mine Lease

This Indenture, *Made the* Fourth *day of* May, *19*53

Between L. J. Stillwell, residing at 2600 Romona Blvd., Los Angeles 33, California *Lessor*....,

And Joseph M. Gross, whose principal place of business is 533 N. LaCienega, Los Angeles 48, California *Lessee*....,

Witnesseth: *That the said Lessor...., for and in consideration of* Ten *dollars ($*10.00*), to* ..... *in hand paid, the receipt of which is hereby acknowledged, and in further consideration of the rents, royalties, covenants and agreements hereinafter reserved and by the said Lessee.... to be paid, kept and performed, that said Lessor..... has..... granted, demised and let, and by these presents does.... grant, demise and let, unto the said Lessee....., all the following described mine and mining property, situated in* ..... *Mining District, County of* Kern *of* State of California, *to-wit:*

Township 10 North Range 13 West SBM
All of Section 35 Kern County California

Together *with the appurtenances*

To Have and to Hold *unto the said Lessee.... for the term of* Ten Years *from date hereof, expiring at noon on the* Fourth *day of* May *19*63 *unless sooner forfeited or determined through the violation of any covenant hereinafter against the said tenant*..... *reserved.*

And in Consideration *of the said demise, the said Lessee.....does.....covenant and agree with said Lessor as follows:*

To pay said Lessor....the further sum of TWO THOUSAND - - - - - - - - - - -

($2,000.00) - Dollars

on the first day of each ....Year..... during the life of this lease, as a minimum royalty said first payment of Two Thousand Dollars ($2,000.00) to be due May 1st, 1954, and each year thereafter unless this lease is sooner quitclaimed by Lessee as hereinafter provided. Lessee shall have the right to renew this lease from year to year after its expiration date, provided Lessee pays to Lessor a minimum royalty each year of not less than Two Thousand($2,000.00) Dollars per year starting May 4th, 1954, as above stated.

Lessor Shall be paid a royalty of Ten Percent (10%) of the net smelter return of all ore extracted and sold from the within described premises and said royalty shall be the sole and only consideration to the lessor herein, it being understood that said Ten Percent (10%) royalty shall equal at least Two Thousand($2,000.00) Dollars per year starting May 4th, 1954.

To deliver to said Lessor...., ...his...agents or assigns, each and every month..... during the life of this lease, a full..account....of all ore, or products and bullion extracted from said premises.

To enter upon said mine or premises and work the same, mine fashion, in manner necessary to good and economical mining, so as to take out the greatest amount of ore possible, with due regard to the safety, development and preservation of the said premises as a workable mine, in accordance with governmental regulation and restriction.

~~To enter and mine said premises as aforesaid steadily and continuously from the date of this Lease and that any failure to work said premises with at least .....persons employed under ground for the space of..... consecutive days may be considered a violation of this covenant. To well and sufficiently timber said mine at all points where proper, in accordance with good mining and to repair all old timbering wherever it may become necessary.~~

To allow said Lessor....and.....his.....agent to enter upon and into all parts of said mine for the purpose of inspection, with use of all passages, ropes, windlass, ladder-ways, and all other means of ingress and egress for such purpose.

~~To not assign this Lease, or any interest thereunder, and to not sublet the said premises, or any part thereof, without the written assent of said Lessor...., and to not allow any person or persons except the said Lessee.... and..... workmen to take or hold possession of said premises or any part thereof under any pretense whatever.~~

~~To occupy and hold all cross or parallel lodes, dips, spurs, feeders, crevices or mineral deposits of any kind, which may be discovered in working under this Lease, or in any tunnel run to intersect said .....lode, or by said Lessee.... or any person or persons under ..... in any manner at any point within ..... feet of the center line of said lode, as property of said Lessor....; with privilege to said Lessee.... of working the same, as an appurtenance of said demised premises, during the term of this Lease; and to not locate or record the same, or allow the same to be located or recorded, except in the name of the said Lessor.....~~

To keep at all times the drifts, shafts, tunnels, and other passages and workings of said demised premises thoroughly drained and clear of loose rock and rubbish of all kinds, if demised premises are so operated.

To deliver up to said Lessor.... the said premises, with the appurtenances and all improvements..if any.....in good order and condition, with all shafts and tunnels and other passages thoroughly clear of rubbish and drained, and the mine in all points ready for immediate continued working (accidents not arising from negligence alone excusing), without demand or further notice, on said .....4st (Fourth)...day of..May.....1963...., at noon, or at any time previous, upon demand for forfeiture, except as herein elsewhere provided.

Lessee shall have the right to assign all or part of his interest in and to this lease without written permission of the Lessor. Lessee shall have the right to quitclaim this lease to the Lessor at anytime during the life of this lease and such quitclaim shall release and relieve said Lessee of all obligations or liabilities of any kind or nature.

Lessor agrees that Lessee may secure government aid in exploring and/or developing and/or operating the within described land and in this connection the Lessor agrees to subordinate his interest to such loans as the government may offer, give or allow, and Lessor agrees specifically in this connection to sign and execute Defense Minerals Administration forms MF201 and/or MF202 when requested.

It is the intention of the Lessee herein to explore the within described premises and may not do any actual mining before May 4, 1954, although Lessee is not limited so to do.

Nothing herein to the contrary, the within described premises shall be explored and operated subject to governmental regulation and restriction.

And finally, upon the violation by said Lessee...., or by any other person under him.....of any covenant or covenants hereinbefore reserved, the term of this Lease shall, at the option of said Lessor...., expire, and the same and said premises with the appurtenances shall become forfeit to said Lessor...., and said Lessor ....or.....his..... agent may thereupon, after demand of possession in writing, enter upon said premises and dispossess all persons occupying the same, with or without force, and with or without process of law, or at the option of said Lessor...., the said tenant and all persons found in occupancy may be proceeded against as trespassers from the beginning of said term, both as to realty and the ore served therefrom, or as guilty of unlawful detainer. providing Lessee or his assigns shall be given thirty (30) days notice of such violation by registered mail to the last known address of Lessee, which notice shall give thirty (30) days in which to cure such default or violation.

Each and every clause and covenant of **This Indenture** *shall extend to the heirs, executors and administrators of all parties hereto; and to the assigns of said Lessor...., and ~~as said Lessor.... may elect~~, to the assigns of said Lessee.....*

In Witness Whereof, *the said parties hereto, the Lessor...., and the Lessee...., have hereunto set their hands and seals this.....Fifth.....day of .....May.....1953.*

J. J. Stillwell

Eric A. Stillwell

Joseph M. Gross

Lee S. Hassler

Subscribed and sworn to before me this 5 day of May, 1953.

NOTARY PUBLIC IN AND FOR THE COUNTY OF LOS ANGELES, STATE OF CALIFORNIA.

My Commission Expires Dec. 23, 1956

STATE OF CALIFORNIA,
County of LOS ANGELES } ss.

BOOK 2080 PAGE 253

ON THIS 5th day of May, A.D., 19 53, before me,
C. H. SHATTLES
a Notary Public in and for said County and State, personally appeared
L.J. STILLWELL, EDITH D. STILLWELL AND JOSEPH M. GROSS
, known to me,

to be the person s whose name s are subscribed to the within Instrument, and acknowledged to me that they executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year in this certificate first above written.

C. H. Shattles
Notary Public in and for said County and State.

STATE OF CALIFORNIA,
County of Los Angeles } ss.

Edith D Stillwell
L. J. Stillwell also known as
Lawrence J Stillwell

ON THIS 10th day of July, A. D., 19 53, before me,
a Notary Public in and for said County and State, personally appeared
L. J. Stillwell, also known as Lawrence J. Stillwell,
and Edith D. Stillwell, wife of L. J. Stillwell, known to me,

to be the person s whose name s are subscribed to the within Instrument, and acknowledged to me that they executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year in this certificate first above written.

Virginia Eckerly
Notary Public in and for said County and State.
My Commission Expires May 8, 1955

ACKNOWLEDGMENT — GENERAL — WOLCOTT'S FORM 232

MF-203
(Revised July 1, 1954)

OWNER'S CONSENT TO LIEN

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

ALL OF SECTION #35 TOWNSHIP 10NORTH; RANGE 13 WEST

SAN BERNARDINO BASE LINE & MERIDIAN , Situated near Rosamond, Calif.

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

2/ WALTER L. MARTIN

hereinafter called the "Operator"; and

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

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

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

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

1/ Either (a) insert the legal description of the land, or (b) strike out the words "as follows" and insert "in a lease [or contract, deed, or other document] dated _____, and recorded in book _____ page _____ official records of said county." If (b) is used, the book and page of recordation cannot be dispensed with. If the space provided is insufficient, use an Annex, and refer to the Annex in the space.

2/ Insert the name of the Operator as it will appear in the exploration project contract.

3/ Mining or production from the land is not required, and in the absence of production there is no obligation to repay the Government.

(OVER)

3. The undersigned shall commit no act nor assert any claim that may contravene or conflict with the lien, claim, or rights of the Government under the provisions of said contract. This agreement shall be binding upon the heirs, executors, administrators, successors, and assigns of the undersigned.

4. Changes and added provisions _____

_____

_____

_____

Dated this 29 day of December, 1954.

L. J. Stillwell [Seal]

_____ [Seal]

_____ [Seal]

ASSIGNMENT OF LEASE

THIS AGREEMENT, made and entered into as of this 20th day of July, 1954, by and between JOSEPH M. GROSS, of 533 North LaCienega, Los Angeles, 48, California, hereinafter called ASSIGNOR; and JOPLIN MACHINERY AND ELECTRIC COMPANY, a Missour Corporation, of Joplin, Missouri, hereinafter called ASSIGNEE:

WITNESSETH:

WHEREAS, the said Assignor is the Lessee under that certain Mining Lease dated the fourth day of May, 1953, in which said Mining Lease L. J. STILLWELL, of 2600 Romona Boulevard, Los Angeles, 33, California, is designated as Lessor, and which said Mining Lease covers the following described mine and mining property, situated in the County of Kern, State of California, to-wit:

Township 10 North Range 13 West SBM
All of Section 35 Kern County California

and which said Lease is recorded in the official records of Kern County, California, in Book 2080, page 250, a copy of said Mining Lease being hereto attached and hereby made a part hereof; and

WHEREAS, Assignor is desirous of assigning to the said Assignee the aforementioned Mining Lease; and

WHEREAS, said Assignee is desirous of purchasing said Mining Lease under certain terms and conditions;

NOW, THEREFORE, in consideration of the sum of TEN DOLLARS ($10.00), and other good and valuable considerations

as hereinafter set forth, receipt and sufficiency of which is hereby acknowledged, the said Assignor does hereby set over, assign, transfer, and sell to the said Assignee the hereinabove mentioned and described Mining Lease, subject to all of the terms, agreements, and stipulations therein contained, and subject further to the stipulations hereinafter set forth.

Assignor shall be paid a royalty of five per cent (5%) of the net smelter return of all ore extracted and sold from the within described premises, said royalties to be payable monthly on or before the twentieth day of the month next following the receipt by Assignee of payment for the products sold or disposed of. Said royalties are payable to Assignor at 533 North LaCienega, Los Angeles, 48, California. Assignor may at his option require that royalties due under the terms of this agreement be deducted at the market where sold and paid directly to Assignor, and that each payment be accompanied by a settlement sheet.

Notwithstanding any of the provisions of the Lease being assigned, the Assignee agrees to start prospecting, drilling, or exploration work on or before August 31, 1954, and carry on such exploration operations in good faith until such time that the Assignee has determined that there are no ores in commercial quantities to be found on the premises; in the event ore is found in commercial quantities, Assignee agrees to begin mining operations immediately and to continue to conduct such mining operations in a workman-like and efficient manner so long as ore can be produced in commercial

quantities to the advantage of all parties to this instrument; in the event Assignee fails to begin operations upon termination of drilling and/or exploration operations, or if the ore has been discovered in commercial quantities, for a period of sixty days, then Assignee will surrender the premises to Assignor and this Assignment will be considered terminated.

The Assignee shall have the right to terminate this Assignment or any obligation hereunder, either to the Assignor or the Lessor, L. J. Stillwell, upon giving sixty days notice in writing of such intention to terminate to the Assignor at his address as set out herein, without further obligation except to pay all production royalties due at the time of termination set forth in said notice; in the event such notice to terminate, however, is given after March 1, 1955, but before May 1, 1955, the Assignee hereby agrees to pay the $2,000.00 minimum royalty called for by the Lease for the year 1955 to the Lessor, L. J. Stillwell, and to remove all of its equipment from said premises not later than ninety days from the date of such notice to terminate. All of the provisions of this paragraph shall apply to any notice to terminate if given in successive years after the year 1955.

Assignor agrees that, if such notice to terminate as set forth in the preceding paragraph is given, he will immediately assume and carry out the terms of the Mining Lease hereby assigned.

Assignee agrees to conduct all prospecting, drilling, exploration work, and/or mining operations on the premises in a workman-like manner in accordance with the laws and regulations

of the State of California and to save the Assignor or the Lessor, L. J. Stillwell, harmless as a result of its failure to do so.

Each and every clause and covenant of this agreement shall extend to the successors, heirs, executors, and administrators of all parties hereto and to the assigns of this Assignee.

Assignor hereby warrants that the title to the premises and Mining Lease above described is free and clear of all liens and encumbrances and agrees to defend said title against any adverse claims.

Assignee will supply Assignor with a copy of all maps prepared by Assignee and drill logs on all prospect holes drilled.

IN WITNESS WHEREOF the said parties hereto, the Assignor and his wife, and the Assignee, have hereunto set their hands and seals on the day and year first above written.

Joseph M. Gross
JOSEPH M. GROSS

Florence Gross
Wife of JOSEPH M. GROSS

JOPLIN MACHINERY AND ELECTRIC COMPANY
A Missouri Corporation

By: J. W. Rayner
President

STATE OF CALIFORNIA }
County of Los Angeles } ss.

On this 22nd day of July, A.D., 1954, before me, Helen M. Tutt, a Notary Public in and for said County and State, personally appeared JOSEPH M. GROSS and Florence Gross, known to me to be the persons whose names are subscribed to the within Instrument,

and acknowledged to me that they executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year in this certificate first above written.

Helen M Tutt
Notary Public in and for said County and State

My Commission Expires May 16, 1958

STATE OF New Mexico
County of Bernalillo } ss.

On this 20 day of July, 1954, before me, J. A. Whitehouse, a Notary Public in and for said County and State, residing therein, duly commissioned and sworn, personally appeared J. V. REYNOLDS, known to me to be the President of JOPLIN MACHINERY AND ELECTRIC COMPANY, and executed the within instrument on behalf of the Corporation herein named, and acknowledged to me that such Corporation executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year in this certificate first above written.

J. A. Whitehouse
Notary Public

My commission expires 9/18/56

July 22, 1954

Joplin Machinery and Electric Co.
Joplin, Missouri

Attention: Mr. J. V. Reynolds

Gentlemen:

Confirming our conversation of even date, it is understood in connection with Assignment of Uranium Lease made to you this day that in the event you ever desire to terminate said Mining Lease, you will re-assign same or quitclaim same to me.

It is also understood that in connection with the above mentioned matter you will bear me harmless for any claims made against me by Ross Fitch relative to this deal.

Sincerely,

Joseph M. Gross

jmg/ht

Joseph M. Gross

Understood

Joplin Machy & Elec Co

Per J. V. Reynolds Pres

55081

ASSIGNMENT

WHEREAS, a certain Indenture, entitled "Mining Lease," dated May 4, 1953, was entered into by and between L.J. Stillwell, of 2600 Romona Boulevard, Los Angeles 33, California, in said Indenture called "Lessor," and James M. Gross, of 533 N. LaCienega, Los Angeles 48, California, in said Indenture called "Lessee," recorded in the official records of Kern County, California in Book 2080, page 250; and

WHEREAS, another Indenture, entitled "Assignment of Lease," dated July 20, 1954, was entered into by and between the said James M. Gross, in said Indenture called "Assignor," and Joplin Machinery and Electric Company, a Missouri corporation, of Joplin, Missouri, in said Indenture called "Assignee," recorded in the official records of Kern County, California in Book 2283 page 164; and

WHEREAS, said mining lease and assignment of lease cover the following mine and mining property, to wit:

All of Section 35, Township 10 North, Range 13 West, SBM, Kern County, California.

NOW, THEREFORE, for and in consideration of the sum of Ten Dollars ($10.00) and other good and valuable considerations, the receipt and sufficiency of which is hereby acknowledged, the undersigned Joplin Machinery and Electric Company, a Missouri corporation, hereinafter called "Assignor," does hereby sell, assign, transfer and set over to WALTER A. MARTIN, of Sarasota, Florida, hereinafter called "Assignee," all and singular the hereditaments, premises, lands and claims described in and demised by the aforementioned mining lease and assignment of lease, for the residue of the term thereby created, and any extension thereof, TO HAVE AND TO HOLD the same to the Assignee, subject to the payment of the royalties and overriding royalties, and the performance of the covenants, conditions and stipulations to be performed by the Lessee in the above described mining lease, and by the Assignee in the above described Assignment of Lease; and the Assignee hereby covenants with the Assignor to keep it, its successors and assigns, indemnified against the said royalties and overriding royalties, covenants, conditions and stipulations, and all actions, proceedings, claims and expenses in respect thereof.

And the Assignor hereby covenants and agrees with the Assignee that the Assignor has not assigned, given, granted, bargained, sold, subleased, or encumbered the premises, lands and claims herein assigned, in any manner whatsoever.

Further, the parties hereto agree that the covenants and agreements herein contained shall be binding upon and shall inure to the benefit of the parties hereto, their respective successors, assigns, heirs, devisees and personal representatives.

IN WITNESS WHEREOF, the parties hereto have set their hands and affixed their seals, the day and year first above written.

JOPLIN MACHINERY AND ELECTRIC COMPANY

By J V Reynolds
President

Assignor

Walter A. Martin
Assignee

STATE OF NEW MEXICO)
) SS
County of Bernalillo)

On this 28th day of September, 1954, before me, J.G. Whitehouse, a Notary public in and for said County and State, residing therein, duly commissioned and sworn, personally appeared J.V. Reynolds, known to me to be the President of JOPLIN MACHINERY & ELECTRIC COMPANY, and executed the within instrument on behalf of the corporation herein named, and acknowledged to me that such corporation executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year in this certificate first above written.

My Commission Expires: 9/18/56

J.G. Whitehouse
Notary Public

BOOK 2308 PAGE 342

STATE OF Florida)
COUNTY OF Sarasota) SS

On this 20 day of September, 1954, before me, a Notary Public in and for the said County and State, personally appeared WALTER A. MARTIN, to me known to be the person whose name is subscribed to the above and foregoing instrument, and who acknowledged that he executed said instrument of his own free act and deed.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year first above written.

GERALDINE D. RIEGEL NOTARY PUBLIC STATE OF FLORIDA AT LARGE

Geraldine D. Riegel
Notary Public

My Commission Expires: Notary Public, State of Florida at Large
My commission expires Nov. 4, 1958

55081
RECORDED AT REQUEST OF
Walter A. Martin
OCT 22 1954
At 24 min. past 2 P. M.
In Book 2308 of Official Records
Page 340 Kern County Records
Chas. H. Thomate
Recorder
Alice Pitton
Deputy Recorder

2/8/2.00
10
2.10

Entered and compared: CHAS. H. THOMATE, County Recorder, By M. [illegible] Deputy

STATE OF CALIFORNIA }
COUNTY OF KERN } ss.

I, Chas. H. Shomate, County Recorder of said County, do hereby certify that the annexed is a whole true and correct copy of an original as will appear by reference to Book 2308 of Official Records Page 340 now in my office, and that said copy has been compared with original and is a correct transcript therefrom.

Witness my hand and official seal this 28th day of December A. D. 19 54

Chas. H. Shomate, Recorder
In and for the County of Kern, California

By Vada Smith
Deputy

MF-203
(Revised July 1, 1954)

OWNER'S CONSENT TO LIEN

WHEREAS, the undersigned, as owner, co-owner, lessor, or seller has an interest in certain property in the State of CALIFORNIA, County of KERN, described as follows:1/ ALL OF SECTION #35 TOWNSHIP 10 NORTH; RANGE 13 WEST SAN BERNARDINO BASE LINE & MERIDIAN, Situated near Rosamond, Calif.

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

2/ WALTER A. MARTIN

hereinafter called the "Operator"; and

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

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

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

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

1/ Either (a) insert the legal description of the land, or (b) strike out the words "as follows" and insert "in a lease [or contract, deed, or other document] dated _____, and recorded in book _____ page _____ official records of said county." If (b) is used, the book and page of recordation cannot be dispensed with. If the space provided is insufficient, use an Annex, and refer to the Annex in the space.

2/ Insert the name of the Operator as it will appear in the exploration project contract.

3/ Mining or production from the land is not required, and in the absence of production there is no obligation to repay the Government.

(OVER)

3. The undersigned shall commit no act nor assert any claim that may contravene or conflict with the lien, claim, or rights of the Government under the provisions of said contract. This agreement shall be binding upon the heirs, executors, administrators, successors, and assigns of the undersigned.

4. Changes and added provisions _____

_____

_____

_____

Dated this 22 day of Dec, 1951.

_____ [Seal]

_____ [Seal]

_____ [Seal]

STILLWELL'S AUTO HOTEL

2600 RAMONA BOULEVARD
LOS ANGELES 33, CALIF.

ANgelus 1-3156

Mr Walter A. Martin
525 Freeling Avenue
Sarasota, Florida

Dear Mr Martin;

This is to approve the transfer of a mining lease to you from the Joplin Machinery and Electric Co., of Joplin Missouri, subject tothe following conditions:

1. That you secure my approval of the terms and condition of a DMEA Exploration Loan, which you are applying for prior to signing any contract for same.

2. I enclose herewith a signed consent to lein for said loan.

3. That in the event you do not secure my approval for said loan prior to signing contract for same, that you hereby agree to pay the net balance due of said loan upon surrendering the lease upon this property.

Walter A. Martin

Lawrence J. Stillwell

Lawrence J Stillwell
Dec. 29, 1954

Please sign and return one copy of this signifying your approval.

JOSEPH M. GROSS
533 NO. LA CIENEGA BLVD.
LOS ANGELES 48
BRADSHAW 2-7267

KNOW ALL MEN BY THESE PRESENTS:

I hereby approve the Assignment of Mining Lease from the Joplin Machinery and Electric Company to Walter A. Martin, recorded in Book 2308, Page 340, Kern County, October 22, 1954, 2:00 P.M..

Joseph M. Gross
JOSEPH M. GROSS

Dec 27th 1954

Form 323 7-48 (Individual)

STATE OF CALIFORNIA
COUNTY OF
Los Angeles } SS.

On December 27 1954, before me, the undersigned, a Notary Public in and for said County and State, personally appeared Joseph M Gross

known to me to be the person whose name is subscribed to the within instrument and acknowledged that he executed the same.

WITNESS my hand and official seal.

(Seal) Helen M Witt
Notary Public in and for said County and State.
My Commission Expires May 16, 1958

APPENDIX B.

EXPERIENCE AND QUALIFICATIONS OF APPLICANT.

Section 5 D of Application: Operating experience and background of applicant with relation to the ability to carry out such exploration project, and also that of the person or persons who will supervise the operation.

Mr. Walter A. Martin, the applicant, is experienced in the operation of mines, having been the owner-operator of three properties in the period 1941-1947. These operations included underground mining, strip mining, and concentration plants engaged in the production of lead and zinc concentrates in the Joplin, Missouri district. In addition, Mr. Martin is presently operating two properties producing uranium ore, in the Grants district, New Mexico. Mr. Martin's bank references are as follows: Palmer First National Bank & Trust Co., Sarasota, Fla.; Grants State Bank, Grants, N.M.; and the Security Frist National Bank, & Trust Co., La Jolla, Calif.

All engineering will be furnished by King & King, Mining Engineers, of Whittier, Calif. References as to their technical qualifications are: Dr. O.C. Ralston, U.S. Bureau of Mines, Washington, D.C.; Mr. L.A. Norman, Supervising Mining Geologist, California State Division of Mines, Ferry Bldg., San Francisco, Calif.; Mr. T.O. Evans, Manager, Haystack Mountain Development Co., Grants, N.M.; and Mr. E.D. Arthur, Mining Commissioner, Los Angeles Chamber of Commerce, Los Angeles, Calif.

EXAMINATION • EVALUATION • PLANT DESIGN • MANAGEMENT

KING & KING

MINING ENGINEERS

CLARENCE R. KING
7648 BOLSA RD.
MIDWAY CITY, CALIF.
WESTMINSTER 8272

DAN M. KING
11762 MINES BLVD.
WHITTIER, CALIF.
OXFORD 44361

APPENDIX C.

LABORATORY CERTIFICATE

ORE-DRESSING LABORATORY
7648 BOLSA RD., MIDWAY CITY, CALIF.

Lab. No.: W. A. Martin

Date: Dec. 3 , 1954

Sample: Radiometric Drill Hole Logs

Marked: No1 Standard

Submitted by: W. A. Martin

Approximately one week after drilling, each drill hole was logged by use of a P. R. I. drill-hole Gieger counter equipped with a 100 foot probe extension and probe. The counter probe was standardized frequently against the standard described below.

A standard was constructed by making up a steel cylinder 14" diameter by 18" high. A steel bottom containing a centrally located hole of the same size as the wagon drill holes was welded to the cylinder. A pipe of the same outside diameter as the hole was then inserted in the hole in the bottom of the cylinder to act as a form, and the cylinder filled with crushed standard ore described below, ramming the ore-water-glue mixture tightly while filling the cylinder. A steel top identical with the bottom was then welded to the cylinder, and the central pipe used as a form withdrawn. The mass of crushed ore and binder was then baked at about 180°F to dry and set the mixture.

The standard ore used was about 250 lbs. dug from a prospect hole on the property. The ore was chushed to - 1/2", mixed, and a 1/4 fraction taken as a sample by coning and quartering. This fraction was crushed to -8 mesh, mixed, and four - 8 oz. samples cut out over a Jones riffle. These were ground to -20 mesh, mixed, and split into duplicate 4 oz. pulps for assay. All rejects from the sample splitting were returned to the - 1/2" material, the mass mixed, about 10% by weight of water containing a pint of casein glue added, the whole thoroughly mixed, and rammed into the cylinder.

Assay of the standard sample by Ed. Eisenhauer, Jr., of Los Angeles, Cal. was: by radiometric assay: 0.30% U_3O_8
by chemical detn.: . . 0.28% U_3O_8

In logging the holes, a curve was drawn in the field from the background reading as equal to zero to the probe reading when centered in the standard as equal to 0.28%. Readings in the drill holes reduced to percent U_3O_8 by use of the curve were plotted as to location on the drill logs. Holes were logged every two feet or closer as indicated by radioactivity, allowing one minute at each position of the probe. Results are tabulated on following pages.

This certificate is a part of the specific investigation to which it is attached, and the data herein presented bear only upon the specific recommendations made in the report to which this sheet is attached. The data herein are not intended for use in advertising or publicity matter except with our written approval and as part of a complete report.

KING & KING

MINING ENGINEERS

CLARENCE R. KING
7648 BOLSA RD.
MIDWAY CITY, CALIF.
WESTMINSTER 8272

DAN M. KING
11762 MINES BLVD.
WHITTIER, CALIF.
OXFORD 44361

APPENDIX C : PAGE 2

LABORATORY CERTIFICATE

ORE-DRESSING LABORATORY
7648 BOLSA RD., MIDWAY CITY, CALIF.

Lab. No.: Date:

Sample: Marked:

Submitted by:

See page 1

Hole No.	Hole Section Feet	Reading, (x1 scale)	Est. % U_3O_8	Ore thickness, Feet
1	Blank			
2	17 - 19	0.045	0.026	3.0
3	5 -7.5	0.043	0.022	2.5
	21 -23	0.045	0.026	3.0
4	31 -32	0.060	0.052	2.0
5	at 0 -8	0.060	0.052	1.0
ore	8.5 -10.5	0.145	0.220	2.0
	at - 11	0.065	0.062	1.0
	15 - 17	0.045	0.026	2.0
6	4 - 10	0.045	0.026	6.0
7	3 - 5	0.050	0.036	3.0
	25 - 27	0.050	0.036	3.0
8	Blank			
9	Blank			
10	Blank			
11	20 - 21	0.100	0.124	2.0
12	14.5 - 15.5	0.060	0.052	1.0
13	Trace @ 10"			
14	Blank			
15 ore	14.5-15.5	0.120	0.160	1.0
	15.5-22.0	0.063	0.052	6.5
16	4 - 8	0.077	0.082	5.0
17	11.5-13.5	0.075	0.080	3.0
18	at-14	0.060	0.050	1.0
19	11 - 17	0.060	0.052	6.0
20	Trace @ 9'			
21 ore	0 - 3	0.13	0.178	3.0
	5.5-6.5	0.085	0.096	1.0
22	8 - 11	0.063	0.058	3.0
23	Blank			
24	Blank			
25 ore	10 - 11	0.120	0.160	2.0
26	Trace @ 14'			

This certificate is a part of the specific investigation to which it is attached, and the data herein presented bear only upon the specific recommendations made in the report to which this sheet is attached. The data herein are not intended for use in advertising or publicity matter except with our written approval and as part of a complete report.

KING & KING

MINING ENGINEERS

CLARENCE R. KING
7648 BOLSA RD.
MIDWAY CITY, CALIF.
WESTMINSTER 8272

DAN M. KING
11762 MINES BLVD.
WHITTIER, CALIF.
OXFORD 44361

APPENDIX C: PAGE 3

LABORATORY CERTIFICATE

ORE-DRESSING LABORATORY
7648 BOLSA RD., MIDWAY CITY, CALIF.

Lab. No.: Date:

Sample: Marked:

See Page 1

Submitted by:

Hole No.		Hole Section, Feet	Reading, (x1 scale)	Est. % U_3O_8	Ore thickness, Feet.
27	ore	22 - 23	0.135	0.184	2.0
		26 - 27	0.050	0.036	2.0
28		Traces @ 13'			
		Traces @ 38'			
29	ore?	9-10	0.107	0.136	2.0
	ore	10-12	0.42 plus	0.533	3.0
	ore?	12-14	0.107	0.136	2.0
30		Blank			
31		Blank			
32		Blank			

This appendix consists of a total of three pages; page one being a description of method of arriving at uranium oxide content of the radiometric parts of the drill holes; pages two and three are detailed logs of those portions of the drill holes that are radiometric.

KING & KING, by-

Dan M. King

Dan. M. King

This certificate is a part of the specific investigation to which it is attached, and the data herein presented bear only upon the specific recommendations made in the report to which this sheet is attached. The data herein are not intended for use in advertising or publicity matter except with our written approval and as part of a complete report.

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Use other side first

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U. S. Government Messenger Envelope

Standard Form No. 65 (Rev. 1/46)

1. Use blocks consecutively, one at a time.
2. Void previous block.
3. Write clearly.

NAME OR TITLE OF PERSON, DEPARTMENT, ADDRESS, AND ROOM		NAME OR TITLE OF PERSON, DEPARTMENT, ADDRESS, AND ROOM	
1039	RUN / STOP	Mr. W. L. Martin Rm. 3538 Optimum Bldg	RUN / STOP
3647	RUN / STOP	Walter A. Martin DMEA 3643	RUN / STOP
3615	RUN / STOP		RUN / STOP
P. Ziemer	RUN / STOP		RUN / STOP
K. Bailey	RUN / STOP		RUN / STOP
Miss Dedrick	RUN / STOP		RUN / STOP
Peggy Miller Rm. 4449	RUN / STOP		RUN / STOP
Minerals 3810	RUN / STOP		RUN / STOP
Mr. Quittendon Rm 4456	RUN / STOP		RUN / STOP
Mr. Kilgaard 5222	RUN / STOP		RUN / STOP

Send surplus envelopes to supply room for reissue.

Use other side

16—38949a-2

Use RUN and STOP only when messenger service between Government buildings in Washington is required. Your mail room has RUN and STOP information.

WALTER A. MARTIN
525 Freeling Avenue
Sarasota, Florida

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 18 1955

Defence Minerals Exploration Administration
Department of Interior
Washington 25, D.C.

Gentlemen;

Attached please find an application for aid in the exploration of a uranium prospect near Rosamond, California, and supporting data prepared by my engineers.

This prospect seems to have every possibility of developing into a profitable mine upon completion of the work outlined. Exploration of the indicated reserves on this ground could add many thousand tons of available ore to the probable reserves of the Bakersfield and nearby areas. This in turn might make possible future installation of beneficiation facilities in this region.

I would appreciate having copies of all correspondence related to this docket sent to King & King at their Whittier address for their attention and action, if necessary. I would like to request that they be advised in advance of any field examination in order to show your people the ground.

Trusting this matter will merit your early attention, I remain

Very truly yours

Walter A. Martin

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 18 1955

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

Not to be filled in by applicant

Docket No. 3643
Metal or Mineral Uranium
Date Received 1-18-55
Estimated Cost $22,658
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: WALTER A. MARTIN,
525 Freeling Ave., Sarasota, Florida
(with copy all correspondence to: King & King,
11762 Mines Ave., Whittier, Calif.)

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

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

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

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

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract
All of Sec. 35, T 10 N, R 13 W, San Bernardino Base & Meridian;
Near Rosamond, Kern County, Calif.

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

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

(*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. See Appendix A, attached to Engineers Report herewith.

(*e*) If you own the land, describe any liens or encumbrances on it
None: this land is fee land, including mineral rights

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. None: this land is fee land, including mineral rights

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

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

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

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points. See Engineers Report, page 2

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

16—66551-1

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

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

(*c*) The work will start within 15 days and be completed within 4 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 Appendix B, Report herewith

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 Engineers Report herewith, page 10

(*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. As above, page 10

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel. As above, page 10

(*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. As above, page 11

(*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. As above, page 11

(*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. As above, page 11

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

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

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

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

[X] Money [ ] Use of equipment owned by you [ ] Other

Explain in detail on accompanying paper. Applicant pays all bills & follows normal contract procedure

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 January 15, 1955

Lucille A. Martin
(Applicant)

By

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

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MINING ENGINEERS

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Defense Minerals Administration
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Documents and data attached to the application herewith are as follows:

(1) Engineers Report and Recommendations, consisting of: eleven typewritten pages.

(2) Three appendices, as follows:

Appendix A, containing the following data:
- Cover page giving chain of title.
- Copy lease, Stillwell to Gross.
- Consent form MF203, s/ Stillwell.
- Copy lease assignment, Gross to Joplin Machinery & Electric Co.
- Copy consent form MF203, s/ Gross.
- Copy lease assignment, Joplin Mach. Co. to Martin.
- Copy consent form MF203, s/ J. V. Reynolds, Pres. Joplin Mach.
- Copy consent to lease assignment to Martin, s/ Stillwell.
- Copy, consent to lease assignment, to Martin, s/ Gross.

Appendix B: Statement of qualifications of Applicant and Technical Consultants.

Appendix C: Radiometric Drill Log Results.

(3) Ten maps as follows:

Map No. 1: Plan of area drilled.
Map No. 2: Topographic map, Sec. 35.
Map No. 3: Index map, showing location of the property.
Sections No. 's 1 to 7 inc., drawn through drilled area.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JAN 18 1955

KING & KING

MINING ENGINEERS

CLARENCE R. KING
7648 BOLSA RD.
MIDWAY CITY, CALIF.
WESTMINSTER 8272

4 January 1955

DAN M. KING
11762 MINES BLVD.
WHITTIER, CALIF.
OXFORD 44361

INTRODUCTION

This report, and recommended exploration program has been compiled to supply the technical data necessary for an application for aid in an exploration project to be made by Mr. Walter A. Martin, to the Defense Minerals Exploration Administration. This is a part of, and attached to, the above-mentioned application.

The Kitty Kat prospect, described herein, is one of several uranium prospects which have been discovered during the past few years within a few miles of Rosamond, California. During 1954 the property passed into the hands of Mr. W. A. Martin, who holds the property by lease, at this time. Wagon drilling and some surface prospecting disclosed the presence of a limited tonnage of possibly commercial ore beneath shallow cover in the Rosamond formation of Tertiary rocks. Origin and quantity of ore within the deposit are both unknown at this time. Drilling was halted in December, 1954 to assess results. This report is a recapitulation of work done to date, and contains recommendations for further work.

LOCATION AND ACCESS

The property is located on Section 35, T 10 N, R 13 W, S.B.B. & M., in the southeasterly corner of Kern County California. It is ten miles south of Mojave and three miles northerly from the Tropico Mine. This mine, in turn, is four miles west of the small town of Rosamond, California, on the Southern Pacific railroad. (See Index Map, No. 3). Rail shipping points are Fleta, (a siding North of Rosamond), and Rosamond. Paved road connecting with the highway at Rosamond passes within a mile of the property.

TITLES AND PROPERTY HOLDINGS

Mr. Walter A. Martin, of Sarasota, Florida, holds an assigned lease upon Section 35, T 10 N, R 13 W, S.B.B. & M. The 640 acres embraced in this sectionof land were the property of the Southern Pacific Land Co. Title passed to Mr. L. J. Stillwell by purchase. Stillwell leased to Mr. Joseph Gross, who assigned the lease to the Joplin Machinery & Electric Co., who in turn assigned their lease to Mr. Walter A. Martin. (See Appendix A, for pertinent documents.)

HISTORY OF THE PROPERTY

Uranium was discovered upon nearby ground during 1950 and 1951. Prospecting by Mr. Stillwell in 1952 upon his Section 35 disclosed outcrops of radioactive rocks. Some small trenches were dug which disclosed autunite as the principal radioactive mineral. Little was done

upon the property until the fall of 1954 when Mr. Martin began exploration by wagon drilling. Drill holes up to 80 feet in depth disclosed irregularly spaced uranium-bearing rocks beneath overburden ranging from nothing to about 14 feet. Of 32 holes drilled, 6 showed commercial grades and thicknesses of ore.

GENERAL INFORMATION

The topography upon and near the property is one of low, rolling hills and alluvium-filled valleys and washes. Relief is about 600 feet maximum, between the lowest washes in the southeast corner of the Section, to the highest hills in the northwest corner. About 75% of the area of the property is free from thick alluvium mantles and vegetation.

The climate is typical of the Mojave desert: hot, very dry summers and mild winters, with not more than 5 to 10 inches of rain per year. The slight rainfall is confined to the winter months.

Labor supply is available from nearby towns, but skilled miners might have to be recruited from the Randsberg or Owens Valley areas.

Water is not available upon the property. At present, water would have to be hauled from Rosamond for any work contemplated. It is not likely that a dependable source for large quantities of water could be found by drilling wells on the property unless one of the larger faults in the southeast corner of the Section was water-bearing. Such a water source could probably be found by drilling wells within two to three miles from the property, however.

Power for exploration work would be generated from gasoline or diesel engines. Electric power lines are within three miles of the property.

No timber is growing near or on the property. Vegetation consists of a scanty growth of greasewood, cactus, and other desert flora.

All supplies would come from Lancaster, Mojave, or the Los Angeles area.

ECONOMIC GEOLOGY

Upon and near the property, strata of the lower members of the Miocene (?) Rosamond formation rest upon an erosion surface of quartz monzonite. Rock outcrops and drilling upon the property show that the Rosamond formation here corresponds roughly to the section described by Noble, (California Division of Mines, Bulletin 170, 1954). The strike of the Rosamond beds is roughly N 30 to 40 W and the dip 10° to 20° to the SE. On the property the Rosamond formation is largely composed of a white tuff interfingering with lenses of brownish agglomerate and a greenish, slightly bentonitic tuff (?). The tops of the low hills in the area are a bluff-forming brown, well cemented fanglomerate. It is possible that almost the entire Rosamond section in this area is represented, or that the various beds represent facies of the lower member of this formation.

According to Noble, (op. cit.) and others, nearby exposures of the Rosamond have been intruded by dikes of rhyolitic to pegmatitic texture.

An exposure of a dike of this type may occur about 800 ft. NE of the Kitty Kat workings, where an outcrop of a fine-grained intrusive is found, and where marked silicification is noted. The exact relationship of this outcrop to known dikes in the adjacent ground, (Sec. 25) where a small uranium orebody has been found associated with similiar dikes, is obscure and requires further study.

Basement quartz monzonite is exposed about 350 feet NE of the Kitty Kat workings. This exposure is bounded on one side by a fault and by alluvium on another side. (See Map No. 2).

A major fault postulated by Noble lies to the south of the property. As plotted by Noble, this hypothetical fault strikes N 60° W. It forms the boundary of the Rosamond formation south of the property. A parallel fault structure is suspected in the wash immediately to the south of the Kitty Kat workings. In the case of this suspected fault, the south side apparently has been downthrown. A series of pegmatite to aplite dikes striking about N 60° E appears to the east of the section, and outcrops in Section 35 may be an extension of this series of dikes. The dikes may mark the course of a major fault.

At the Kitty Kat workings, the sediments dip about 13° to the southeast and strike about N 50° W. They are rudely bedded, suggesting shallow water deposition, but may be wind-laid in part. They are cut by a series of small faults striking about N 60° E and dipping steeply to the northwest. These small faults outcrop for short distances only. A series of joints or tear faults striking roughly N 60° W is also noted.

The traces of the N 60° E faults are iron-stained. (See Map No. 1 for detail).

Uranium minerals, principally autunite, were found at the Kitty Kat workings along the strike of the N 60° E faults in two small pits dug by the discoverer. Subsequent examination disclosed another radioactive area some 900 feet southeast of the original discovery. Wagon drilling late in 1954 disclosed uranium mineralization throughout the area drilled. Mapping and logging of the drill holes showed no reliable pattern of ore occurrence except possibly in relationship to an underlying clayey stratum. (See Sections 6 and 7, maps herewith). As of this date the uranium mineralization does not appear conclusively related to faults or veins, nor is such a realtionship ruled out by the work so far done. It seems probable that the uranium was fixed in its present position, regardless of origen, by the montmorillonite certain to be present in the clayey tuff beds. (See U.S.G.S. Circular 224, by Waters and Granger).

ORE RESERVES.

Wagon drilling results to date are tabulated below:

Total holes drilled	32
Average depth, feet	53
Total footage of hole drilled	1,700
Average overburden thickness, feet	11
Holes with over 1 ft. thickness, @ over 0.15% U_3O_8	6
Holes with traces to 0.15% U_3O_8	16
Barren holes	10

The drill hole logs of the foregoing holes will be found in Appendix C. The weighted average thickness and grade of ore found in the six holes containing a thickness of over one foot of ore above 0.15% U_3O_8 was:

2.2 feet averaging 0.26% U_3O_8.

Reference to Map No. 1, Sections 1 to 7, and Appendix C will show that the entire area covered by the drilling was uranium-bearing. Further, the mineralized area shows no signs of ending on three of the four sides of the drilled area.

The ore thickness shown is mineable since it occurs near the surface. The holes so far drilled, and which encounter ore above 0.16% U_3O_8, do not, however, establish continuity in any one plane from one hole to another. This might be interpreted as indicating the occurrence of several small pods or pockets of ore-grade material. Assuming this to be the case, and excluding the barren area on the south side of the area drilled, the entire drilled area of 130 feet by 210 feet will have to be mined to a depth of 11 feet in order to selectively mine and/or sort out the mineable ore.

The following calculations should hold true, if the foregoing procedure is followed:

(1) Rock to be mined: $\frac{130 \times 210 \times 11 \text{ feet}}{14(\text{cu. ft./ton, tuff})} = 21,450$ tons.

(2) Average ore thickness in 6/24ths of holes drilled is 2.2 feet.

(3) Total tons ore sorted from area mined: $\frac{130 \times 210 \times 2.2}{4^* \times 14} = 975$ tons.

*Note: assumed that 6/24ths, or 1/4 of volume will be ore above 0.16% grade, in same proporation as ratio of ore-bearing to non-ore-bearing holes.

It seems reasonable that at least 975 tons of ore can be held above an average grade of 0.2% U_3O_8 by selective mining and/or sorting during the moving of the block containing this ore, by open pit methods. The gross value f.o.b. mine, of the ore thus sorted from the block of ground, would be between $30,000 and $40,000, on a Plateau schedule. (This includes initial bonus on production of the first 10,000 lbs. of U_3O_8 from a new property). The cost of mining the entire block to get at the ore would be on the order of $20,000.

Ore reserves disclosed by drilling so far done may therefor be summarized as: 975 short tons averaging 0.26% U_3O_8.

RECOMMENDATIONS AND CONCLUSIONS.

The fact that initial exploration work has disclosed reasonably favorable showings in drilling about one-half of the discovery area, and that at least one other area of similiar outcrops and surface radioactivity is known, leads to the following conclusions:

(1) Ore of similiar grade and type will probably exist as extensions of the Kitty Kat discovery area; and as orebodies in other areas within the property.

(2) Information upon the habits of the ore and possible genesis is lacking, especially with regard to the possibility of the existence of primary hydrothermal vein-type occurrences somewhere in the area.

(3) Location of the property between the gold-bearing fault veins of Soledad mountain and the Tropico mine, on related fault structures; raises the possibility that primary hydrothermal mineralization may exist beneath the outcrops or elsewhere beneath the silicified intrusives.

We therefor recommend the following program:

(1) Shallow drilling of known anomalies should be continued and any further anomalies found by (2) below should be drilled in the same manner.

(2) While shallow drilling is continuing, a scintillometric survey of the property on grid coordinates, with mapping of detailed geologic structure, should be carried on. Grid stations should not be more than 300 feet apart, with such additional stations as necessary to determine detail. Isorad map overlays for the geological map may then be used to guide drilling after the presently known anomalies are drilled out, if other favorable areas are found by this work.

(3) Detailed thin section and other laboratory work should be done simultaneously with the mapping to study possible genesis and chances for developing primary ore in depth on the property.

The following cost estimates, based upon the recommendations above, have been reduced to a unit cost basis based on the estimated drilling requirements. It will be noted that the direct drilling cost is somewhat higher than that obtained on the Colorado Plateau. This is due to several factors: it is a small job; experienced crews are not available locally; steel loss due to caving holes is high in this formation; and the terrain requires moving the drill with a cat. Further, so little is known of the habits of the ore that the aquisition of basic information such as the location of anomalies, adds appreciably to the cost of drilling. Engineering cost after this phase of exploration is completed should drop

to perhaps 10% of the budget. In our opinion, drilling cannot be intelligently done without the basic geologic and scintillometric mapping and some laboratory work ; and provision for this should be included in the estimate. It is estimated that 100 drill holes averaging 80 feet deep will explore shallow anomalies on the property, and the estimates are therefor based upon 8000 feet of total shallow drilling to arrive at unit cost items; shown in the following tabulation:

TABULATED ESTIMATE OF COSTS.

Application Item No.	Description of item	Est. total Cost	Unit cost, per ft. hole
6 A	Independent contracts	None	
6 B	Labor, supervision & consult.:		
	a. -Labor, 3 men @ $/hr., 40 hr. wk., 4 months	$3,840	$0.48
	b. -Supervision @ $500/mo., 4 mo.	2,000	0.25
	c. -Consultants & engrs.:		
	1. drilling layout, mapping & hole logging	1,200	0.15
	2. scintillometric survey, inc. 1 sq. mile, 300 ft. stations, detail geol., maps & isorad	2,775	0.346
	3. petrographic studies	500	0.063
	4. preparation & corelation of data	300	0.038
6 B	Total, labor, super. & cons.	$10,615	$1.327
6 C	Operating matls. & supplies:		
	1. steel bits, replacements	500	0.062
	2. Fuel & lub. oil	1,200	0.150
	3. misc. sm. tools, expendible	80	0.010
6 C	Operating matls. & supplies	$ 1,780	$0.223
	Forward to Page 11	$12,395	$1.550

TABULATED ESTIMATE OF COSTS, (CONTINUED):

Application Item No.	Description of item	Est. total Cost	Unit cost per ft. hole
-------	Forward from page 10	$12,395	$1.550
6 D	Operating equipment:		
	1- 500 cfm. compressor, rent-option, $608/mo., 4 mo.	2,432	0.304
	1-Wagon drill, rent-option, $175/mo., 4 mo.	700	0.088
	1-Jeep & hse. trlr. @ $125/mo, 4mo.	500	0.063
	1- D-4 tractor @$450/mo., 4 mo.	1,800	0.225
6 D	Total Operating Equipment	$ 5,432	$0.680
6 E	Rehabilitation & Repairs:	None	
6 F	New Buildings & Etc.	None	
6 G	Miscellaneous Expense:		
	Engineer, mileage & exp.	$ 350	$0.044
	Payroll taxes, Ind. Comp., 15% of payroll	876	0.110
	Accounting @ $100/mo, 4-mo.	400	0.050
	Maps: supplies & exp., prep. of	250	0.031
6 G	Total Miscellaneous Expense	$ 1,876	$0.235
6 H	Contingency: 15% of Items 1 to 6	$ 2,955	$0.370
Total Estimated Cost, Exploration Program:		$22,658	$2.83

Respectfully submitted,

KING & KING, by-

Dan M. King

Dan M. King

Clarence R. King

APPENDIX A.

LEGAL HISTORY OF TITLE & DOCUMENTS PERTAINING THERETO.

The original deed to the land, issued by the Southern Pacific Land Co. to L. J. Stillwell, is dated Feb. 24, 1931, and is recorded in Book 240, Page 351, Records of Kern County, at Bakersfield, Calif.

Copies of the lease from Stillwell to Joseph M. Gross, and its assignment to Joplin Machinery & Electric Co., are attached hereto. Copy of a subsequent assignment from Joplin Machinery & Electric Co. to Walter A. Martin is also attached hereto. Consents of the foregoing transfers of lease, signed by Stillwell and Gross, are also attached hereto.

Consents to leins, (Form MF-203), signed by all of the above parties, namely: Joseph M. Gross, Joplin Machinery & Electric Co., by J. V. Reynolds, Pres., L. J. Stillwell; and Walter A. Martin.

It appears, therefor, that Walter A. Martin is the lessee, by assignment, of Sec. 35, T 10 N, R 13 W, S.B.B.&M.; and that all persons involved in the chain of title have signed consents to lein, form MF-203.

The documents, or copies thereof, noted in the foregoing, are attached herewith as part of this appendix.

No.....

Mine Lease

L. J. STILLWELL

.....

To

JOSEPH M. GROSS

.....

Dated....., 19.....

ORDER No.....

When recorded, please mail this Instrument to

Joseph M. Gross
533 No. LaCienega
Los Angeles 48, Calif.

22058 RECORDED AT REQUEST OF Patch, Tannenbaum & Ross
MAY 13 1953 BOOK 2080 PAGE 250
AT 12 M
OFFICIAL RECORDS KERN COUNTY, CALIFORNIA
, RECORDER
DEPUTY RECORDER

6

22699

Mine Lease

This Indenture, *Made the* Fourth *day of* May, *19*53

Between L. J. Stillwell, residing at 2600 Romona Blvd., Los Angeles 33, California *Lessor*....,

And Joseph M. Gross, whose principal place of business is 533 N. LaCienega, Los Angeles 48, California *Lessee*....,

Witnesseth: *That the said Lessor...., for and in consideration of* Ten *dollars ($* 10.00 *), to ..... in hand paid, the receipt of which is hereby acknowledged, and in further consideration of the rents, royalties, covenants and agreements hereinafter reserved and by the said Lessee.... to be paid, kept and performed, that said Lessor..... has..... granted, demised and let, and by these presents does.... grant, demise and let, unto the said Lessee....., all the following described mine and mining property, situated in ..... Mining District, County of* Kern *of* State of California, *to-wit:*

Township 10 North Range 13 West SBM
All of Section 35 Kern County California

Together *with the appurtenances*

To Have and to Hold *unto the said Lessee.... for the term of* Ten Years *from date hereof, expiring at noon on the* Fourth *day of* May *19*63 *unless sooner forfeited or determined through the violation of any covenant hereinafter against the said tenant.....reserved.*

And in Consideration *of the said demise, the said Lessee.....does.....covenant and agree with said Lessor as follows:*

To pay said Lessor....the further sum of TWO THOUSAND - - - - - - - - - - -

($2,000.00) - Dollars

on the first day of each ....Year.... during the life of this lease, as a minimum royalty said first payment of Two Thousand Dollars ($2,000.00) to be due May 1st, 1954, and each year thereafter unless this lease is sooner quitclaimed by Lessee as hereinafter provided. Lessee shall have the right to renew this lease from year to year after its expiration date, provided Lessee pays to Lessor a minimum royalty each year of not less than Two Thousand ($2,000.00) Dollars per year starting May 4th, 1954, as above stated.

Lessor Shall be paid a royalty of Ten Percent (10%) of the net smelter return of all ore extracted and sold from the within described premises and said royalty shall be the sole and only consideration to the lessor herein, it being understood that said Ten Percent (10%) royalty shall equal at least Two Thousand ($2,000.00) Dollars per year starting May 4th, 1954.

To deliver to said Lessor...., ...his...agents or assigns, each and every month.... during the life of this lease, a full..account....of all ore, or products and bullion extracted from said premises.

To enter upon said mine or premises and work the same, mine fashion, in manner necessary to good and economical mining, so as to take out the greatest amount of ore possible, with due regard to the safety, development and preservation of the said premises as a workable mine, in accordance with governmental regulation and restriction.

~~To enter and mine said premises as aforesaid steadily and continuously from the date of this Lease and that any failure to work said premises with at least ....persons employed under ground for the space of.... consecutive days may be considered a violation of this covenant. To well and sufficiently timber said mine at all points where proper, in accordance with good mining and to repair all old timbering wherever it may become necessary.~~

To allow said Lessor....and....his.....agent to enter upon and into all parts of said mine for the purpose of inspection, with use of all passages, ropes, windlass, ladder-ways, and all other means of ingress and egress for such purpose.

~~To not assign this Lease, or any interest thereunder, and to not sublet the said premises, or any part thereof, without the written assent of said Lessor...., and to not allow any person or persons except the said Lessee.... and.... workmen to take or hold possession of said premises or any part thereof under any pretense whatever.~~

~~To occupy and hold all cross or parallel lodes, dips, spurs, feeders, crevices or mineral deposits of any kind, which may be discovered in working under this Lease, or in any tunnel run to intersect said ....lode, or by said Lessee.... or any person or persons under .... in any manner at any point within .... feet of the center line of said lode, as property of said Lessor....; with privilege to said Lessee.... of working the same, as an appurtenance of said demised premises, during the term of this Lease; and to not locate or record the same, or allow the same to be located or recorded, except in the name of the said Lessor....~~

To keep at all times the drifts, shafts, tunnels, and other passages and workings of said demised premises thoroughly drained and clear of loose rock and rubbish of all kinds, if demised premises are so operated.

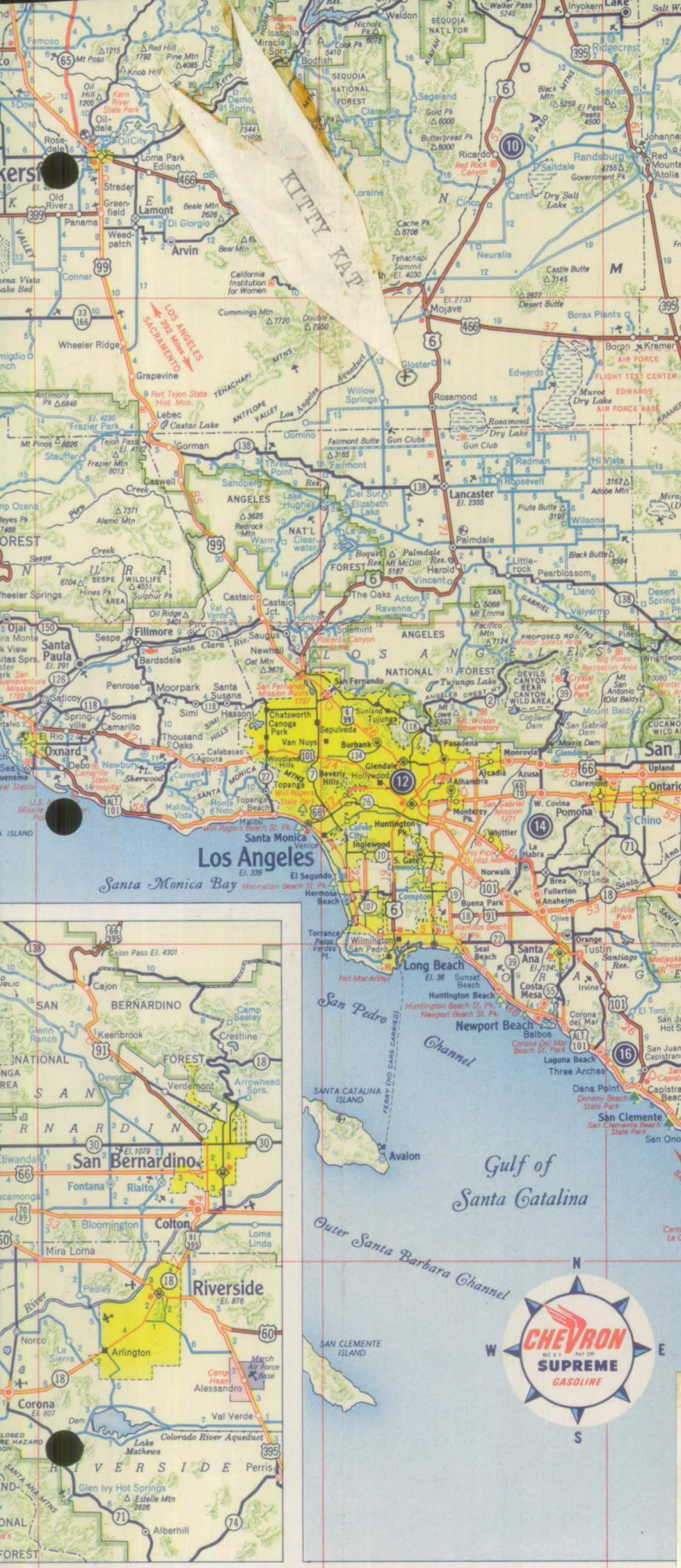
To deliver up to said Lessor.... the said premises, with the appurtenances and all improvements, if any, ...in good order and condition, with all shafts and tunnels and other passages thoroughly clear of rubbish and drained, and the mine in all points ready for immediate continued working (accidents not arising from negligence alone excusing), without demand or further notice, on said ....4st (Fourth)...day of May....1963...., at noon, or at any time previous, upon demand for forfeiture, except as herein elsewhere provided.

A grove of stately coast redwoods, favorite haunt of nature lovers, hikers; dedicated to John Muir, great California naturalist. Trees up to 17 feet in diameter at base

22 Golden Gate Bridge

At San Francisco are world's two greatest bridges: "Bay Bridge" excels in over-all length and depth of piers; Golden Gate Bridge in span length and tower height

To Sparks
To Fernley
Reno
Carson City
Sacramento
Stockton
Modesto
Merced
Fresno
Madera
Chowchilla
Los Banos
Turlock
Tracy
Lodi
Manteca
Oroville
Chico
Marysville
Yuba City
Auburn
Placerville
Roseville
Woodland
Davis
Gridley
Grass Valley
Nevada City
Watsonville
Gilroy
Hollister
San Jose
Livermore
Riverbank
Oakdale
Atwater
Dos Palos
Firebaugh
Coalinga
Hanford
Visalia
Porterville
Bishop
Mono Lake
Yosemite
Lake Tahoe
Carson Lake (Dry)
Walker Lake
Hawthorne
Fallon
Yerington
Bridgeport
Mammoth Lakes
Tonopah
Lone Pine
Independence
Big Pine
Bishop
Mono Inn
Mono Lake
Devil's Postpile National Monument
Kings Canyon National Park
Sierra National Forest
Stanislaus National Forest
Eldorado National Forest
Tahoe National Forest
Plumas National Forest
Toiyabe National Forest
Inyo National Forest
Sierra Nevada
Coast Range
Central Valley
Indian Res
Naval Ammunition Depot
Alkali Flat
Desert
Lahontan Res
Carson Lake (Dry)
Walker Lake
Mono Lake
Lake Tahoe
Lake Eleanor
Hetch Hetchy Res
Pine Flat Reservoir
Kerckhoff Res
Friant Dam
Millerton Lake Nat'l Rec. Area
Yosemite Falls
Half Dome
El Capitan
Mariposa Grove Giant Sequoias
Tuolumne Grove Giant Sequoias
Merced Grove Giant Sequoias
Calaveras Big Trees State Park
Sutter Buttes
Mt Shasta
Mt Lassen
Mt Hoffman
Mt Dana
Mt Conness
Mt Whitney
Mt Ritter
Mt Humphreys
Mt Goddard
Mt Henry
Mt Abbot
Mt Tom
Mt Morrison
Mt Dana
Mt Lyell
Mt Conness
Mt Hoffman
Mt Lola
Mt Rose
Mt Como
Mt Siegel
Mt Etna
Mt Patterson
Mt Jackson
Mt Bredemen
Mt Hicks
Mt Grant
Mt Wilson
Mt Olympus
Mt Tallac
Mt Ralston
Mt Lola
Mt Elwell
Mt Ingalls
Mt Knight
Mt Bullion
Mt Boardman
Mt Hamilton
Mt Stakes
Mt Madonna
Mt Oso
Mt Pleasant
Mt Tom
Mt Humphreys
Mt Goddard
Mt Henry
Mt Abbot
Mt Morrison
Mt Dana
Mt Lyell
Mt Conness
Mt Hoffman
Mt Whitney
Mt Ritter



MAP NO. 3

INDEX MAP - KITTY KAT

To Accompany Report By:
KING & KING - ENGRS
Whittier, Calif.

Lessee shall have the right to assign all or part of his interest in and to this lease without written permission of the Lessor. Lessee shall have the right to quitclaim this lease to the Lessor at anytime during the life of this lease and such quitclaim shall release and relieve said Lessee of all obligations or liabilities of any kind or nature.

Lessor agrees that Lessee may secure government aid in exploring and/or developing and/or operating the within described land and in this connection the Lessor agrees to subordinate his interest to such loans as the government may offer, give or allow, and Lessor agrees specifically in this connection to sign and execute Defense Minerals Administration forms MF201 and/or MF202 when requested.

It is the intention of the Lessee herein to explore the within described premises and may not do any actual mining before May 4, 1954, although Lessee is not limited so to do.

Nothing herein to the contrary, the within described premises shall be explored and operated subject to governmental regulation and restriction.

And finally, upon the violation by said Lessee...., or by any other person under him.....of any covenant or covenants hereinbefore reserved, the term of this Lease shall, at the option of said Lessor...., expire, and the same and said premises with the appurtenances shall become forfeit to said Lessor...., and said Lessor ....or.....his..... agent may thereupon, after demand of possession in writing, enter upon said premises and dispossess all persons occupying the same, with or without force, and with or without process of law, or at the option of said Lessor...., the said tenant and all persons found in occupancy may be proceeded against as trespassers from the beginning of said term, both as to realty and the ore served therefrom, or as guilty of unlawful detainer, providing Lessee or his assigns shall be given thirty (30) days notice of such violation by registered mail to the last known address of Lessee, which notice shall give thirty (30) days in which to cure such default or violation.

Each and every clause and covenant of **This Indenture** *shall extend to the heirs, executors and administrators of all parties hereto; and to the assigns of said Lessor...., and ~~as said Lessor.... may elect~~, to the assigns of said Lessee.....*

In Witness Whereof, *the said parties hereto, the Lessor...., and the Lessee...., have hereunto set their hands and seals this* Fifth *day of* May *1953*

L. J. Stillwell

Ellis A. Stillwell

Joseph M. Gross

Lou Schassler

Subscribed and sworn to before me this 5 day of May, 1953.

NOTARY PUBLIC IN AND FOR THE COUNTY OF LOS ANGELES, STATE OF CALIFORNIA.

My Commission Expires Dec. 25, 1956

STATE OF CALIFORNIA,
County of LOS ANGELES } ss.

BOOK 2090 PAGE 253

ON THIS 5th day of May, A.D., 19 53, before me,
C. H. SHATTLES
a Notary Public in and for said County and State, personally appeared
L. J. STILLWELL, EDITH D. STILLWELL AND JOSEPHINE GROSS
, known to me,
to be the person s whose name s are subscribed to the within Instrument, and acknowledged to me that they executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year in this certificate first above written.

C. H. Shattles
Notary Public in and for said County and State.

Edith D Stillwell
L. J. Stillwell also known as
Lawrence J Stillwell

STATE OF CALIFORNIA,
County of Los Angeles } ss.

ON THIS 10th day of July, A. D., 1953, before me,
a Notary Public in and for said County and State, personally appeared
L. J. Stillwell, also known as Lawrence J. Stillwell,
and Edith D. Stillwell, wife of L. J. Stillwell, known to me,
to be the person s whose name s are subscribed to the within Instrument, and acknowledged to me that they executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year in this certificate first above written.

Virginia Eckerly
Notary Public in and for said County and State.
My Commission Expires May 3, 1955

ACKNOWLEDGMENT — GENERAL — WOLCOTT'S FORM 232

53703

MF-203
(Revised July 1, 1954)

OWNER'S CONSENT TO LIEN

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

ALL OF SECTION #35 TOWNSHIP 10NORTH; RANGE 13 WEST SAN BERNARDINO BASE LINE & MERIDIAN , Situated near Rosamond, Calif.

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

2/ WALTER A. MARTIN

hereinafter called the "Operator"; and

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

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

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

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

1/ Either (a) insert the legal description of the land, or (b) strike out the words "as follows" and insert "in a lease [or contract, deed, or other document] dated _____, and recorded in book _____ page _____ official records of said county." If (b) is used, the book and page of recordation cannot be dispensed with. If the space provided is insufficient, use an Annex, and refer to the Annex in the space.

2/ Insert the name of the Operator as it will appear in the exploration project contract.

3/ Mining or production from the land is not required, and in the absence of production there is no obligation to repay the Government.

(OVER)

3. The undersigned shall commit no act nor assert any claim that may contravene or conflict with the lien, claim, or rights of the Government under the provisions of said contract. This agreement shall be binding upon the heirs, executors, administrators, successors, and assigns of the undersigned.

4. Changes and added provisions _____

_____

_____

_____

Dated this 29 day of December, 1954.

L. J. Stillwell [Seal]

_____ [Seal]

_____ [Seal]

ASSIGNMENT OF LEASE

THIS AGREEMENT, made and entered into as of this 20th day of July, 1954, by and between JOSEPH M. GROSS, of 533 North LaCienega, Los Angeles, 48, California, hereinafter called ASSIGNOR; and JOPLIN MACHINERY AND ELECTRIC COMPANY, a Missour Corporation, of Joplin, Missouri, hereinafter called ASSIGNEE:

WITNESSETH:

WHEREAS, the said Assignor is the Lessee under that certain Mining Lease dated the fourth day of May, 1953, in which said Mining Lease L. J. STILLWELL, of 2600 Romona Boulevard, Los Angeles, 33, California, is designated as Lessor, and which said Mining Lease covers the following described mine and mining property, situated in the County of Kern, State of California, to-wit:

Township 10 North Range 13 West SBM
All of Section 35 Kern County California

and which said Lease is recorded in the official records of Kern County, California, in Book 2080, page 250, a copy of said Mining Lease being hereto attached and hereby made a part hereof; and

WHEREAS, Assignor is desirous of assigning to the said Assignee the aforementioned Mining Lease; and

WHEREAS, said Assignee is desirous of purchasing said Mining Lease under certain terms and conditions;

NOW, THEREFORE, in consideration of the sum of TEN DOLLARS ($10.00), and other good and valuable considerations

as hereinafter set forth, receipt and sufficiency of which is hereby acknowledged, the said Assignor does hereby set over, assign, transfer, and sell to the said Assignee the hereinabove mentioned and described Mining Lease, subject to all of the terms, agreements, and stipulations therein contained, and subject further to the stipulations hereinafter set forth.

Assignor shall be paid a royalty of five per cent (5%) of the net smelter return of all ore extracted and sold from the within described premises, said royalties to be payable monthly on or before the twentieth day of the month next following the receipt by Assignee of payment for the products sold or disposed of. Said royalties are payable to Assignor at 533 North LaCienega, Los Angeles, 48, California. Assignor may at his option require that royalties due under the terms of this agreement be deducted at the market where sold and paid directly to Assignor, and that each payment be accompanied by a settlement sheet.

Notwithstanding any of the provisions of the Lease being assigned, the Assignee agrees to start prospecting, drilling, or exploration work on or before August 31, 1954, and carry on such exploration operations in good faith until such time that the Assignee has determined that there are no ores in commercial quantities to be found on the premises; in the event ore is found in commercial quantities, Assignee agrees to begin mining operations immediately and to continue to conduct such mining operations in a workman-like and efficient manner so long as ore can be produced in commercial

quantities to the advantage of all parties to this instrument; in the event Assignee fails to begin operations upon termination of drilling and/or exploration operations, or if the ore has been discovered in commercial quantities, for a period of sixty days, then Assignee will surrender the premises to Assignor and this Assignment will be considered terminated.

The Assignee shall have the right to terminate this Assignment or any obligation hereunder, either to the Assignor or the Lessor, L. J. Stillwell, upon giving sixty days notice in writing of such intention to terminate to the Assignor at his address as set out herein, without further obligation except to pay all production royalties due at the time of termination set forth in said notice; in the event such notice to terminate, however, is given after March 1, 1955, but before May 1, 1955, the Assignee hereby agrees to pay the $2,000.00 minimum royalty called for by the Lease for the year 1955 to the Lessor, L. J. Stillwell, and to remove all of its equipment from said premises not later than ninety days from the date of such notice to terminate. All of the provisions of this paragraph shall apply to any notice to terminate if given in successive years after the year 1955.

Assignor agrees that, if such notice to terminate as set forth in the preceding paragraph is given, he will immediately assume and carry out the terms of the Mining Lease hereby assigned.

Assignee agrees to conduct all prospecting, drilling, exploration work, and/or mining operations on the premises in a workman-like manner in accordance with the laws and regulations

of the State of California and to save the Assignor or the Lessor, L. J. Stillwell, harmless as a result of its failure to do so.

Each and every clause and covenant of this agreement shall extend to the successors, heirs, executors, and administrators of all parties hereto and to the assigns of this Assignee.

Assignor hereby warrants that the title to the premises and Mining Lease above described is free and clear of all liens and encumbrances and agrees to defend said title against any adverse claims.

Assignee will supply Assignor with a copy of all maps prepared by Assignee and drill logs on all prospect holes drilled.

IN WITNESS WHEREOF the said parties hereto, the Assignor and his wife, and the Assignee, have hereunto set their hands and seals on the day and year first above written.

Joseph M. Gross
JOSEPH M. GROSS

Florence Gross
Wife of JOSEPH M. GROSS

JOPLIN MACHINERY AND ELECTRIC COMPANY
A Missouri Corporation

By: J. W. Rymer
President

STATE OF CALIFORNIA }
County of Los Angeles } ss.

On this 22nd day of July, A.D., 1954, before me, Helen M. Tutt, a Notary Public in and for said County and State, personally appeared JOSEPH M. GROSS and Florence Gross, known to me to be the persons whose names are subscribed to the within Instrument,

and acknowledged to me that they executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year in this certificate first above written.

Helen M Tutt
Notary Public in and for said County and State

My Commission Expires May 16, 1958

STATE OF New Mexico
County of Bernalillo } ss.

On this 20 day of July, 1954, before me, J. H. Mitchener, a Notary Public in and for said County and State, residing therein, duly commissioned and sworn, personally appeared J. V. REYNOLDS, known to me to be the President of JOPLIN MACHINERY AND ELECTRIC COMPANY, and executed the within instrument on behalf of the Corporation herein named, and acknowledged to me that such Corporation executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year in this certificate first above written.

J. H. Mitchener
Notary Public

My commission expires 9/18/56

July 22, 1954

Joplin Machinery and Electric Co.
Joplin, Missouri

Attention: Mr. J. V. Reynolds

Gentlemen:

Confirming our conversation of even date, it is understood in connection with Assignment of Uranium Lease made to you this day that in the event you ever desire to terminate said Mining Lease, you will re-assign same or quitclaim same to me.

It is also understood that in connection with the above mentioned matter you will bear me harmless for any claims made against me by Ross Fitch relative to this deal.

Sincerely,

Joseph M. Gross

jmg/ht

Joseph M. Gross

Understood

Joplin Machy & Elec Co

per J. V. Reynolds Pres

MF-203
(Revised July 1, 1954)

OWNER'S CONSENT TO LIEN

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

ALL OF SECTION 35; TOWNSHIP 10 NORTH; RANGE 13 WEST
SAN BERNARDINO BASE LINE & MERIDIAN, Situated near Rodamond, CAlif

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

2/ _____

hereinafter called the "Operator"; and

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

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

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

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

1/ Either (a) insert the legal description of the land, or (b) strike out the words "as follows" and insert "in a lease [or contract, deed, or other document] dated _____, and recorded in book _____ page _____ official records of said county." If (b) is used, the book and page of recordation cannot be dispensed with. If the space provided is insufficient, use an Annex, and refer to the Annex in the space.

2/ Insert the name of the Operator as it will appear in the exploration project contract.

3/ Mining or production from the land is not required, and in the absence of production there is no obligation to repay the Government.

(OVER)

3. The undersigned shall commit no act nor assert any claim that may contravene or con flict with the lien, claim, or rights of the Government under the provisions of said contract This agreement shall be binding upon the heirs, executors, administrators, successors, and assign of the undersigned.

4. Changes and added provisions _____

_____

_____

_____

Dated this 28 day of December, 195 4.

Joseph M Gross [Seal]

_____ [Seal]

_____ [Seal]

STATE OF CALIFORNIA
COUNTY OF
Los Angeles } SS.

On December 28, 1954, before me, the undersigned, a Notary Public in and for said County and State, personally appeared Joseph M Gross

known to me to be the person whose name is subscribed to the within instrument and acknowledged that he executed the same.

WITNESS my hand and official seal.

(Seal) Helen M Zutt
Notary Public in and for said County and State.

My Commission Expires May 16, 1958

Form 523 7-48 (Individual)

55081

ASSIGNMENT

WHEREAS, a certain Indenture, entitled "Mining Lease," dated May 4, 1953, was entered into by and between L.J. Stillwell, of 2600 Romona Boulevard, Los Angeles 33, California, in said Indenture called "Lessor," and James M. Gross, of 533 N. LaCienega, Los Angeles 48, California, in said Indenture called "Lessee," recorded in the official records of Kern County, California in Book 2080, page 250; and

WHEREAS, another Indenture, entitled "Assignment of Lease," dated July 20, 1954, was entered into by and between the said James M. Gross, in said Indenture called "Assignor," and Joplin Machinery and Electric Company, a Missouri corporation, of Joplin, Missouri, in said Indenture called "Assignee," recorded in the official records of Kern County, California in Book 2283 page 164; and

WHEREAS, said mining lease and assignment of lease cover the following mine and mining property, to wit:

All of Section 35, Township 10 North, Range 13 West, SBM, Kern County, California.

NOW, THEREFORE, for and in consideration of the sum of Ten Dollars ($10.00) and other good and valuable considerations, the receipt and sufficiency of which is hereby acknowledged, the undersigned Joplin Machinery and Electric Company, a Missouri corporation, hereinafter called "Assignor," does hereby sell, assign, transfer and set over to WALTER A. MARTIN, of Sarasota, Florida, hereinafter called "Assignee," all and singular the hereditaments, premises, lands and claims described in and demised by the aforementioned mining lease and assignment of lease, for the residue of the term thereby created, and any extension thereof, TO HAVE AND TO HOLD the same to the Assignee, subject to the payment of the royalties and overriding royalties, and the performance of the covenants, conditions and stipulations to be performed by the Lessee in the above described mining lease, and by the Assignee in the above described Assignment of Lease; and the Assignee hereby covenants with the Assignor to keep it, its successors and assigns, indemnified against the said royalties and overriding royalties, covenants, conditions and stipulations, and all actions, proceedings, claims and expenses in respect thereof.

And the Assignor hereby covenants and agrees with the Assignee that the Assignor has not assigned, given, granted, bargained, sold, subleased, or encumbered the premises, lands and claims herein assigned, in any manner whatsoever.

Further, the parties hereto agree that the covenants and agreements herein contained shall be binding upon and shall inure to the benefit of the parties hereto, their respective successors, assigns, heirs, devisees and personal representatives.

IN WITNESS WHEREOF, the parties hereto have set their hands and affixed their seals, the day and year first above written.

JOPLIN MACHINERY AND ELECTRIC COMPANY

By J V Reynolds
President

Assignor

Walter A. Martin
Assignee

STATE OF NEW MEXICO)
) SS
County of Bernalillo)

On this 28th day of September, 1954, before me, J.G. Whitehouse, a Notary public in and for said County and State, residing therein, duly commissioned and sworn, personally appeared J.V. Reynolds, known to me to be the President of JOPLIN MACHINERY & ELECTRIC COMPANY, and executed the within instrument on behalf of the corporation herein named, and acknowledged to me that such corporation executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year in this certificate first above written.

J.G. Whitehouse
Notary Public

My Commission Expires: 9/18/56

BOOK 2308 PAGE 342

STATE OF Florida)
COUNTY OF Sarasota) SS

On this 20 day of September, 1954, before me, a Notary Public in and for the said County and State, personally appeared WALTER A. MARTIN, to me known to be the person whose name is subscribed to the above and foregoing instrument, and who acknowledged that he executed said instrument of his own free act and deed.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year first above written.

GERALDINE D. RIEGEL NOTARY PUBLIC STATE OF FLORIDA AT LARGE

Geraldine D. Riegel
Notary Public

My Commission Expires: Notary Public, State of Florida at Large
My commission expires Nov. 4, 1956

55081
RECORDED AT REQUEST OF
Walter A. Martin
OCT 22 1954
At 29 min. past 2 P. M.
in Book 2308 of Official Records
Page 340 Kern County Records
Chas. H. Thomate
Recorder
By Alice Nelson
Deputy Recorder

2/8/2.00
CO
2.10

Verified and compared: CHAS. H. THOMATE, County Recorder, By [illegible] Deputy

I, Chas. H. Shomate, County Recorder of said County, do hereby certify that the annexed is a whole true and correct copy of an original as will appear by reference to Book 2308 of Official Records Page 340 now in my office, and that said copy has been compared with original and is a correct transcript therefrom.

Witness my hand and official seal this 28th day of December A. D. 1954

Chas. H. Shomate, Recorder

In and for the County of Kern, California

By Ada Smith

Deputy

MF-203
(Revised July 1, 1954)

OWNER'S CONSENT TO LIEN

WHEREAS, the undersigned, as owner, co-owner, lessor, or seller has an interest in certain property in the State of CALIFORNIA, County of KERN, described as follows:1/ ALL OF SECTION #35 TOWNSHIP 10 NORTH; RANGE 13 WEST SAN BERNARDINO BASE LINE & MERIDIAN, Situated near Rosamond, Calif

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

2/ WALTER A. MARTIN

hereinafter called the "Operator"; and

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

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

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

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

1/ Either (a) insert the legal description of the land, or (b) strike out the words "as follows" and insert "in a lease [or contract, deed, or other document] dated _____, and recorded in book _____ page _____ official records of said county." If (b) is used, the book and page of recordation cannot be dispensed with. If the space provided is insufficient, use an Annex, and refer to the Annex in the space.

2/ Insert the name of the Operator as it will appear in the exploration project contract.

3/ Mining or production from the land is not required, and in the absence of production there is no obligation to repay the Government.

(OVER)

3. The undersigned shall commit no act nor assert any claim that may contravene or conflict with the lien, claim, or rights of the Government under the provisions of said contract. This agreement shall be binding upon the heirs, executors, administrators, successors, and assigns of the undersigned.

4. Changes and added provisions_____

_____

_____

_____

Dated this 30 day of Dec, 1951.

_____ [Seal]

_____ [Seal]

_____ [Seal]

STILLWELL'S AUTO HOTEL

2600 RAMONA BOULEVARD
LOS ANGELES 33, CALIF.
•
ANGELUS 1-3156

Mr Walter A. Martin
525 Freeling Avenue
Sarasota, Florida

Dear Mr Martin;

This is to approve the transfer of a mining lease to you from the Joplin Machinery and Electric Co., of Joplin Missouri, subject tothe following conditions:

1. That you secure my approval of the terms and condition of a DMEA Exploration Loan, which you are applying for prior to signing any contract for same.

2. I enclose herewith a signed consent to lein for said loan.

3. That in the event you do not secure my approval for said loan prior to signing contract for same, that you hereby agree to pay the net balance due of said loan upon surrendering the lease upon this property.

Walter A. Martin

Lawrence J. Stillwell

Lawrence J Stillwell
Dec. 29, 1954

Please sign and return one copy of this signifying your approval.

JOSEPH M. GROSS
533 NO. LA CIENEGA BLVD.
LOS ANGELES 48
BRADSHAW 2-7267

KNOW ALL MEN BY THESE PRESENTS:

I hereby approve the Assignment of Mining Lease from the Joplin Machinery and Electric Company to Walter A. Martin, recorded in Book 2308, Page 340, Kern County, October 22, 1954, 2:00 P.M..

Joseph M. Gross
JOSEPH M. GROSS

Dec 27th **1954**

Form 523 7-48 (Individual)

STATE OF CALIFORNIA
COUNTY OF
Los Angeles } SS.

On December 27, 1954, before me, the undersigned, a Notary Public in and for said County and State, personally appeared Joseph M Gross

known to me to be the person whose name is subscribed to the within instrument and acknowledged that he executed the same.

WITNESS my hand and official seal.

(Seal) Helen M Tuttle
Notary Public in and for said County and State.

My Commission Expires May 16, 1958

APPENDIX B.

EXPERIENCE AND QUALIFICATIONS OF APPLICANT.

Section 5 D of Application: Operating experience and background of applicant with relation to the ability to carry out such exploration project, and also that of the person or persons who will supervise the operation.

Mr. Walter A. Martin, the applicant, is experienced in the operation of mines, having been the owner-operator of three properties in the period 1941-1947. These operations included underground mining, strip mining, and concentration plants engaged in the production of lead and zinc concentrates in the Joplin, Missouri district. In addition, Mr. Martin is presently operating two properties producing uranium ore, in the Grants district, New Mexico. Mr. Martin's bank references are as follows: Palmer First National Bank & Trust Co., Sarasota, Fla.; Grants State Bank, Grants, N.M.; and the Security Frist National Bank, & Trust Co., La Jolla, Calif.

All engineering will be furnished by King & King, Mining Engineers, of Whittier, Calif. References as to their technical qualifications are: Dr. O.C. Ralston, U.S. Bureau of Mines, Washington, D.C.; Mr. L.A. Norman, Supervising Mining Geologist, California State Division of Mines, Ferry Bldg., San Francisco, Calif.; Mr. T.O. Evans, Manager, Haystack Mountain Development Co., Grants, N.M.; and Mr. E.D. Arthur, Mining Commissioner, Los Angeles Chamber of Commerce, Los Angeles, Calif.

KING & KING

MINING ENGINEERS

CLARENCE R. KING
7648 BOLSA RD.
MIDWAY CITY, CALIF.
WESTMINSTER 8272

DAN M. KING
11762 MINES BLVD.
WHITTIER, CALIF.
OXFORD 44361

APPENDIX C.

LABORATORY CERTIFICATE

ORE-DRESSING LABORATORY
7648 BOLSA RD., MIDWAY CITY, CALIF.

Lab. No.: W. A. Martin

Date: Dec. 3, 1954

Sample: Radiometric Drill Hole Logs

Marked: Not Standard

Submitted by: W. A. Martin

Approximately one week after drilling, each drill hole was logged by use of a P. R. I. drill-hole Gieger counter equipped with a 100 foot probe extension and probe. The counter probe was standardized frequently against the standard described below.

A standard was constructed by making up a steel cylinder 14" diameter by 18" high. A steel bottom containing a centrally located hole of the same size as the wagon drill holes was welded to the cylinder. A pipe of the same outside diameter as the hole was then inserted in the hole in the bottom of the cylinder to act as a form, and the cylinder filled with crushed standard ore described below, ramming the ore-water-glue mixture tightly while filling the cylinder. A steel top identical with the bottom was then welded to the cylinder, and the central pipe used as a form withdrawn. The mass of crushed ore and binder was then baked at about 180°F to dry and set the mixture.

The standard ore used was about 250 lbs. dug from a prospect hole on the property. The ore was crushed to - 1/2", mixed, and a 1/4 fraction taken as a sample by coning and quartering. This fraction was crushed to -8 mesh, mixed, and four - 8 oz. samples cut out over a Jones riffle. These were ground to -20 mesh, mixed, and split into duplicate 4 oz. pulps for assay. All rejects from the sample splitting were returned to the - 1/2" material, the mass mixed, about 10% by weight of water containing a pint of casein glue added, the whole thoroughly mixed, and rammed into the cylinder.

Assay of the standard sample by Ed. Eisenhauer, jr., of Los Angeles, Cal. was: by radiometric assay: 0.30% U_3O_8
by chemical detn. . . . 0.28% U_3O_8

In logging the holes, a curve was drawn in the field from the background reading as equal to zero to the probe reading when centered in the standard as equal to 0.28%. Readings in the drill holes reduced to percent U_3O_8 by use of the curve were plotted as to location on the drill logs. Holes were logged every two feet or closer as indicated by radioactivity, allowing one minute at each position of the probe. Results are tabulated on following pages.

This certificate is a part of the specific investigation to which it is attached, and the data herein presented bear only upon the specific recommendations made in the report to which this sheet is attached. The data herein are not intended for use in advertising or publicity matter except with our written approval and as part of a complete report.

EXAMINATION • EVALUATION • PLANT DESIGN • MANAGEMENT

KING & KING

MINING ENGINEERS

CLARENCE R. KING
7648 BOLSA RD.
MIDWAY CITY, CALIF.
WESTMINSTER 8272

DAN M. KING
11762 MINES BLVD.
WHITTIER, CALIF.
OXFORD 44361

APPENDIX C : PAGE 2

LABORATORY CERTIFICATE

ORE-DRESSING LABORATORY
7648 BOLSA RD., MIDWAY CITY, CALIF.

Lab. No.: Date:

Sample: Marked:

Submitted by:

Hole No.		Hole Section Feet	See page 1 Reading, (x1 scale)	Est. % U_3O_8	Ore thickness, Feet
1		Blank			
2		17 - 19	0.045	0.026	3.0
3		5 -7.5	0.043	0.022	2.5
		21 -23	0.045	0.026	3.0
4		31 -32	0.080	0.052	2.0
5		are -8	0.080	0.052	1.0
	ore	8.5 -10.5	0.145	0.220	2.0
		at - 11	0.085	0.052	1.0
		15 - 17	0.045	0.026	2.0
6		4 - 10	0.045	0.026	6.0
7		3 - 5	0.050	0.036	3.0
		25 - 27	0.050	0.036	3.0
8		Blank			
9		Blank			
10		Blank			
11		20 - 21	0.100	0.124	2.0
12		14.5 - 15.5	0.080	0.052	1.0
13		Trace @ 10'			
14		Blank			
15	ore	14.5-15.5	0.120	0.160	1.0
		15.5-22.0	0.063	0.052	6.5
16		4 - 8	0.077	0.052	5.0
17		11.5-13.5	0.075	0.036	3.0
18		at-14	0.060	0.050	1.0
19		11 - 17	0.060	0.052	6.0
20		Trace @ 9'			
21	ore	0 - 3	0.13	0.178	3.0
		5.5-6.5	0.085	0.096	1.0
22		8 - 11	0.063	0.050	3.0
23		Blank			
24		Blank			
25	ore	10 - 11	0.120	0.160	2.0
26		Trace @ 14'			

This certificate is a part of the specific investigation to which it is attached, and the data herein presented bear only upon the specific recommendations made in the report to which this sheet is attached. The data herein are not intended for use in advertising or publicity matter except with our written approval and as part of a complete report.

KING & KING

MINING ENGINEERS

CLARENCE R. KING
7648 BOLSA RD.
MIDWAY CITY, CALIF.
WESTMINSTER 8272

DAN M. KING
11762 MINES BLVD.
WHITTIER, CALIF.
OXFORD 44361

APPENDIX C: PAGE 3

LABORATORY CERTIFICATE

ORE-DRESSING LABORATORY
7648 BOLSA RD., MIDWAY CITY, CALIF.

Lab. No.: Date:

Sample: Marked:

Submitted by:

See Page 1

Hole No.	Hole Section, Feet	Reading, (x1 scale)	Est. % U_3O_8	Ore thickness, Feet.
27 ore	22 - 23	0.135	0.184	2.0
	26 - 27	0.050	0.035	2.0
28	Traces @ 13'			
	Traces @ 38'			
29 ore?	9-10	0.107	0.136	2.0
ore	10-12	0.42 plus	0.533	2.0
ore?	12-14	0.107	0.136	2.0
30	Blank			
31	Blank			
32	Blank			

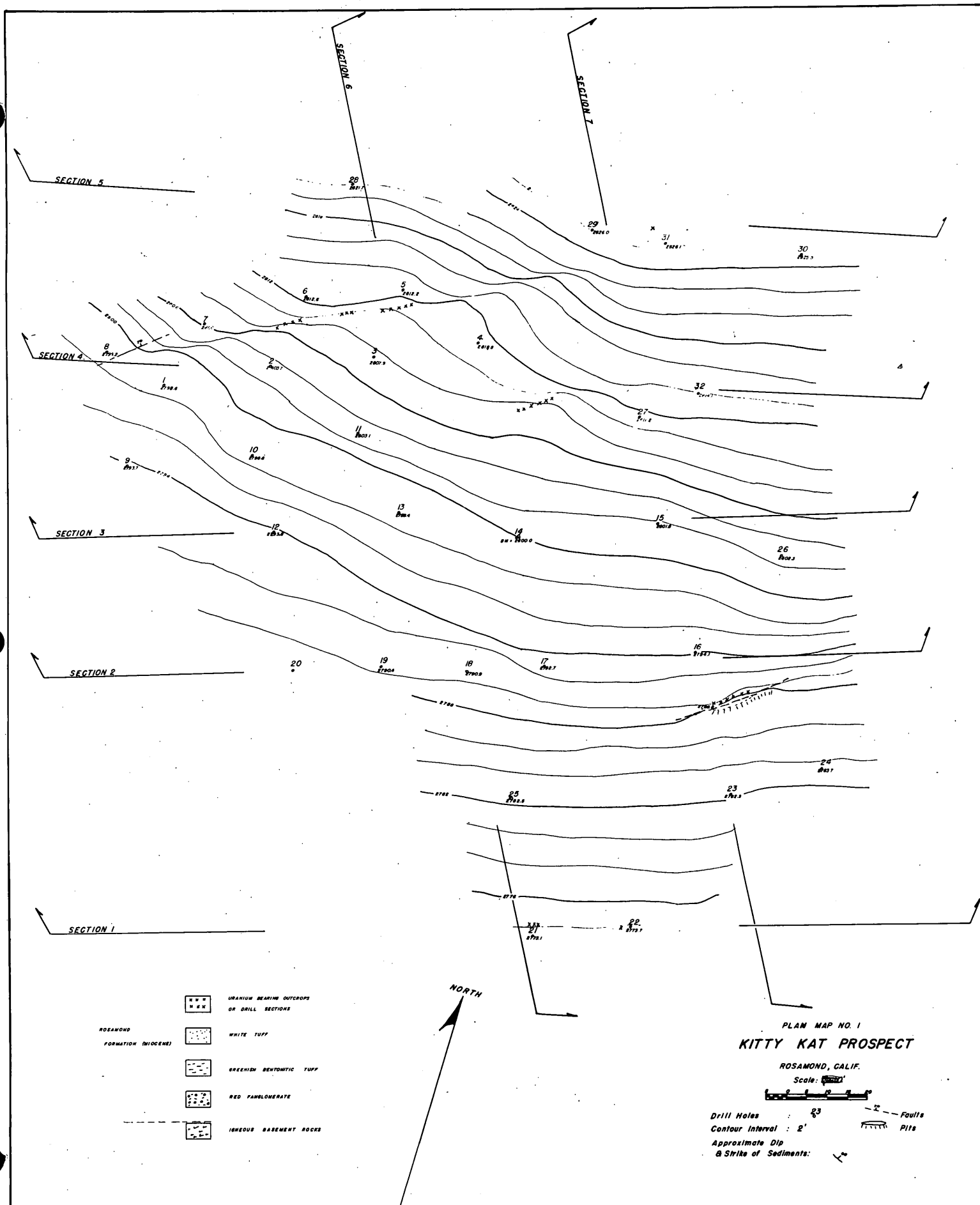
This appendix consists of a total of three pages; page one being a description of method of arriving at uranium oxide content of the radiometric parts of the drill holes; pages two and three are detailed logs of those portions of the drill holes that are radiometric.

KING & KING, by-

Dan M. King

Dan. M. King

This certificate is a part of the specific investigation to which it is attached, and the data herein presented bear only upon the specific recommendations made in the report to which this sheet is attached. The data herein are not intended for use in advertising or publicity matter except with our written approval and as part of a complete report.



PLAN MAP NO. 1

KITTY KAT PROSPECT

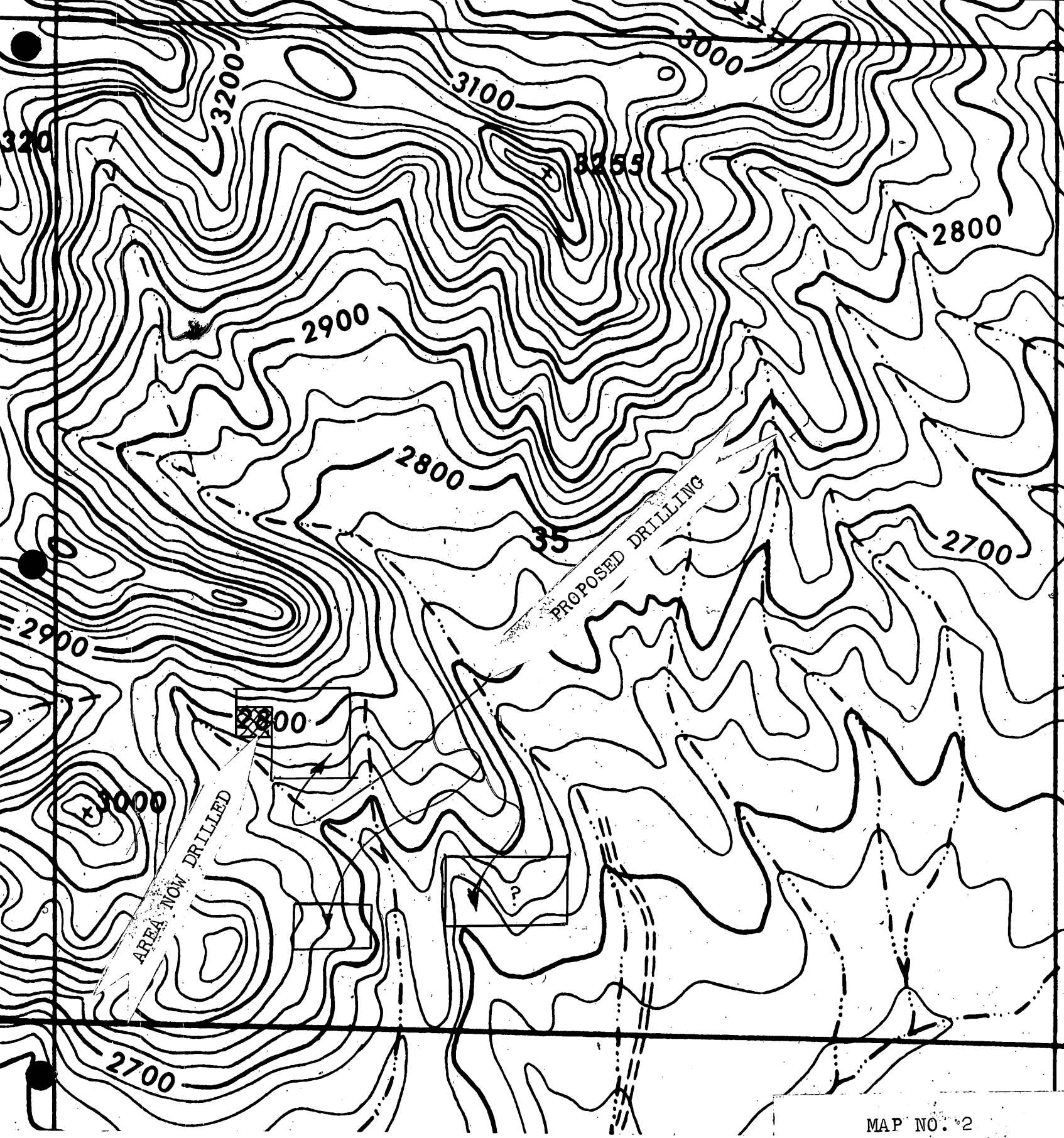
ROSAMOND, CALIF.

Scale:

TO ACCOMPANY REPORT BY

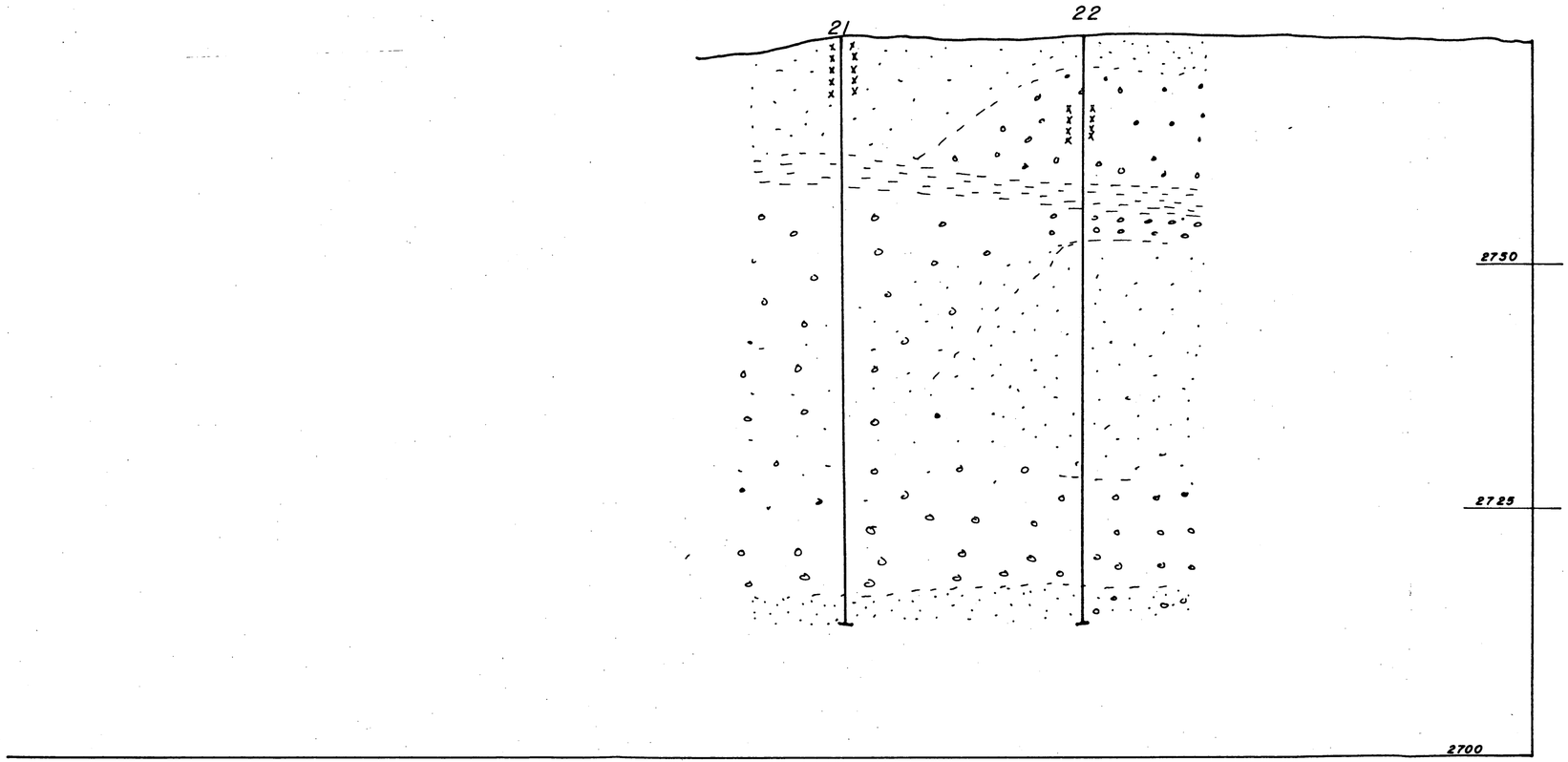
KING & KING ~ ENGRS

WHITTIER, CALIF. D.M. KING



MAP NO. 2

TOPOGRAPHIC MAP OF
SECTION 35

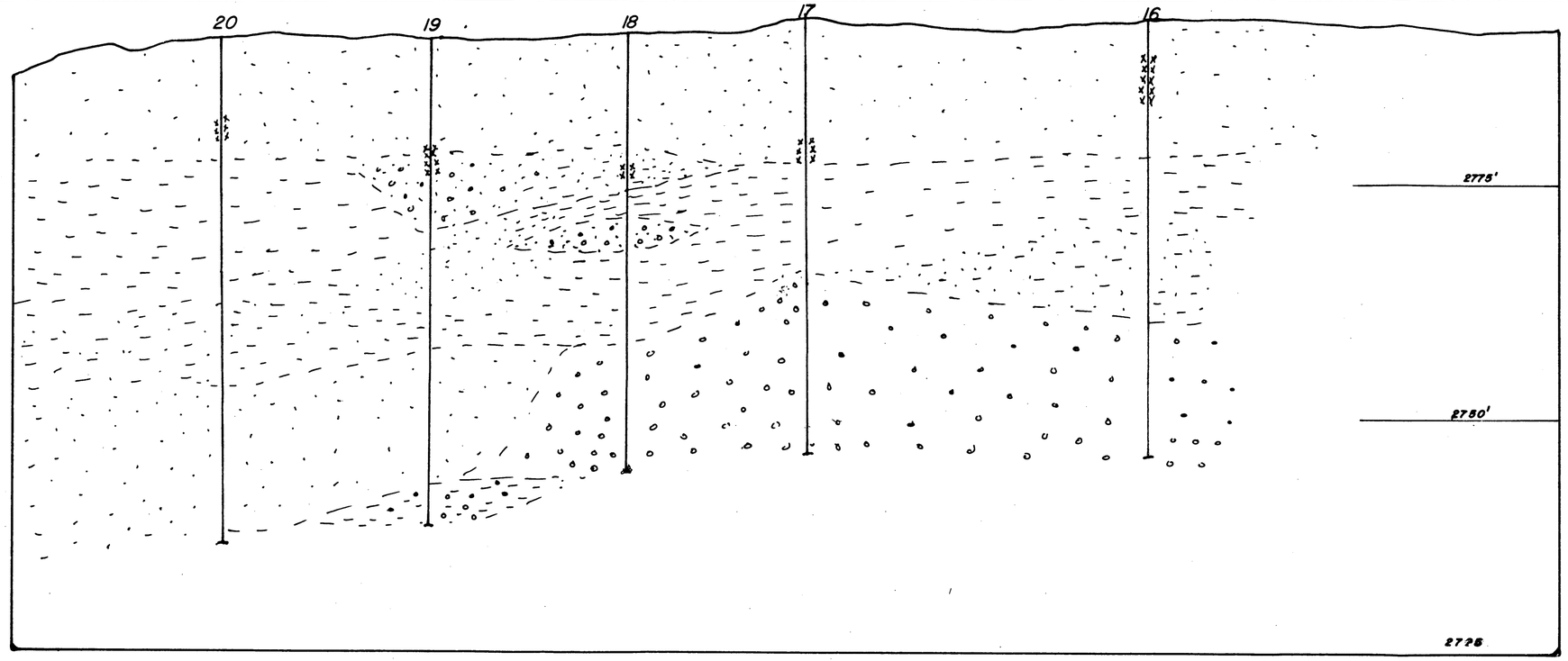


SECTION 1

KITTY KAT PROSPECT

SCALE: 1" = 10'

KING & KING ~ ENGRS

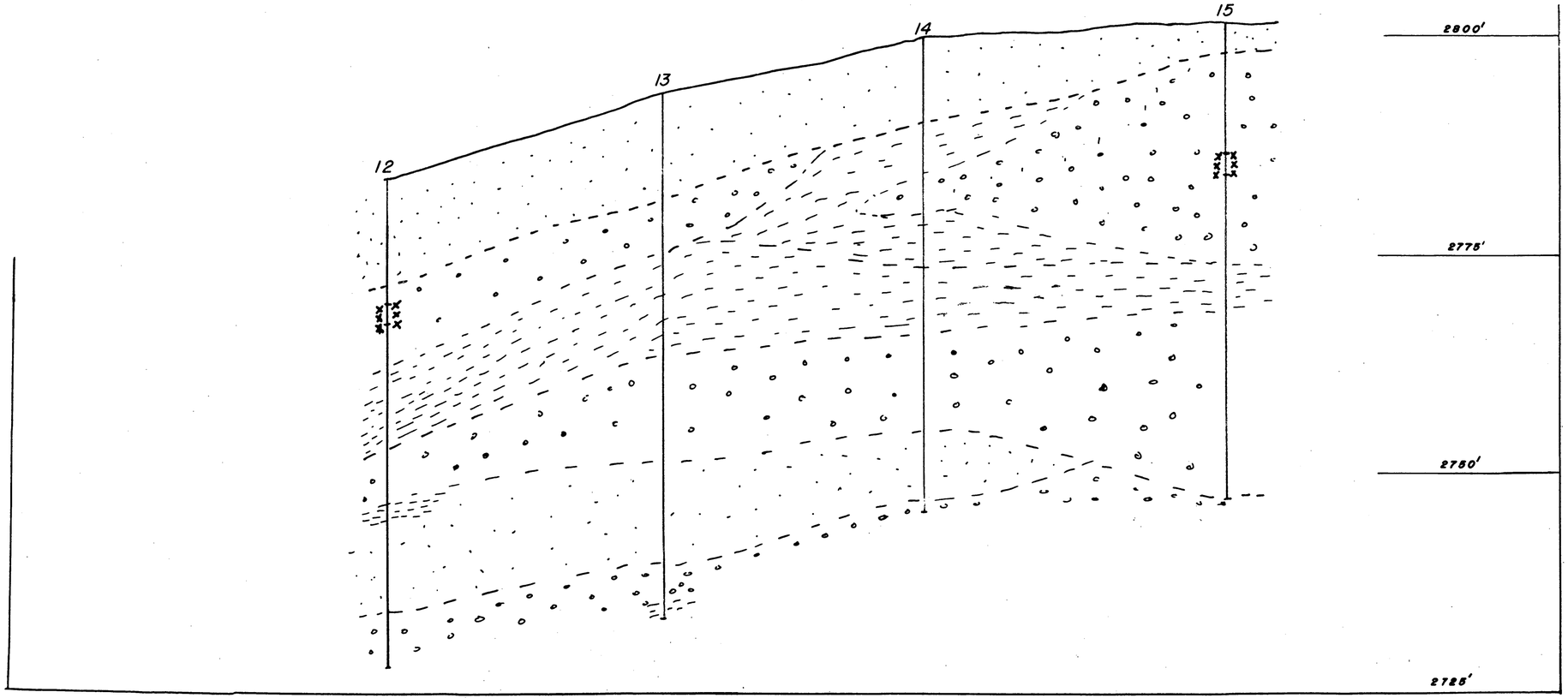


SECTION 2

KITTY KAT PROSPECT

Scale: 1" = 10'

KING & KING ~ ENGRS

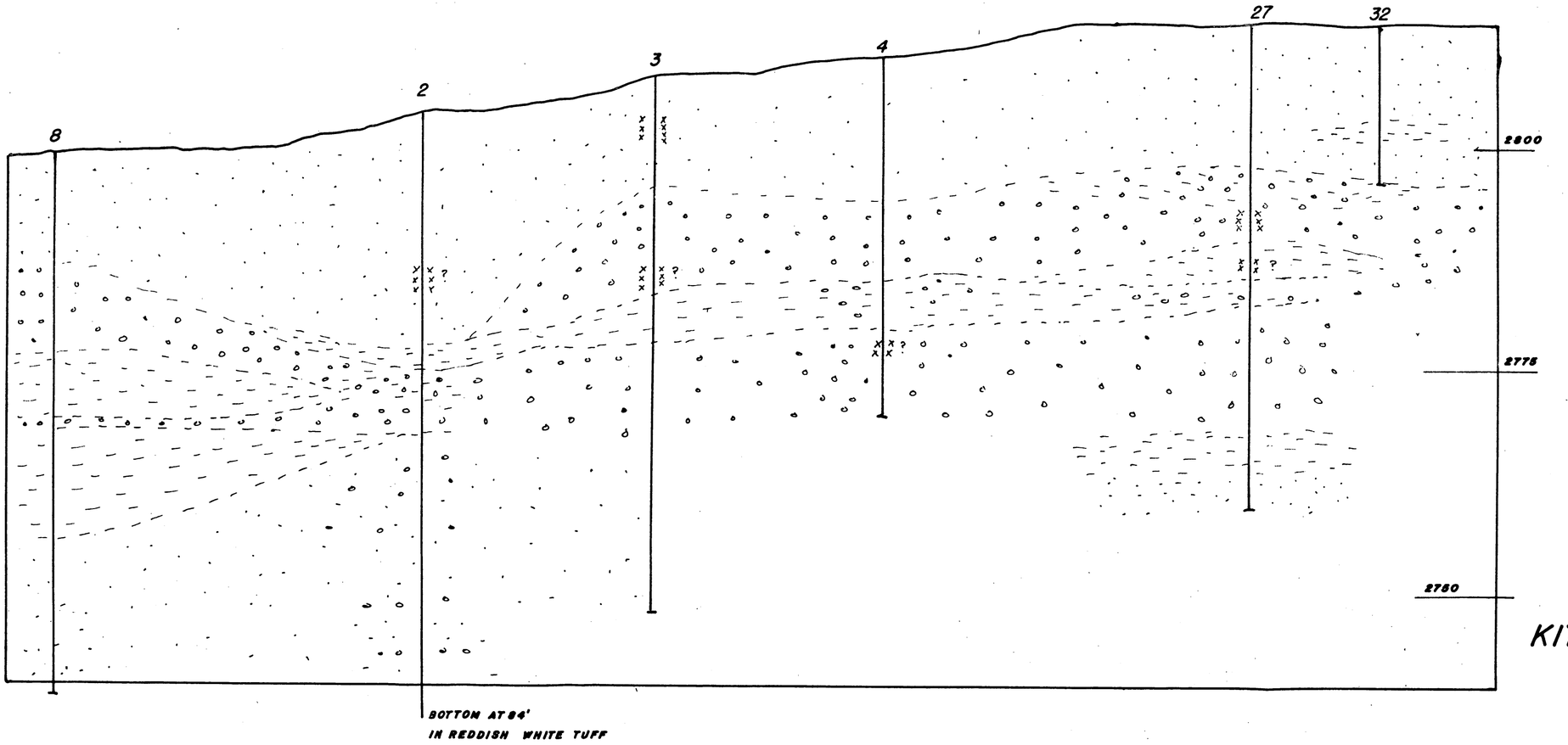


SECTION 3

KITTY KAT PROSPECT

SCALE: 1" = 10'

KING & KING ENGRS

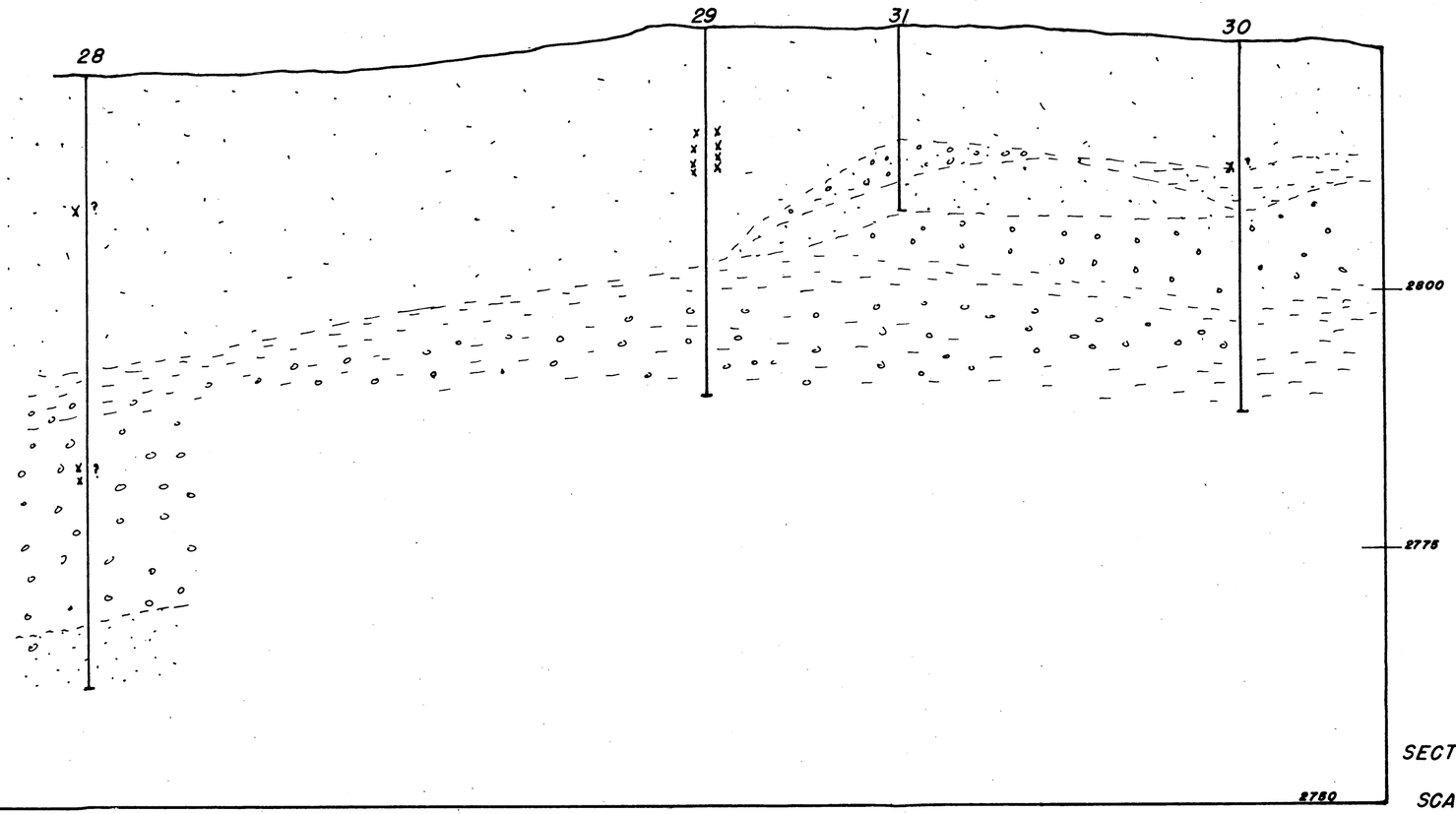


SECTION 4

KITTY KAT PROSPECT

SCALE: 1" = 10'

KING & KING ~ ENGRS.

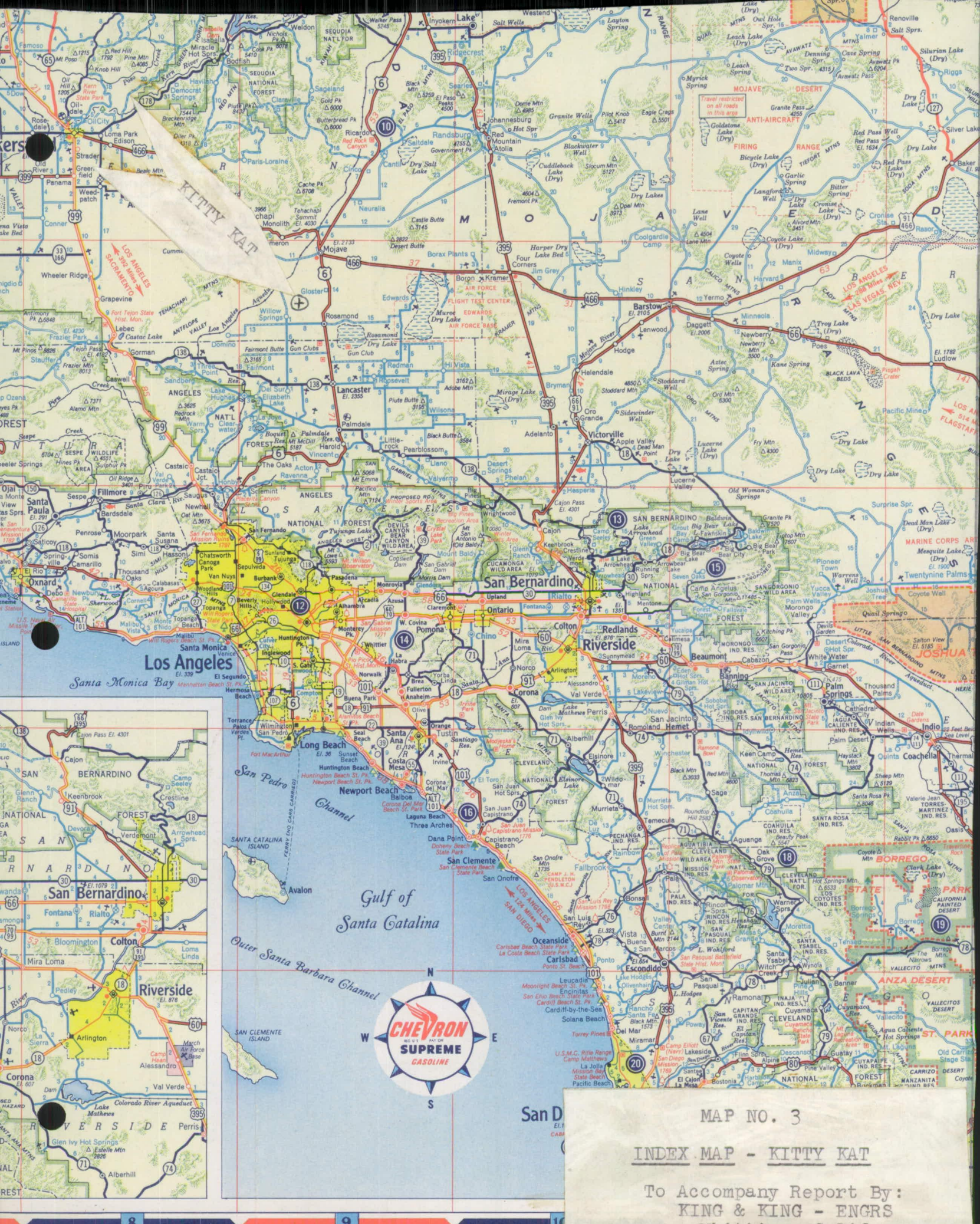


SECTION 5

SCALE: 1" = 10'

KITTY KAT PROSPECT

KING & KING ~ ENGRS



MAP NO. 3

INDEX MAP - KITTY KAT

To Accompany Report By:
KING & KING - ENGRS
Whittier, Calif.

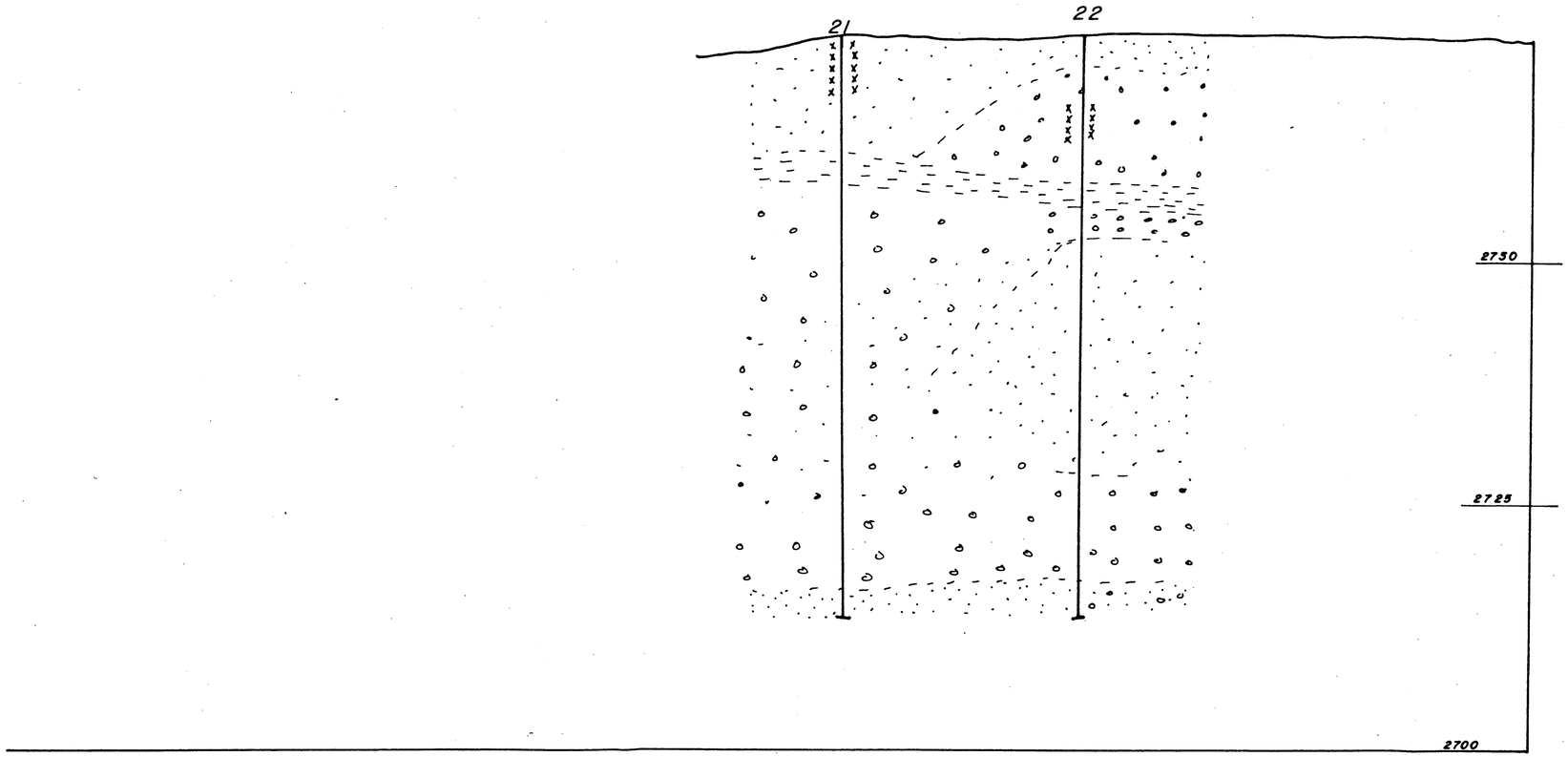
A grove of stately coast redwoods, favorite haunt of nature lovers, hikers; dedicated to John Muir, great California naturalist. Trees up to 17 feet in diameter at base

22 Golden Gate Bridge

At San Francisco are world's two greatest bridges: "Bay Bridge" excels in over-all length and depth of piers; Golden Gate Bridge in span length and tower height

Founded in
covered at
brought he
of 1849. Fo

FOR CONTINUATION OF MAP SEE OTHER SIDE

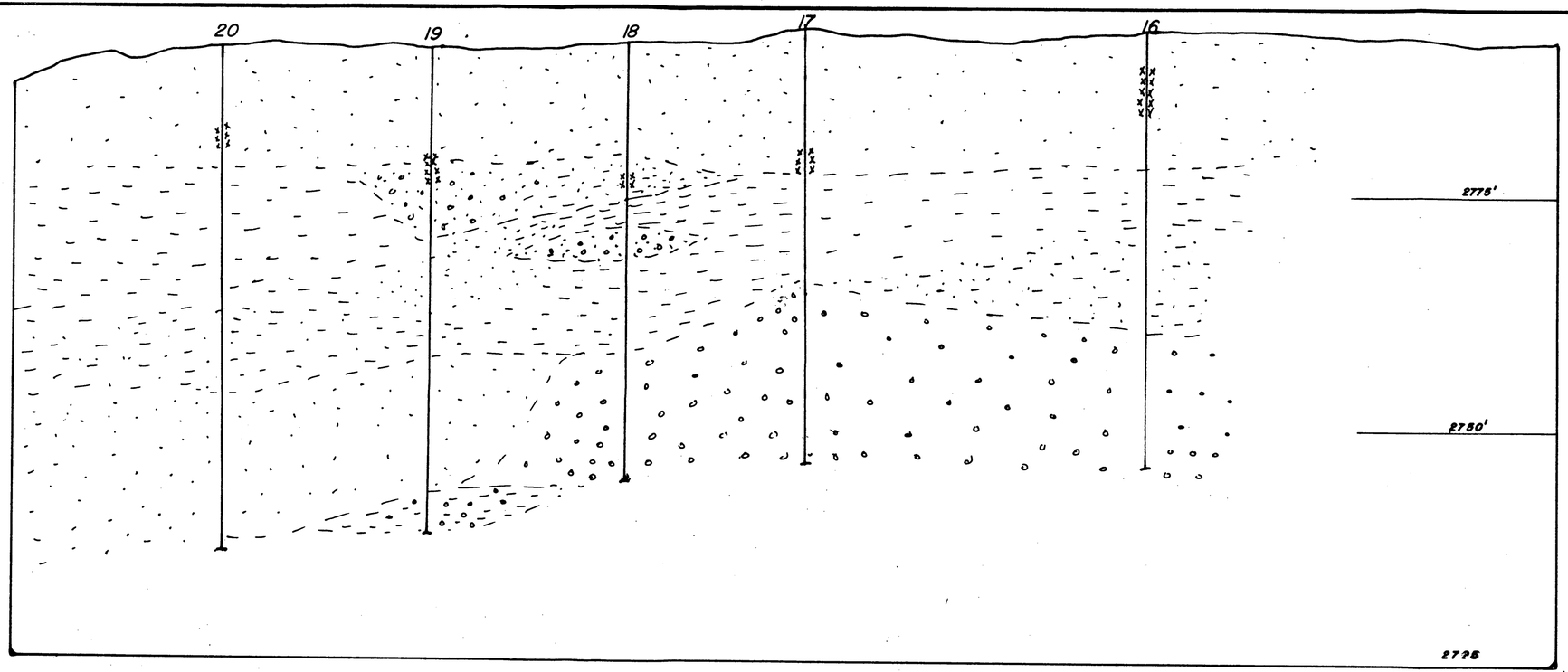


SECTION 1

KITTY KAT PROSPECT

SCALE: 1"=10'

KING & KING ~ ENGRS

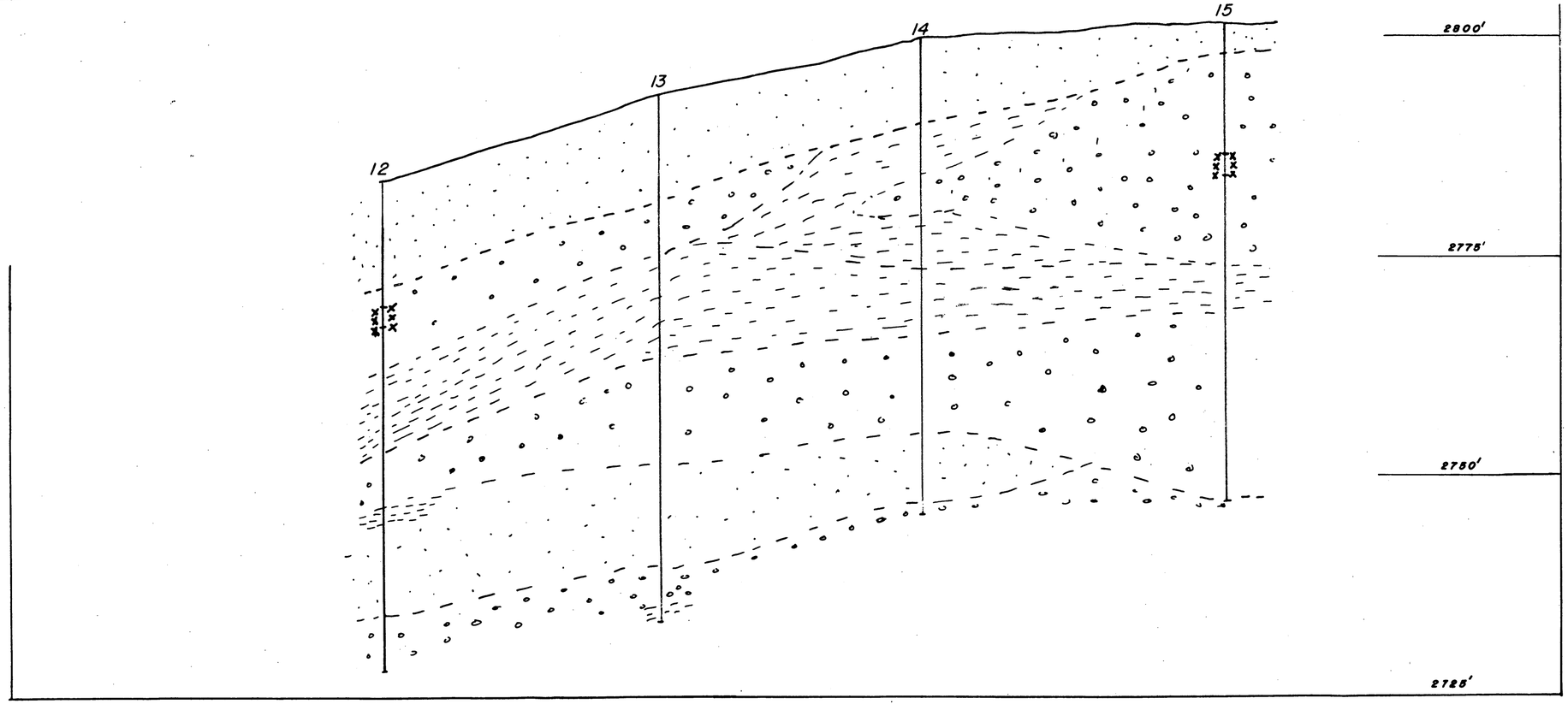


SECTION 2

KITTY KAT PROSPECT

Scale: 1" = 10'

KING & KING ~ ENGRS

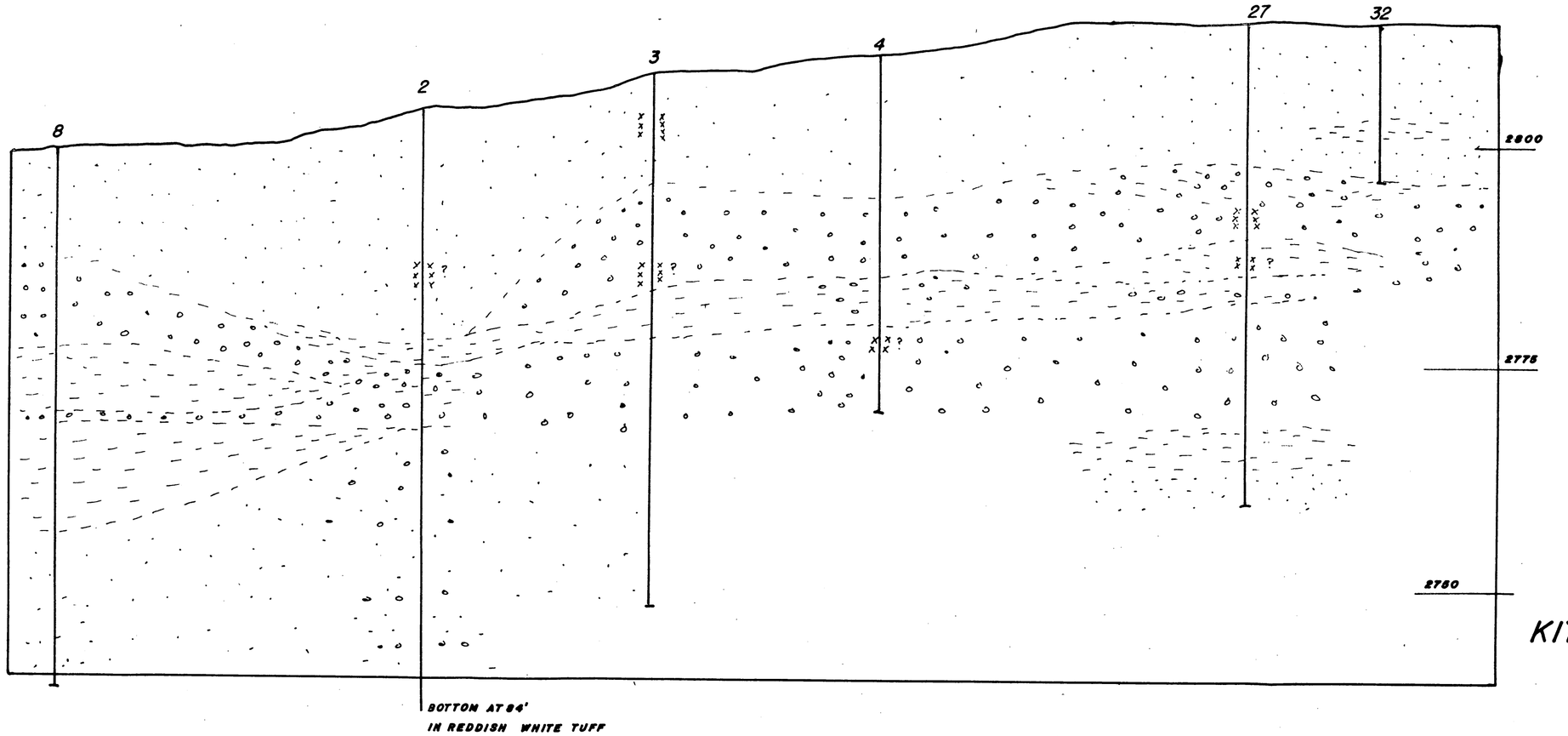


SECTION 3

KITTY KAT PROSPECT

SCALE: 1" = 10'

KING & KING ENGRS

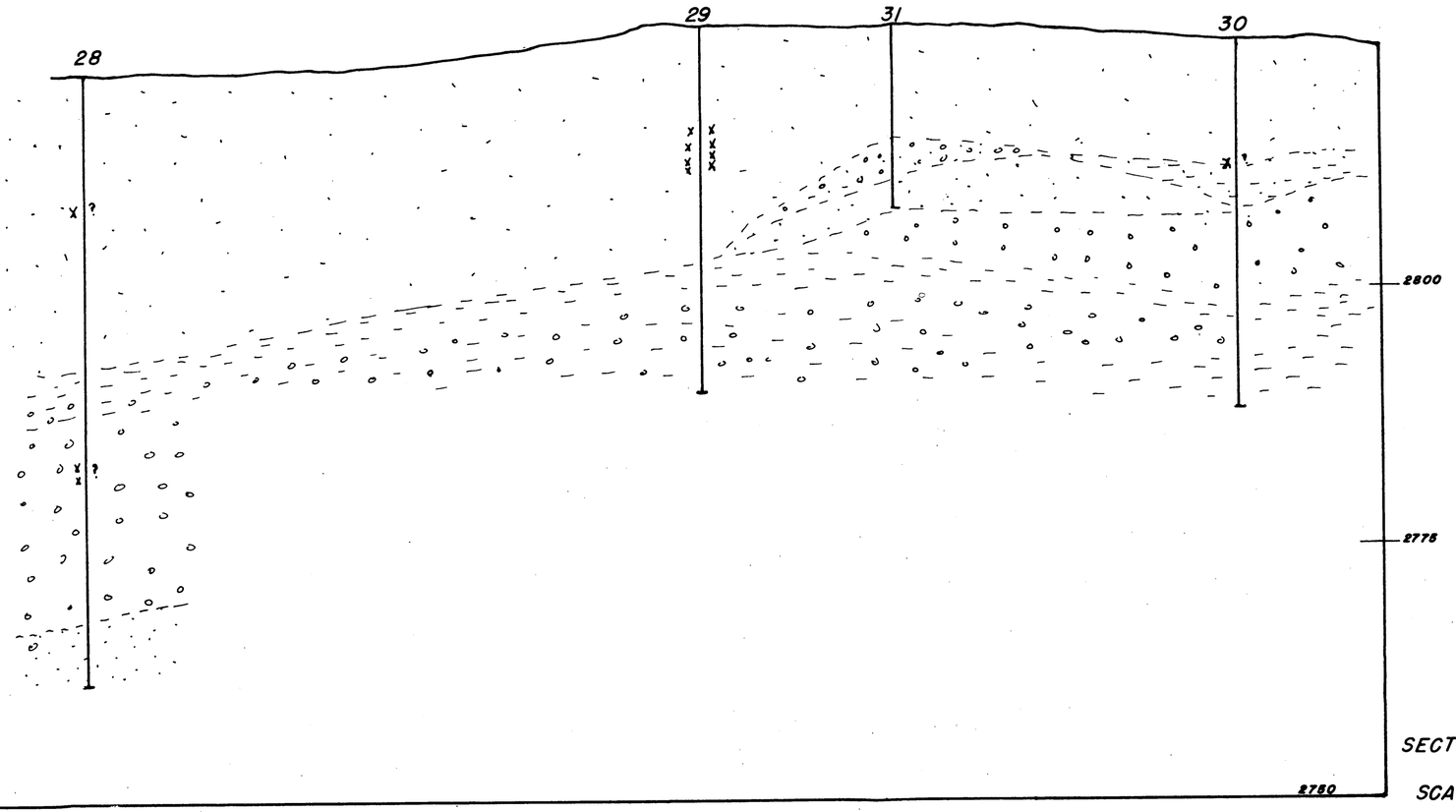


SECTION 4

KITTY KAT PROSPECT

SCALE: 1" = 10'

KING & KING ~ ENGRS.

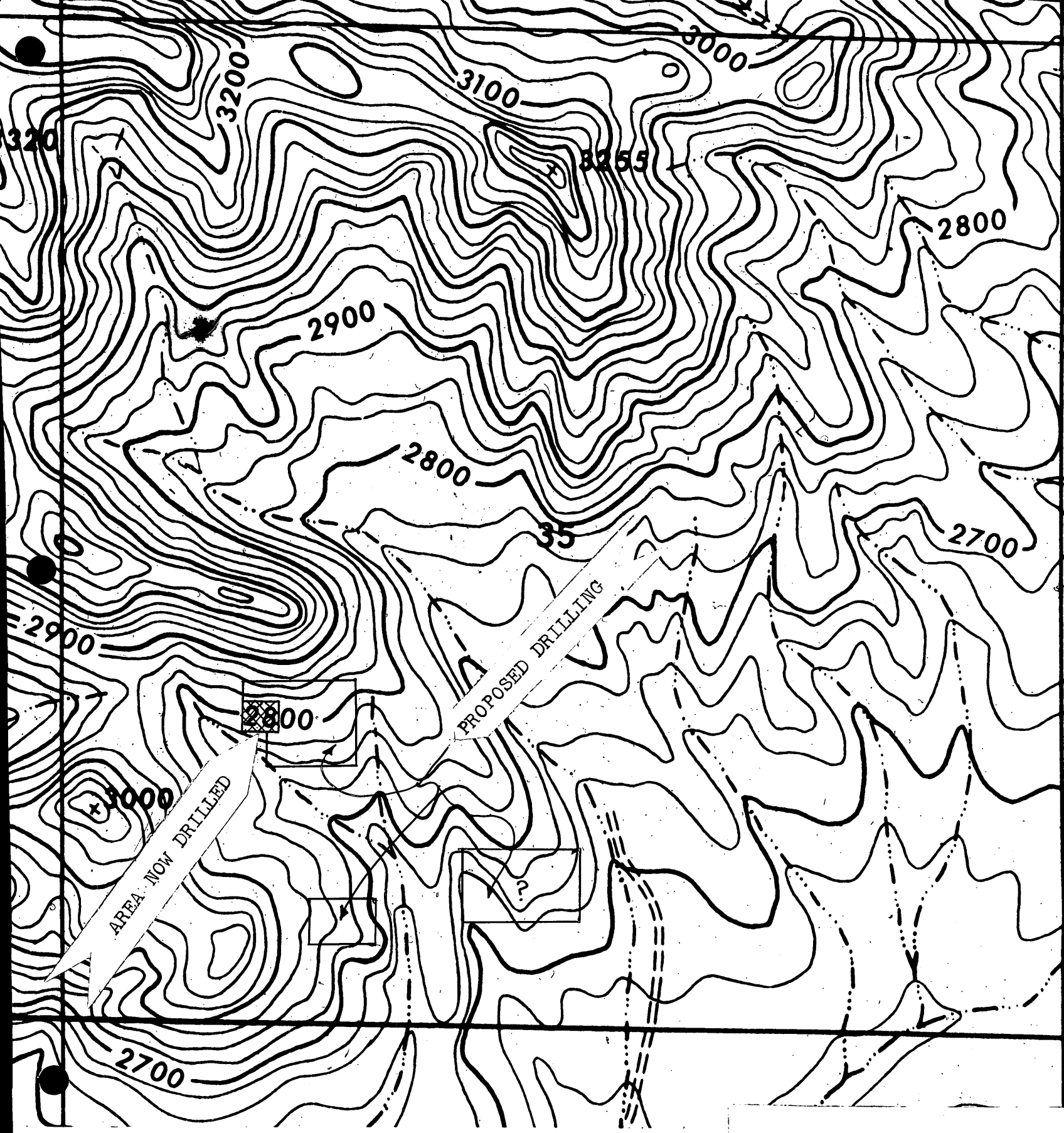


SECTION 5

SCALE: 1" = 10'

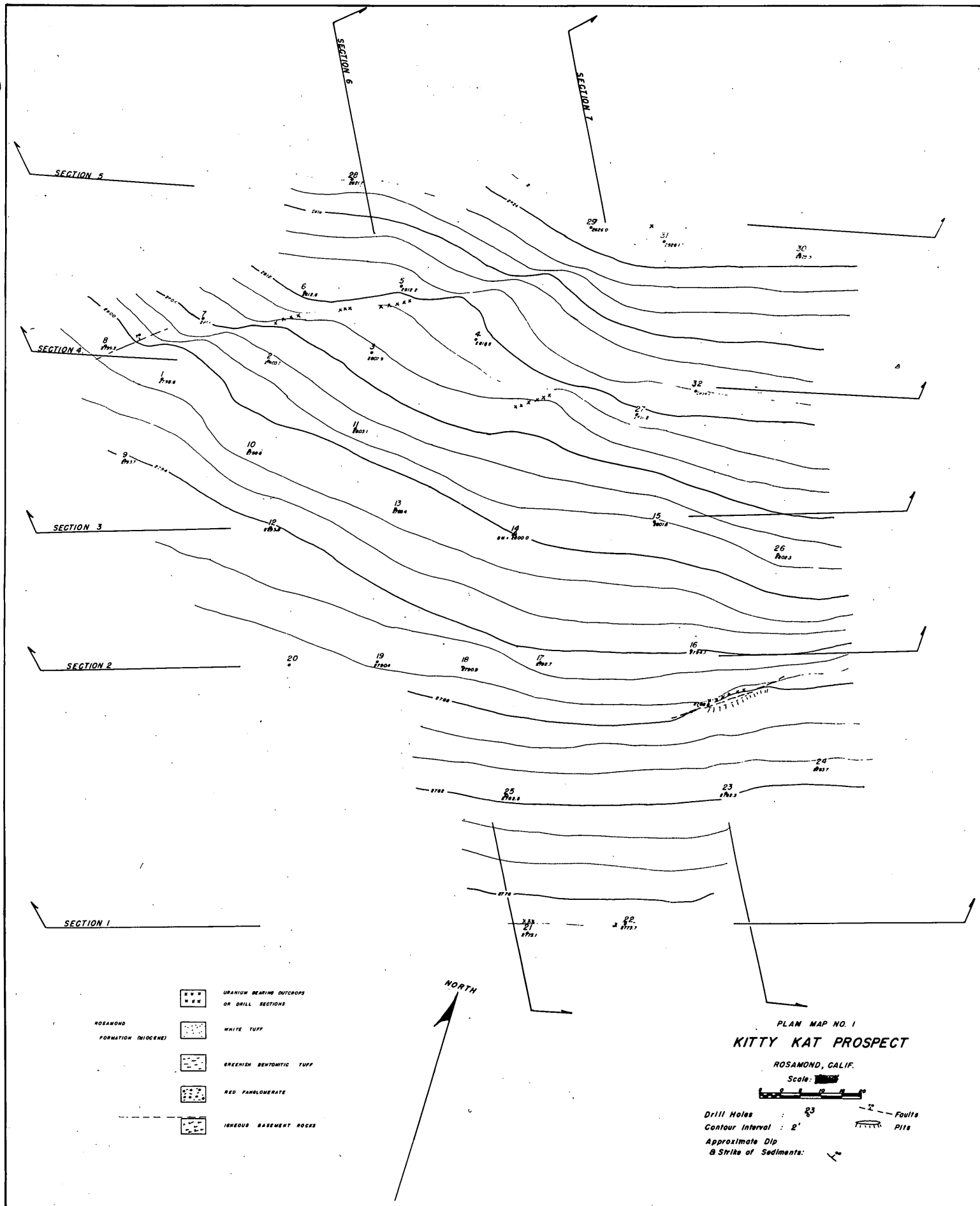
KITTY KAT PROSPECT

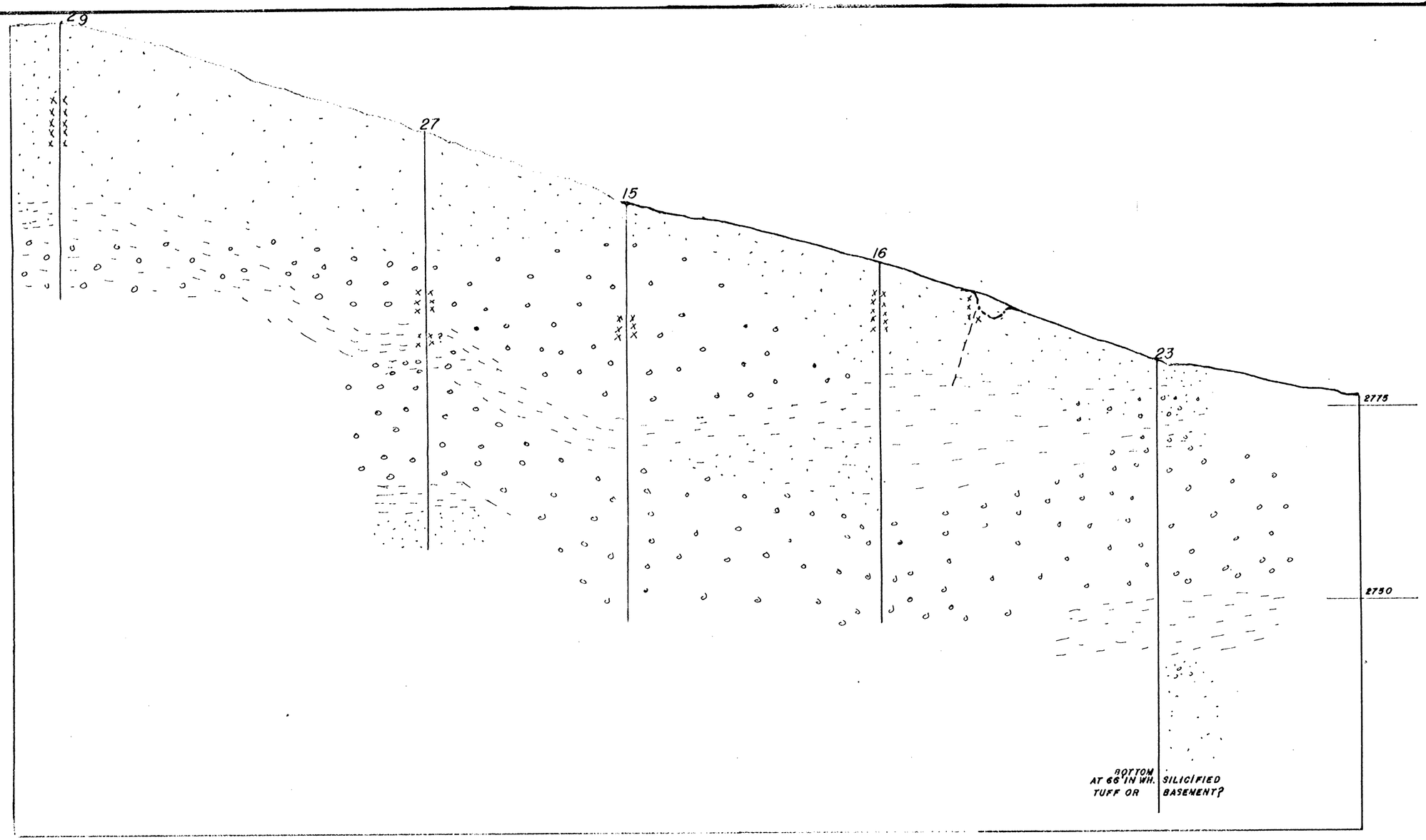
KING & KING ~ ENGRS



MAP NO. 2

TOPOGRAPHIC MAP OF
SECTION 35


SECTION 1
SECTION 2
SECTION 3
SECTION 4
SECTION 5
SECTION 6
SECTION 7
NORTH
URANIUM BEARING OUTCROPS OR DRILL SECTIONS
ROSAMOND FORMATION (MIOCENE)
WHITE TUFF
GREENISH BENTONITIC TUFF
RED FANGLOMERATE
IGNEOUS BASEMENT ROCKS
PLAN MAP NO. 1
KITTY KAT PROSPECT
ROSAMOND, CALIF.
Scale:
Drill Holes : 23
Contour Interval : 2'
Approximate Dip & Strike of Sediments:
Faults
Pits
TO ACCOMPANY REPORT BY
KING & KING ~ ENGRS
WHITTIER, CALIF
D.M. KING

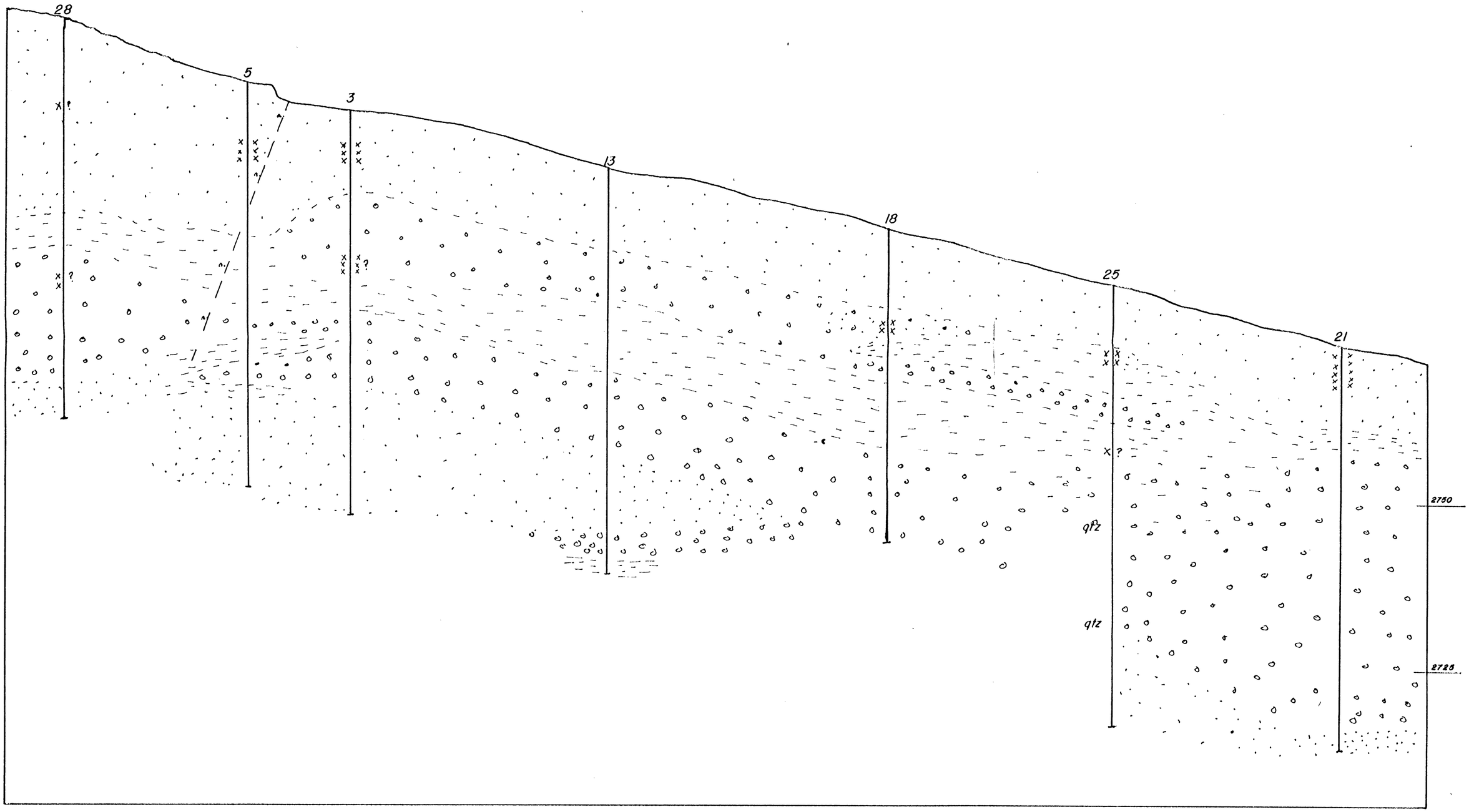


SECTION 7

SCALE: 1" = 10'

KITTY KAT PROSPECT

KING & KING ~ ENGRS



SECTION 6

KITTY KAT PROSPECT

SCALE: 1" = 10'

KING & KING ~ ENGRS