MF-202

LANDLORD'S SUBORDINATION AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, the undersigned is the owner in fee simple of that certain parcel of ground in the county of Gila, State of Arizona, described in a certain Exploration Project Contract dated _____, 195__, between Cable Development and Manufacturing Co, Inc LeRoy Patterson, District Manager, the Lessee of said property, and the United States of America;

NOW, THEREFORE, the undersigned, as Lessor of said property under lease dated Febr 10, 1955, does by these presents subordinate all of his right, title, and interest under the provisions of said lease to the right, title, and interest of the United States of America under the provisions of said Exploration Project Contract, and agrees that the lien and claim of the United States of America under the provisions of said contract shall be prior to the undersigned's rights to rentals or royalties under the terms of said lease; and

The undersigned further agrees that if said leasehold interest should be surrendered or if said lease should terminate at any time prior to the expiration of the rights of the United States of America under said Exploration Project Contract, the undersigned shall assume and does hereby assume all of the obligations of the Lessee under said Exploration Project Contract to make repayment to the United States of America according to the terms of said contract; and

The undersigned agrees to commit no act, nor assert any claim under judicial process or otherwise that may contravene or conflict with the prior lien and claim of the United States of America under the provisions of said Exploration Project Contract.

This undertaking and covenant shall be binding upon the heirs, successors, and assigns of the undersigned.

Dated this 10th day of February, 1955

C. D. Black

U. S. GOVERNMENT PRINTING OFFICE 16—64582-1

MF-202

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LeRoy Patterson, District Manager
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C. D. Black

U. S. GOVERNMENT PRINTING OFFICE 16—64582-1

MF-202

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The undersigned agrees to commit no act, nor assert any claim under judicial process or otherwise that may contravene or conflict with the prior lien and claim of the United States of America under the provisions of said Exploration Project Contract.

This undertaking and covenant shall be binding upon the heirs, successors, and assigns of the undersigned.

Dated this 10th day of February, 1955.

C. L. Black

U. S. GOVERNMENT PRINTING OFFICE 16—64582-1

7-b

MF-202

LANDLORD'S SUBORDINATION AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, the undersigned is the owner in fee simple of that certain parcel of ground in the county of Gila, State of Arizona, described in a certain Exploration Project Contract dated _____, 195__, between Cable Development and Mfg Co, Inc
LeRoy Patterson, District Manager
the Lessee of said property, and the United States of America;

NOW, THEREFORE, the undersigned, as Lessor of said property under lease dated Febr 10, 1955, does by these presents subordinate all of his right, title, and interest under the provisions of said lease to the right, title, and interest of the United States of America under the provisions of said Exploration Project Contract, and agrees that the lien and claim of the United States of America under the provisions of said contract shall be prior to the undersigned's rights to rentals or royalties under the terms of said lease; and

The undersigned further agrees that if said leasehold interest should be surrendered or if said lease should terminate at any time prior to the expiration of the rights of the United States of America under said Exploration Project Contract, the undersigned shall assume and does hereby assume all of the obligations of the Lessee under said Exploration Project Contract to make repayment to the United States of America according to the terms of said contract; and

The undersigned agrees to commit no act, nor assert any claim under judicial process or otherwise that may contravene or conflict with the prior lien and claim of the United States of America under the provisions of said Exploration Project Contract.

This undertaking and covenant shall be binding upon the heirs, successors, and assigns of the undersigned.

Dated this 10th day of February, 195.5

C. L. Black

U. S. GOVERNMENT PRINTING OFFICE 16—64582-1

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 4 - 1955

MINUTES OF SPECIAL MEETING OF BOARD OF DIRECTORS
OF CABLE DEVELOPMENT AND MANUFACTURING CO. INC.
HELD on February 3, 1955 at 2:00 o'clock P.M. at
408 University Bldg., Syracuse, N.Y.

The President called the meeting to order.

The Secretary called the roll and the following Directors were present, being all of the Directors of the corporation:

T. M. FEDER
BELLE A. FEDER
MILTON WALLACE

The Secretary then presented a written waiver of notice of meeting, signed by all of the directors of the corporation, and the same was ordered placed on file.

The President then stated that a quorum was present and the Meeting was ready to transact business.

Upon motion duly made, seconded and carried it was

RESOLVED that the Cable Development And Manufacturing Co. Inc. hereby authorizes LEROY PATTERSON, District Manager in Globe, Arizona -

1. To apply for aid in an exploration project pursuant to D.M.E.A. Order #1, under the Defense Production Act of 1950, as amended;

2. To obligate the Cable Development and Manufacturing Co. Inc. to furnish its share of the cost of the project as requested in form M.F. 103, Question 7B;

3. To obligate Cable Development and Manufacturing Co. Inc. to pay for all costs of work and to submit monthly reports of progress for payment by D.M.E.A.

There being no further business before the meeting, the same was, upon motion duly made, seconded and carried, adjourned.

DATED: February 3, 1955.

Milton Wallace
SECRETARY

STATE OF NEW YORK)
COUNTY OF ONONDAGA) SS:
CITY OF SYRACUSE)

MILTON WALLACE being duly sworn deposes and says that he is Secretary of CABLE DEVELOPMENT AND MANUFACTURING CO. INC. and that the above is a true and certified copy of the minutes of the meeting of the Board of Directors of CABLE DEVELOPMENT AND MANUFACTURING CO. INC. held on February 3, 1955 at 408 University Building, Syracuse, New York.

Sworn to before me this 23rd day of February, 1955

Milton Wallace
MILTON WALLACE

Hyman Bearlman
HYMAN BEARLMAN
NOTARY PUBLIC
Notary Public, in the State of New York
Qualified in Onon. Co. No. 34-3043500
My Commission Expires March 30, 1956

6/24/55 gla

RECEIVED JUN 24 1955

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

224 New Customhouse
Denver 2, Colorado

June 17, 1955

Memorandum

To: Chairman of the Operating Committee, DMEA

From: Field Team, Region III

Subject: Report of Examination, Docket DMEA-3710 (Uranium), Cable Development and Manufacturing Co., Inc., Snakebit claims, Gila County, Arizona

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

Minor amounts of uranium are found in thin short zones, but no significant tonnage is indicated. Further prospecting in the area might disclose mineralization which would warrant exploration at a later date.

We concur with the recommendation of the field examiners that the application be denied.

W. M. Traver

F. N. Harshman

Enclosures

TRANSMITTED

JUN 17 1955

RECEIVED
JUN 24 1955
DMEA
Date Rec'd.

June 8, 1955

JUN 1 1955
BUREAU OF MINES
Denver, Colorado

Memorandum

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

From : Superintendent, Southwest Experiment Station.

Subject : Field Examination Report, Docket DMEA-3710, Cable Development & Manufacturing Co.'s Snakebit Uranium Claims, Gila County, Ariz.

Enclosed are original and 8 copies of the section on Summary, Conclusions and Recommendations by William R. Hardwick of the Bureau of Mines and Leonid Bryner of the Geological Survey, and the section on Engineering by Hardwick for the above report. A separate section on Geology will be submitted by the Geological Survey.

As there seems to be little chance of discovering any significant amount of uranium ore by the proposed work, the DMEA examiners have recommended denial of Government exploration assistance. I concur with this recommendation.

Brochure is enclosed.

Walter R. Storms

Walter R. Storms

CC W. M. Traver (8)
Faick
DMEA-3710
DF

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA-XI10, Gabbs Development & Manufacturing Co., Inc.

Sonshine Premium Claims

Gila County, Arizona

William R. Hardwick, Mining Engineer
U. S. Bureau of Mines

Leonid Enyart, Geologist
U. S. Geological Survey

June 1958

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

By William R. Hardwick[1] and Leonid Bryner[2]

Cable Development & Manufacturing Co., a New York corporation, applied for assistance to explore its Sunbeit claims, situated in Gila County, Ariz., for uranium. The applicant requested assistance in the amount of 75 percent of the costs of 850 feet of drifting, 100 feet of raise, and 2,000 feet of drill holes under the terms of the Defense Production Act of 1950, as amended. The estimated cost of the exploration as proposed by the applicant was $34,550.00.

The application was docketed as DMEA-3710. The docket was reviewed by R. B. Trace and J. K. Crawford, members of the Uranium Commodity Committee, then referred to the Field Team of Region III for a field examination and report on the proposed project.

The Sunbeit claims were examined by William R. Hardwick and Leonid Bryner on May 5, 1955. Lafay Patterson, district manager for the applicant company, accompanied and assisted the examining team during the field examination.

The Sunbeit claims are situated about 30 air miles north of Globe in Gila County, Ariz., along the north branch of Ash Creek. The deposit is at the lower edge of a bench in the almost flat-lying upper member of the pre-Cambrian Pringing

---

1/ Mining engineer, U. S. Bureau of Mines
2/ Geologist, U. S. Geological Survey

Spring quartzite, 145 feet stratigraphically below the base of the Maccal limestone. The host rock is a rather massive gray fine-grained quartzite that weathers to a dirty brown. Sulfide minerals, especially pyrite, are disseminated in this rock for as much as 100 feet above the deposit.

The applicant has made a road to the claims and has driven an adit 101 feet in length.

There are no ore reserves. The weighted average of 8 channel samples, that were taken by the DMEA examining team, was 0.01 percent uranium pentoxide. None of these samples indicated ore of minable grade. In addition to channel samples, a radiometric traverse of this adit was made by the examining team. This survey also did not indicate ore of minable grade.

As a result of the DMEA field examination, a discussion of the project with R. S. Schmartz of the Atomic Energy Commission, a discussion of the project with LeRoy Patterson, district manager for the applicant, and a review of the application, the following conclusions are drawn:

1. There is no indication from the geology, as it is now known, that significant reserves of uranium ore might be discovered.

2. There is no indication from the results of sample assays or the radiometric traverse that a significant reserve of uranium ore might be discovered.

3. Where neither ore grade assays nor geological

indications pinpoint a target, promiscuous drifting in the Dripping Spring quartzite is considered to be prospecting, rather than exploration.

The DGGA examining team believes that a significant amount of uranium ore will not be discovered. Therefore, the team recommends that the application (DGGA-3710) of the Gable Development & Manufacturing Co., Inc. for assistance to explore the Snakebit claims for uranium be denied.

DMEA-3710, CABLE DEVELOPMENT & MANUFACTURING CO., INC.
SMAERDI URANIUM CLAIMS
GILA COUNTY, ARIZONA

Engineering Report

By William R. Hardwick
Mining Engineer
U. S. Bureau of Mines

June 1965

DMEA-3710, CABLE DEVELOPMENT & MANUFACTURING CO., INC.
SNAKEBIT URANIUM CLAIMS
GILA COUNTY, ARIZONA

RECEIVED

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Engineering report	Page
Introduction	1
Acknowledgments	1
Location, topography and climate	1
History and production	4
Ownership and extent	3
Description of the deposit	4
Minable ore reserves and grade	4
Present status	5
Proposed exploration	5
Conclusions	6
Recommendations	7

ILLUSTRATIONS

Figure No.		Following page
1	Location map	2
2	Claim map	3
3	Assay map, No. 1 adit	4

INTRODUCTION

On March 1, 1955, LeRoy Patterson, acting for Cable Development & Manufacturing Co., Inc., a New York corporation, applied for assistance to explore the Snakebit uranium claims in Gila County, Ariz. for uranium. This application for aid in an exploration project, pursuant to DMEA Order-1 under the Defense Production Act of 1950, as amended, was docketed as DMEA-3710. The docket was reviewed by R. D. Trace and J. E. Crawford, members of the Uranium Committee, and referred to the Field Team, Region IX, for a field examination and a report on the proposed project.

The applicant proposed to explore a segment of the upper Dripping Spring quartzite bed for uranium by driving 850 feet of drifts, 100 feet of raises, and 2,000 feet of drill holes at a total estimated cost of $34,550.00. This upper member of the Dripping Spring quartzite is everywhere abnormally radioactive.

The Snakebit claims were visited and examined on May 5, 1955 by Leonid Breyer, geologist, U. S. Geological Survey, and William H. Hardwick, mining engineer, U. S. Bureau of Mines. LeRoy Patterson, district manager for Cable Development & Manufacturing Co., Inc., accompanied the examining team.

The proposed exploration project was discussed with Roland J. Schmertz, representative of the Atomic Energy Commission, who previously had examined the Snakebit claims.

ACKNOWLEDGMENTS

Acknowledgment is due Lelay Patterson, district manager for Cable Development & Manufacturing Co., Inc., who assisted the RMEA examining team. Acknowledgment also is due Roland J. Schwartz, Globe representative of the Atomic Energy Commission, who supplied information on the Snakebit claims and on the district.

LOCATION, TOPOGRAPHY AND CLIMATE

The Snakebit uranium claims are located on unsurveyed land along the North Fork of Ash Creek in the Creek National Forest near the intersection of 33° 45' 18" north latitude and 110° 35' west longitude. This particular locality is known as the Salt River Mining District, Gila County, Ariz. (figure 1).

The Snakebit claims are accessible by a three-fourths mile jeep trail that branches south from the Fourth-of-July asbestos prospect road at a point approximately 3 miles from the Regal mine road. The Fourth-of-July prospect road branches southeastward from the Regal mine road at a point 6.3 miles from U. S. Highway 60. The Regal mine road branches westward from U. S. Highway 60 at a point one-half mile north of Seneca, or 37.5 miles north of Globe, Ariz.

The topography is rugged. Flat cliff-forming beds of sediments have been dissected by the drainage pattern to form deep canyons with nearly vertical sides. The single adit of the Snakebit uranium group is situated on the north side of

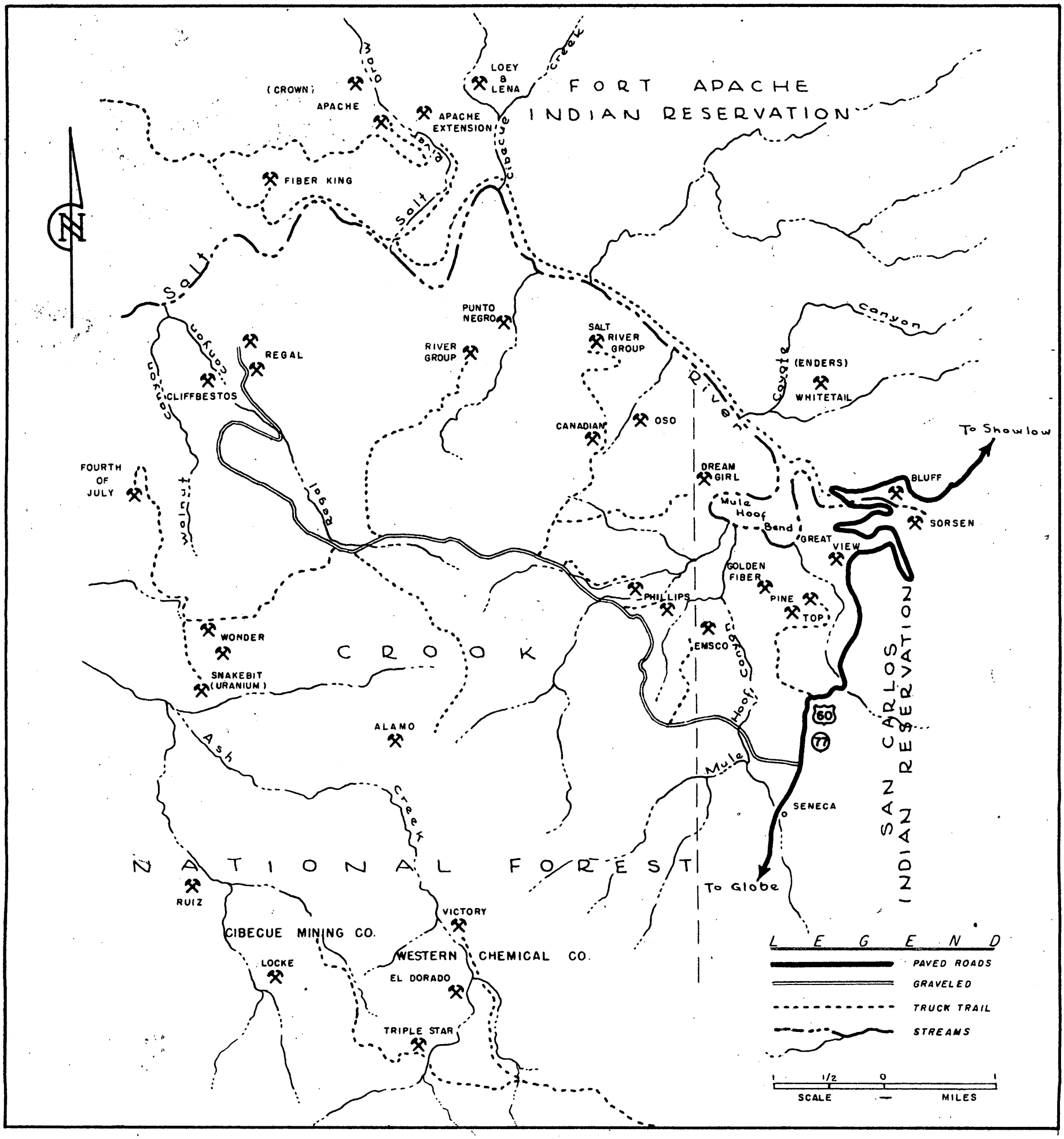

FIGURE - 1 - MINE LOCATION MAP - MAJOR PART OF
SALT RIVER DISTRICT
GILA COUNTY ARIZONA

the north branch of Ash Creek at an altitude of approximately 3,800 feet. This is 400 feet above the bottom of Ash Creek, or 1,100 feet below the rim of the canyon formed by Ash Creek.

The climate generally is mild. However, snow storms in winter and torrential rains in summer may interrupt work for short periods. Water is available in Ash Creek; timber is available from nearby sawmills; and general mine supplies are available in Globe. No power lines serve the area.

OWNERSHIP AND EXTENT

The Snakebit uranium claims (figure 2) were located by G. S. and Lulu P. Black shortly after the abnormally high radioactivity of the Dripping Spring quartzite member of the Apache group became known. LeRoy Patterson stated that the claims probably were located in the early part of 1954.

In February 1955, LeRoy Patterson obtained a lease and option on the Snakebit group, which he assigned to the Cable Development & Manufacturing Co., Inc., a New York corporation. The lease and option provided for a 10 percent royalty on all production, this to be applied on a purchase price of $130,000.00. The lease was to run for a term of 10 years with provision for renewal.

The group of claims included Snakebit Nos. 1 to 6, and Snakebit Nos. 2, 4, 5 and 6, amended (figure 2). All claims are unpatented, and are recorded in the Gila County Courthouse in Globe, Ariz.

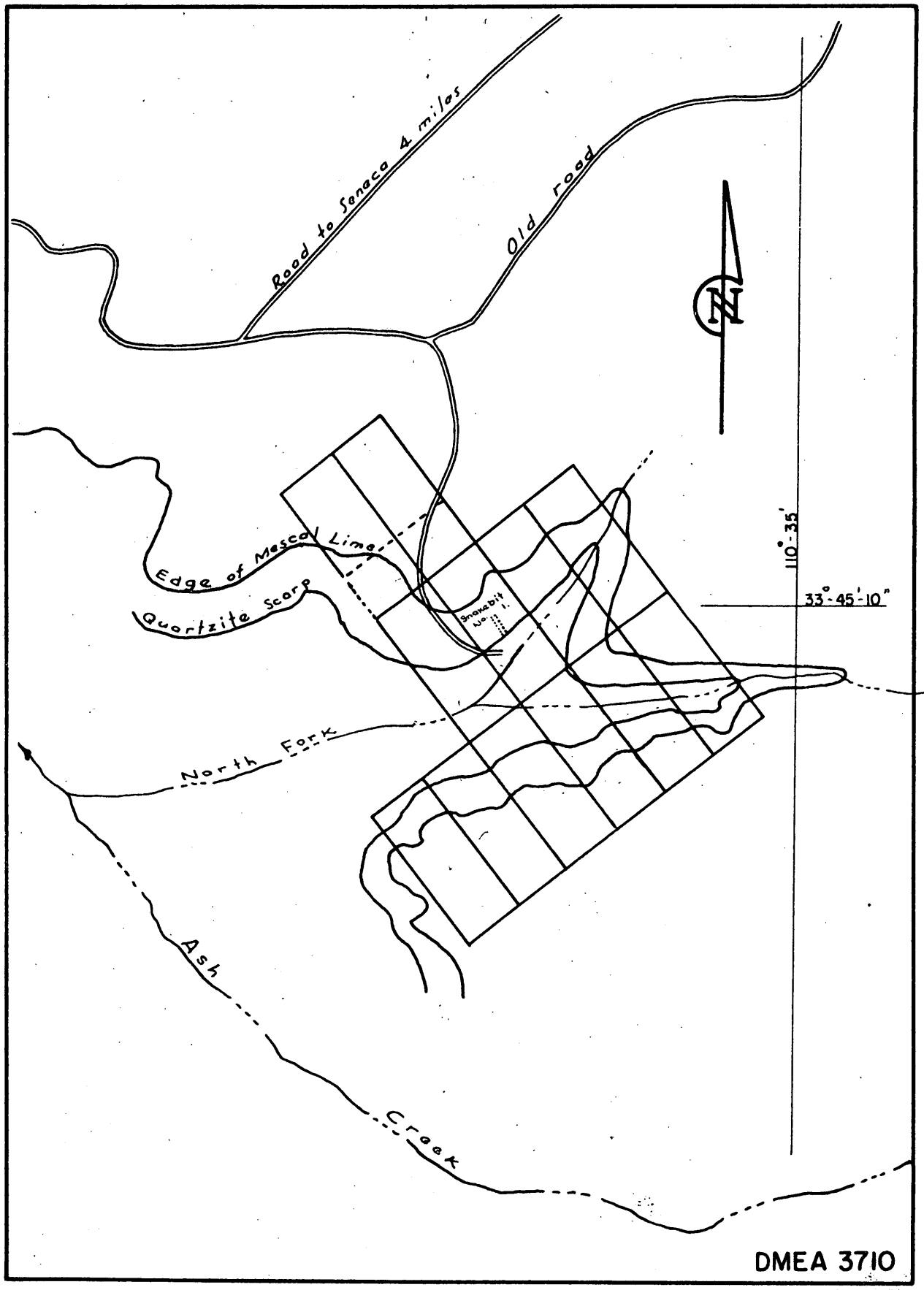

FIGURE 2 SNAKEBIT URANIUM CLAIMS
CABLE DEV. & MFG. CO. INCORPORATED
Mc MILLAN DISTRICT GILA CO. ARIZONA

HISTORY AND PRODUCTION

All claims of the Sunkabit group are recent locations. There has been no production.

DESCRIPTION OF THE DEPOSIT

The geology is covered in a separate report by Leonid Breyner, geologist, U. S. Geological Survey.

The Sunkabit adit is situated on a projecting shelf where erosion has exposed the upper surface of the lower unit of the Upper Dripping Spring quartzite (see figure 3). The adit penetrates the formation in the lower part of the middle unit of the Upper Dripping Spring quartzite. At the portal of the adit, for the full length of the adit, and for 100 feet up the slope of the surface above the adit, the sulfide minerals, pyrite and chalcopyrite, are quite prominent.

At the surface, somewhat higher radioactivity occurs in the zone on and slightly above the surface of the projecting shelf formed by the massive cliff of the lower unit. This higher activity does not continue into the adit. It is attributed by this writer to leaching of uranium minerals from the exposed mineralized area above the adit, and the subsequent precipitation of these salts by evaporating pools of water that form on impervious areas of the surface of the projecting shelf.

ORE RESERVES

Mine samples were taken by the examining team (figure 8).

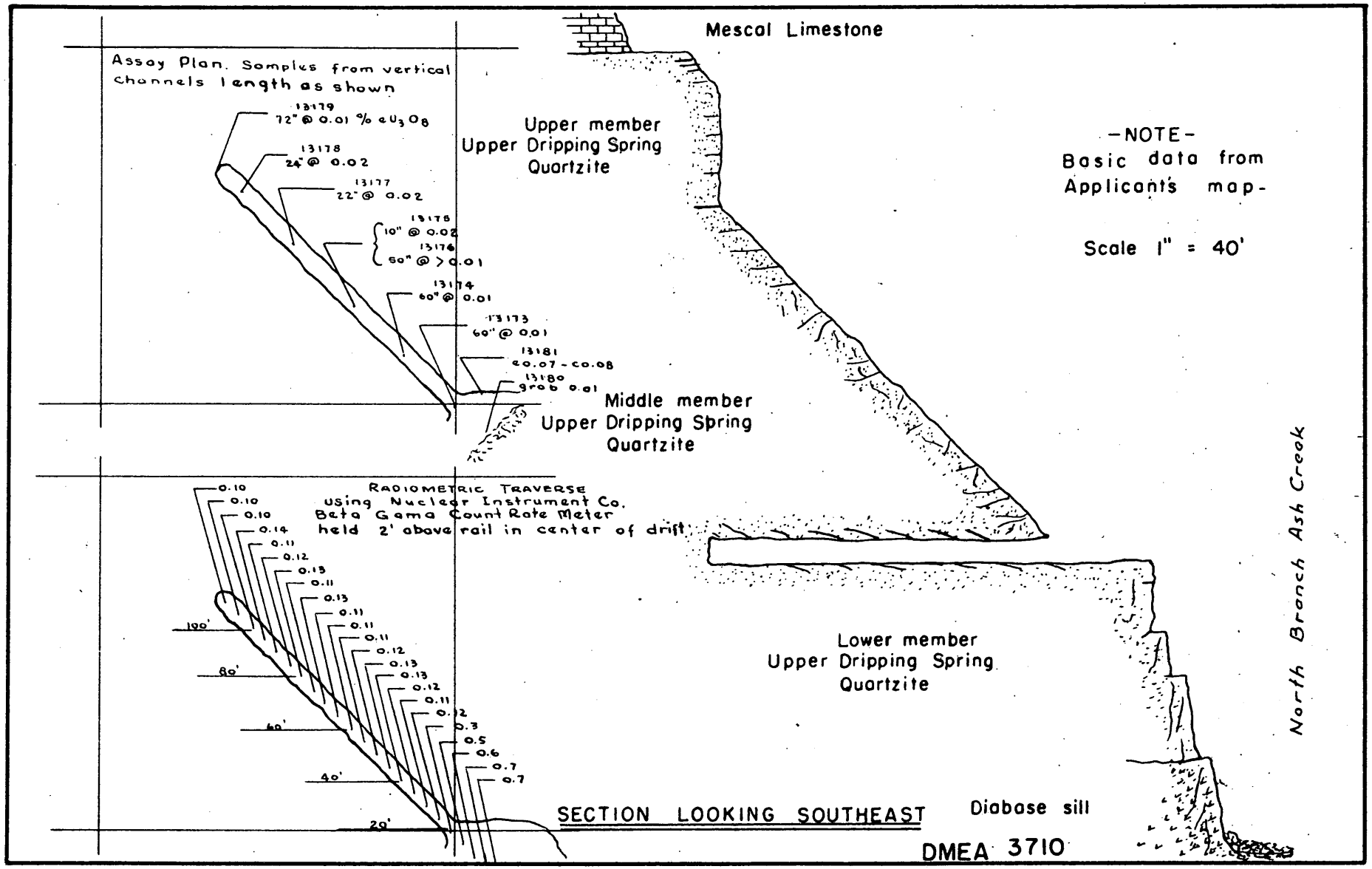

FIGURE- 3 - ASSAY MAP - SNAKEBIT MINE

Not one of these samples showed a uranium content high enough to be commercial ore under the present price schedule. A radiometric traverse was made as shown on figure 3. These readings indicated a radioactivity only slightly above the average normal background count for the upper member of the Dripping Spring quartzite. According to Roland J. Schwartz, this amounts to 0.03 to 0.05 MR/hour. On the basis of the samples by the applicant and the examining team, there is no measured, indicated, or inferred ore in the deposit.

Attention is directed to the high readings reported outside of the adit on the radiometric survey by the examining team. On the date the property was examined, readings that ranged from 0.60 to 1.20 MR/hour were obtained at any point on the surface near the adit when the probe of the counter was held in the air about the ground. The instrument was checked and found to be in adjustment. The reason for these high readings is unknown.

PRESENT STATUS

The applicant has built a jeep trail from the rim of the north branch of Ash Creek down to the favorable beds and has driven 103 feet of adit. No ore grade material has been found. The sampling by the applicant has been almost entirely by radiometric count in the field.

PROPOSED EXPLORATION

As denial of the application is recommended, the proposed project is not discussed in detail in this report. The applicant proposed in his application to continue the present

adit for at least 300 feet and suggested "the additional tunneling to be located by means of sampling and probing". A total of 850 feet of drifts, 100 feet of raises, and 3,000 feet of drill holes was proposed. The estimated total cost of the project was $34,550.00.

The applicant proposed to finance 25 percent of the costs itself, and requested that the Government provide the remaining 75 percent through the provisions of the Defense Production Act of 1950, as amended.

CONCLUSIONS

Based upon a field examination of the property, a discussion of the merits of the application with R. J. Schwartz, Atomic Energy Commission representative, and a review of the application, the following conclusions are drawn:

1. Cable Development & Manufacturing Co., Inc., is a construction company; its experience in mining is limited.

2. The actual plans for the proposed exploration work are not definite.

3. No specific geologic data or ore grade assays have been presented to justify the proposed exploration. Several thousand square miles of Dripping Spring quartzite with radioactivity equal or better than that at the Sunbeam mine are known to exist. Prospecting drifting in this formation without specific geological data or without any ore-grade assay data to indicate a target is considered prospecting, and not exploration.

4. The weighted average of 8 channel samples is 0.014 percent U_3O_8. The highest assay was 0.08 percent U_3O_8.

5. Further prospecting along the outcrop of the favorable beds in the area may expose a better location for exploration.

RECOMMENDATIONS

In view of the lack of a geological target and the low uranium content of the exposed outcrop, it is believed that a significant amount of uranium ore will not be discovered by the proposed project. Therefore, it is recommended that the application (EMMA-0710) of the Gable Development & Manufacturing Co., Inc., for assistance to explore the Seabolt claims be denied.

IN REPLY REFER TO:

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

RECEIVED DMEA
JUN 24 1955
Date Rec'd.
JUN 14 1955
BUREAU OF MINES
Denver, Colorado

June 13, 1955

TRANSMITTED

JUN 17 1955

Memorandum

To: Field Team, Region III

From: E. N. Harshman

Subject: DMEA Docket 3710 (Uranium), Cable Development and Manufacturing Co., Inc., Snakebit claims, Gila County, Arizona

Enclosed are the original and 9 copies of a geologic report by Leonid Bryner, U. S. Geological Survey, covering his examination of the above subject property.

Minor amounts of uranium are found in thin short zones associated with certain beds in the Dripping Spring quartzite.

Bryner concludes that exploration on the claims will not result in the discovery of significant uranium deposits and recommends denial of the application for exploration assistance.

I concur with the conclusions and recommendations.

E. N. Harshman

E. N. Harshman
Member, Field Team

Enclosures (10)

ENHarshman:arh

MINERAL DEPOSITS
DMEA
RECEIVED
JUN 9 1955

TRANSMITTED

JUN 17 1955

U.S.
GEOLOGICAL SURVEY
DENVER, COLORADO

Box 4126 University Station
Tucson, Arizona

June 6, 1955

RECEIVED
JUN 9 1955

MEMORANDUM

To: Mr. E. H. Harshman

From: J. H. Faick

Subject: DMEA Docket 3710 (Hrynkow) Gable Development and Manufacturing Co., Inc., Sunbelt Claims, Gila County, Arizona.

Enclosed are the original and 10 copies of a geological report by Leonid Bryner, on a field examination of the above property. This report recommends denial of Government participation in exploration because the mineralized stratum is too thin and the ore is too low grade to justify exploration.

I concur with Bryner's recommendation.

John H. Faick

John H. Faick

JHF:mm

cc - Mr. Harshman
1 - Stevens

U. S. DEPARTMENT OF THE INTERIOR
DOUGLAS DAM, ARIZONA

BUREAU REGIONAL REHABILITATION ADMINISTRATION

REGION XIX

GEOLOGY

EXAMINATION REPORT

RRA 3720

GARDNER DEVELOPMENT AND MANUFACTURING CO., INC.
GREENLEE GLACIER
GILA COUNTY, ARIZONA

(Uranium)

Leonid Bryner
Geologist
U. S. Geological Survey

June 7, 1955

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
FIELD TEAM XIX

EXAMINATION REPORT

DMEA 3720
CAGLE DEVELOPMENT AND MANUFACTURING CO., INC.
SUNSHINE CLAIMS
GILA COUNTY, ARIZONA
(Uranium)

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CLAIMS	4
EXPLORATION	5
RESERVES	5
CONCLUSIONS AND RECOMMENDATIONS	5

ILLUSTRATIONS

Fig. 1	- Location Map	See Engineering Report
Fig. 2	- Claim Map	" " "
Fig. 3	- Assay Map	" " "
Fig. 4	- Geologic Map	Following page 2
Plate 1	- Diagrammatic section of Apache Group	" " 2

INTRODUCTION

In an application to the Defense Minerals Exploration Administration dated February 28, 1955, Lilley Patterson, District Manager of the Gable Development and Manufacturing Co., Inc. requested government participation in a program estimated to cost $5,500 to explore for uranium at the Rainbow prospect, Gila County, Arizona.

The property is located in unsurveyed ground in a small northeasterly tributary to the north fork of Ash Creek, within the Blue Range Mountain quadrangle. It is near the intersection of latitude 33° 43' 20" north and longitude 110° 35' west (Fig. 2), and is 10 miles by road west of Duncan on U. S. Highway 66. Duncan is 37 miles from Globe, Arizona by U. S. Highway 60 (Fig. 1). The unpatented claims of the Rainbow group are located by the applicant from G. S. and L. P. Black.

The examination was made on May 5 by V. R. Barbick of the U. S. Bureau of Mines and the writer. Patterson accompanied the examiners.

The following report summarizes the results of the geologic examination, which consisted mainly of making a sketch map of the prospect and a reconnaissance of the surrounding ground. The geology of the prospect also was discussed with K. S. Granger and Robert Ray of the U. S. Geological Survey. Roland J. Schnarr, geologist for the Atomic Energy Commission, offered the opinion that the prospect was very low grade. This was borne out by Barbick's radiometric and sampling work. Results of the radiometric survey and sampling are reported in detail in the engineering report. Both examiners for DMEA consider the prospect to be representing no exploration possibility, and therefore recommend that government participation be denied.

GEOLOGY

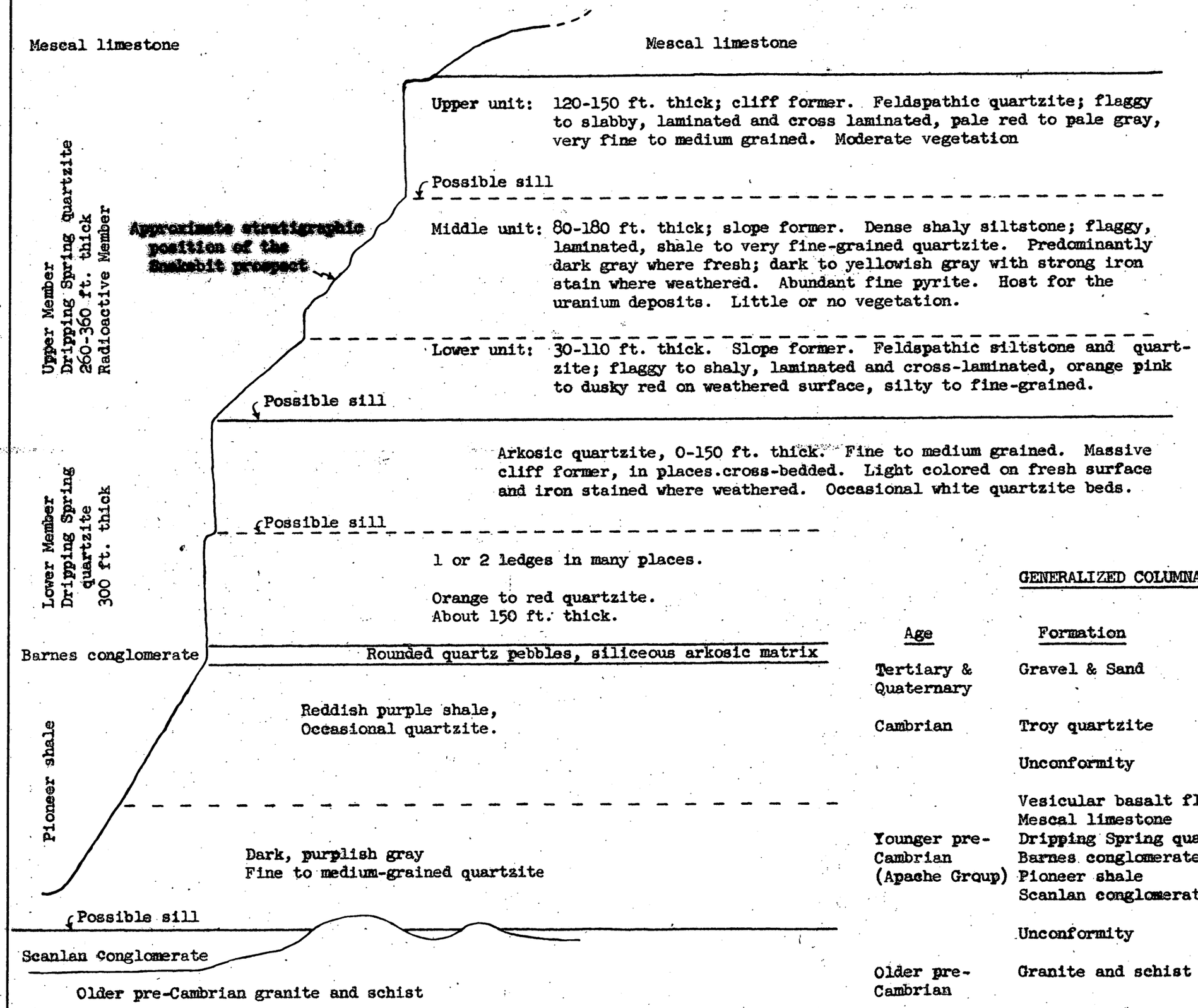
A generalized section of the geology in the region of the Sunshine deposit is given in Plate I. At the mine the Precambrian Bringing Spring beds strike N 70° W and dip 5° N.

The deposit is in the upper member of the Bringing Spring quartzite, 145 feet stratigraphically below the base of the Precambrian Mesozoic Limestone. The Bringing Spring immediately below the deposit also is a part of the upper member, but might belong to either the middle or lower unit shown in Plate I. This part of the Bringing Spring forms a cliff estimated to be about 100 feet high. The cliff is underlain by a dishes sill that appears to be in excess of 200 feet thick. Immediately above the cliff-forming interval, the upper Bringing Spring, over a stratigraphic interval of about 60 feet is a slope-forming, rather massive, fine-grained quartzite. It is gray to dark gray but weathers to a dirty brown. Very fine-grained sulphides, mainly pyrite, are disseminated throughout and also occur as veinlets in the rock. As this slope-forming interval is followed upward it gradually becomes a light-colored, thinner bedded, and purer quartzite and within about fifty feet of the Mesozoic it is partly cliff-forming. About 100 feet above the base of the slope-forming interval disseminated sulphides disappear.

The workings consist of a 120-foot NW-trending adit and a small amount of exploration near the adit portal. Figure 4 shows the adit and some of the geologic features of the deposit. The adit is in the basal part of the slope-forming interval of the Bringing Spring.

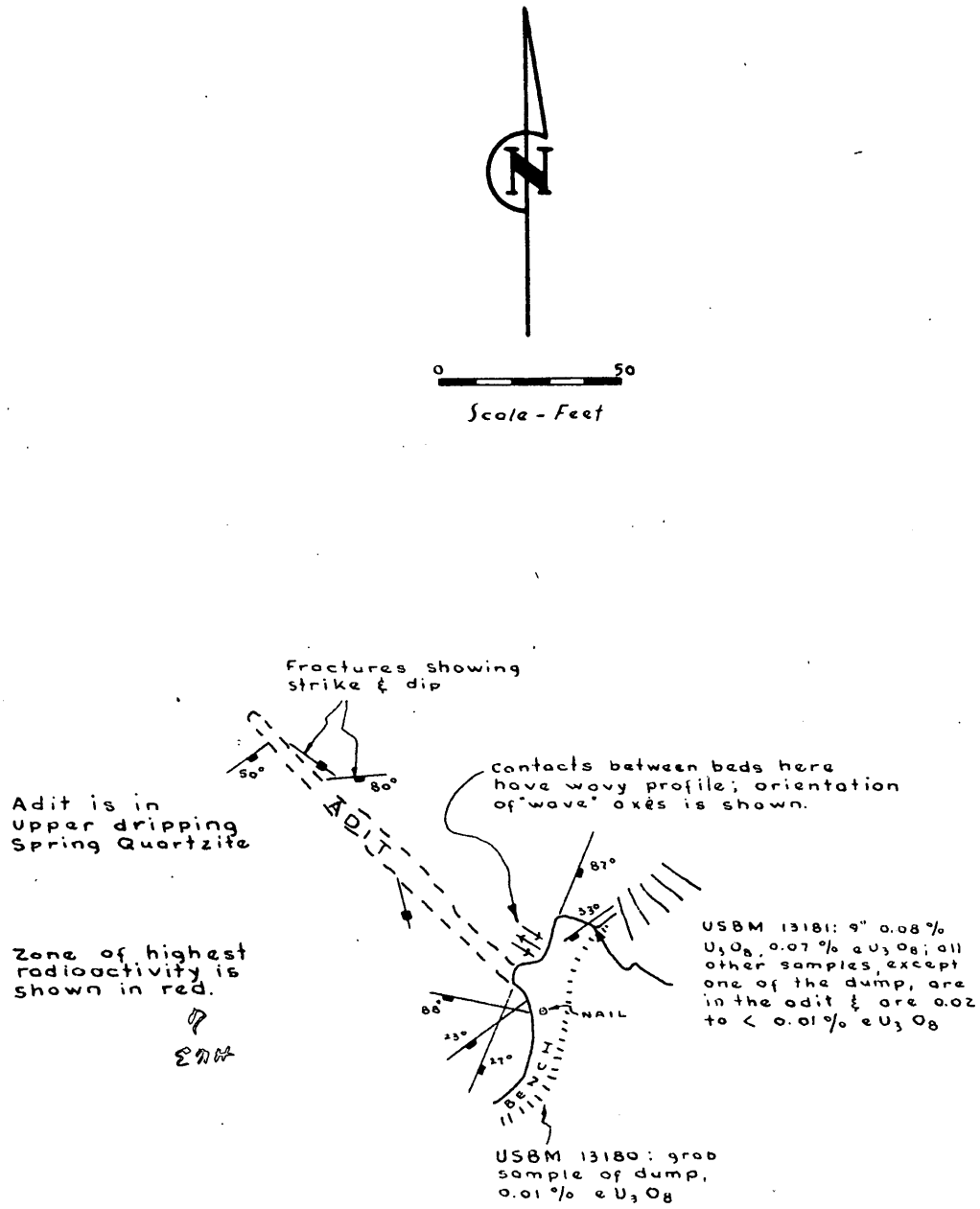
PLATE I

DIAGRAMATIC SECTION OF APACHE GROUP IN GILA COUNTY AND ADJACENT AREAS, ARIZONA



GENERALIZED COLUMNAR SECTION

Age	Formation	Thickness (feet)	Average Thickness
Tertiary & Quaternary	Gravel & Sand		
Cambrian	Troy quartzite	500	
	Unconformity		
Younger pre-Cambrian (Apache Group)	Vesicular basalt flow	0-75	75
	Mescal limestone	225-400	300
	Dripping Spring quartzite	450-700	700
	Barnes conglomerate	0-50	
	Pioneer shale	150-250	250
	Scanlan conglomerate		
	Unconformity		
Older pre-Cambrian	Granite and schist		



DMEA 3710

FIGURE 4 GEOLOGIC MAP, CABLE DEV. AND MFG. CO. SNAKEBIT PROSPECT, GILA COUNTY, ARIZONA

Here the rock is a gray to gray-green, fine-grained quartzite in irregular beds two inches to two feet thick. In places the bedding is quite poorly defined. Some of the quartzite between beds have a wavy profile that may be either a primary sedimentary feature or an effect of deformation. The beds locally contain thin, dark laminae which have a carbonaceous appearance. Some black specks of carbon (?) are surrounded by a bleached halo.

As shown in figure 4, fracturing is a rather prominent feature. The main fracture system strikes about east and dips vertically to about 80 degrees south. The second most prominent system strikes at about right angles to the first and dips almost vertically. Other fracture directions were noted; one of these, striking in a northeasterly direction and dipping from 65 to 75 degrees south may have had a bearing on the distribution of radioactive minerals, as the most radioactive zone is cut by these fractures and is elongated in the direction of the fractures. The fractures in the cliff-forming interval that underlies the deposit are relatively prominent and open whereas in the slope-forming interval the fractures are comparatively inconspicuous and are generally sealed with gouge or some similar material.

No ore minerals were recognized, but according to the habit of similar deposits, there might be torbernite, meta-torbernite, autunite, and uranophane. Pyrite is widely distributed and a small amount of chalcopyrite was recognized in rock near the portal. Iron oxides in the form of limonite and hematite also were recognized.

The highest radioactivity is found at the surface near the portal in a zone about two feet above the floor of the adit. This zone more or less parallels the bedding and is about 9 inches thick. It can be traced about 35 feet along the face. At the northeast end the zone disappears under talus and at the southwest end the zone apparently dies out in the host rock. The zone also dies out in the adit. Most of the low-angle fracturing mentioned above is in or near this radioactive zone. But aside from their proximity to each other and their similar orientation no indications were found of a genetic relationship between this fracture system and the radioactive zone.

Inside the adit, at about 40 feet from the portal to within 10 feet of the face, there is another slightly radioactive zone one to two feet thick. This zone is about one foot below the back of the adit. It does not display any fracture control but, like the zone at the portal, is suggestive of bedding control of the radioactive mineralization. The higher radioactivity near the portal is perhaps the result of a combination of fracture control and bedding control.

GRADE

No ore is known to have been shipped from this property, so grade information is based entirely on sampling. A sample of the radioactive zone at the surface (WEEM 1)(A1) assayed chemically 0.06 percent U_3O_8. The radiometric assay of this sample was 0.07 percent U_3O_8. This is the highest grade zone that can be found on the property. The slightly radioactive zone in the adit averages

radiometrically (USBM 13173, 13177, and 13178) 0.02 percent U_3O_8; no chemical assay was made of this material. Other samples in the adit assayed radiometrically (USBM 13173, 13174, 13176, 13179) 0.01 or less than 0.01 percent U_3O_8.

EXPLORATION

The applicant proposes a total of 850 feet of tunnel, 100 feet of raise and 2,000 feet of drilling. This work would include extension of the present adit at least 350 feet.

RESERVES

Indicated and measured reserves of rock containing slightly less than 0.1 percent U_3O_8, based on small inferred extensions from the surface radioactive zone, are estimated at 5 to 10 tons. Extensions of this same radioactive zone might exist to the northeast and to the southwest. On this basis an additional 10 tons of marginal grade rock can be inferred.

CONCLUSIONS AND RECOMMENDATIONS

The Snakebit deposit is too thin and too low grade to offer attractive exploration possibilities. The best places to look for ore would be the ground northeast and southwest of the adit portal. The known deposit, however, suggests that whatever radioactive rock might be found in this ground would not be of a significant tonnage, or commercial grade. It is recommended, therefore, that government participation in this project be denied.

DMEA
Date Rec'd
MAR 1 1955
BUREAU OF MINES
Denver, Colorado

February 28, 1955

DMEA-3710

MAR 4 - 1955

To: Mr. W. H. King
Regional Director
DMEA Bureau of Mines
224 New Custom House
Denver, Colorado

From: Cable Development and Manufacturing Company, Inc
118 S. P. Court
Globe, Arizona

Subject: DMEA loan application
Snakebit Group
McMillan Mining District
Gila County, Arizona

1. Form MF-103
   6 supplemental sheets attached
2. Assignment of lease from LeRoy Patterson, District Mgr to Cable Development and Mfg Co, Inc
3. Photostats of Mining Lease and Option from C. S. Black to LeRoy Patterson.
4. Key Map showing general location with regard to roads and radio-metric anamolies.
5. Claim map with claims involved shaded in brown.
6. Plan of Snakebit Adit Tunnel and portion of proposed exploration tunnel.
7. Map showing location of property with relation to Hwy 60
8. Sectional map showing radio-metric survey of Snakebit Adit tunnel and geologic features.
9. Minutes of special meeting of board of directors of Cable Development and Mfg Co, Inc authorizing LeRoy Patterson to apply for DMEA loan and obligate the company for the payment of exploration work.
10. Landlords Subordination Agreement.

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

DMEA
Date Received
MAR 1 1955

Department of the Interior
Defense Minerals Administration
RECEIVED
MAR 4 - 1955
BUREAU OF MINES
Denver, Colorado

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. Denver 3710
Metal or Mineral Uranium
Date Received 3-4-55
Estimated Cost $34,550
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: Cable Development and Manufacturing Co, Inc
118 S. P. Court., Globe, Arizona

Sheet attached giving additional information

(*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. sheet attached

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

(*d*) If a partnership, add to the above statement the names and addresses of all partners. not applicable

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 sheet attached

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

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise
sheet attached with copy of lease and assignment

(*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. sheet attached

(*e*) If you own the land, describe any liens or encumbrances on it not applicable

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

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

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

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

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

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

16—66551-1

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

(*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. sheet attached

(*c*) The work will start within 10 days and be completed within 10 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. sheet attached

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

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

(*b*) *Labor, supervision, consultants.*—Include an itemized schedule of numbers, classes and rates of wages, salaries or fees for necessary labor, supervision and engineering and geological consultants. not applicable

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel. not applicable

(*d*) *Operating equipment.*—Furnish an itemized list of any operating equipment to be rented, purchased, or which is owned and will be furnished by the Operator, with the estimated rental, purchase price, or suggested use-allowance based on present value, as the case may be. not applicable

(*e*) *Rehabilitation and repairs.*—Furnish a detailed list showing the cost of any necessary initial rehabilitation or repairs of existing buildings, installations, fixtures, and movable operating equipment, now owned by the Operator and which will be devoted to the exploration project. not applicable

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

(*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. not applicable

(*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.

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 February 28, 1975

Cable Development and Mfg Co, Inc
(Applicant)

By Le Roy Patten

District Manager

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

1. Name of applicant-

(a) Cable Development and Manufacturing Co, Inc.
118 S. P. Court
Globe, Arizona

(b) A corporation formed in the State of New York.

(c) The officers of the corporation and their names and addresses:

President --	T. M. Fedder,	545 Fifth Avenue New York City, N. Y.
Vice-Pres.--	B. A. Fedder,	545 Fifth Avenue New York City, N. Y.
Sec'y-Treas.	M. Wallace,	545 Fifth Avenue New York City, N. Y.

Cable Development & Mfg Co, Inc
118 S. P. Court
Globe, Arizona

3. Applicant's property rights.

(a) The following unpatented lode mining claims situated in the McMillan Mining District, Gila County, Arizona, the names of which, together with the Docket number and page as recorded in the office of the County Recorder of Gila County, Arizona:

NAME OF CLAIM	DOCKET	PAGE
Snakebit No.1	12	488
Snakebit No.2	12	489
Snakebit No.2 Amended	22	191
Snakebit No.3	12	490
Snakebit No.4	12	491
Snakebit No.4 Amended	22	192
Snakebit No.5	12	492
Snakebit No.5 Amended	25	310
Snakebit No.6	12	493
Snakebit No.6 Amended	25	311

(b) The property is known as the SNAKEBIT

(c) Applicants interest in the land is as Lessee with an Option to Purchase.

(d) Copy of the Lease and Option is attached in the form of a photostat of the original document together with assignment from LeRoy Patterson, District Manager for the Cable Development and Mfg Co, Inc to the Cable Development and Manufacturing Company, Inc.

(d) Landlords Subordination Agreement attached

Cable Development & Mfg Co, Inc
118 S. P. Court
Globe, Arizona

4. Physical description.

(a) The present development consists of an adit tunnel 103 feet in length driven during November and December 1954 and January 1955 and an access road approximately 2500 feet in length constructed from the existing road on the mesa to about 150 feet above the portal of the adit tunnel. Map showing this development attached.

(b) There has been no past production. Ore expressed in per cent uranium oxide determined by radio-metric count is shown on the accompanying map. These values have been checked by chemical analysis and have been corrected down by 0.05 mr per hour. The value of the exposed ore is calculated to be 0.08% uranium oxide approximately throughout the entire length of the adit.

(c) The exploration is being conducted entirely in the Dripping Springs quartzite of the Apache series of central Arizona. The Dripping Springs quartzite, a precambrian quartzite, is a metamorphosed arkosic sediment approximately 200 feet in thickness at the point of development. The development is taking place in approximately the middle third of the formation in a shalely member approximately 50 feet in thickness. The entire middle member has an abnormally high radio-metric count which is more pronounced in the immediate area developed by the adit tunnel. Both at the portal of the adit and along the length of the tunnel, 103 feet, the radio-metric count runs from 0.08 mr/hr to 0.40 mr/hr. The mineralization where strongest shows in the form of a calcium-uranium-phosphate, calcium-uranium-sulphate and an unidentified uranium mineral which may be a uranium-fluorine compound.

Cable Development and Mfg Co, Inc
118 S. P. Court
Globe, Arizona

4 Physical description
(c) continued from previous sheet

The mineralization appears to be intensified in the adit tunnel after exposure to the atmosphere, suggesting that dilute uranium solutions evaporate and depsoit the minerals in solution as an effloresecence on the sides of the tunnel. The adit follows the general dip of the beds or strata of the quartzite. It is hoped that further exploration by means of tunnel, raising and radiometric drill probing will expose bedded deposits as well as a continuation of the present lower grades.

(d)
The group of claims under development is situate in the Tonto National Forest about 45 miles north of Globe, County seat of Gila County, Arizona. The area is accessible by U. S. Highway 60 to Seneca, thence by dirt and gravel road to within 150 feet of the adit tunnel and most parts of the entire group of six claims.

(e)
Ample supplies of labor are available either locally on the Apache Indian Reservation or at Globe, Arizona. Mining supplies are available generally in Phoenix 130 miles south. Water for mining purposes is available on the property. Power will be generated at the site, no power line serves the area.

Cable Development and Mfg Co, Inc
118 S. P. Court
Globe, Arizona

5. The exploration project.

(a) The uranium minerals for which we wish to explore are principally: Autunite, Meta-torbernite, Uraninite, Uranophane and a presently unidentified uranium-fluorine mineral.

(b) The proposed work as partially detailed on the accompanying map consists of 850 feet of tunnel; 100 feet of raise; 2000 feet drill hole for radio-metric probing. It is planned to continue the present adit tunnel on its present course for at least 200 feet with the additional tunneling to be located by means of sampling and probing. Dust collectors will be installed to sample each round of drill holes so that chemical analysis can be correlated with radio-metric count.

(c) The work will start within ten days after approval of this application and be completed within 10 months from the date of an exploration project contract.

(d) This company has had several years experience in the manufacturing business and administration of large construction projects. The project will be under the supervision of LeRoy Patterson, District Manager for the Cable Development and Mfg Co, Inc, who has been engaged in mining exploration projects for the past two years in addition to 15 years of heavy construction experience.

Cable Development and Mfg Co, Inc
118 S. P. Court
Globe, Arizona

6. Estimate of costs

(a) Independent contract

850 feet 5 X 7 tunnel @ $33.00	$ 28,050.00
100 feet 4 X 4 raise 25.00	2,500.00
2000 feet drill hole for radio-metric probing @ $2.00	4,000.00
Total cost of project	$ 34,550.00

(b) Not applicable
(c) Not applicable
(d) Not applicable
(e) Not applicable
(f) Not applicable
(g) Not applicable
(h) Not applicable

7. (a) We are prepared to furnish our share of the cost of the proposed project in accordance with the regulations on Government participation (Sec,7 DMEA No.1)

(b) The Cable Development and Mfg Co, Inc will pay for all costs of the exploration work covered in the application and submit monthly reports to the DMEA for payment. Company resolution attached hereto.

ASSIGNMENT OF MINING LEASE AND OPTION

KNOW ALL MEN BY THESE PRESENTS:

That I, LeROY PATTERSON, of Globe, Gila County, State of Arizona, for and in consideration of the sum of TEN ($10.00) DOLLARS, lawful money of the United States of America, and other valuable consideration, to me in hand paid by the CABLE DEVELOPMENT AND MANUFACTURING CO., INC., a corporation organized and existing under and by virtue of the laws of the State of New York, the receipt of which is hereby acknowledged, do by these presents sell, convey, assign, transfer and set over unto the said CABLE DEVELOPMENT AND MANUFACTURING CO., INC., its successors and assigns, that certain Indenture of Mining Lease and Option, bearing date the 10th day of February, 1955, made and executed by C. S. BLACK and LULU P. BLACK, husband and wife, as Lessors therein, and LeROY PATTERSON, as Lessee therein, covering the following described mining claims and premises, to-wit:

> All those certain unpatented lode mining claims situated in the McMillian Mining District, Gila County, Arizona, the names of which, together with the location notices thereof, are of record in the office of the County Recorder of said Gila County, in the Docket and at the pages thereof, as follows, to-wit: -

NAME OF CLAIM	DOCKET	PAGE
Snakebit No. 1	12	488
Snakebit No. 2	12	489
Snakebit No. 2 Amended	22	191
Snakebit No. 3	12	490
Snakebit No. 4	12	491
Snakebit No. 4 Amended	22	192
Snakebit No. 5	12	492
Snakebit No. 5 Amended	25	310
Snakebit No. 6	12	493
Snakebit No. 6 Amended	25	311

for the term of ten (10) years from and after the 10th day of February, 1955, with the right and privilege of renewing the same for an additional period of ten (10) years, as provided in said Mining Lease and Option, and reserving unto the Lessors therein,

certain royalties in the amount and payable as in said Mining Lease and Option provided, and with all and singular the premises therein mentioned and described, to have and to hold the same unto the said CABLE DEVELOPMENT AND MANUFACTURING CO., INC., its successors and assigns, from the date hereof, for and during the remainder yet to come of the said term mentioned in said Mining Lease and Option, and any renewal or extension thereof as provided for therein.

IN WITNESS WHEREOF, I have hereunto set my hand this 25th day of February, A. D., 1955.

LeRoy Patterson

STATE OF ARIZONA }
COUNTY OF GILA } ss:

On this the 25th day of February, 1955, before me, the undersigned officer, personally appeared LeROY PATTERSON, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged that he executed the same for the purpose therein contained.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal.

Colleen G. Lewis
Notary Public

My commission expires:
March 13, 1956.

MINING LEASE
AND OPTION

THIS INDENTURE, made this 10th day of February, 1955, between C. S. BLACK and LULU P. BLACK, husband and wife of Globe, Gila County, Arizona, first parties, hereinafter called "Lessors", and LeROY PATTERSON, of the same place, second party, hereinafter called "Lessee":

W I T N E S S E T H That:

The Lessors for and in consideration of the royalties hereinafter reserved, and the covenants and agreements hereinafter expressed, and by the Lessee to be kept and performed, have leased, let and demised, and by these presents do lease, let and demise unto the Lessee, all of the following described unpatented lode mining claims, to-wit:

All those certain unpatented lode mining claims situated in the McMillan Mining District, Gila County, Arizona, the names of which, together with the location notices thereof are of record in the office of the County Recorder of Gila County, in the Docket and at the pages thereof, as follows, to-wit:

NAME OF CLAIM	DOCKET	PAGE
Snakebit No. 1	12	488
Snakebit No. 2	12	489
Snakebit No. 2 Amended	22	191
Snakebit No. 3	12	490
Snakebit No. 4	12	491
Snakebit No. 4 Amended	22	192
Snakebit No. 5	12	492
Snakebit No. 5 Amended	25	310
Snakebit No. 6	12	493
Snakebit No. 6 Amended	25	311

TO HAVE AND TO HOLD the same unto the said Lessee for the term of ten (10) years from and after the 10th day of February, 1955, unless sooner forfeited, or terminated, through the violation of any covenant herein contained against the Lessee, or other termination as hereinafter provided. The Lessee shall have the right, privilege and option of renewing this lease and option for an additional period of ten (10) years, upon the same terms and conditions as herein contained, by giving notice to the Lessors on or before

thirty (30) days of the expiration of the term hereof of his intention to renew this lease and option.

In consideration of the leasing of said premises, the Lessee hereby covenants and agrees with the Lessorsas follows:

1. The Lessee shall be entitled to take possession of said mining claims and premises immediately after execution of this Lease, and shall have the exclusive right and privilege to explore, develope, sample, drill, mine and operate said mining claims and premises, and to mine, extract, ship and sell or dispose of ore and minerals therefrom during the term hereof, subject to the conditions hereinafter set forth.

2. It is understood and agreed that the Lessee has heretofore done and performed, under a former lease on said mining claims, certain work consisting of the construction of a tunnel approximately one hundred (100) feet in length on said mining claims and that the Lessee shall not be required to do or perform any further work or improvements upon said mining claims prior to the first day of July, 1955.

3. The Lessee agrees that, during each six months of the term of this Lease, beginning on the 1st day of July, 1955, he will either extend the present tunnel on said premises, constructed by him as aforesaid, of the same size and dimensions, for an additional 100 feet in length, or construct another tunnel of the same dimensions and length on one of the said claims, or do or perform other development work on said claims of an amount equal to the construction of such tunnels.

4. To do and perform in each year during the existence of this Lease within the time required by law, sufficient work and improvements upon said mining claims to cover all assessment or annual labor required by law to be done and performed upon or for the benefit of each of said mining claims on or before May 1st for

each year during the term hereof, and to cause an affidavit, showing the performance of said work, to be made and filed in the office of the County Recorder of said Gila County, within the time required by law.

5. To do and perform all work upon said mining claims in accordance with good mining and laws of the State of Arizona, and to properly timber all workings wherever necessary.

6. To keep at all times the drifts, shafts, tunnels or other workings where work may be carried on by Lessee thoroughly drained and clear of loose rock and rubbish, unless prevented by extraordinary mining casualties.

7. To furnish at his own expense all tools, machinery, equipment and supplies necessary to work the said mines or premises hereby leased, and to supervise and fully do and perform all work hereunder, according to his own manner or method and system, and the Lessors to reserve and hold no control over said Lessee in the doing of such work, other than as to the result to be accomplished.

8. To carry industrial insurance covering all employees engaged in work on said claims, and to assume all liability for injuries to or death of any person in his employ or to third persons, occasioned by any of his acts, and the Lessee covenants to save and hold the Lessors harmless on account thereof.

9. To pay for all labor, material and supplies to be done for or furnished to the said Lessee or to any person or persons under or in privity with him upon said premises, and in the event the Lessee shall fail to pay for such labor, material and supplies, then the Lessors may, at their election, declare a forfeiture of this lease as hereinafter provided.

10. To post and keep posted at all times during the existence of this Lease, notice of non-liability for labor performed or material furnished at all places, as required by the laws of the State of Arizona.

11. To allow the Lessors, or their agents or representatives, to inspect any and all parts of said mining claims and premises, or the workings therein, at all reasonable business hours without unreasonable interferrence with the work then in progress, at the sole risk and expense of the Lessors.

12. The Lessee agrees to pay the Lessors, as royalty, ten (10%) percent of the net smelter or mill returns or other values, of all ores, minerals or other products mined and extracted from said mining claims and premises, and sold or disposed of by him. Said ores, minerals or other products, shall be shipped promptly in lots as mined to some smelter, mill or ore buyer. The "Net smelter or mill returns or other values" as herein used, shall mean the gross values of all ores, minerals or concentrates, recovered from said property, less deductions for smelter, treatment charges, and other deductions usually and ordinarily made by reputable custom smelters or mills. All royalties herein provided to be paid by the Lessee to the Lessors shall be deducted at the smelter or mill or by the paying agency and mailed direct to the Lessors, after each shipment is made. In the event that the paying agency will not pay the royalties direct to the Lessors, then the Lessee shall make full reports to the Lessors of all ores and minerals shipped and sold by him and will immediately after each shipment, remit to the Lessors their ten (10%) percent royalties. All royalties to be paid to Lessors at Globe, Arizona, or at such other place as may be designated by Lessors.

13. The Lessee agrees that after he has shipped, sold and disposed of ten car loads of ore or minerals of fifty tons each, of grades acceptable to the buying agency, from said mining claims and premises, under the terms of this Lease, he will furnish to the Lessors, or their heirs or assigns, a statement showing the total

amount of royalties which have been previously paid on account of ores shipped and sold, and in the event the total amount of such royalties shall be less than Six Thousand Dollars, he will immediately pay to the Lessors, a sum equal the difference between the amount of royalties previously paid and the said sum of Six Thousand Dollars, which last amount shall constitute an advance payment of royalties and shall be applied upon any royalties which may become due and payable on subsequent shipments of ores from said premises.

14. It is agreed that upon the termination of this lease, all tools, machinery, including machinery attached to surface, equipment and supplies, and all buildings, owned by the Lessee and placed upon said premises, may be removed therefrom at any time within thirty (30) days after the expiration or other termination hereof, provided that all royalties due hereunder shall have been paid in full; and provided, that all timbering and gallows-frames shall remain on said property and shall be and become the property of the Lessors.

15. In the event the Lessee or his assigns shall make default in any of the terms or provisions herein contained, then the Lessors may terminate this lease upon thirty (30) days notice to the Lessee of their intention to declare this lease at an end. If the Lessee shall fail within said thirty (30) days to correct and make good any violations of the terms and provisions of this lease on account of which such notice of default has been given, then and thereupon this lease shall terminate.

16. The Lessors, in consideration of the leasing of said premises and the mutual covenants and agreements herein contained, and the further consideration of the sum of One Dollar ($1.00) lawful money of the United States of America, in hand paid to the Lessors by the Lessee, the receipt of which is hereby acknowledged, do hereby give and grant unto the Lessee, the exclusive

right, privilege and option to purchase the mining claims and premises hereinbefore described, at any time during the existence of this lease and option, or any renewal or extension hereof as hereinbefore provided, for the sum of ONE HUNDRED AND FIFTY THOUSAND ($150,000.00) DOLLARS, in lawful money of the United States of America. All royalties which may be paid by the Lessee or his heirs or assigns, to the Lessors as hereinbefore provided in this Lease, shall be applied upon said purchase price and on the payment to the Lessors by the Lessee or his heirs or assigns of royalties equal to the sum of One Hundred Fifty Thousand ($150,000.00) Dollars under the provisions of this lease, the Lessors agree to make, execute, acknowledge and deliver to the Lessee, or his heirs or assigns, a good and sufficient mining deed conveying the said mining claims and premises to the Lessee or his heirs or assigns, free and clear of all liens and encumbrances, with good and merchantable title, subject only to the paramount title of the United States of America.

The Lessee, or his heirs or assigns, shall have the right and privilege of making additional payments from funds or sources other than the royalties on shipment of ores, as hereinbefore provided, and upon the payment in full of said entire purchase price, either from royalties or other funds, the said mining claims and premises shall be conveyed by the Lessors to the Lessee, or his heirs or assigns, as hereinbefore provided.

17. It is further agreed that if, by reason of the violation of any of the covenants and agreements contained in the foregoing Lease, the said Lease shall become forfeited under the terms hereof, then by forfeiture of said lease shall likewise operate to terminate the option to purchase said property and release the said Lessors from any obligation under said option. The Lessors expressly agree that the Lessee shall have the right and privilege of assigning this Lease and Option.

18. In the event of a termination of this lease and option, otherwise than by the purchase of said premises by the Lessee, the Lessee shall forthwith deliver to the Lessors the peaceable possession of said mining claims and premises and shall be relieved of any further liability hereunder, and in such event any and all sums of money theretofore paid by the Lessee, or his heirs or assigns, unto the Lessors, either as royalties or on account of the purchase price, shall be retained by the Lessors as rent for use and occupation of said property and as agreed liquidated damages for and on account of the termination of this lease and option.

19. The Lessee or his assigns may cease operations on said mining claims and premises and may terminate this lease and option and all further liability hereunder at the end of any calendar month of the year during said term by giving to the Lessors ten (10) days written notice of his intention to terminate this lease.

20. All notices herein provided for may be given in writing by personal delivery of said notice or may be given by registered mail addressed to both Lessors or Lessee at Globe, Arizona, and any periods of notice specified shall run from the date of personal delivery or mailing of said notice.

21. It is understood that the Lessee will make application for a loan under the Defense Minerals Exploration Program of the United States Government, and in this connection, the Lessors agree to sign an "Owner's Consent to Lien" on the proper form.

22. Time is of the essence of this lease and option and all of the terms and conditions herein contained shall extend to and be binding upon the heirs, executors, administrators and assigns of the parties hereto.

IN WITNESS WHEREOF, the parties hereto have executed

this lease at Globe, Arizona, as of the day and year first hereinabove written.

Lessors

Le Roy Patterson
Lessee

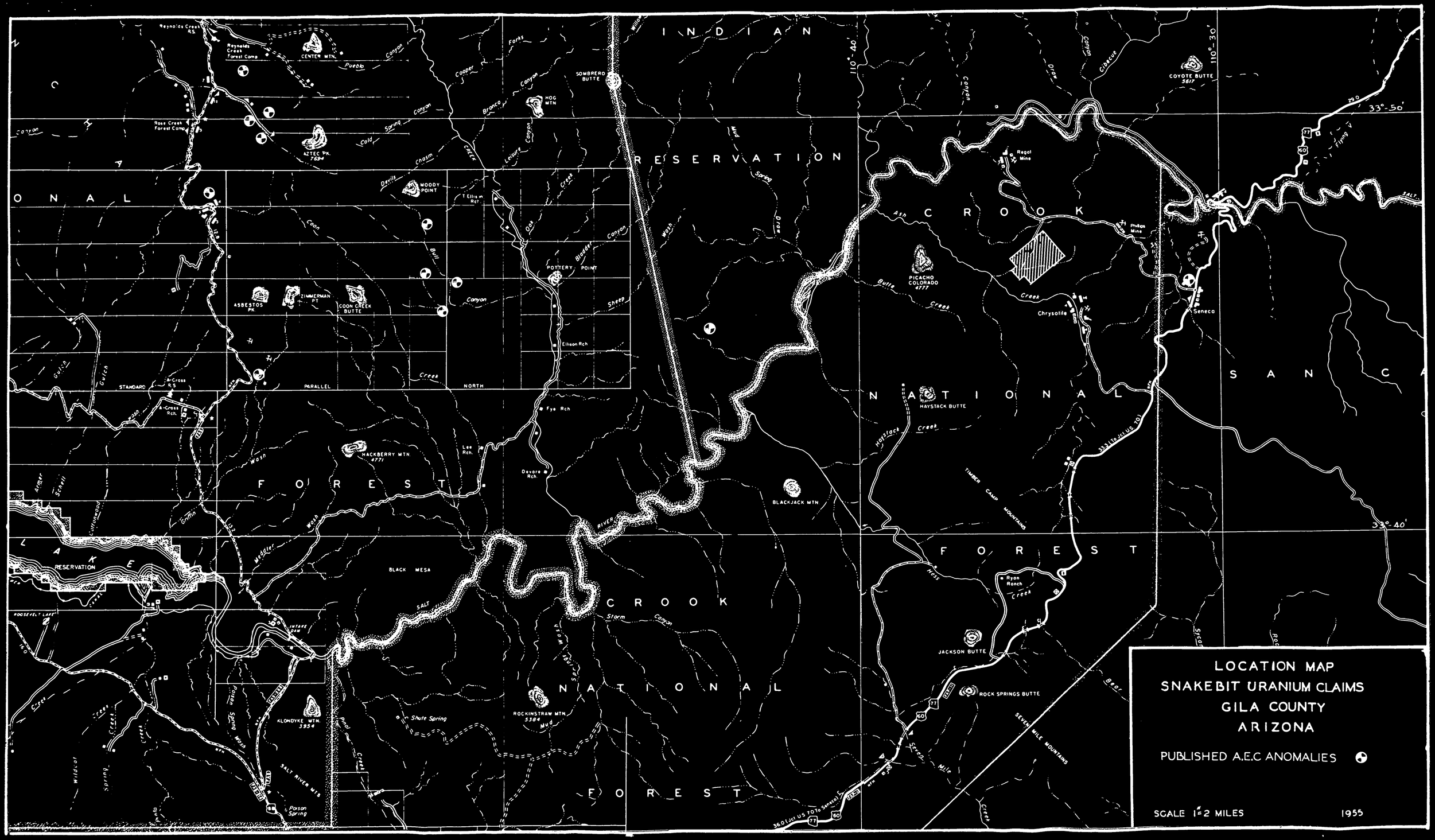
STATE OF ARIZONA)
: ss:
COUNTY OF GILA)

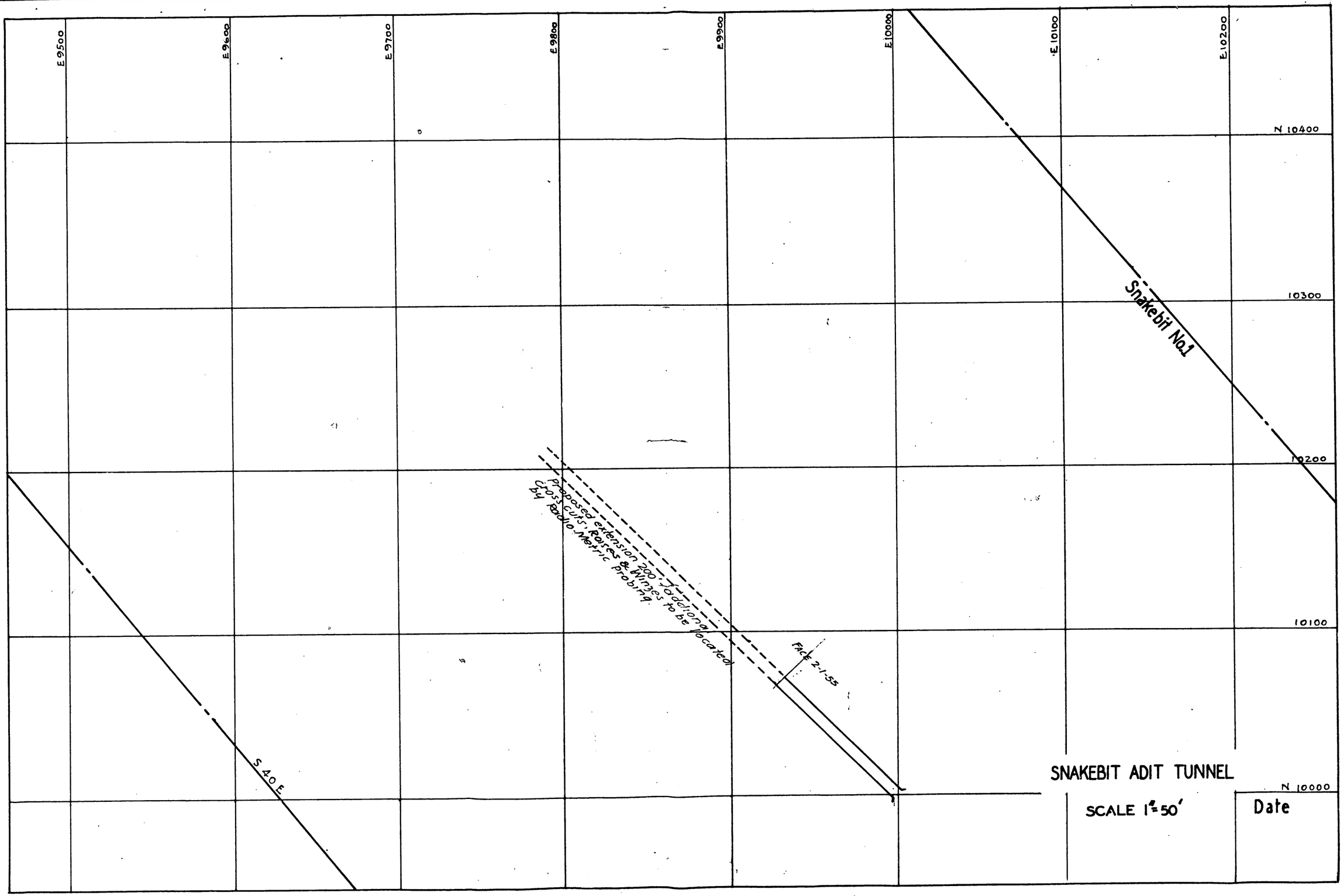
On this the 10th day of February, 1955, before me, the undersigned officer personally appeared C. S. BLACK and LULU P. BLACK, Lessors, and LEROY PATTERSON, Lessee, known to me to be the persons whose names are subscribed to the foregoing instrument and acknowledged that they executed the same for the purpose therein contained.

IN WITNESS WHEREOF, I have set my hand and official seal.

Notary Public

My Commission Expires:
March 13, 1956


LOCATION MAP
SNAKEBIT URANIUM CLAIMS
GILA COUNTY
ARIZONA
PUBLISHED A.E.C ANOMALIES
SCALE 1" = 2 MILES
1955
INDIAN
RESERVATION
CROOK
NATIONAL
FOREST
LAKE
RESERVATION
SAN
Reynolds Creek Forest Camp
CENTER MTN.
Ross Creek Forest Camp
AZTEC PK. 7694
MOODY POINT
SOMBRERO BUTTE
HOG MTN
COYOTE BUTTE 5617
Regal Mine
Phelps Mine
PICACHO COLORADO 4777
Chrysotile
Seneca
POTTERY POINT
ASBESTOS PK.
ZIMMERMAN PT.
COON CREEK BUTTE
Ellison Rch
STANDARD
PARALLEL
NORTH
Fye Rch
HACKBERRY MTN 4771
Lee Rch.
Desore Rch.
HAYSTACK BUTTE
BLACKJACK MTN
TIMBER CAMP MOUNTAINS
BLACK MESA
Ryan Ranch
JACKSON BUTTE
ROCK SPRINGS BUTTE
SEVEN MILE MOUNTAINS
ROCKINSTRAW MTN 5384
KLONDYKE MTN. 3954
SALT RIVER MTS
Pason Spring
Shute Spring
33°-50'
33°-40'
110°-40'
110°-30'


E 9500
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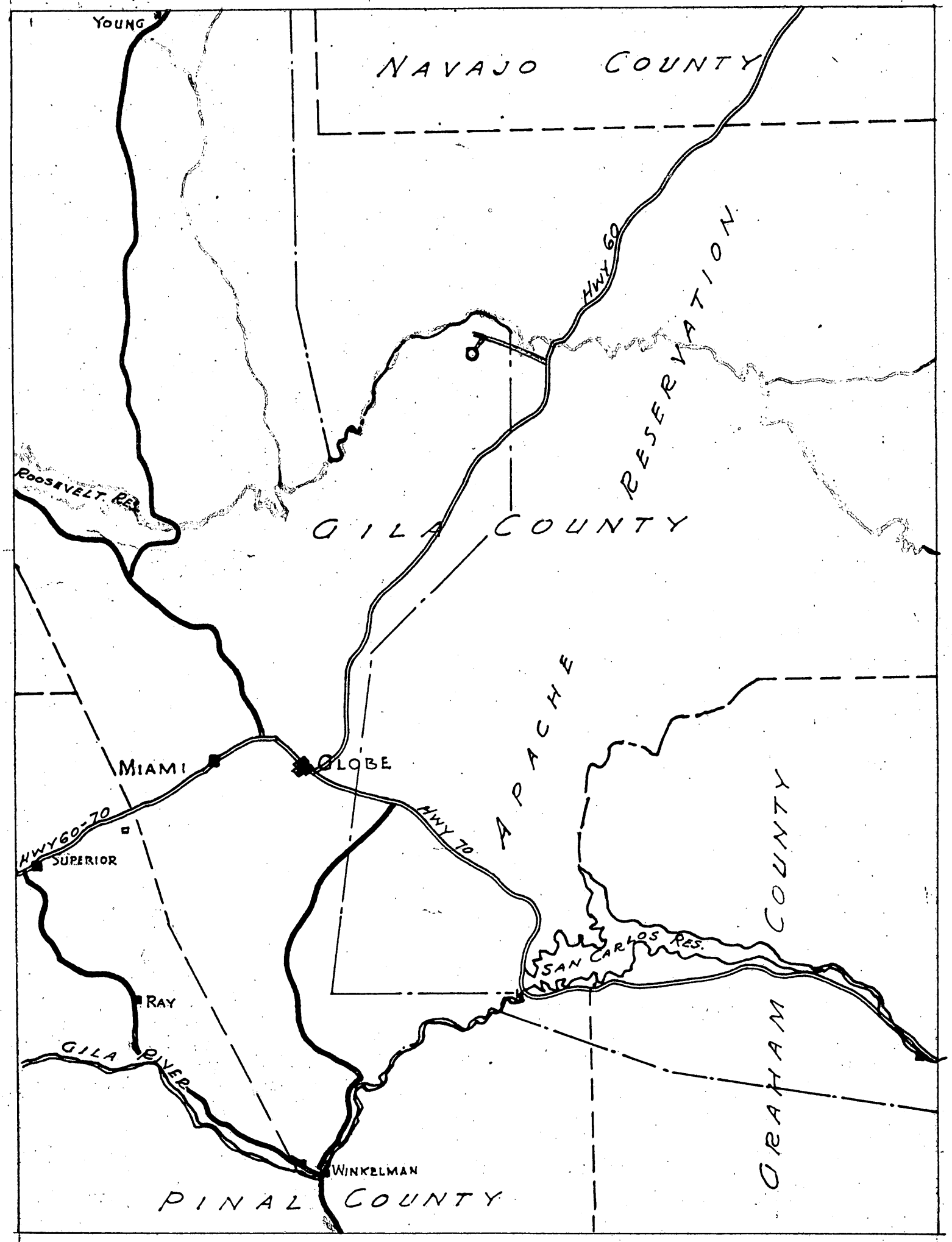
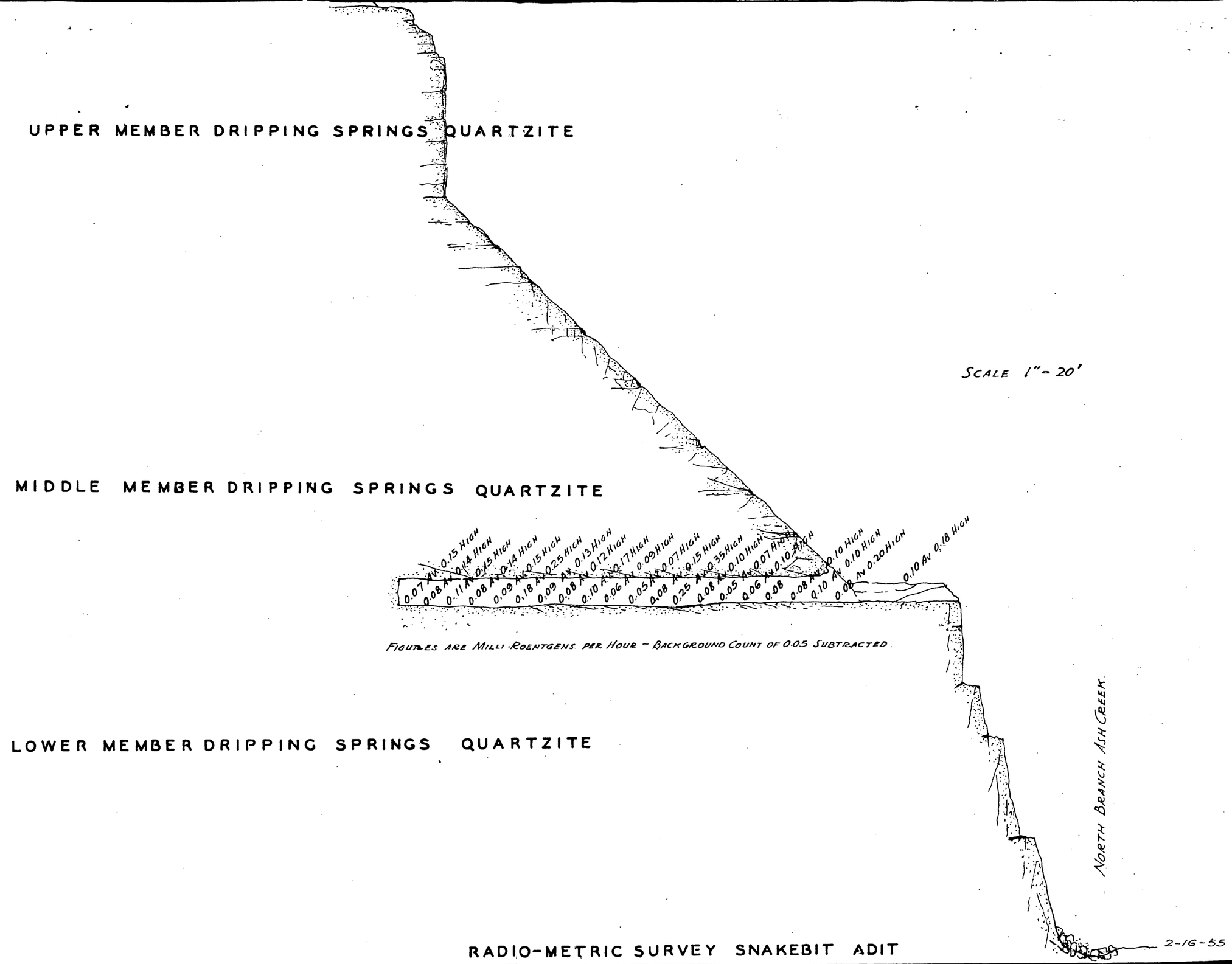
N 10000
Snakebit No.1
Proposed extension 200' of adjoining cross cuts, Raises & Winzes to be located by Apollo Metric Probing
Face 2-1-55
S 40 E
SNAKEBIT ADIT TUNNEL
SCALE 1"=50'
Date


YOUNG
NAVAJO COUNTY
HWY 60
APACHE RESERVATION
ROOSEVELT RES.
GILA COUNTY
MIAMI
GLOBE
HWY 70
HWY 60-70
SUPERIOR
SAN CARLOS RES.
GRAHAM COUNTY
RAY
GILA RIVER
WINKELMAN
PINAL COUNTY



RADIO-METRIC SURVEY SNAKEBIT ADIT

Surname 700
FLKnouse
Ching
Kilgaard
Gerhan
Selfridge
Yeffman

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

Mr. LeRoy Patterson
District Manager
Cable Development and
Manufacturing Company, Inc.
118 S. P. Court
Globe, Arizona

JUL 11 1955

Re: Docket No. DMEA-3710 (Uranium)
Snakebit Group of Claims
Gila County, Arizona

Dear Mr. Patterson:

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

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

Careful study of all our information, although noting a small amount of uranium mineralization on your claims, 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 your application for exploration assistance is denied. Such denial, however, is made without prejudice. In the event further work on your part discloses new and more favorable evidence of ore deposition on the property, we shall be pleased to consider a new application.

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

Sincerely yours,

C. O. Mittendorf

Administrator

FLKnouse:am
7-7-55
cc to: Admr. Reading File
Docket
Code 700
Mr. Knouse
Operating Committee
Messrs. J. E. Crawford, Rm. 3641
T. H. Kiilsgaard, Rm. 5222
J. O. Hosted, Rm. 3210, GSA
DMEA Field Team, Region III(2)

R.C.G.

(Docket Copy) 700

J. L. Kunnes

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

WASHINGTON 25, D. C.

July 8, 1955

Summary of Proposed Project

Object: Denial of application for exploration aid.

Docket No.: DMEA-3710

Commodity: Uranium

Applicant: Cable Development and Manufacturing Company, Inc.
118 S. P. Court, Globe, Arizona

Date of Application: February 28, 1955

Leased Property: Snakebit claims 1 to 6 inclusive and Snakebit Nos. 2, 4, 5, and 6 amended. Located on unsurveyed land along North Fork of Ash Creek Crook National Forest near intersection of 30° 45' 10" North latitude and 110° 35' west longitude. Salt River Mining District, Gila County, Arizona.

Amount of Application: $34,550.00

Work Proposed:

850 feet of 5 x 7 foot adit @ $33.00/ft.	$28,050.00
100 feet of 4 x 4 foot raise @ $25.00/ft.	2,500.00
2,000 feet of long hole drilling @ $2.00/ft.	4,000.00
Total estimated cost	$34,550.00

From the northwest face of an adit (approximately 100 feet from the portal in the Upper Dripping Spring Quartzite pre-Cambrian age) drift 850 feet, raise 100 feet, and drill 2,000 feet with a long-hole drill to explore the formation for uranium.

Field Team Report Dated: June 17, 1955

Examining Team

"There are no ore reserves. The weighted average of 8 channel samples, that were taken by the DMEA examining team, was 0.01 percent uranium pentoxide. None

of these samples indicated ore of minable grade. In addition to channel samples, a radiometric traverse of this adit was made by the examining team. This survey also did not indicate ore of minable grade.

"1. There is no indication from the geology, as it is now known, that significant reserves of uranium ore might be discovered.

"2. There is no indication from the results of sample assays or the radiometric traverse that a significant reserve of uranium ore might be discovered.

"3. Where neither ore grade assays nor geological indications pinpoint a target, promiscuous drifting in the Dripping Spring quartzite is considered to be prospecting, rather than exploration.

"The DMEA examining team believes that a significant amount of uranium ore will not be discovered. Therefore, the team recommends that the application for assistance to explore the Snakebit Claims for uranium be denied."

Field Team: July 17, 1955

"We concur with the recommendations of the field examiners that the application be denied."

Uranium Commodity Committee Comments:

Geological Survey - N. E. Nelson - July 5, 1955

Concurs with the denial recommendations of the Field Team.

Bureau of Mines - John E. Crawford - July 6, 1955

Concurs with recommendation of the Field Team that the application be denied.

Rare and Miscellaneous Metals Division
F. L. Knouse, July 7, 1955

The Applicant's proposed program of exploration consists of drifting 850 feet from the present face of an adit (approximately 100 feet long - driven in the basal part of the Dripping Spring quartzite), then raising and long-hole drilling from the adit, to further explore this quartzite member. To justify the program the Applicant reported that the entire middle Dripping Spring quartzite member (approximately 50 feet thick)

showed an abnormally high radiometric count that is more pronounced in the immediate area of the adit being 0.08 MR/hr. to 0.40 MR/hr. Eight channel samples cut from the adit and a radiometric survey of this adit and adit portal area showed only minor uranium mineralization. No ore minerals (uranium) were recognized but pyrite was widely distributed and a small amount of chalcopyrite was recognized near the adit portal. Additional prospecting along the outcrop of this Dripping Spring number may expose a favorable area to explore.

There is little evidence to expect a discovery would result from the porposed exploration program. Therefore, a denial letter has been written to the Applicant stating that if future work reveals evidence which could materially alter this opinion, we will be pleased to consider a new application.

Michael Ching

Michael Ching
For: Ernest Wm. Ellis, Chief
Rare and Miscellaneous
Metals Division

7/7/55 gla

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

RECEIVED
JUL - 7 1955

July 6, 1955

Memorandum

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

From: Bureau of Mines Member
Uranium Commodity Committee

Subject: Report of Examination, DMEA Docket 3710, Cable Development and Manufacturing Company, Inc., Snakebit claims, Gila County, Arizona

I have reviewed the Field Team report of examination of Cable Development and Manufacturing Company, Inc., DMEA Docket 3710; and I have discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

We concur with the recommendation of the Field Team that the application of the Cable Development and Manufacturing Company, Inc., 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

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

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BUREAU OF MINES
WASHINGTON 25, D. C.

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John E. Crawford

7/6/55 gfa

IN REPLY REFER TO:

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

RECEIVED
JUL - 6 1955

July 5, 1955

Re: DMEA 3710
Cable Devel. & Manuf. Co.
Snakebit Claims
Gila Co., Ariz.
$34,550 - Uranium

Memorandum

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

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

Subject: Review of Field Team report.

The sampling in the adit showed a low average U_3O_8 content (0.014%), but, as suggested, does not rule out the possibility that other locations along the outcrop of the favorable beds might be better places for exploration.

I concur with the denial recommendations of the Field Team.

N. E. Nelson

N. E. Nelson

IN REPLY REFER TO:

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

RECEIVED
JUL - 6 1955

July 5, 1955

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N. E. Nelson

N. E. Nelson

NENelson:iml
G-7/5/55

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

IN REPLY REFER TO:

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

RECEIVED
JUL - 6 1955

July 5, 1955

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Cable Devel. & Manuf. Co.
Snakebit Claims
Gila Co., Ariz.
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G-7/5/55

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Docket file
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J. O. Hosted, 3210, GSA

IN REPLY REFER TO:

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

RECEIVED
JUL - 6 1955

July 5, 1955

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G-7/5/55

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Branch reading, 4212
DMEA (3)
Docket file
J. E. Crawford, 3641
J. O. Rosted, 3210, GSA

6/30/55 gla

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

WASHINGTON 25, D. C.

RECEIVED
JUN 24 1955

224 New Customhouse
Denver 2, Colorado

June 17, 1955

Memorandum

To: Chairman of the Operating Committee, DMEA

From: Field Team, Region III

Subject: Report of Examination, Docket DMEA-3710 (Uranium), Cable Development and Manufacturing Co., Inc., Snakebit claims, Gila County, Arizona

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

Minor amounts of uranium are found in thin short zones, but no significant tonnage is indicated. Further prospecting in the area might disclose mineralization which would warrant exploration at a later date.

We concur with the recommendation of the field examiners that the application be denied.

W. M. Traver

W. M. Traver

E. N. Harshman

E. N. Harshman

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
6-29-55
(date)

TRANSMITTED

JUN 17 1955

DMEA
Date Rec'd.
JUN 13 1955
BUREAU OF MINES
Denver Colorado

June 8, 1955

Memorandum

RECEIVED
JUN 14 1955

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

From : Superintendent, Southwest Experiment Station.

Subject : Field Examination Report, Docket DMEA-3710, Cable Development & Manufacturing Co.'s Snakebit Uranium Claims, Gila County, Ariz.

Enclosed are original and 8 copies of the section on Summary, Conclusions and Recommendations by William R. Hardwick of the Bureau of Mines and Leonid Bryner of the Geological Survey, and the section on Engineering by Hardwick for the above report. A separate section on Geology will be submitted by the Geological Survey.

As there seems to be little chance of discovering any significant amount of uranium ore by the proposed work, the DMEA examiners have recommended denial of Government exploration assistance. I concur with this recommendation.

Brochure is enclosed.

Walter R. Storms
Walter R. Storms

CC W. M. Traver (8)
Faick
DMEA-3710
DF

Reviewed by
DMEA OPERATING COMMITTEE
6-29-55
(date)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS MCKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA-3710, Cable Development & Manufacturing Co., Inc.

Snakebit Uranium Claims

Gila County, Arizona

William R. Hardwick, Mining Engineer
U. S. Bureau of Mines

Leonid Bryner, Geologist
U. S. Geological Survey

June 1955

Reviewed by
DMEA OPERATING COMMITTEE
6-29-55

TRANSMITTED
JUN 17 1955

RECEIVED
JUN 24 1955

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

By William R. Hardwick[1] and Leonid Bryner[2]

Cable Development & Manufacturing Co., a New York corporation, applied for assistance to explore its Snakebit claims, situated in Gila County, Ariz., for uranium. The applicant requested assistance in the amount of 75 percent of the costs of 850 feet of drifting, 100 feet of raise, and 2,000 feet of drill holes under the terms of the Defense Production Act of 1950, as amended. The estimated cost of the exploration as proposed by the applicant was $34,550.00.

The application was docketed as DMEA-3710. The docket was reviewed by R. D. Trace and J. E. Crawford, members of the Uranium Commodity Committee, then referred to the Field Team of Region III for a field examination and report on the proposed project.

The Snakebit claims were examined by William R. Hardwick and Leonid Bryner on May 5, 1955. LeRoy Patterson, district manager for the applicant company, accompanied and assisted the examining team during the field examination.

The Snakebit claims are situated about 30 air miles north of Globe in Gila County, Ariz., along the north branch of Ash Creek. The deposit is at the lower edge of a bench in the almost flat-lying upper member of the pre-Cambrian Dripping

---

1/ Mining engineer, U. S. Bureau of Mines
2/ Geologist, U. S. Geological Survey

Reviewed by
DMEA OPERATING COMMITTEE
6-29-55
(date)

Spring quartzite, 145 feet stratigraphically below the base of the Mescal limestone. The host rock is a rather massive gray fine-grained quartzite that weathers to a dirty brown. Sulfide minerals, especially pyrite, are disseminated in this rock for as much as 100 feet above the deposit.

The applicant has made a road to the claims and has driven an adit 103 feet in length.

There are no ore reserves. The weighted average of 8 channel samples, that were taken by the DMEA examining team, was 0.01 percent uranium pentoxide. None of these samples indicated ore of minable grade. In addition to channel samples, a radiometric traverse of this adit was made by the examining team. This survey also did not indicate ore of minable grade.

As a result of the DMEA field examination, a discussion of the project with R. S. Schwartz of the Atomic Energy Commission, a discussion of the project with LeRoy Patterson, district manager for the applicant, and a review of the application, the following conclusions are drawn:

1. There is no indication from the geology, as it is now known, that significant reserves of uranium ore might be discovered.

2. There is no indication from the results of sample assays or the radiometric traverse that a significant reserve of uranium ore might be discovered.

3. Where neither ore grade assays nor geological

indications pinpoint a target, promiscuous drifting in the Dripping Spring quartzite is considered to be prospecting, rather than exploration.

The DMEA examining team believes that a significant amount of uranium ore will not be discovered. Therefore, the team recommends that the application (DMEA-3710) of the Cable Development & Manufacturing Co., Inc. for assistance to explore the Snakebit claims for uranium be denied.

DMEA-3710, CABLE DEVELOPMENT & MANUFACTURING CO., INC.
SNAKEBIT URANIUM CLAIMS
GILA COUNTY, ARIZONA

Engineering Report

By William R. Hardwick
Mining Engineer
U. S. Bureau of Mines

June 1955

Reviewed by
DMEA OPERATING COMMITTEE
6-29-55
(Date)

DMEA-3710, CABLE DEVELOPMENT & MANUFACTURING CO., INC.
SNAKEBIT URANIUM CLAIMS
GILA COUNTY, ARIZONA

RECEIVED
JUN 4 1955

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Acknowledgments — 2
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Minable ore reserves and grade — 4
Present status — 5
Proposed exploration — 5
Conclusions — 6
Recommendations — 7

ILLUSTRATIONS

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INTRODUCTION

On March 1, 1955, LeRoy Patterson, acting for Cable Development & Manufacturing Co., Inc., a New York corporation, applied for assistance to explore the Snakebit uranium claims in Gila County, Ariz. for uranium. This application for aid in an exploration project, pursuant to DMEA Order-1 under the Defense Production Act of 1950, as amended, was docketed as DMEA-3710. The docket was reviewed by R. D. Trace and J. E. Crawford, members of the Uranium Committee, and referred to the Field Team, Region III, for a field examination and a report on the proposed project.

The applicant proposed to explore a segment of the upper Dripping Spring quartzite bed for uranium by driving 850 feet of drifts, 100 feet of raises, and 2,000 feet of drill holes at a total estimated cost of $34,550.00. This upper member of the Dripping Spring quartzite is everywhere abnormally radioactive.

The Snakebit claims were visited and examined on May 5, 1955 by Leonid Bryner, geologist, U. S. Geological Survey, and William R. Hardwick, mining engineer, U. S. Bureau of Mines. LeRoy Patterson, district manager for Cable Development & Manufacturing Co., Inc., accompanied the examining team.

The proposed exploration project was discussed with Roland J. Schwartz, representative of the Atomic Energy Commission, who previously had examined the Snakebit claims.

ACKNOWLEDGMENTS

Acknowledgment is due LeRoy Patterson, district manager for Cable Development & Manufacturing Co., Inc., who assisted the DMEA examining team. Acknowledgment also is due Roland J. Schwartz, Globe representative of the Atomic Energy Commission, who supplied information on the Snakebit claims and on the district.

LOCATION, TOPOGRAPHY AND CLIMATE

The Snakebit uranium claims are located on unsurveyed land along the North Fork of Ash Creek in the Crook National Forest near the intersection of 33° 45' 10" north latitude and 110° 35' west longitude. This particular locality is known as the Salt River Mining District, Gila County, Ariz. (figure 1).

The Snakebit claims are accessible by a three-fourths mile Jeep trail that branches south from the Fourth-of-July asbestos prospect road at a point approximately 3 miles from the Regal mine road. The Fourth-of-July prospect road branches southwestward from the Regal mine road at a point 6.3 miles from U. S. Highway 60. The Regal mine road branches westward from U. S. Highway 60 at a point one-half mile north of Seneca, or 37.5 miles north of Globe, Ariz.

The topography is rugged. Flat cliff-forming beds of sediments have been dissected by the drainage pattern to form deep canyons with nearly vertical sides. The single adit of the Snakebit uranium group is situated on the north side of

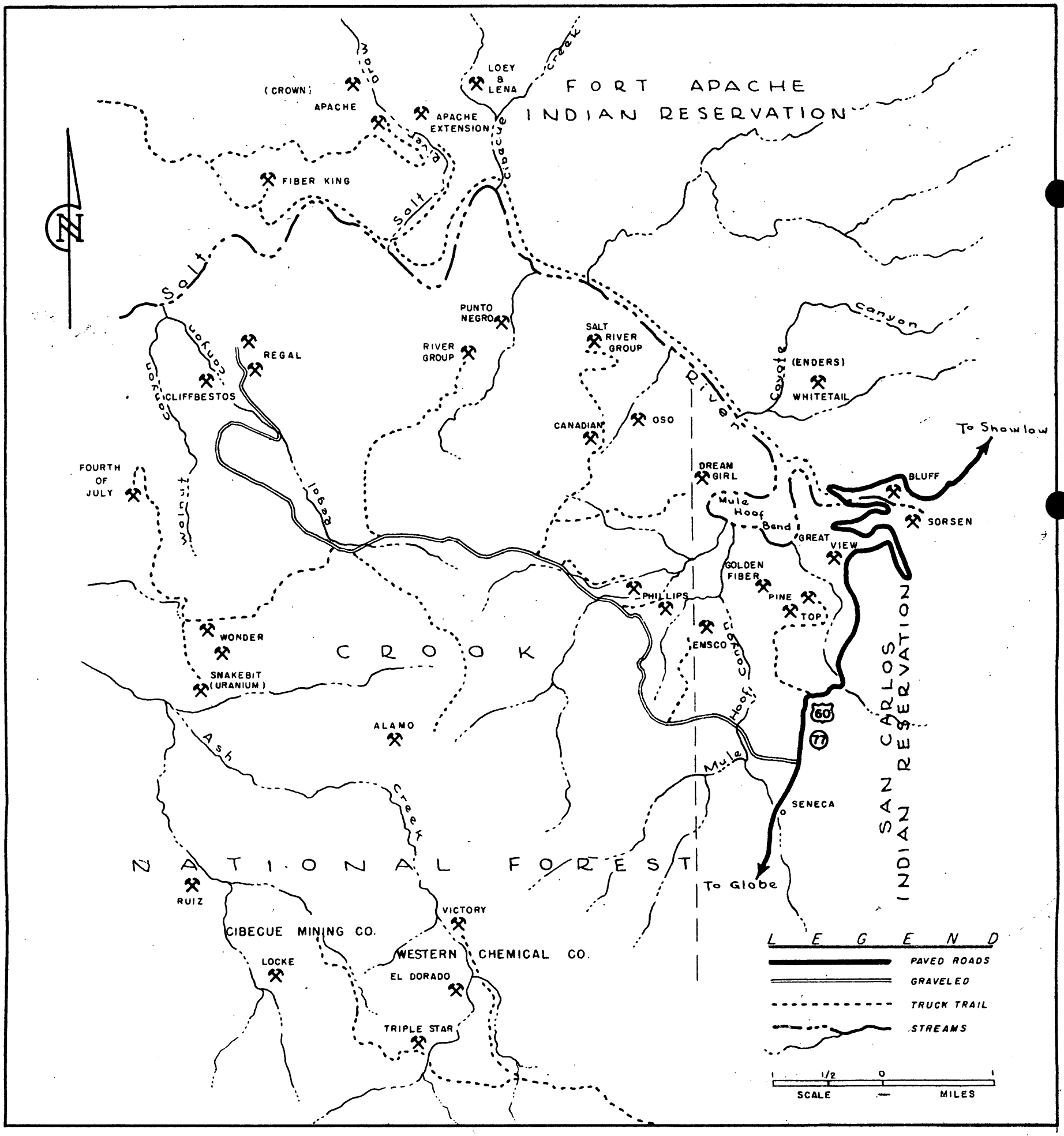

FIGURE - 1 - MINE LOCATION MAP - MAJOR PART OF SALT RIVER DISTRICT GILA COUNTY ARIZONA

the north branch of Ash Creek at an altitude of approximately 3,800 feet. This is 400 feet above the bottom of Ash Creek, or 1,100 feet below the rim of the canyon formed by Ash Creek.

The climate generally is mild. However, snow storms in winter and torrential rains in summer may interrupt work for short periods. Water is available in Ash Creek; timber is available from nearby sawmills; and general mine supplies are available in Globe. No power lines serve the area.

OWNERSHIP AND EXTENT

The Snakebit uranium claims (figure 2) were located by C. S. and Lulu P. Black shortly after the abnormally high radioactivity of the Dripping Spring quartzite member of the Apache group became known. LeRoy Patterson stated that the claims probably were located in the early part of 1954.

In February 1955, LeRoy Patterson obtained a lease and option on the Snakebit group, which he assigned to the Cable Development & Manufacturing Co., Inc., a New York corporation. The lease and option provided for a 10 percent royalty on all production, this to be applied on a purchase price of $150,000.00. The lease was to run for a term of 10 years with provision for renewal.

The group of claims included Snakebit Nos. 1 to 6, and Snakebit Nos. 2, 4, 5 and 6, amended (figure 2). All claims are unpatented, and are recorded in the Gila County Courthouse in Globe, Ariz.

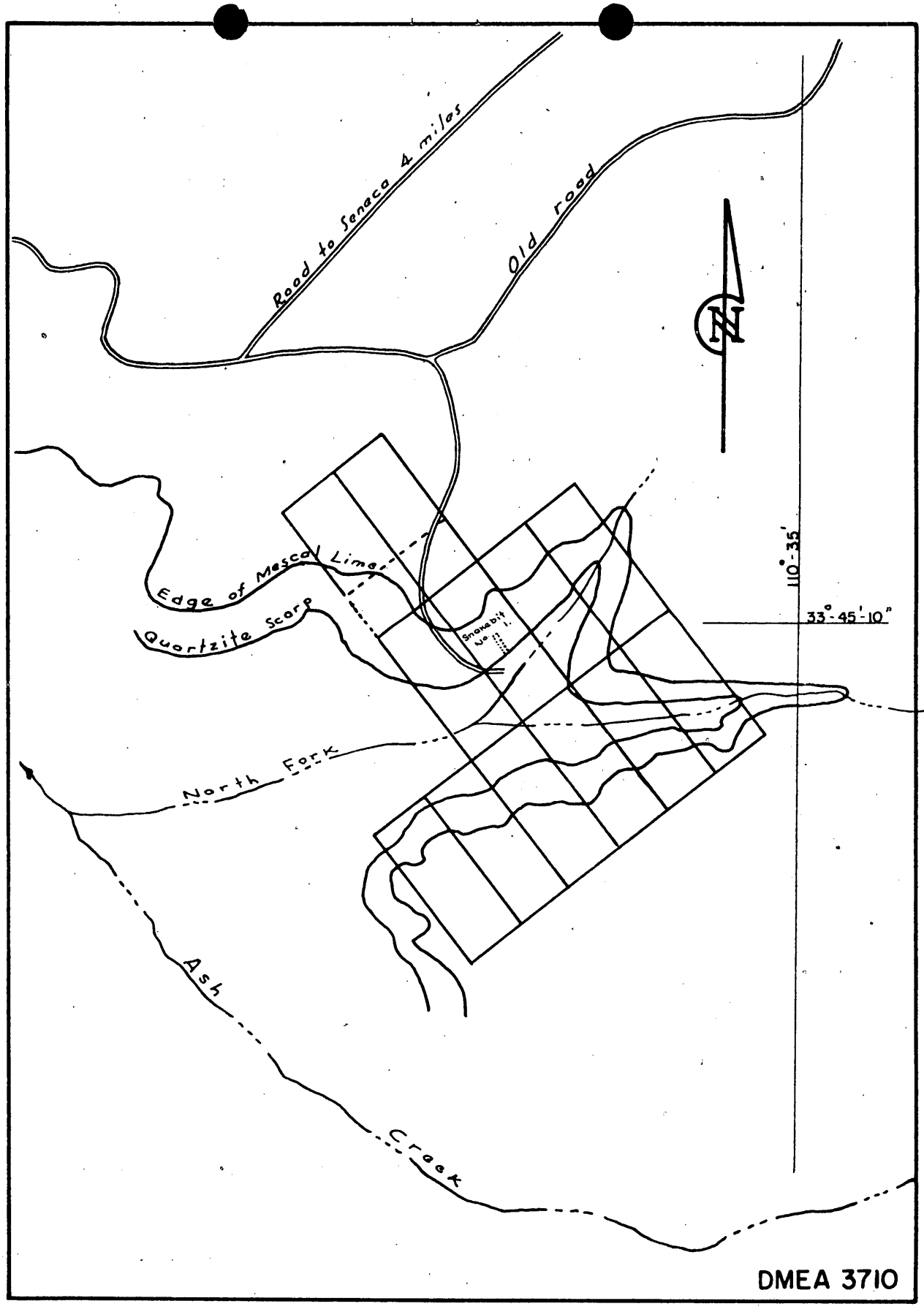

FIGURE 2 SNAKEBIT URANIUM CLAIMS
CABLE DEV. & MFG. CO. INCORPORATED
Mc MILLAN DISTRICT GILA CO. ARIZONA

HISTORY AND PRODUCTION

All claims of the Snakebit group are recent locations. There has been no production.

DESCRIPTION OF THE DEPOSIT

The geology is covered in a separate report by Leonid Bryner, geologist, U. S. Geological Survey.

The Snakebit adit is situated on a projecting shelf where erosion has exposed the upper surface of the lower unit of the Upper Dripping Spring quartzite (see figure 3). The adit penetrates the formation in the lower part of the middle unit of the Upper Dripping Spring quartzite. As the portal of the adit, for the full length of the adit, and for 100 feet up the slope of the surface above the adit, the sulfide minerals, pyrite and chalcopyrite, are quite prominent.

At the surface, somewhat higher radioactivity occurs in the zone on and slightly above the surface of the projecting shelf formed by the massive cliff of the lower unit. This higher activity does not continue into the adit. It is attributed by this writer to leaching of uranium minerals from the exposed mineralized area above the adit, and the subsequent precipitation of these salts by evaporating pools of water that form on impervious areas of the surface of the projecting shelf.

ORE RESERVES

Nine samples were taken by the examining team (figure 3).

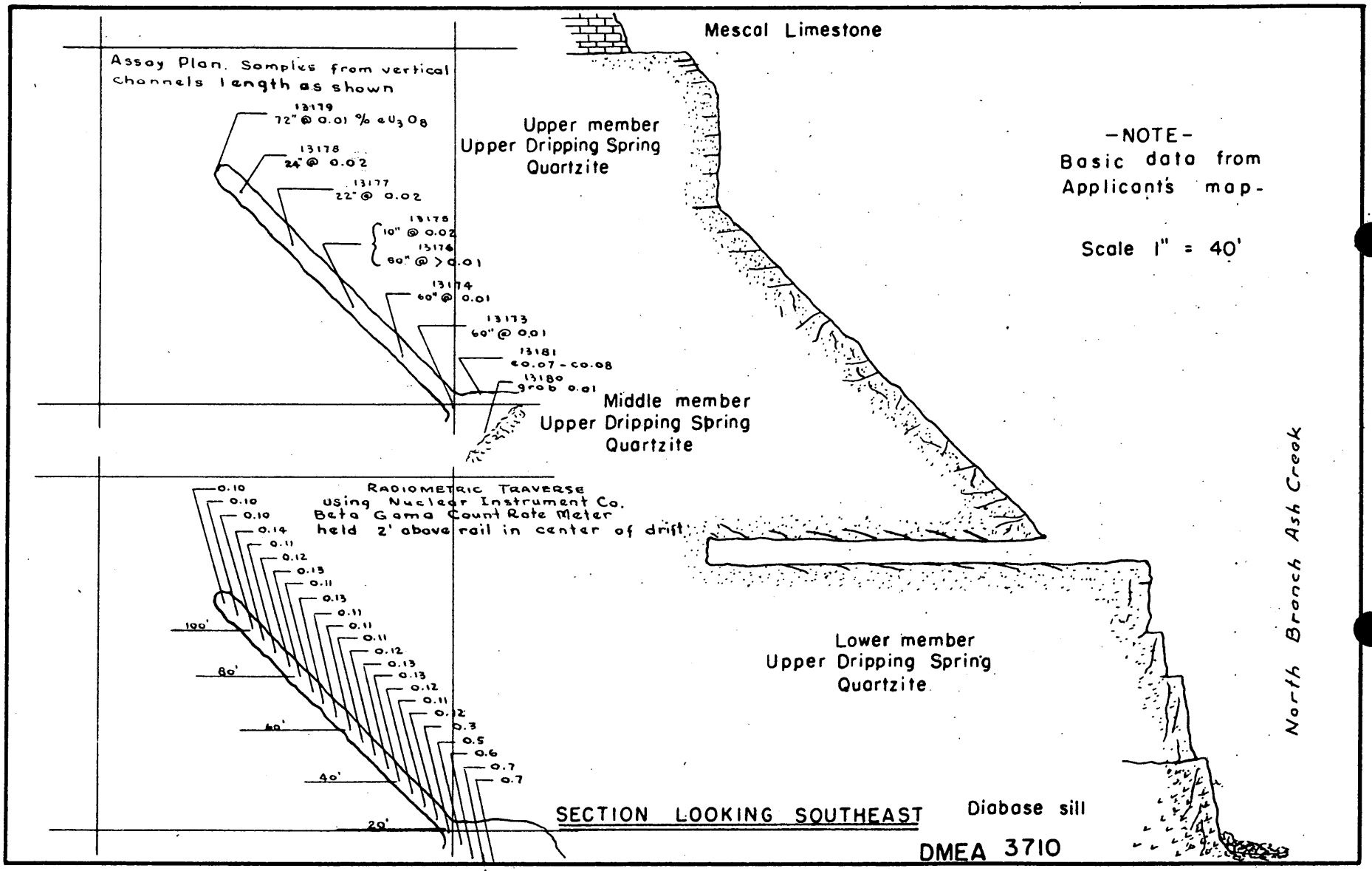

FIGURE- 3 - ASSAY MAP - SNAKEBIT MINE

Not one of these samples showed a uranium content high enough to be commercial ore under the present price schedule. A radiometric traverse was made as shown on figure 3. These readings indicated a radioactivity only slightly above the average normal background count for the upper member of the Dripping Spring quartzite. According to Roland J. Schwartz, this amounts to 0.03 to 0.06 MR/hour. On the basis of the samples by the applicant and the examining team, there is no measured, indicated, or inferred ore in the deposit.

Attention is directed to the high readings reported outside of the adit on the radiometric survey by the examining team. On the date the property was examined, readings that ranged from 0.60 to 1.20 MR/hour were obtained at any point on the surface near the adit when the probe of the counter was held in the air about the ground. The instrument was checked and found to be in adjustment. The reason for these high readings is unknown.

PRESENT STATUS

The applicant has built a Jeep trail from the rim of the north branch of Ash Creek down to the favorable beds and has driven 103 feet of adit. No ore grade material has been found. The sampling by the applicant has been almost entirely by radiometric count in the field.

PROPOSED EXPLORATION

As denial of the application is recommended, the proposed project is not discussed in detail in this report. The applicant proposed in his application to continue the present

adit for at least 200 feet and suggested "the additional tunneling to be located by means of sampling and probing". A total of 850 feet of drifts, 100 feet of raises, and 2,000 feet of drill holes was proposed. The estimated total cost of the project was $34,550.00.

The applicant proposed to finance 25 percent of the costs itself, and requested that the Government provide the remaining 75 percent through the provisions of the Defense Production Act of 1950, as amended.

CONCLUSIONS

Based upon a field examination of the property, a discussion of the merits of the application with R. J. Schwartz, Atomic Energy Commission representative, and a review of the application, the following conclusions are drawn:

1. Cable Development & Manufacturing Co., Inc., is a construction company; its experience in mining is limited.

2. The actual plans for the proposed exploration work are not definite.

3. No specific geologic data or ore grade assays have been presented to justify the proposed exploration. Several thousand square miles of Dripping Spring quartzite with radioactivity equal or better than that at the Snakebit mine are known to exist. Promiscuous drifting in this formation without specific geological data or without any ore-grade assay data to indicate a target is considered prospecting, and not exploration.

4. The weighted average of 8 channel samples is 0.014 percent U_3O_8. The highest assay was 0.08 percent U_3O_8.

5. Further prospecting along the outcrop of the favorable beds in the area may expose a better location for exploration.

RECOMMENDATIONS

In view of the lack of a geological target and the low uranium content of the exposed outcrop, it is believed that a significant amount of uranium ore will not be discovered by the proposed project. Therefore, it is recommended that the application (DMEA-3710) of the Cable Development & Manufacturing Co., Inc., for assistance to explore the Snakebit claims be denied.

IN REPLY REFER TO:

DMEA
Date Rec'd
JUN 13 1955
BUREAU OF MINES
Denver, Colorado

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

TRANSMITTED

JUN 17 1955

June 13, 1955

RECEIVED
JUN 24 1955

Memorandum

To: Field Team, Region III

From: E. N. Harshman

Subject: DMEA Docket 3710 (Uranium), Cable Development and Manufacturing Co., Inc., Snakebit claims, Gila County, Arizona

Enclosed are the original and 9 copies of a geologic report by Leonid Bryner, U. S. Geological Survey, covering his examination of the above subject property.

Minor amounts of uranium are found in thin short zones associated with certain beds in the Dripping Spring quartzite.

Bryner concludes that exploration on the claims will not result in the discovery of significant uranium deposits and recommends denial of the application for exploration assistance.

I concur with the conclusions and recommendations.

E. N. Harshman

E. N. Harshman
Member, Field Team

Enclosures (10)

ENHarshman:arh

Processed by
DMEA CENTRAL CONTROL
6-29-55
(Date)

TRANSMITTED

JUN 17 1955

Box 4126 University Station
Tucson, Arizona

June 6, 1955

MEMORANDUM

To: Mr. E. N. Harshman

From: J. N. Faick

Subject: DMEA Docket 3710 (Uranium) Cable Development and Manufacturing Co., Inc., Snakebit Claims, Gila County, Arizona.

Enclosed are the original and 10 copies of a geological report by Leonid Bryner, on a field examination of the above property. This report recommends denial of Government participation in exploration because the mineralized stratum is too thin and the ore is too low grade to justify exploration.

I concur with Bryner's recommendation.

John N. Faick

John N. Faick

JNF:ms

cc - 10 - Harshman
1 - Storms

Reviewed by
DMEA [illegible]
6-29-55
(date)

U. S. DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REGION III

RECEIVED
JUL 4 1955

GEOLOGY

EXAMINATION REPORT

DMEA 3710

CABLE DEVELOPMENT AND MANUFACTURING CO., INC.
SNAKEBIT CLAIMS
GILA COUNTY, ARIZONA

(Uranium)

Leonid Bryner
Geologist
U. S. Geological Survey

June 7, 1955

Reviewed by
DMEA OPERATING COMMITTEE
6-29-55
(date)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
FIELD TEAM III

EXAMINATION REPORT

DMEA 3710
CABLE DEVELOPMENT AND MANUFACTURING CO., INC.
SNAKEBIT CLAIMS
GILA COUNTY, ARIZONA
(Uranium)

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CONCLUSIONS AND RECOMMENDATIONS	5

ILLUSTRATIONS

Fig. 1	- Location Map	See Engineering Report
Fig. 2	- Claim Map	" " "
Fig. 3	- Assay Map	" " "
Fig. 4	- Geologic Map	Following page 2
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INTRODUCTION

In an application to the Defense Minerals Exploration Administration dated February 28, 1955, LeRoy Patterson, District Manager of the Cable Development and Manufacturing Co., Inc. requested government participation in a program estimated to cost $34,550 to explore for uranium at the Snakebit prospect, Gila County, Arizona.

The property is located in unsurveyed ground in a small southeasterly tributary to the north fork of Ash Creek, within the Blue House Mountain quadrangle. It is near the intersection of latitude 33° 45' 10" north and longitude 110° 35' west (fig. 2), and is 10 miles by road west of Seneca on U. S. Highway 60. Seneca is 37 miles from Globe, Arizona by U. S. Highway 60 (fig. 1). The unpatented claims of the Snakebit group are leased by the applicant from C. S. and L. P. Black.

The examination was made on May 5 by W. R. Hardwick of the U. S. Bureau of Mines and the writer. Patterson accompanied the examiners.

The following report summarizes the results of the geologic examination, which consisted mainly of making a sketch map of the prospect and a reconnaissance of the surrounding ground. The geology of the prospect also was discussed with H. C. Granger and Robert Raup of the U. S. Geological Survey. Roland J. Schwartz, geologist for the Atomic Energy Commission, offered the opinion that the prospect was very low grade. This was borne out by Hardwick's radiometric and sampling work. Results of the radiometric survey and sampling are reported in detail in the engineering report. Both examiners for DMEA consider the prospect to be unpromising as an exploration possibility, and therefore recommend that government participation be denied.

GEOLOGY

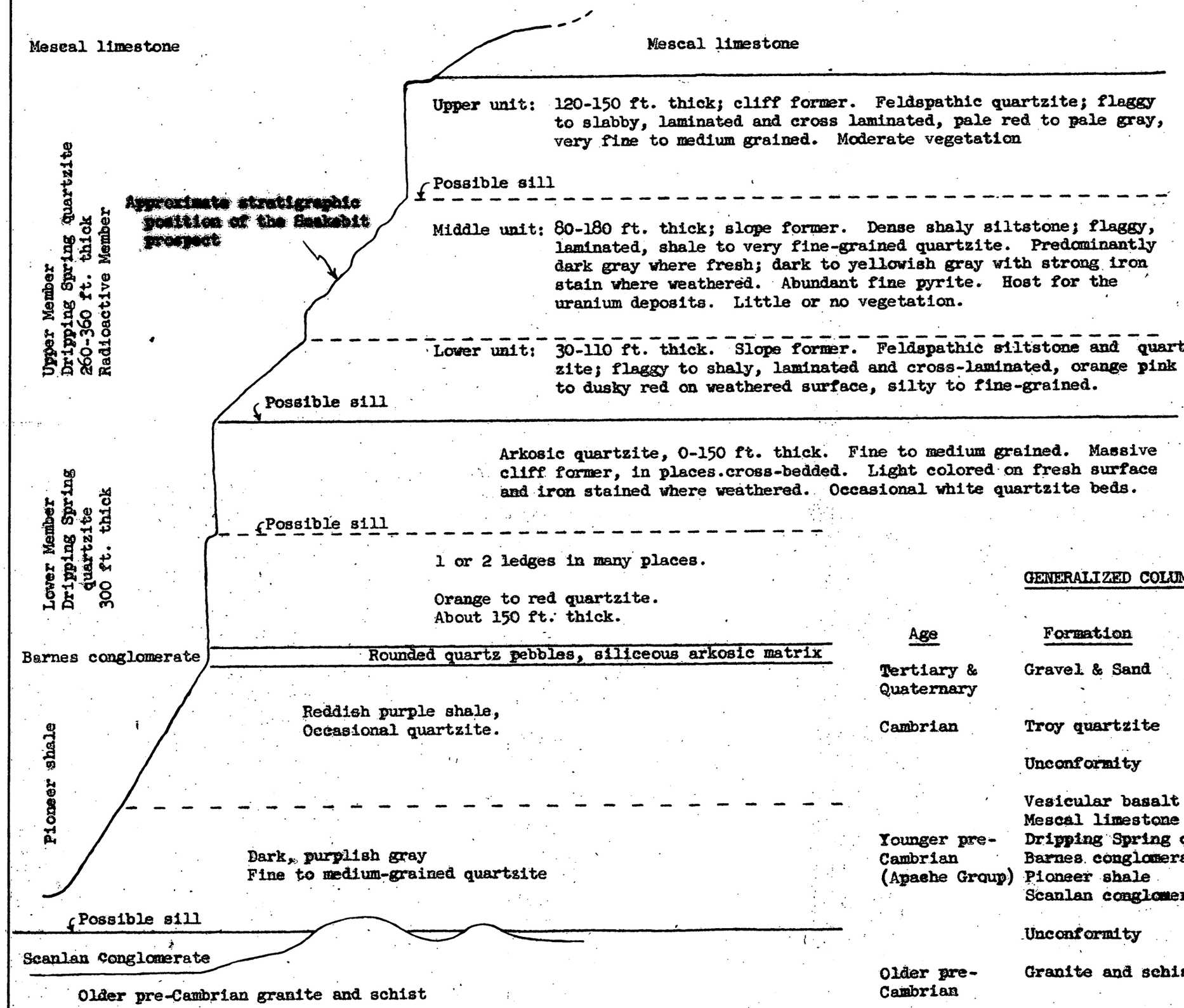
A generalized section of the geology in the region of the Snakebit deposit is given in Plate I. At the mine the Precambrian Dripping Spring beds strike N 70° W and dip 5° E.

The deposit is in the upper member of the Dripping Spring quartzite, 145 feet stratigraphically below the base of the Precambrian Mescal Limestone. The Dripping Spring immediately below the deposit also is a part of the upper member, but might belong to either the middle or lower unit shown in Plate I. This part of the Dripping Spring forms a cliff estimated to be about 100 feet high. The cliff is underlain by a diabase sill that appears to be in excess of 200 feet thick. Immediately above the cliff-forming interval, the upper Dripping Spring, over a stratigraphic interval of about 60 feet is a slope-forming, rather massive, fine-grained quartzite. It is gray to dark gray but weathers to a dirty brown. Very fine-grained sulphides, mainly pyrite, are disseminated throughout and also occur as veinlets in the rock. As this slope-forming interval is followed upward it gradually becomes a light-colored, thinner bedded, and purer quartzite and within about fifty feet of the Mescal it is partly cliff-forming. About 100 feet above the base of the slope-forming interval disseminated sulphides disappear.

The workings consist of a 100-foot NW-trending adit and a small amount of excavation near the adit portal. Figure 4 shows the adit and some of the geologic features of the deposit. The adit is in the basal part of the slope-forming interval of the Dripping Spring.

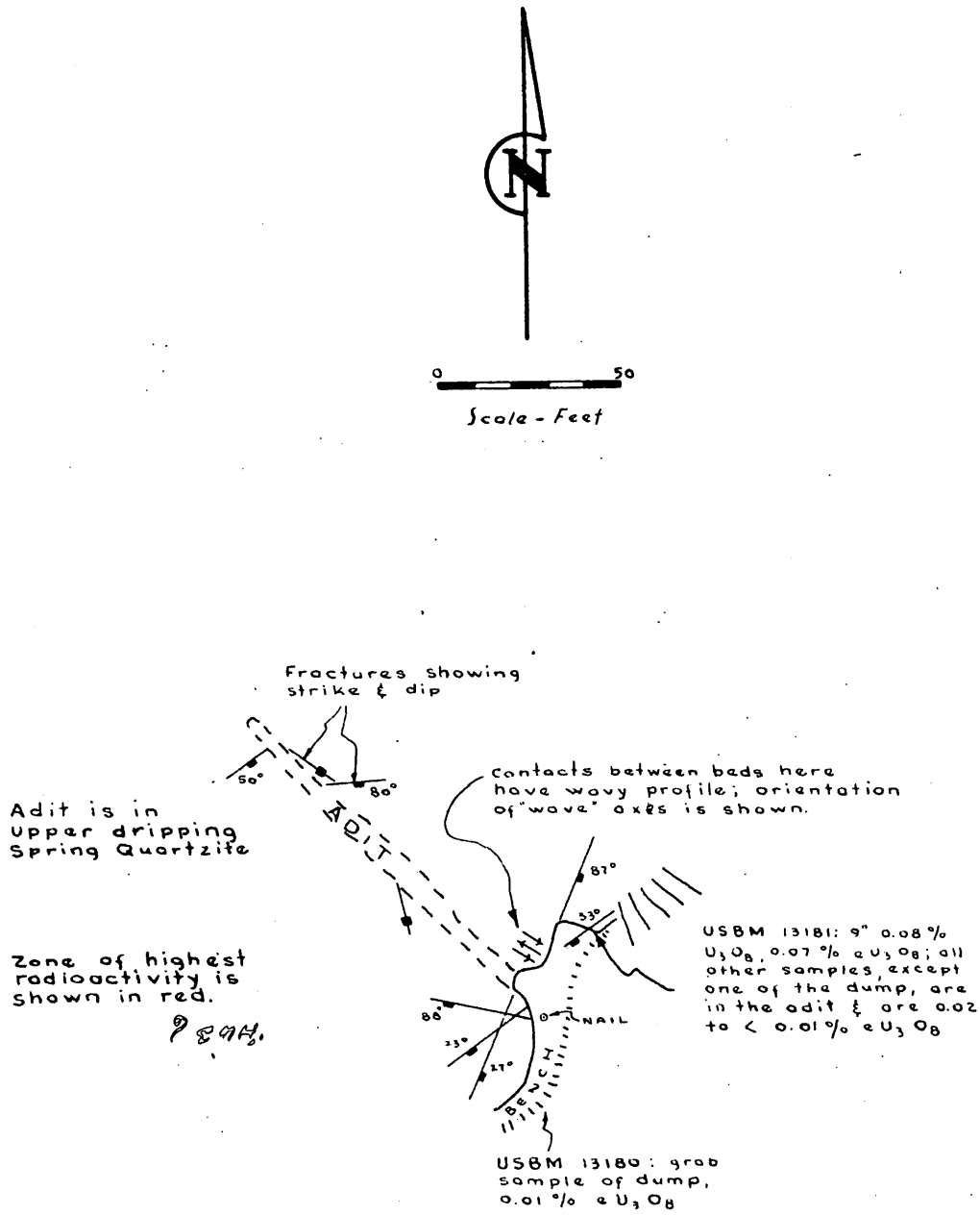
PLATE I

DIAGRAMATIC SECTION OF APACHE GROUP IN GILA COUNTY AND ADJACENT AREAS, ARIZONA



GENERALIZED COLUMNAR SECTION

Age	Formation	Thickness (feet)	Average Thickness
Tertiary & Quaternary	Gravel & Sand		
Cambrian	Troy quartzite	500	
	Unconformity		
Younger pre-Cambrian (Apache Group)	Vesicular basalt flow	0-75	75
	Mescal limestone	225-400	300
	Dripping Spring quartzite	450-700	700
	Barnes conglomerate	0-50	
	Pioneer shale	150-250	250
	Scanlan conglomerate		
	Unconformity		
Older pre-Cambrian	Granite and schist		



From a Brunton Survey by Leonid Bryner, U.S. Geological Survey, May 5, 1955

DMEA 3710

FIGURE 4 GEOLOGIC MAP, CABLE DEV. AND MFG. CO. SNAKEBIT PROSPECT, GILA COUNTY, ARIZONA

The highest radioactivity is found at the surface near the portal in a zone about two feet above the floor of the adit. This zone more or less parallels the bedding and is about 9 inches thick. It can be traced about 35 feet along the face. At the northeast end the zone disappears under talus and at the southwest end the zone apparently dies out in the host rock. The zone also dies out in the adit. Most of the low-angle fracturing mentioned above is in or near this radioactive zone. But aside from their proximity to each other and their similar orientation no indications were found of a genetic relationship between this fracture system and the radioactive zone.

Inside the adit, at about 40 feet from the portal to within 10 feet of the face, there is another slightly radioactive zone one to two feet thick. This zone is about one foot below the back of the adit. It does not display any fracture control but, like the zone at the portal, is suggestive of bedding control of the radioactive mineralization. The higher radioactivity near the portal is perhaps the result of a combination of fracture contact and bedding control.

GRADE

No ore is known to have been shipped from this property, so grade information is based entirely on sampling. A sample of the radioactive zone at the surface (USBM 13181) assayed chemically 0.08 percent U_3O_8. The radiometric assay of this sample was 0.07 percent U_3O_8. This is the highest grade zone that can be found on the property. The slightly radioactive zone in the adit averages

Here the rock is a gray to gray-green, fine-grained quartzite in irregular beds two inches to two feet thick. In places the bedding is quite poorly defined. Some of the contacts between beds have a wavy profile that may be either a primary sedimentary feature or an effect of deformation. The beds locally contain thin, dark laminae which have a carbonaceous appearance. Some black specks of carbon (?) are surrounded by a bleached halo.

As shown in figure 4, fracturing is a rather prominent feature. The main fracture system strikes about east and dips vertically to about 80 degrees south. The second most prominent system strikes at about right angles to the first and dips almost vertically. Other fracture directions were noted; one of these, striking in a northeasterly direction and dipping from 23 to 33 degrees south may have had a bearing on the distribution of radioactive minerals, as the most radioactive zone is cut by these fractures and is elongated in the direction of the fractures. The fractures in the cliff-forming interval that underlies the deposit are relatively prominent and open whereas in the slope-forming interval the fractures are comparatively inconspicuous and are generally sealed with gouge or some similar material.

No ore minerals were recognized, but according to the habit of similar deposits, these might be torbernite, meta-torbernite, autunite, and uraninite. Pyrite is widely distributed and a small amount of chalcopyrite was recognized in rock near the portal. Iron oxides in the form of limonite and hematite also were recognized.

radiometrically (USBM 13175, 13177, and 13178) 0.02 percent U_3O_8; no chemical assay was made of this material. Other zones in the adit assayed radiometrically (USBM 13173, 13174, 13176, 13179) 0.01 or less than 0.01 percent U_3O_8.

EXPLORATION

The applicant proposes a total of 850 feet of tunnel, 100 feet of raise and 2,000 feet of drilling. This work would include extension of the present adit at least 200 feet.

RESERVES

Indicated and measured reserves of rock containing slightly less than 0.1 percent U_3O_8, based on small inward extensions from the surface radioactive zone, are estimated at 5 to 10 tons. Extensions of this same radioactive zone might exist to the northeast and to the southwest. On this basis an additional 10 tons of marginal grade rock can be inferred.

CONCLUSIONS AND RECOMMENDATIONS

The Snakebit deposit is too thin and too low grade to offer attractive exploration possibilities. The best places to look for ore would be the ground northeast and southwest of the adit portal. The known deposit, however, suggests that whatever radioactive rock might be found in this ground would not be of a significant tonnage, or a commercial grade. It is recommended, therefore, that government participation in this project be denied.

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

Surname copy
F L Knouse
Ellis
Kulsgaard
Hedges
Selfridge
Johnson

MAR 22 1955

Mr. LeRoy Patterson
District Manager
Cable Development and
Manufacturing Company, Inc.
118 S. P. Court
Globe, Arizona

Re: Docket No. DMEA-3710 (Uranium)
Snakebit Group of claims
Gila County, Arizona

Dear Mr. Patterson:

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

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

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

Sincerely yours,

C. O. Mittenderf
(By ESF)
Administrator

FLKnouse/gla
3-21-55
cc to: Admr.'s Reading File
Docket
Code 700
Mr. Knouse
DMEA Field Team, Region III (2)

R.G.J.

700

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

Surname copy

F L Knouse
Ellis
Selfridge
H Johnson

MAR 22 1955

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

Re: Docket No. DMEA-3710 (Uranium)
Cable Development and Manufacturing
Company, Inc.
Snakebit Group of claims
Gila County, Arizona

Dear Mr. Traver:

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

Enclosed are copies of memoranda from Mr. R. D. Trace, dated March 15, and Mr. John E. Crawford, dated March 17, 1955, members of the Uranium Commodity Committee.

If the Field Team recommends either the program as submitted, or an alternate one approved by the Applicant, please furnish us the necessary information required to draft a contract. In this connection, please request the Applicant to furnish (a) the recording dates of all mining claims to be included in the contract, (b) Owner's Consent to Lien forms executed by all the mining claim owners, and (c) if independent drilling is proposed, furnish bids from three contractors.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee (GCS)

FLKnouse/gla
3-21-55
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. Knouse

Enclosures

APPROVED:

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

Thor H. Kiilsgaard (THK)
Member, Geological Survey

RGS.

3/17/55 gla

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

March 17, 1955

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee

From: Bureau of Mines Member
Uranium Commodity Committee

Subject: DMEA Docket 3710, Cable Development and Manufacturing Company, Snakebit Group, Gila County, Arizona

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

We recommend that the attached application be referred to the Field Team for investigation and report, and that the Field Team be requested to discuss the application with Ernest 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 (2)

3/16/55-gla

IN REPLY REFER TO:

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

Defense Minerals Administration
RECEIVED
MAR 16 1955

March 15, 1955

Re: DMEA-3710
Cable Dev. & Man. Co.
Dripping Springs Area
Gila County, Arizona
$34,550 - Uranium

Memorandum

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

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

Subject: Review of application

The subject application is in the same general area and is similar in many respects to DMEA 3669, which I recommended on 2/16/55 for referral to the Field Team. I briefly described the geology and ore deposits of the area in my referral memorandum.

The applicant has driven an adit for 103 feet. The uranium-bearing material in the adit ranges in grade from 0.05 to 0.25, averaging about 0.08. The applicant proposes to drive 850 feet, raise 100 feet, and drill 2,000 feet of hole.

The exposed grade of the uranium-bearing material is slightly too low in grade to be economic. However, some deposits in the area have increased in grade with distance from outcrop.

On the basis of the known mineralization and the possibility of increase of grade with depth, I recommend that the application be referred to the Field Team.

If the Field Team believe that a project should be approved, I suggest that they modify downward the applicant's ambitious program.

Bob Trace

R. D. Trace

IN REPLY REFER TO:

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

March 15, 1955

Re: DMEA-3710
Cable Dev. & Man. Co.
Dripping Springs Area
Gila County, Arizona
$34,550 - Uranium

Memorandum

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

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

Subject: Review of application

The subject application is in the same general area and is similar in many respects to DMEA 3069, which I recommended on 2/16/55 for referral to the Field Team. I briefly described the geology and ore deposits of the area in my referral memorandum.

The applicant has driven an adit for 103 feet. The uranium-bearing material in the adit ranges in grade from 0.05 to 0.25, averaging about 0.08. The applicant proposes to drive 350 feet, raise 100 feet, and drill 2,000 feet of hole.

The exposed grade of the uranium-bearing material is slightly too low in grade to be economic. However, some deposits in the area have increased in grade with distance from outcrop.

On the basis of the known mineralization and the possibility of increase of grade with depth, I recommend that the application be referred to the Field Team.

If the Field Team believe that a project should be approved, I suggest that they modify downward the applicant's ambitious program.

R. D. Trace

RDTrace:hlm
G-3/15/55

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

March 7, 1955
Subject: DMEA 3710
Re: Exploration Assistance
Snakebit Claims

Cable Development and Manufacturing
Company, Inc.
118 S. P. Court
Globe, Arizona

Gentlemen:

The receipt of your application dated February 28, 1955 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA 3710 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

March 7, 1955

Memorandum

To: Executive Officer, DMEA Field Team, Region III

From: Chief, Operation's Control and Statistics Division

Subject: Assignment of Docket Number

There is listed below the assigned docket number to an application recently received from Region III.

DMEA - 3710 Cable Development and Manufacturing Co., Inc.

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

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

224 New Customhouse
Denver 2, Colorado

March 2, 1955

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Application for DMEA assistance (Uranium), Cable Development and Manufacturing Co., Inc., Snakebit group of claims, McMillan Mining District, Gila County, Arizona

Enclosed are the original and two copies of the subject application for exploration assistance in the amount of $34,550.00.

One copy of the application has been retained in this office.

W. M. Traver

Enclosures

W. M. Traver

224 New Customhouse
Denver 2, Colorado

March 2, 1955

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Application for DMEA assistance (Uranium), Cable Development and Manufacturing Co., Inc., Snakebit group of claims, McMillan Mining District, Gila County, Arizona

Enclosed are the original and two copies of the subject application for exploration assistance in the amount of $34,550.00.

One copy of the application has been retained in this office.

W. M. TRAVER

Enclosures

W. M. Traver

DMEA
Date Rec'd.
MAR 1 1955
BUREAU OF MINES
Denver, Colorado

February 28, 1955

Bureau of Mines
RECEIVED
MAR 4 - 1955

To: Mr. W. H. King
Regional Director
DMEA Bureau of Mines
224 New Custom House
Denver, Colorado

From: Cable Development and Manufacturing Company, Inc
116 S. P. Court
Globe, Arizona

Subject: DMEA loan application
Snakebit Group
McMillan Mining District
Gila County, Arizona

1. Form MF-103
   6 supplemental sheets attached
2. Assignment of lease from LeRoy Patterson, District Mgr to Cable Development and Mfg Co, Inc
3. Photostats of Mining Lease and Option from C. S. Black to LeRoy Patterson.
4. Key Map showing general location with regard to roads and radio-metric anamolies.
5. Claim map with claims involved shaded in brown.
6. Plan of Snakebit Adit Tunnel and portion of proposed exploration tunnel.
7. Map showing location of property with relation to Hwy 60
8. Sectional map showing radio-metric survey of Snakebit Adit tunnel and geologic features.
9. Minutes of special meeting of board of directors of Cable Development and Mfg Co, Inc authorizing LeRoy Patterson to apply for DMEA loan and obligate the company for the payment of exploration work.
10. Landlords Subordination Agreement.

103
April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Form Approved
Budget Bureau No. 43-R1035.2.

DMEA
Date Rec'd
MAR 1 1955
BUREAU OF MINES
Denver, Colorado

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. 3710
Metal or Mineral Uranium
Date Received 3-4-55
Estimated Cost $34,550
Participation (Government %)

DEFENSE MINERALS EXPLORATION ADMINISTRATION
RECEIVED
MAR 4 1955

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: Cable Development and Mfg Co, Inc
118 S. P. Court., Globe, Arizona

Sheet attached giving additional information

(*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. sheet attached

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

(*d*) If a partnership, add to the above statement the names and addresses of all partners. not applicable

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

sheet attached

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

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

sheet attached with copy of lease and assignment

(*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. sheet attached

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

not applicable

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

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

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

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

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

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

sheet attached

5. *The exploration project.*—(*a*) State the mineral or minerals for which you will explore sheet attached

(*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. sheet attached

(*c*) The work will start within 10 days and be completed within 10 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. sheet attached

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

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

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

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

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

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

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

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

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

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

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

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

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

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated February 28th, 1955

Cable Development and Mfg Co, Inc
(Applicant)

By Le Roy Patterson

District Manager

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

1. Name of applicant-

(a) Cable Development and Manufacturing Co, Inc.
118 S. P. Court
Globe, Arizona

(b) A corporation formed in the State of New York.

(c) The officers of the corporation and their names and addresses:

President --	T. M. Fedder,	545 Fifth Avenue New York City, N. Y.
Vice-Pres.--	B. A. Fedder,	545 Fifth Avenue New York City, N. Y.
Sec'y-Treas.	M. Wallace,	545 Fifth Avenue New York City, N. Y.

Cable Development & Mfg Co, Inc
118 S. P. Court
Globe, Arizona

3. Applicant's property rights.

(a) The following unpatented lode mining claims situated in the McMillan Mining District, Gila County, Arizona, the names of which, together with the Docket number and page as recorded in the office of the County Recorder of Gila County, Arizona:

NAME OF CLAIM	DOCKET	PAGE
Snakebit No.1	12	488
Snakebit No.2	12	489
Snakebit No.2 Amended	22	191
Snakebit No.3	12	490
Snakebit No.4	12	491
Snakebit No.4 Amended	22	192
Snakebit No.5	12	492
Snakebit No.5 Amended	25	310
Snakebit No.6	12	493
Snakebit No.6 Amended	25	311

(b) The property is known as the SNAKEBIT

(c) Applicants interest in the land is as Lessee with an Option to Purchase.

(d) Copy of the Lease and Option is attached in the form of a photostat of the original document together with assignment from LeRoy Patterson, District Manager for the Cable Development and Mfg Co, Inc to the Cable Development and Manufacturing Company, Inc.

(d) Landlords Subordination Agreement attached

Cable Development & Mfg Co, Inc
118 S. P. Court
Globe, Arizona

4. Physical description.

(a) The present development consists of an adit tunnel 103 feet in length driven during November and December 1954 and January 1955 and an access road approximately 2500 feet in length constructed from the existing road on the mesa to about 150 feet above the portal of the adit tunnel. Map showing this development attached.

(b) There has been no past production. Ore expressed in per cent uranium oxide determined by radio-metric count is shown on the accompanying map. These values have been checked by chemical analysis and have been corrected down by 0.05 mr per hour. The value of the exposed ore is calculated to be 0.08% uranium oxide approximately throughout the entire length of the adit.

(c) The exploration is being conducted entirely in the Dripping Springs quartzite of the Apache series of central Arizona. The Dripping Springs quartzite, a precambrian quartzite, is a metamorphosed arkosic sediment approximately 200 feet in thickness at the point of development. The development is taking place in approximately the middle third of the formation in a shalely member approximately 50 feet in thickness. The entire middle member has an abnormally high radio-metric count which is more pronounced in the immediate area developed by the adit tunnel. Both at the portal of the adit and along the length of the tunnel, 103 feet, the radio-metric count runs from 0.08 mr/hr to 0.40 mr/hr. The mineralization where strongest shows in the form of a calcium-uranium-phosphate, calcium-uranium-sulphate and an unidentified uranium mineral which may be a uranium-fluorine compound.

Cable Development and Mfg Co, Inc
118 S. P. Court
Globe, Arizona

4 Physical description
(c) continued from previous sheet

The mineralization appears to be intensified in the adit tunnel after exposure to the atmosphere, suggesting that dilute uranium solutions evaporate and depsoit the minerals in solution as an effloresecence on the sides of the tunnel. The adit follows the general dip of the beds or strata of the quartzite. It is hoped that further exploration by means of tunnel, raising and radiometric drill probing will expose bedded deposits as well as a continuation of the present lower grades.

(d)
The group of claims under development is situate in the Tonto National Forest about 45 miles north of Globe, County seat of Gila County, Arizona. The area is accessible by U. S. Highway 60 to Seneca, thence by dirt and gravel road to within 150 feet of the adit tunnel and most parts of the entire group of six claims.

(e)
Ample supplies of labor are available either locally on the Apache Indian Reservation or at Globe, Arizona. Mining supplies are available generally in Phoenix 130 miles south. Water for mining purposes is available on the property. Power will be generated at the site, no power line serves the area.

Cable Development and Mfg Co, Inc
118 S. P. Court
Globe, Arizona

5. The exploration project.

(a) The uranium minerals for which we wish to explore are principally: Autunite, Metatorbernite, Uraninite, Uranophane and a presently unidentified uranium-fluorine mineral.

(b) The proposed work as partially detailed on the accompanying map consists of 850 feet of tunnel; 100 feet of raise; 2000 feet drill hole for radio-metric probing. It is planned to continue the present adit tunnel on its present course for at least 200 feet with the additional tunneling to be located by means of sampling and probing. Dust collectors will be installed to sample each round of drill holes so that chemical analysis can be correlated with radio-metric count.

(c) The work will start within ten days after approval of this application and be completed within 10 months from the date of an exploration project contract.

(d) This company has had several years experience in the manufacturing business and administration of large construction projects. The project will be under the supervision of LeRoy Patterson, District Manager for the Cable Development and Mfg Co, Inc, who has been engaged in mining exploration projects for the past two years in addition to 15 years of heavy construction experience.

Cable Development and Mfg Co, Inc
118 S. P. Court
Globe, Arizona

6. Estimate of costs

(a) Independent contract

850 feet 5 X 7 tunnel @ $33.00	$ 28,050.00
100 feet 4 X 4 raise 25.00	2,500.00
2000 feet drill hole for radio-metric probing @ $2.00	4,000.00
Total cost of project	$ 34,550.00

(b) Not applicable
(c) Not applicable
(d) Not applicable
(e) Not applicable
(f) Not applicable
(g) Not applicable
(h) Not applicable

7. (a) We are prepared to furnish our share of the cost of the proposed project in accordance with the regulations on Government participation (Sec,7 DMEA No.1)

(b) The Cable Development and Mfg Co, Inc will pay for all costs of the exploration work covered in the application and submit monthly reports to the DMEA for payment. Company resolution attached hereto.

ASSIGNMENT OF MINING LEASE AND OPTION

KNOW ALL MEN BY THESE PRESENTS:

That I, LeROY PATTERSON, of Globe, Gila County, State of Arizona, for and in consideration of the sum of TEN ($10.00) DOLLARS, lawful money of the United States of America, and other valuable consideration, to me in hand paid by the CABLE DEVELOPMENT AND MANUFACTURING CO., INC., a corporation organized and existing under and by virture of the laws of the State of New York, the receipt of which is hereby acknowledged, do by these presents sell, convey, assign, transfer and set over unto the said CABLE DEVELOPMENT AND MANUFACTURING CO., INC., its successors and assigns, that certain indenture of Mining Lease and Option, bearing date the 10th day of February, 1955, made and executed by C. S. BLACK and LULU P. BLACK, husband and wife, as Lessors therein, and LeROY PATTERSON, as Lessee therein, covering the following described mining claims and premises, to-wit:

> All those certain unpatented lode mining claims situated in the McMillian Mining District, Gila County, Arizona, the names of which, together with the location notices thereof, are of record in the office of the County Recorder of said Gila County, in the Docket and at the pages thereof, as follows, to-wit: -

NAME OF CLAIM	DOCKET	PAGE
Snakebit No. 1	12	488
Snakebit No. 2	12	489
Snakebit No. 2 Amended	22	191
Snakebit No. 3	12	490
Snakebit No. 4	12	491
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Snakebit No. 5	12	492
Snakebit No. 5 Amended	25	310
Snakebit No. 6	12	493
Snakebit No. 6 Amended	25	311

for the term of ten (10) years from and after the 10th day of February, 1955, with the right and privilege of renewing the same for an additional period of ten (10) years, as provided in said Mining Lease and Option, and reserving unto the Lessors therein,

certain royalties in the amount and payable as in said Mining Lease and Option provided, and with all and singular the premises therein mentioned and described, to have and to hold the same unto the said CABLE DEVELOPMENT AND MANUFACTURING CO., INC., its successors and assigns, from the date hereof, for and during the remainder yet to come of the said term mentioned in said Mining Lease and Option, and any renewal or extension thereof as provided for therein.

IN WITNESS WHEREOF, I have hereunto set my hand this 25th day of February, A. D., 1955.

LeRoy Patterson

STATE OF ARIZONA)
COUNTY OF GILA) ss:

On this the 25th day of February, 1955, before me, the undersigned officer, personally appeared LeROY PATTERSON, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged that he executed the same for the purpose therein contained.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal.

Eileen A. Little
Notary Public

My commission expires:
March 13, 1956.

Cable Development and Mfg Co, Inc
118 S. P. Court
Globe, Arizona

3-c

MINING LEASE
AND OPTION

THIS INDENTURE, made this 10th day of February, 1955, between C. S. BLACK and LULU P. BLACK, husband and wife of Globe, Gila County, Arizona, first parties, hereinafter called "Lessors", and LeROY PATTERSON, of the same place, second party, hereinafter called "Lessee":

W I T N E S S E T H That:

The Lessors for and in consideration of the royalties hereinafter reserved, and the covenants and agreements hereinafter expressed, and by the Lessee to be kept and performed, have leased, let and demised, and by these presents do lease, let and demise unto the Lessee, all of the following described unpatented lode mining claims, to-wit:

All those certain unpatented lode mining claims situated in the McMillan Mining District, Gila County, Arizona, the names of which, together with the location notices thereof are of record in the office of the County Recorder of Gila County, in the Docket and at the pages thereof, as follows, to-wit:

NAME OF CLAIM	DOCKET	PAGE
Snakebit No. 1	12	488
Snakebit No. 2	12	489
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Snakebit No. 5	12	492
Snakebit No. 5 Amended	25	310
Snakebit No. 6	12	493
Snakebit No. 6 Amended	25	311

TO HAVE AND TO HOLD the same unto the said Lessee for the term of ten (10) years from and after the 10th day of February, 1955, unless sooner forfeited, or terminated, through the violation of any covenant herein contained against the Lessee, or other termination as hereinafter provided. The Lessee shall have the right, privilege and option of renewing this lease and option for an additional period of ten (10) years, upon the same terms and conditions as herein contained, by giving notice to the Lessors on or before

thirty (30) days of the expiration of the term hereof of his intention to renew this lease and option.

In consideration of the leasing of said premises, the Lessee hereby covenants and agrees with the Lessorsas follows:

1. The Lessee shall be entitled to take possession of said mining claims and premises immediately after execution of this Lease, and shall have the exclusive right and privilege to explore, develope, sample, drill, mine and operate said mining claims and premises, and to mine, extract, ship and sell or dispose of ore and minerals therefrom during the term hereof, subject to the conditions hereinafter set forth.

2. It is understood and agreed that the Lessee has heretofore done and performed, under a former lease on said mining claims, certain work consisting of the construction of a tunnel approximately one hundred (100) feet in length on said mining claims and that the Lessee shall not be required to do or perform any further work or improvements upon said mining claims prior to the first day of July, 1955.

3. The Lessee agrees that, during each six months of the term of this Lease, beginning on the 1st day of July, 1955, he will either extend the present tunnel on said premises, constructed by him as aforesaid, of the same size and dimensions, for an additional 100 feet in length, or construct another tunnel of the same dimensions and length on one of the said claims, or do or perform other development work on said claims of an amount equal to the construction of such tunnels.

4. To do and perform in each year during the existence of this Lease within the time required by law, sufficient work and improvements upon said mining claims to cover all assessment or annual labor required by law to be done and performed upon or for the benefit of each of said mining claims on or before May 1st for

each year during the term hereof, and to cause an affidavit, showing the performance of said work, to be made and filed in the office of the County Recorder of said Gila County, within the time required by law.

5. To do and perform all work upon said mining claims in accordance with good mining and laws of the State of Arizona, and to properly timber all workings wherever necessary.

6. To keep at all times the drifts, shafts, tunnels or other workings where work may be carried on by Lessee thoroughly drained and clear of loose rock and rubbish, unless prevented by extraordinary mining casualties.

7. To furnish at his own expense all tools, machinery, equipment and supplies necessary to work the said mines or premises hereby leased, and to supervise and fully do and perform all work hereunder, according to his own manner or method and system, and the Lessors to reserve and hold no control over said Lessee in the doing of such work, other than as to the result to be accomplished.

8. To carry industrial insurance covering all employees engaged in work on said claims, and to assume all liability for injuries to or death of any person in his employ or to third persons, occasioned by any of his acts, and the Lessee covenants to save and hold the Lessors harmless on account thereof.

9. To pay for all labor, material and supplies to be done for or furnished to the said Lessee or to any person or persons under or in privity with him upon said premises, and in the event the Lessee shall fail to pay for such labor, material and supplies, then the Lessors may, at their election, declare a forfeiture of this lease as hereinafter provided.

10. To post and keep posted at all times during the existence of this Lease, notice of non-liability for labor performed or material furnished at all places, as required by the laws of the State of Arizona.

11. To allow the Lessors, or their agents or representatives, to inspect any and all parts of said mining claims and premises, or the workings therein, at all reasonable business hours without unreasonable interferrence with the work then in progress, at the sole risk and expense of the Lessors.

12. The Lessee agrees to pay the Lessors, as royalty, ten (10%) percent of the net smelter or mill returns or other values, of all ores, minerals or other products mined and extracted from said mining claims and premises, and sold or disposed of by him. Said ores, minerals or other products, shall be shipped promptly in lots as mined to some smelter, mill or ore buyer. The "Net smelter or mill returns or other values" as herein used, shall mean the gross values of all ores, minerals or concentrates, recovered from said property, less deductions for smelter, treatment charges, and other deductions usually and ordinarily made by reputable custom smelters or mills. All royalties herein provided to be paid by the Lessee to the Lessors shall be deducted at the smelter or mill or by the paying agency and mailed direct to the Lessors, after each shipment is made. In the event that the paying agency will not pay the royalties direct to the Lessors, then the Lessee shall make full reports to the Lessors of all ores and minerals shipped and sold by him and will immediately after each shipment, remit to the Lessors their ten (10%) percent royalties. All royalties to be paid to Lessors at Globe, Arizona, or at such other place as may be designated by Lessors.

13. The Lessee agrees that after he has shipped, sold and disposed of ten car loads of ore or minerals of fifty tons each, of grades acceptable to the buying agency, from said mining claims and premises, under the terms of this Lease, he will furnish to the Lessors, or their heirs or assigns, a statement showing the total

amount of royalties which have been previously paid on account of ores shipped and sold, and in the event the total amount of such royalties shall be less than Six Thousand Dollars, he will immediately pay to the Lessors, a sum equal the difference between the amount of royalties previously paid and the said sum of Six Thousand Dollars, which last amount shall constitute an advance payment of royalties and shall be applied upon any royalties which may become due and payable on subsequent shipments of ores from said premises.

14. It is agreed that upon the termination of this lease, all tools, machinery, including machinery attached to surface, equipment and supplies, and all buildings, owned by the Lessee and placed upon said premises, may be removed therefrom at any time within thirty (30) days after the expiration or other termination hereof, provided that all royalties due hereunder shall have been paid in full; and provided, that all timbering and gallows-frames shall remain on said property and shall be and become the property of the Lessors.

15. In the event the Lessee or his assigns shall make default in any of the terms or provisions herein contained, then the Lessors may terminate this lease upon thirty (30) days notice to the Lessee of their intention to declare this lease at an end. If the Lessee shall fail within said thirty (30) days to correct and make good any violations of the terms and provisions of this lease on account of which such notice of default has been given, then and thereupon this lease shall terminate.

16. The Lessors, in consideration of the leasing of said premises and the mutual covenants and agreements herein contained, and the further consideration of the sum of One Dollar ($1.00) lawful money of the United States of America, in hand paid to the Lessors by the Lessee, the receipt of which is hereby acknowledged, do hereby give and grant unto the Lessee, the exclusive

right, privilege and option to purchase the mining claims and premises hereinbefore described, at any time during the existence of this lease and option, or any renewal or extension hereof as hereinbefore provided, for the sum of ONE HUNDRED AND FIFTY THOUSAND ($150,000.00) DOLLARS, in lawful money of the United States of America. All royalties which may be paid by the Lessee or his heirs or assigns, to the Lessors as hereinbefore provided in this Lease, shall be applied upon said purchase price and on the payment to the Lessors by the Lessee or his heirs or assigns of royalties equal to the sum of One Hundred Fifty Thousand ($150,000.00) Dollars under the provisions of this lease, the Lessors agree to make, execute, acknowledge and deliver to the Lessee, or his heirs or assigns, a good and sufficient mining deed conveying the said mining claims and premises to the Lessee or his heirs or assigns, free and clear of all liens and encumbrances, with good and merchantable title, subject only to the paramount title of the United States of America.

The Lessee, or his heirs or assigns, shall have the right and privilege of making additional payments from funds or sources other than the royalties on shipment of ores, as hereinbefore provided, and upon the payment in full of said entire purchase price, either from royalties or other funds, the said mining claims and premises shall be conveyed by the Lessors to the Lessee, or his heirs or assigns, as hereinbefore provided.

17. It is further agreed that if, by reason of the violation of any of the covenants and agreements contained in the foregoing Lease, the said Lease shall become forfeited under the terms hereof, then by forfeiture of said lease shall likewise operate to terminate the option to purchase said property and release the said Lessors from any obligation under said option. The Lessors expressly agree that the Lessee shall have the right and privilege of assigning this Lease and Option.

18. In the event of a termination of this lease and option, otherwise than by the purchase of said premises by the Lessee, the Lessee shall forthwith deliver to the Lessors the peaceable possession of said mining claims and premises and shall be relieved of any further liability hereunder, and in such event any and all sums of money theretofore paid by the Lessee, or his heirs or assigns, unto the Lessors, either as royalties or on account of the purchase price, shall be retained by the Lessors as rent for use and occupation of said property and as agreed liquidated damages for and on account of the termination of this lease and option.

19. The Lessee or his assigns may cease operations on said mining claims and premises and may terminate this lease and option and all further liability hereunder at the end of any calendar month of the year during said term by giving to the Lessors ten (10) days written notice of his intention to terminate this lease.

20. All notices herein provided for may be given in writing by personal delivery of said notice or may be given by registered mail addressed to both Lessors or Lessee at Globe, Arizona, and any periods of notice specified shall run from the date of personal delivery or mailing of said notice.

21. It is understood that the Lessee will make application for a loan under the Defense Minerals Exploration Program of the United States Government, and in this connection, the Lessors agree to sign an "Owner's Consent to Lien" on the proper form.

22. Time is of the essence of this lease and option and all of the terms and conditions herein contained shall extend to and be binding upon the heirs, executors, administrators and assigns of the parties hereto.

IN WITNESS WHEREOF, the parties hereto have executed

this lease at Globe, Arizona, as of the day and year first hereinabove written.

Lessors

Le Roy Patterson
Lessee

STATE OF ARIZONA)
: ss:
COUNTY OF GILA)

On this the 10th day of February, 1955, before me, the undersigned officer personally appeared C. S. BLACK and LULU P. BLACK, Lessors, and LEROY PATTERSON, Lessee, known to me to be the persons whose names are subscribed to the foregoing instrument and acknowledged that they executed the same for the purpose therein contained.

IN WITNESS WHEREOF, I have set my hand and official seal.

Notary Public

My Commission Expires:
March 13, 1956

Cable Development and Mfg Co, Inc
118 S. P. Court
Globe, Arizona

3-c

RECEIVED
MAR 4 1955

MINUTES OF SPECIAL MEETING OF BOARD OF DIRECTORS
OF CABLE DEVELOPMENT AND MANUFACTURING CO. INC.
HELD on February 3, 1955 at 2:00 o'clock P.M. at
408 University Bldg., Syracuse, N.Y.

The President called the meeting to order.

The Secretary called the roll and the following Directors were present, being all of the Directors of the corporation:

T. M. FEDER
BELLE A. FEDER
MILTON WALLACE

The Secretary then presented a written waiver of notice of meeting, signed by all of the directors of the corporation, and the same was ordered placed on file.

The President then stated that a quorum was present and the Meeting was ready to transact business.

Upon motion duly made, seconded and carried it was

RESOLVED that the Cable Development And Manufacturing Co. Inc. hereby authorizes LEROY PATTERSON, District Manager in Globe, Arizona -

1. To apply for aid in an exploration project pursuant to D.M.E.A. Order #1, under the Defense Production Act of 1950, as amended;

2. To obligate the Cable Development and Manufacturing Co. Inc. to furnish its share of the cost of the project as requested in form M.F. 103, Question 7B;

3. To obligate Cable Development and Manufacturing Co. Inc. to pay for all costs of work and to submit monthly reports of progress for payment by D.M.E.A.

There being no further business before the meeting, the same was, upon motion duly made, seconded and carried, adjourned.

DATED: February 3, 1955.

Milton Wallace
SECRETARY

STATE OF NEW YORK)
COUNTY OF ONONDAGA) SS:
CITY OF SYRACUSE)

MILTON WALLACE being duly sworn deposes and says that he is Secretary of CABLE DEVELOPMENT AND MANUFACTURING CO. INC. and that the above is a true and certified copy of the minutes of the meeting of the Board of Directors of CABLE DEVELOPMENT AND MANUFACTURING CO. INC. held on February 3, 1955 at 408 University Building, Syracuse, New York.

Sworn to before me this 23rd day of February, 1955

Milton Wallace
MILTON WALLACE

Norman Pearlman
NORMAN PEARLMAN
NOTARY PUBLIC
Notary Public, State of New York
Qualified in Onon. Co. No. 34-3043900
My Commission Expires March 30, 1957

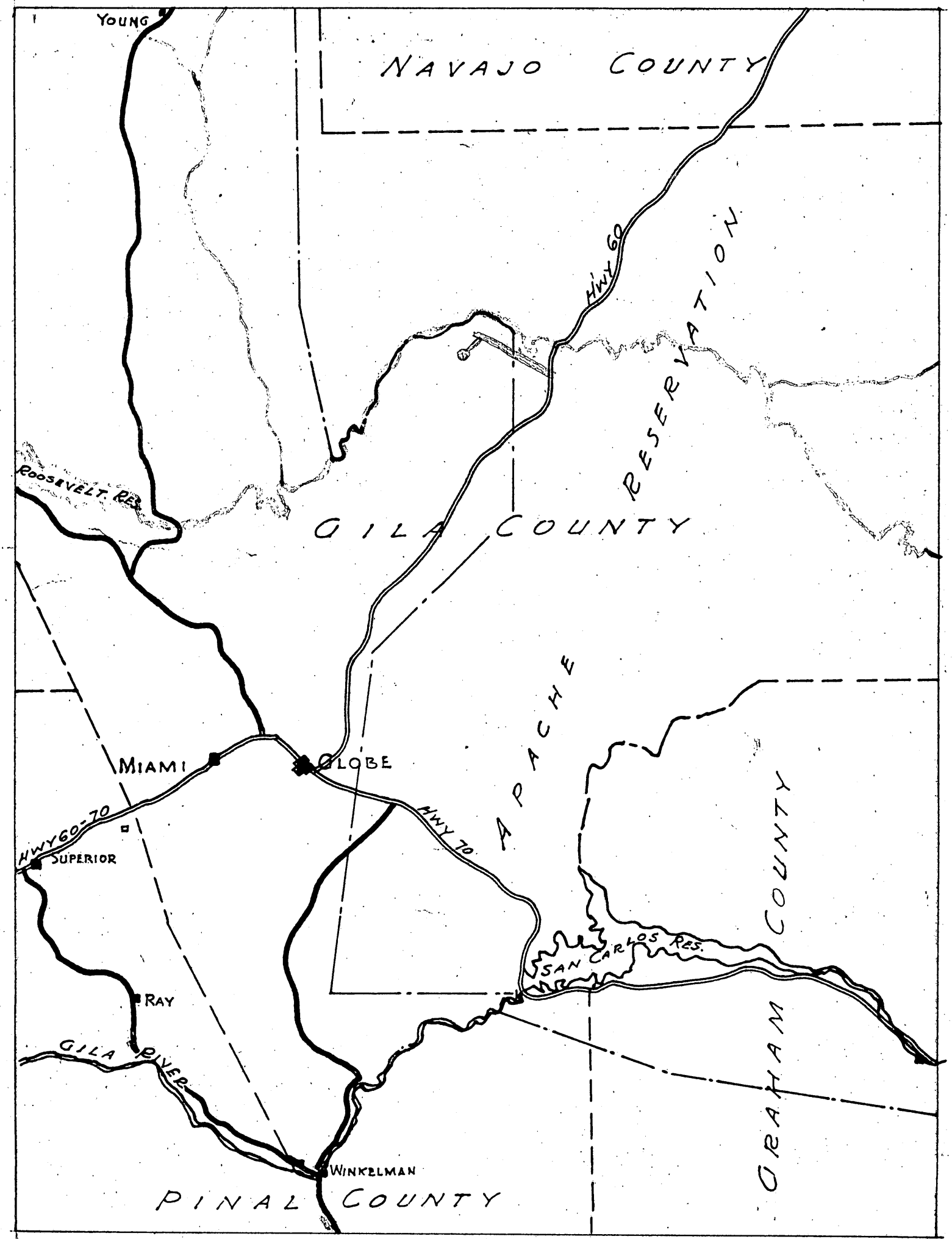
Cable Development and Mfg Co, Inc
118 S. P. Court
Globe, Arizona

7-b

LOCATION MAP
SNAKEBIT URANIUM CLAIMS
GILA COUNTY
ARIZONA
PUBLISHED A.E.C ANOMALIES
SCALE 1"=2 MILES
1955
INDIAN
RESERVATION
CROOK
NATIONAL
FOREST
LAKE
RESERVATION
SAN C
Reynolds Creek R.S.
Reynolds Creek Forest Camp
Rose Creek Forest Camp
CENTER MTN.
AZTEC PK. 7694
MOODY POINT
T. Ellison Rch.
SOMBRERO BUTTE
HOG MTN
ASBESTOS PK.
ZIMMERMAN PT.
COON CREEK BUTTE
POTTERY POINT
Ellison Rch
STANDARD
PARALLEL
NORTH
A-Cross R.S.
A-Cross Rch.
HACKBERRY MTN. 4771
Lee Rch.
Fye Rch
Devore Rch
BLACK MESA
KLONDYKE MTN. 3954
ROCKINSTRAW MTN. 3384
Shute Spring
Poison Spring
SALT RIVER MTN
ROOSEVELT LAKE
INTAKE DAM
PICACHO COLORADO 4777
Regal Mine
Chrysotile
Seneca
HAYSTACK BUTTE
BLACKJACK MTN
TIMBER CAMP MOUNTAINS
COYOTE BUTTE 3617
Ryan Ranch
JACKSON BUTTE
ROCK SPRINGS BUTTE
SEVEN MILE MOUNTAIN
33°-30'
33°-40'
110°-40'
110°-30'

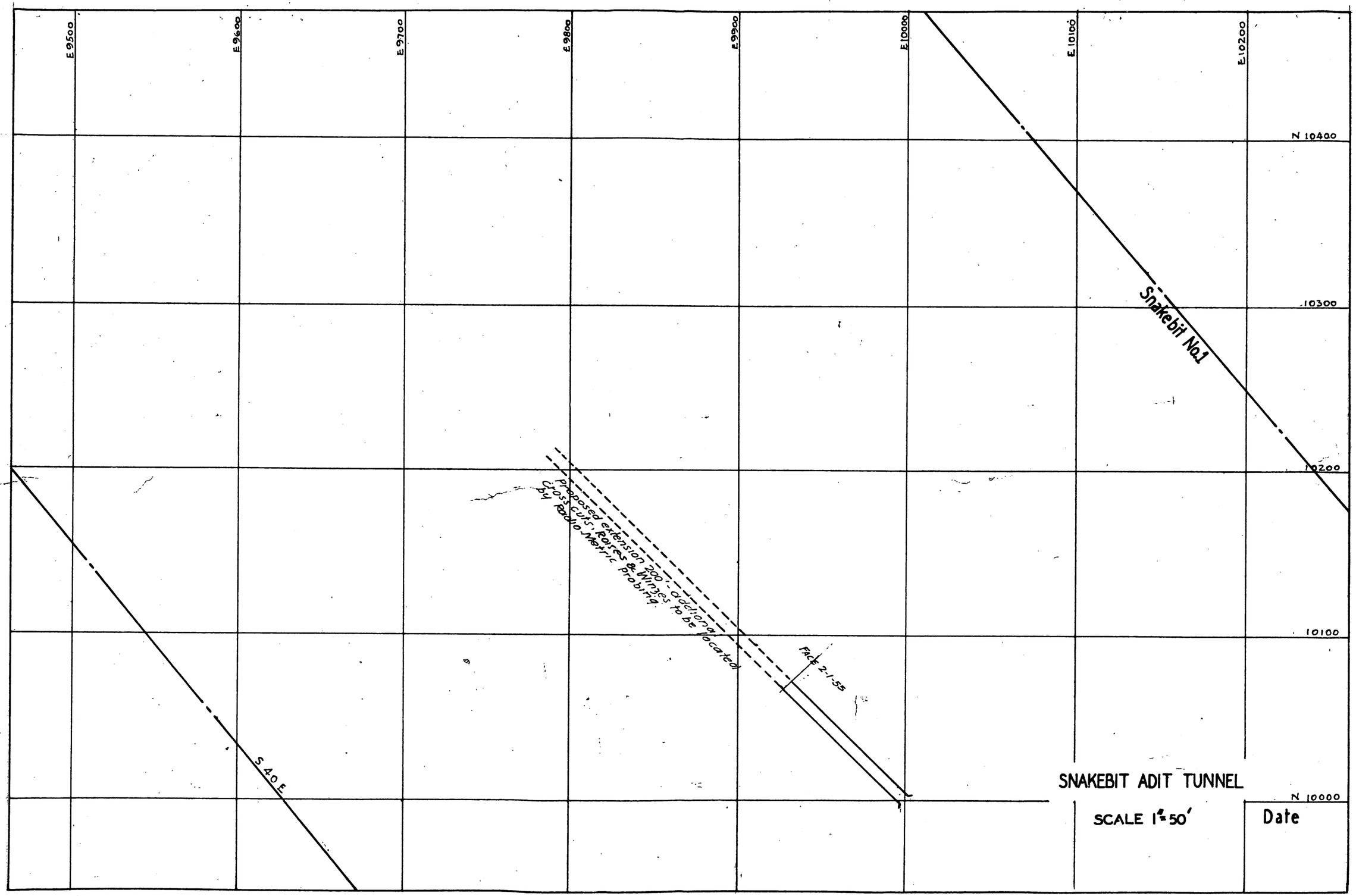
Cable Development and Mfg Co, Inc
118 S. P. Court
Globe, Arizona

4-d


YOUNG
NAVAJO COUNTY
HWY 60
APACHE RESERVATION
ROOSEVELT RES.
GILA COUNTY
MIAMI
GLOBE
HWY 60-70
SUPERIOR
HWY 70
SAN CARLOS RES.
GRAHAM COUNTY
RAY
GILA RIVER
WINKELMAN
PINAL COUNTY

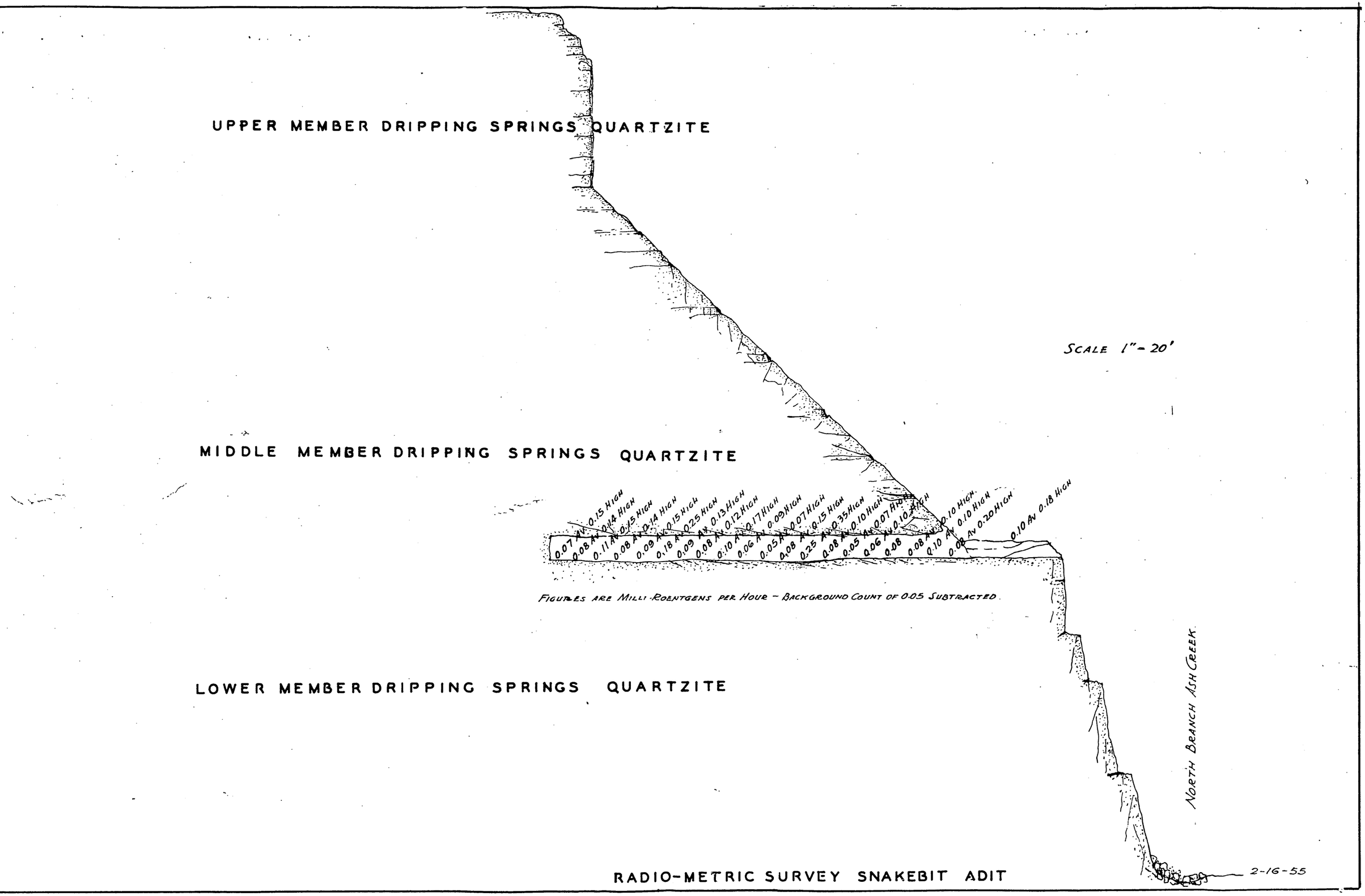
Cable Development and Mfg Co, Inc
118 S. P. Court
Globe, Arizona

5-b


E 9500
E 9600
E 9700
E 9800
E 9900
E 10000
E 10100
E 10200
N 10400
10300
10200
10100
N 10000
Snakebit No.1
Proposed extension 200'- additional
Cross cuts, Raises & Winzes to be located
by Radio Metric probing
FACE 2-1-55
S 40 E
SNAKEBIT ADIT TUNNEL
SCALE 1" = 50'
Date

Cable Development and Mfg Co, Inc
118 S. P. Court
Globe, Arizona

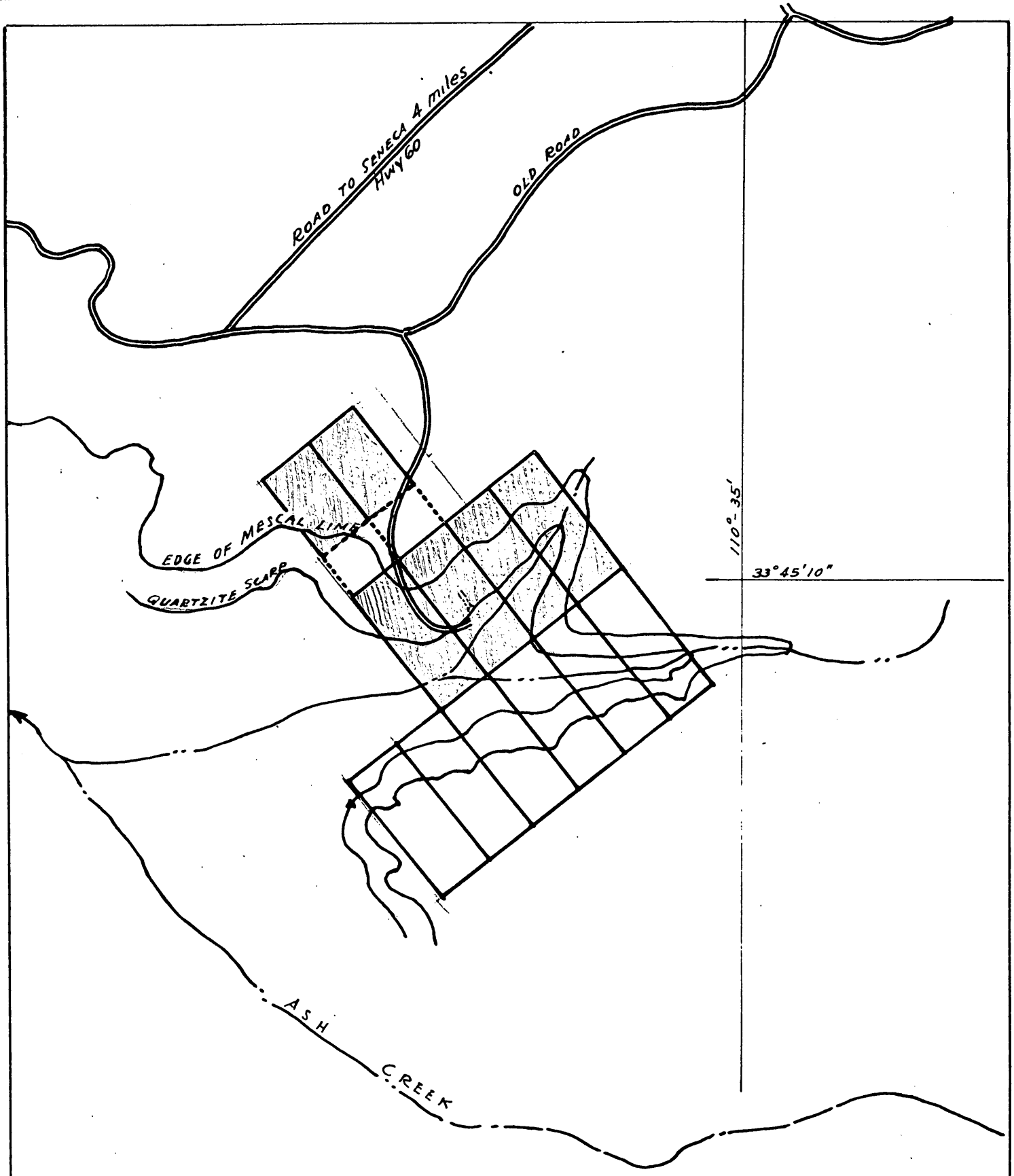
5-b



RADIO-METRIC SURVEY SNAKEBIT ADIT

Cable Development and Mfg Co, Inc
118 S. P. Court
Globe, Arizona

5-b

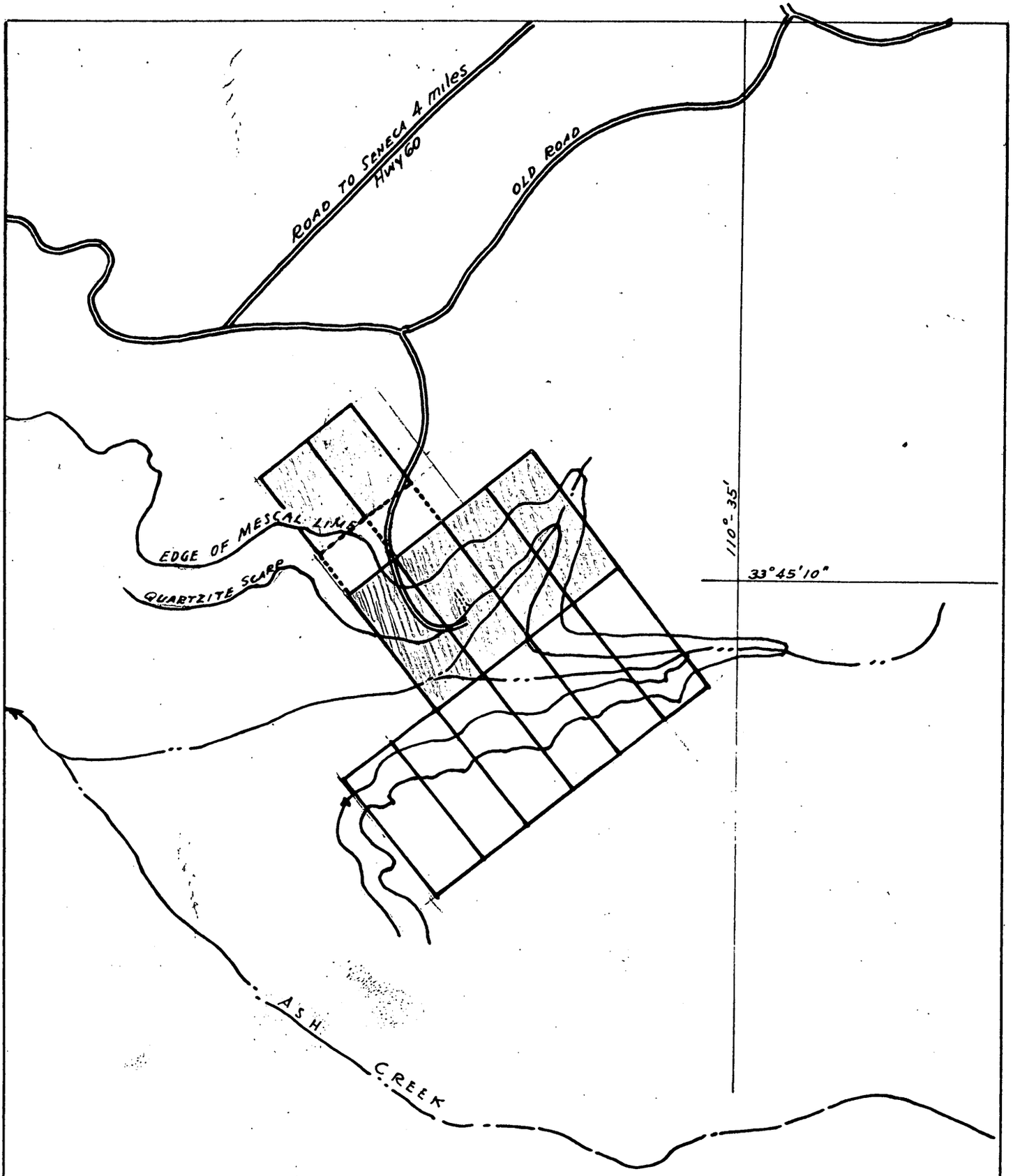


Cable Development and Mfg Co, Inc
118 S. P. Court
Globe, Arizona

5-b

SNAKEBIT URANIUM CLAIMS

MCMILLAN DISTRICT
GILA COUNTY
ARIZONA



Cable Development and Mfg Co, Inc
118 S. P. Court
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5-b

SNAKEBIT URANIUM CLAIMS

MCMILLAN DISTRICT
GILA COUNTY
ARIZONA