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FILE COPY

Surname:

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

MAY 11 1956

Mr. Sam Stone
600 Washington Avenue
Las Vegas, New Mexico

Re: Docket No. DMEA-4118 (Uranium)
Sparks and Stone Mine
San Miguel County, New Mexico

Dear Mr. Stone:

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

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

Careful study of all our information, although noting some uranium ore has been produced from your property, indicates to us that the probability of disclosing significant ore reserves by your proposed program is not sufficiently promising to justify Government participation. We regret to advise you that, under these circumstances, your application for exploration assistance is denied.

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

Sincerely yours,

C. O. Mittendorf

Administrator

FLKnouse/izm 5-10-56
cc to: Docket
Code 700
Mr. Knouse
Admr.'s Reading File
Operating Committee
DMEA Field Team, Region III (2)
Messrs. JECrawford, Rm. 3643
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA

Docket Copy

700

May 10, 1956

Summary of Proposed Project

Object: Denial of application for an exploration project.

Docket No.: DMEA-4118

Commodity: Uranium

Applicant: Sam Stone
600 Washington Avenue
Las Vegas, New Mexico

Property: Consists of the W½ of sec. 5; lots 1 and 2 (approximately) N½ NE¼) sec. 6; S½ NE¼ sec. 6; E½ SE¼ sec. 6; all in T. 16 N., R. 14 E., San Miguel County, New Mexico. Leased to Sam Stone on December 6, 1955 by J. M. T. Sparks and Margaret Sparks. Also lode mining claims No. 1, 2, and 3, owned by Applicant, situated in sec. 32 T. 17 N., R. 14 E., N.M.M. & B., San Miguel County, New Mexico.

Date of Application: Undated - received in Washington January 9, 1956.

Amount of Application: $42,950.00

Work Proposed: To explore a mass of probably flat-lying weathered and shattered granite pegmatite exposed by a trench 8 feet deep by 50 feet long, by means of a 300-foot shaft at the trench site, and laterals driven 300 feet each northward, westward, and southward from the shaft bottom. The Applicant reported a production of 15 tons of uranium-bearing ore from the above trench, assaying 0.20 percent U_3O_8, that was shipped to the AEC depot at Grants, New Mexico. A grab sample of about two pounds that composed this shipment assayed 0.26 percent U_3O_8 and 0.374 percent U_3O_8. However, no settlement had been received on the shipment.

Cost of Proposed Work:

(a)	Labor - 6 men @ $1.25/hr. 6 mos.	$9,000.00	
	Foreman, @ $2.50/hr. 6 mos.	3,000.00	
	Technical Consultant (as needed)	2,500.00	
	Total		$14,500.00
(b)	Diesel fuel - 2,500 gals.	350.00	
	Gasoline - 3,500 gals.	900.00	
	Giant Powder - 75 cases	1,200.00	
	Electric Blasting Caps - 2,000	600.00	
	Drill Points - 2,400	1,500.00	
	Total		$ 5,050.00

(c)	Tractor w/dozer rental @ $8/hr. 6 mos	$8,000.00	
	Truck rental @ $12.50/day - 150 days	1,875.00	
	Dump truck rental @ $20/day - 150 days	3,000.00	
	Compressor - purchase	3,000.00	
	Jackhammers and hose - purchase	250.00	
	Mucking machine rental $250/mo.-6 mos	1,500.00	
	Total		$17,625.00
(d)	Repairs to Tractor		1,500.00
(e)	Accounting - 6 mos @ $150/mo.	900.00	
	Workmen's Compensation	345.00	
	Employer's Liability Insurance	2,300.00	
	Payroll Taxes	230.00	
	Contingencies	500.00	
	Total		$ 4,275.00
	Total Estimated Cost of Project		$42,950.00
	Government Participation @ 75 percent		$32,212.50

Field Team Report:
(Joint report by R. U. King, USGS & C. R. Garrett, USBM - April 20, 1956):

"The Sparks-Stone mine lies in a terrain of Precambrian granite and granite gneiss, that constitutes the Las Vegas Range. --- In general reddish orthoclase and microcline granites predominate but in places the rocks are foliated and are classed as gneiss. Pegmatite in irregular masses is abundant and commonly is accompanied by dikes of aplite. Gneiss and schist occur both to the north and south but do not crop out within the area of proposed exploration. ---

"The Sparks-Stone mine consists of a discovery cut and a bulldozer trench opposite the cut, that have uncovered a mass of weathered and shattered granite pegmatite. The pegmatite is unzoned as far as can be determined from present exposures and consists of an intergrowth of coarse quartz, pink feldspar, and minor biotite. ---

"The altitude of the pegmatite is not disclosed in the cut or trench but appears to be flat-lying. It is exposed to a maximum depth of 8 feet over a distance of 50 feet by 20 feet.

"The pegmatite is noticeably radioactive (0.37 mr/hr) over a 2-foot square area in the face of the discovery cut. Sample No. 1 was taken from this area and contains 0.030 percent eU_3O_8.

"In the floor of the bulldozer trench, 20 feet S. 75° E. of the radioactive spot in the cut, a 1-foot wide zone of pegmatite is similarly radioactive (0.4 mr/hr).

" "Scattered grains, up to 1/8 inch in diameter of a black radioactive mineral are visible within the radioactive part of the pegmatite.--- Moderate radioactivity is associated with much of the biotite; the radioactivity is probably due to disseminated secondary uranium minerals. A paper thin film of a gray to black radioactive mineral, possibly sooty pitchblende, is associated with minute grains of pyrite that fill fractures in the pegmatite.

"About 100 feet northeast of the discovery cut, radioactivity amounting to 0.32 mr/hr was observed in a pegmatite outcrop---, Sample No. 2, from this locality contains 0.015 percent eU_3O_8.

"About one-fourth of a mile southwest of the discovery cut--- a pegmatite outcrop contains scattered grains of a black radioactive mineral that is tentatively identified as semarskite-polycrase.

"There is no other development in connection with the three radioactive areas.

"--- It is concluded that there is little probability of finding significant concentrations of uranium or other useful minerals on the Sparks-Stone property." ---

"The examining team recommends that the application for assistance be denied."

Comments of Commodity Members:

USGS, N. E. Nelson, May 8, 1956:

Concurs with Field Team and examiners. Also, to search for other concentrations of mineralization such as was found in the discovery cut is not justified.

USBM, John E. Crawford, May 3, 1956:

It has been determined by the Field Team that exploration would probably not result in the discovery of an economic uranium deposit.

"It is our belief that the Field Team is correct in its conclusions and we also recommend denial of the application."

Rare & Miscellaneous Metals Div., F. L. Knouse, May 10, 1956:

The field examiners determined that the uranium mineralization occurs in granite pegmatite or pegmatites. The chief concentration of uranium mineralization was exposed in the discovery cut which is in an unzoned weathered and fractured, probably flat-lying pegmatite.

Other nearby pegmatite outcrops contained a minor quantity of uranium mineralization. From the discovery cut of about 60 tons of material mined, there is a reported production of about 15 tons of ore containing 0.20 percent U_3O_8. Samples taken from the high radioactive areas in the cut show that this concentration of uranium mineralization has been bottomed and mined out.

Such concentrations of uranium mineralization are sometimes found but are usually disconnected, small, and widely separated in pegmatites. Therefore, since it is unlikely that a continued search would disclose bodies of significant importance, it is recommended that Government aid to explore this property be denied.

Ernest Wm. Ellis

Ernest Wm. Ellis, Chief
Rare and Miscellaneous
Metals Division

5/9/56

IN REPLY REFER TO:

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

RECEIVED
MAY 9 - 1956

May 8, 1956

Re: DMEA 4118
Sam Stone
Sparks and Stone Mine
San Miguel Co., New Mexico
$42,950.00 - 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 applicant requested assistance in doing much underground work, including a 300-foot shaft, on a pegmatite dike. The reasons for sinking the shaft and driving 900 feet of drifts (or crosscuts) were not given but seemed to stem from the idea that the uranium-bearing deposit is very large.

Instead, the examiners found what appears to be a flat lying pegmatite which is exposed to a depth of 8 feet in a cut which exposes the pegmatite for 50 by 20 feet, presumedly in the floor. From another cut, the discovery cut, probably opposite the large cut, 15 tons of material said to run 0.20% U_3O_8 was taken and shipped. No settlement has been made and the grade of the material may not have been determined, but a sample from a stockpile said to be like material assayed 0.260% eU_3O_8 and 0.374% U_3O_8.

The ore grade material appears to have been mined out as no such ore is now visible. Radioactivity is noticeable in the face of the discovery cut, 0.37 MR/HR, and in the floor of the trench a 1-foot wide zone showed 0.4 MR/HR. A reading of 0.32 MR/HR was obtained on an outcrop of pegmatite 100 feet northeast of the discovery pit and radioactive material shows a mile to the southwest.

The large underground work program outlined in the application is not warranted by the exposures seen by the examiners, and the examiners conclude that search for other concentrations like that mined in the discovery cut is not justified.

I concur with the recommendation of denial of the examiners and Field Team.

N. E. Nelson

N. E. Nelson

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

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N. E. Nelson

NEnelson:iml
5/8/56
Director's reading, 4212
Branch reading, 4212
DMEA (3); Docket file; J. E. Crawford, 3641; J. O. Hosted, 3210

N. E. Nelson

IN REPLY REFER TO:

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

RECEIVED
MAY 9 - 1956

May 8, 1956

Re: DMEA 4118
Sam Stone
Sparks and Stone Mine
San Miguel Co., New Mexico
$42,950.00 - Uranium

Memorandum

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N. E. Nelson

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5/8/56
: Director's reading, 4212
Branch reading, 4212
DMEA (3); Docket file; J. E. Crawford, 3641; J. O. Hosted, 3210

N. E. Nelson

IN REPLY REFER TO:

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

RECEIVED
MAY 9 - 1956

May 8, 1956

Re: DMEA 4116
Sam Stone
Sparks and Stone Mine
San Miguel Co., New Mexico
$42,950.00 - Uranium

Memorandum

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

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

Subject: Review of Field Team report.

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N. E. Nelson

5/4/56 gla.

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

May 3, 1956

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee

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

Subject: Report of Examination, DMEA Docket 4118, Sam Stone, (Sparks-Stone Mine), San Miguel County, New Mexico

I have reviewed the report of examination DMEA Docket 4118, Sam Stone (Sparks-Stone Mine), San Miguel County, New Mexico, dated April 24, 1956, and received in this office May 2. I have also discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

The radioactivity at the Sparks-Stone Mine is confined to a pegmatite dike and samples taken by the examiners assayed only 0.044 and 0.025 percent U_3O_8. It was determined by the Field Team that exploration would probably not result in the discovery of an economic uranium deposit.

The applicant was desirous of exploring the pegmatite by sinking a 300-foot shaft and driving 900 feet of crosscut at an estimated total cost of $42,950.

It is our belief that the Field Team is correct in its conclusions and we also recommend denial of the application.

John E Crawford
John E. Crawford

RECEIVED
MAY 4 - 1956

May 3, 1956

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee

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

Subject: Report of Examination, DMEA Docket 4118, Sam Stone, (Sparks-Stone Mine), San Miguel County, New Mexico

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John E. Crawford

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MAY 4 - 1956

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John E. Crawford

RECEIVED
MAY 2 1956

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

RECEIVED
APR 26 1956

April 24, 1956

224 New Customhouse
Denver 2, Colorado

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Field Team, Region III

Subject: Joint Report of Examination, Docket DMEA 4118 (Uranium), Sam Stone (Sparks-Stone Mine), San Miguel County, New Mexico

Enclosed are the original and three copies of a joint engineering and geologic report on the subject property.

The field examiners found that the pegmatite dike did contain small amounts of uranium-bearing minerals, and they conclude that there is little possibility of finding significant concentrations of uranium or other useful minerals on the subject property. They recommend that the application be denied. We concur in this recommendation.

DMEA Field Team, Region III

W. M. Traver

By W. M. Traver
Executive Officer

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
4-30-56
(date)

TRANSMITTED

APR 24 1956

RECEIVED APR 23 1956

IN REPLY REFER TO:

DMEA
Date Rec'd.
APR 23 1956
BUREAU OF MINES
Denver, Colorado

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

April 20, 1956

Memorandum

To: Executive Officer, DMEA Field Team, Region III

From: J. F. Shaw
E. N. Harshman

Subject: DMEA Docket 4118 (Uranium), Sam Stone, Sparks-Stone Mine, San Miguel County, New Mexico

Enclosed are the original and nine copies of a joint examination report by R. U. King, Geological Survey, and C. R. Garrett, Jr., Bureau of Mines, in which denial of the subject application for exploration assistance is recommended.

The applicant proposes to explore a pegmatite dike for uranium by a 300-foot shaft and 900 feet of crosscuts at an estimated cost of $42,950.

The deposit consists of an unzoned pegmatite dike emplaced in Precambrian granite and granite gneiss. Minor amounts of radioactive minerals are present in the dike but it is concluded that exploration will not lead to the discovery of significant concentrations of uranium or other strategic minerals.

We concur with the recommendations that the application be denied.

Chemical assays on the two samples taken by the examiners were received to late to include in the report.

They are essentially the same as the radiometric analyses. The chemical assays follow:

Sample No. 1	0.044 percent U_3O_8
Sample No. 2	0.025 percent U_3O_8

Reviewed by
DMEA OPERATING COMMITTEE
4-30-56
(date)

J. F. Shaw
J. F. Shaw
Superintendent of the Denver Experiment Station

E. N. Harshman
E. N. Harshman
Member, Field Team

Enclosures (10)
ENHarshman:mp

TRANSMITTED

APR 24 1956

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

RECEIVED
APR 26 1956

DMEA 4118

Sparks-Stone Mine

Sam Stone

Mineral Hill Mining District

San Miguel County, New Mexico

Uranium

Joint Engineering and Geological Report

by

R. U. King, Geologist
Geological Survey

C. R. Garrett, Jr., Mining Engineer
Bureau of Mines

April 20, 1956

Reviewed by
DMEA OPERATING COMMITTEE
4-30-56
(date)

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APR 26 1956

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ILLUSTRATIONS

Figure — Follows page

1. Map shows location of the Sparks-Stone Mine, San Miguel County, New Mexico. DMEA 4118..... 3

2. Sketch map showing Sparks-Stone Mine and local roads near Las Vegas, San Miguel County, New Mexico. DMEA 4118..... 3

3. Plat showing Sparkes-Stone Mine & other radioactive areas, San Miguel County, New Mexico. DMEA 4118..... 4

DMEA 4118

RECEIVED
APR 2 6 1956

SPARKS-STONE MINE
SAM STONE
MINERAL HILL MINING DISTRICT
SAN MIGUEL COUNTY, NEW MEXICO

INTRODUCTION AND SUMMARY

Sam Stone, 1005 7th Street, Las Vegas, New Mexico, an individual and lessee of the Sparks-Stone Mine applied for DMEA assistance to explore the property for uranium. The application was made pursuant to DMEA Order 1 under the Defense Production Act of 1950, as amended, and submitted for consideration on January 9, 1956.

The application was reviewed by the Rare and Miscellaneous Metals Division of the DMEA in Washington. On January 31, 1956 it was referred to the DMEA Field Team, Region III for a field examination and report on the property. The property became accessible late in March and was examined on April 5, 1956, by R. U. King, Geologist, U. S. Geological Survey, and C. R. Garrett, Jr., Mining Engineer, U. S. Bureau of Mines. The examiners were accompanied by Sam Stone, lessee and applicant; J. M. T. Sparks, owner of the property on which the Sparks-Stone mine is located, F. Shearer, retired Forest Ranger and E. Stone, step-son of the applicant.

The applicant proposes to explore a pegmatite dike for uranium by sinking a shaft 300 feet and driving three crosscuts, each 300 feet in length, northward, westward, and southward from the bottom of the shaft. The total cost of the project is estimated at $42,950.

A discovery pit, also known as the Sparks-Stone mine, has been excavated in the hillside where the first radioactivity was detected in the weathered pegmatite. The pit, a horizontal opencut, is about 20 feet wide, 8 feet deep and 50 feet long. The applicant stated that approximately 15 tons of radioactive material was shipped to the Atomic Energy Commission depot at Grants, New Mexico. To date no settlement has been received on this shipment, though the material is reported to assay 0.20 percent U_3O_8. A grab sample, approximating two pounds, from the stockpile that composed this shipment assayed 0.260 percent eU_3O_8 and 0.374 percent U_3O_8.

Two other locations showing measurable radioactivity are approximately 100 feet N. 60° E. and approximately 1,200 feet S. 55° W. of the discovery pit.

It is concluded that there is little probability of finding significant concentrations of uranium on the Sparks-Stone property.

The examining team recommends that the application for assistance be denied.

ACKNOWLEDGMENTS

The merits of the Sparks-Stone mine have been discussed with the Denver office personnel of the U. S. Atomic Energy Commission and they have expressed agreement with the examiners' conclusions.

LOCATION, TOPOGRAPHY, PHYSICAL FEATURES

The Sparks-Stone mine is situated in the Mineral Hill mining district, San Miguel County, New Mexico (fig. 1), 22 miles by road west-northwest of the town of Las Vegas. It is on the eastern slope of the Las Vegas Mountain in a gulch that is formed by the lateral ridges of the range. The topography is rough and steep, typical of mountain topography. The mine is at an elevation of approximately 9,400 feet above sea level, and 1,200 feet below the crest of the Las Vegas Range. It is also 2,400 feet higher than Stone's sawmill, the terminus of an all weather road connecting with U. S. 85 about 16 miles eastward.

The country is covered with a good growth of evergreen trees, chiefly red fir, ponderosa pine, and white spruce; at lower elevations pinon and juniper. The serrated nature of the eastern slope of the range affords very marked drainage features that contain small streams that flow the year round; the North Fork of Blue Creek runs about 500 feet south of the mine and has sufficient flow to maintain a small mining or exploratory project.

The mine is located in the southwestern portion of the NW 1/4NW 1/4, sec. 5, T. 16, N., R. 14 E., New Mexico meridian (fig. 2). The mine is reached by traveling southward on U. S. 85 through Las Vegas to a point about 1.8 miles south of the Gallenar Creek bridge. From this point a side road, leading west, is followed through Mineral Hill to Stone's sawmill (fig. 2). From the sawmill a poorly maintained logging road leads to the Sparks-Stone mine, 4-1/2 miles distant. The logging road has grades up to 30 percent and can be traversed only by four-wheel drive vehicles.

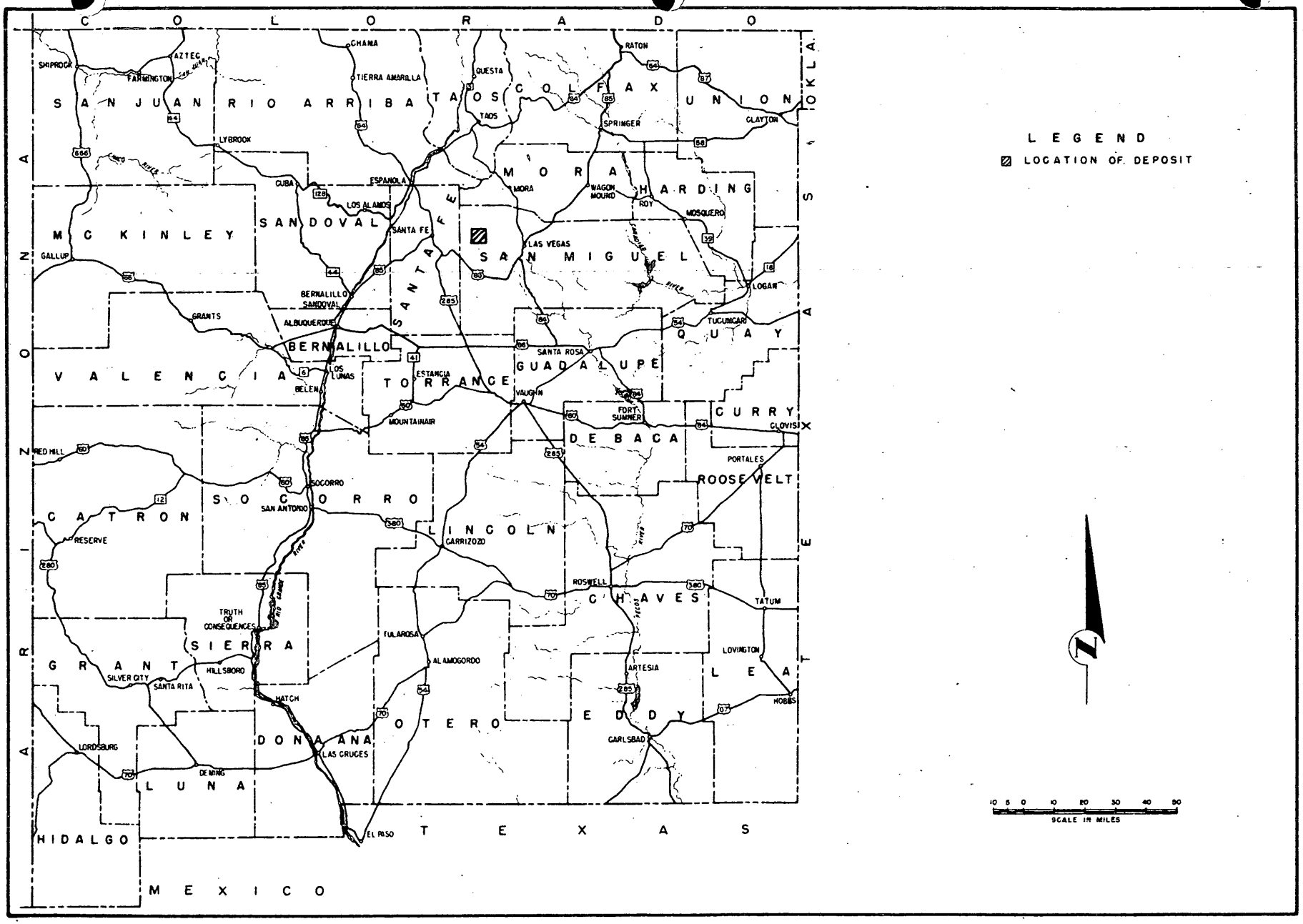

FIGURE 1 - MAP SHOWING LOCATION OF SPARKS-STONE MINE, SAN MIGUEL COUNTY, NEW MEXICO. DMEA 4118

RECEIVED
APR 26 1956

OWNERSHIP AND EXTENT

The land concerned in this application comprises the W. 1/2 of sec. 5; lot 1 and lot 2 (approximately N. 1/2 NE 1/4) sec. 6; S. 1/2 NE 1/4 sec. 6; E. 1/2 SE 1/4 sec. 6; all in T. 16 N., R. 14 E., New Mexico meridian (fig. 3). The land is owned by J. M. T. Sparks and Margaret Sparks, their ownership includes surface, mineral and timber rights. The timber rights of this property were leased to Sam Stone several years ago. Mr. Stone obtained a lease on the mineral rights shortly after he discovered uranium on this property. A copy of this lease was not made available to the examiners at the time of the examination, though the royalty terms were stated to be 12-1/2 percent. Mr. Stone states he is the sole owner of this mining lease and this lease is subject to the production royalty only. Mr. Stone also, has three unpatented claims adjoining the above property on the north. These three claims are known as Sparks-Stone mining claims Nos. 1, 2, and 3 (fig. 3); they are recorded on pages 434, 435, and 436, Book 9 in the San Miguel County Courthouse in Las Vegas.

HISTORY AND PRODUCTION

The Mineral Hill-Raciada mining districts received the greatest interest just before the turn of the century when copper was found in the Precambrian rocks. There are no records of any significant mines ever having been developed nor are there any records of mineral production from the area. Though numerous mineral deposits are and have been

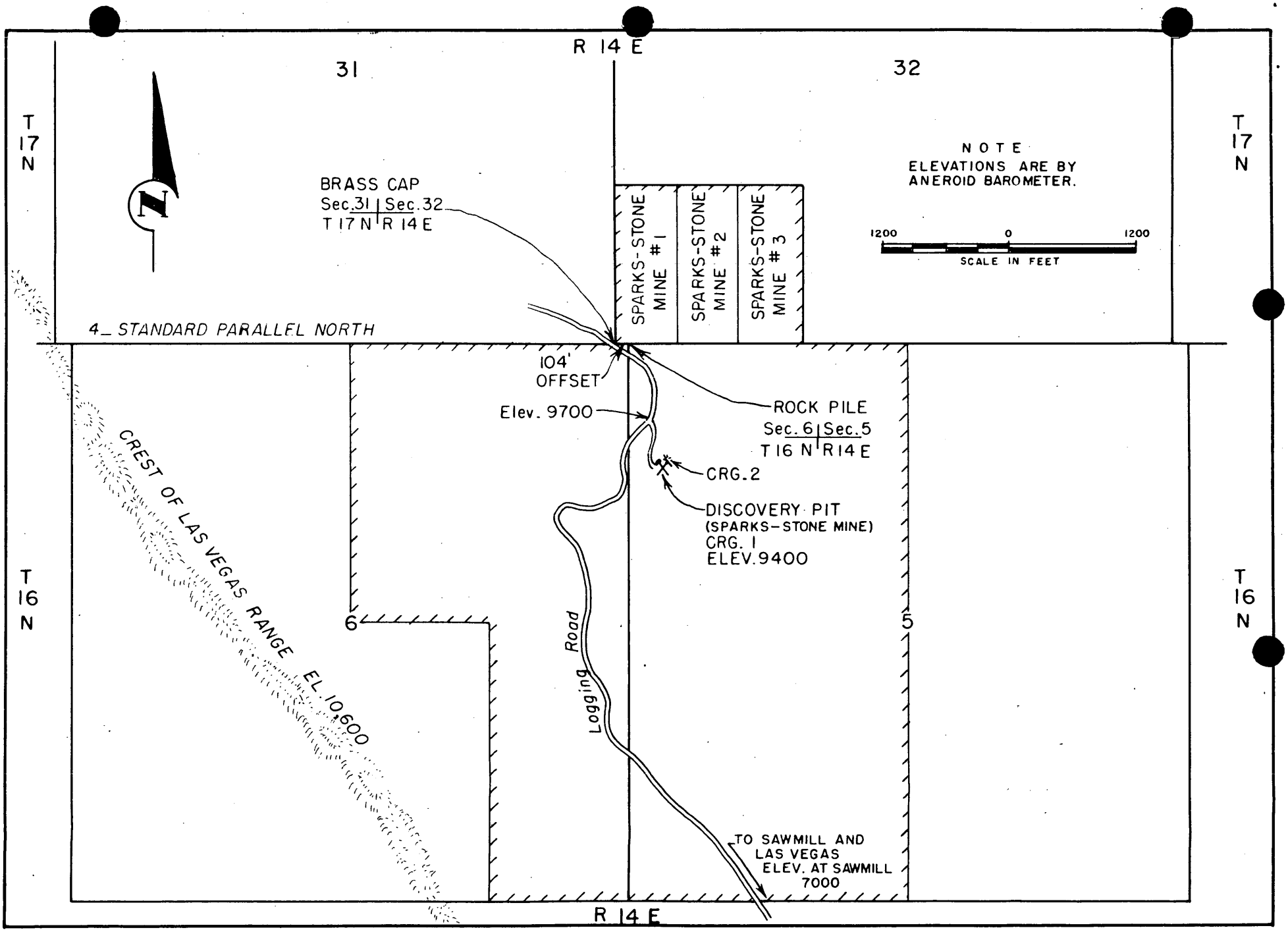

FIGURE 3 – PLAT SHOWING SPARKS-STONE MINE AND OTHER RADIOACTIVE AREAS, SAN MIGUEL COUNTY, NEW MEXICO.
DMEA 4118

known in the past there is no record that any have ever been exploited profitably.

At present the Onega Corporation is prospecting a thorium-rare earths deposit on Fisher Hill in sec. 34, T. 16 N., R. 14 E.

The Sparks-Stone mine was discovered by Sam Stone in September 1955.

The U. S. Atomic Energy Commission reports that 10 tons of uranium-bearing material have been produced from this deposit.

GEOLOGY

The Sparks-Stone mine lies in a terrain of Precambrian granite and granite gneiss, that constitutes the Las Vegas Range. It is the eastern flank of the southward extension of the Sangre de Cristo Range into northern New Mexico. In general reddish orthoclase and microcline granites predominate but in places the rocks are foliated and are classed as gneiss. Pegmatite in irregular masses is abundant and commonly is accompanied by dikes of aplite. Gneiss and schist occur both to the north and south but do not crop out within the area of proposed exploration. The general geology and ore deposits of the region are described by Graton, Lindgren, and Gordon in U. S. Geological Survey Professional Paper 68, but no detailed geologic accounts of the immediate area are known.

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that have been mined for the mica, beryl, and probably feldspar content occur both north and south of the Sparks-Stone mine. No significant production is recorded from either the metal deposits nor from the pegmatite deposits of this district.

The Sparks-Stone mine consists of a discovery cut and a bulldozer trench opposite the cut, that have uncovered a mass of weathered and shattered granite pegmatite. The pegmatite is unzoned as far as can be determined from present exposures and consists of an intergrowth of coarse quartz, pink feldspar, and minor biotite. The biotite is irregularly dispersed through the pegmatite as aggregates of contorted books.

The altitude of the pegmatite is not disclosed in the cut or trench but appears to be flat-lying. It is exposed to a maximum depth of 8 feet over a distance of 50 feet by 20 feet.

The pegmatite is noticeably radioactive (0.37 mr/hr) over a 2-foot square area in the face of the discovery cut. Sample No. 1 was taken from this area and contains 0.030 percent eU_3O_8.

In the floor of the bulldozer trench, 20 feet S. 75° E. of the radioactive spot in the cut, a 1-foot wide zone of pegmatite is similarly radioactive (0.4 mr/hr).

Scattered grains, up to 1/8 inch in diameter of a black radioactive mineral are visible within the radioactive part of the pegmatite. The mineral is probably one of the complex niobium-tantalum rare earth oxides and belongs to the samarskite-polycrase mineral group. Moderate

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About 100 feet northeast of the discovery cut, radioactivity amounting to 0.32 mr/hr was observed in a pegmatite outcrop (fig. 3). Sample No. 2, from this locality contains 0.015 percent eU_3O_8.

About one-fourth of a mile southwest of the discovery cut (fig. 3) a pegmatite outcrop contains scattered grains of a black radioactive mineral that is tentatively identified as samarskite-polycrase.

PRESENT STATUS

Exploration so far has consisted of locating three spots of appreciable radioactivity, the first and most significant being at the discovery pit. This pit was excavated from the hillside as a horizontal opencut into the radioactive zone of the weathered pegmatite. The rock dug from the pit, approximating 15 tons, was stockpiled and later shipped to the A. E. C. depot at Grants, New Mexico. The other two radioactive locations do not have any work performed on them; they are outcrops or fairly solid pegmatite.

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There are no mining or milling facilities on the ground. Mr. Stone has a caterpellar D-7 bulldozer available for the limited part it would play in further exploration. He also, has a jeep pick-up truck and various logging trucks and associated equipment common to the logging business, that might find very limited use in an exploration project.

There is an abundance of timber on the property for any mining operation, red fir, being the most significant. Water, though not abundant, is adequate for a small operation; the small streams are reported to flow the year round.

Labor, equipment and supplies are available in Las Vegas, a town of approximately 9,000 population.

The examiners collected two samples from the property. Sample CRG 1 was a 24-inch chipped sample cut from the discovery pit. Sample CRG 2 was a 24-inch chipped sample cut from the outcrop 100 feet N. 60° E. of the discovery pit. Sample CRG 1 contained 0.030 percent eU and sample CGR 2 contained 0.015 percent eU. The outcrop 1,200 feet S. 55° W of the discovery pit was not sampled because there did not appear to be enough of the radioactive material to sample.

APPLICANT'S PROJECT PROPOSAL AND COSTS

The applicant proposes to sink a 300-foot shaft at the site of the discovery pit. At the bottom of the shaft laterals would be driven northward, westward, and southward a distance of 300 feet each. The necessary manpower and supervisory personnel would be employed by the applicant. There are to be no independent contracts. Necessary equipment would be purchased or rented, whichever suited better the

requirements of the project. The applicant's itemized account of costs follows:

(a) Common labor, 6 men at $1.25/hr. 6 months	$ 9,000.00	
Foreman, 1 man at at $2.50/hr. 6 months	3,000.00	
Technical Consultant as needed	2,500.00	
Total		$14,500.00
(b) 2,500 gallons diesel fuel at 14¢ per gal.	$ 350.00	
3,500 gallons gasoline at 25.72¢ per gal.	900.00	
75 cases giant powder at $16/case	1,200.00	
2,000 blasting caps at $30/case	600.00	
2,400 drill points at 62-1/2¢ each	1,500.00	
Unclassified	500.00	
Total		$ 5,050.00
(c) Rent cat & dozer at $8/day* 6 months	$ 8,000.00	
Rent truck (transport men & supplies) 150 days at $12.50/day	1,875.00	
Rent 6 by 6 truck with dump body to remove waste & stockpile ore 150 days at $20/day	3,000.00	
Buy compressor	3,000.00	
Buy air hammer and hose	250.00	
Rent loader 6 months at $250/month	1,500.00	
Total		$17,625.00

(*) Applicant probably meant $8/hr.

(d) Repair rollers and track on cat	$ 1,500.00		
Total		$ 1,500.00	
(e) Accounting 6 months at $150/month	$ 900.00		
Workmen's compensation	345.00		
Employer's liability	2,300.00		
Payroll taxes	230.00		
Contingencies	500.00		
Total		$ 4,275.00	
Grand Total			$42,950.00

From the preceeding account, an analyses will readily show that the applicant is not prepared to undertake such a project alone and he states there are to be no independent contracts. His planning and estimates of costs and time are obviously inadequate and indicate his lack of understanding of mining operations.

CONCLUSIONS

The Sparks-Stone mine has prospected a pegmatite dike that contains small quantities of uranium-bearing minerals. The uranium minerals are syngenetic with the pegmatite. It is concluded that there is little probability of finding significant concentrations of uranium or other useful minerals on the Sparks-Stone property.

RECOMMENDATIONS

It is recommended that the application for assistance to explore for uranium on the Sparks-Stone property be denied.

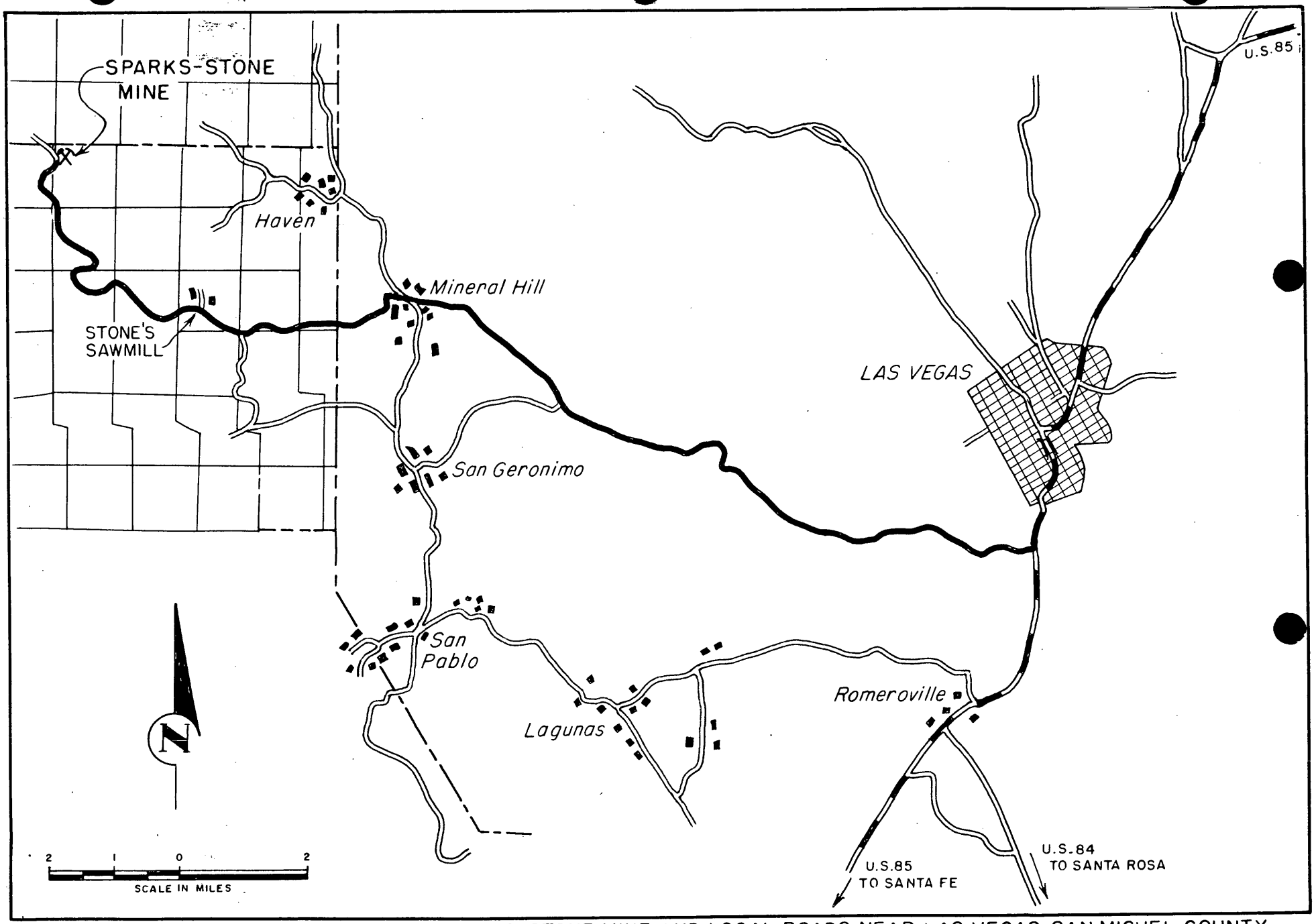

FIGURE 2 - SKETCH MAP SHOWING SPARKS-STONE MINE AND LOCAL ROADS NEAR LAS VEGAS, SAN MIGUEL COUNTY, NEW MEXICO. DMEA 4118

4-26-56

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

April 24, 1956

224 New Customhouse
Denver 2, Colorado

RECEIVED
APR 26 1956

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Field Team, Region III

Subject: Joint Report of Examination, Docket DMEA 4118 (Uranium), Sam Stone (Sparks-Stone Mine), San Miguel County, New Mexico

Enclosed are the original and three copies of a joint engineering and geologic report on the subject property.

The field examiners found that the pegmatite dike did contain small amounts of uranium-bearing minerals, and they conclude that there is little possibility of finding significant concentrations of uranium or other useful minerals on the subject property. They recommend that the application be denied. We concur in this recommendation.

DMEA Field Team, Region III

W. M. Traver

By W. M. Traver
Executive Officer

Enclosures

Reviewed by
DMEA OPERATING COMMITTEE
4-30-56
(date)

TRANSMITTED
APR 24 1956

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RECEIVED
APR 23 1956

IN REPLY REFER TO:
DMEA
Date Rec'd.
APR 23 1956
BUREAU OF MINES
Denver, Colorado

Defense Minerals Exploration Administration
Denver Federal Center
Denver, Colorado

April 20, 1956

Memorandum

To: Executive Officer, DMEA Field Team, Region III

From: J. F. Shaw
E. N. Harshman

Subject: DMEA Docket 4118 (Uranium), Sam Stone, Sparks-Stone Mine, San Miguel County, New Mexico

Enclosed are the original and nine copies of a joint examination report by R. U. King, Geological Survey, and C. R. Garrett, Jr., Bureau of Mines, in which denial of the subject application for exploration assistance is recommended.

The applicant proposes to explore a pegmatite dike for uranium by a 300-foot shaft and 900 feet of crosscuts at an estimated cost of $42,950.

The deposit consists of an unzoned pegmatite dike emplaced in Precambrian granite and granite gneiss. Minor amounts of radioactive minerals are present in the dike but it is concluded that exploration will not lead to the discovery of significant concentrations of uranium or other strategic minerals.

We concur with the recommendations that the application be denied.

Chemical assays on the two samples taken by the examiners were received to late to include in the report.

They are essentially the same as the radiometric analyses. The chemical assays follow:

Sample No. 1	0.044 percent U_3O_8
Sample No. 2	0.025 percent U_3O_8

Reviewed by
DMEA OPERATING COMMITTEE
4-30-56
(date)

J. F. Shaw
Superintendent of the Denver Experiment Station

E. N. Harshman
Member, Field Team

Enclosures (10)
ENHarshman:mp

TRANSMITTED

APR 24 1956

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

RECEIVED
APR 20 1956

DMEA 4118

Sparks-Stone Mine

Sam Stone

Mineral Hill Mining District

San Miguel County, New Mexico

Uranium

Joint Engineering and Geological Report

by

R. U. King, Geologist
Geological Survey

C. R. Garrett, Jr., Mining Engineer
Bureau of Mines

April 20, 1956

Reviewed by
DMEA OPERATING COMMITTEE
4-30-56
(date)

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ILLUSTRATIONS

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2. Sketch map showing Sparks-Stone Mine and local roads near Las Vegas, San Miguel County, New Mexico. DMEA 4118	3
3. Plat showing Sparkes-Stone Mine & other radioactive areas, San Miguel County, New Mexico. DMEA 4118	4

DMEA 4118

APR 26 1956

SPARKS-STONE MINE
SAM STONE
MINERAL HILL MINING DISTRICT
SAN MIGUEL COUNTY, NEW MEXICO

INTRODUCTION AND SUMMARY

Sam Stone, 1005 7th Street, Las Vegas, New Mexico, an individual and lessee of the Sparks-Stone Mine applied for DMEA assistance to explore the property for uranium. The application was made pursuant to DMEA Order 1 under the Defense Production Act of 1950, as amended, and submitted for consideration on January 9, 1956.

The application was reviewed by the Rare and Miscellaneous Metals Division of the DMEA in Washington. On January 31, 1956 it was referred to the DMEA Field Team, Region III for a field examination and report on the property. The property became accessible late in March and was examined on April 5, 1956, by R. U. King, Geologist, U. S. Geological Survey, and C. R. Garrett, Jr., Mining Engineer, U. S. Bureau of Mines. The examiners were accompanied by Sam Stone, lessee and applicant; J. M. T. Sparks, owner of the property on which the Sparks-Stone mine is located, F. Shearer, retired Forest Ranger and E. Stone, step-son of the applicant.

The applicant proposes to explore a pegmatite dike for uranium by sinking a shaft 300 feet and driving three crosscuts, each 300 feet in length, northward, westward, and southward from the bottom of the shaft. The total cost of the project is estimated at $42,950.

A discovery pit, also known as the Sparks-Stone mine, has been excavated in the hillside where the first radioactivity was detected in the weathered pegmatite. The pit, a horizontal opencut, is about 20 feet wide, 8 feet deep and 50 feet long. The applicant stated that approximately 15 tons of radioactive material was shipped to the Atomic Energy Commission depot at Grants, New Mexico. To date no settlement has been received on this shipment, though the material is reported to assay 0.20 percent U_3O_8. A grab sample, approximating two pounds, from the stockpile that composed this shipment assayed 0.260 percent eU_3O_8 and 0.374 percent U_3O_8.

Two other locations showing measurable radioactivity are approximately 100 feet N. 60° E. and approximately 1,200 feet S. 55° W. of the discovery pit.

It is concluded that there is little probability of finding significant concentrations of uranium on the Sparks-Stone property.

The examining team recommends that the application for assistance be denied.

ACKNOWLEDGMENTS

The merits of the Sparks-Stone mine have been discussed with the Denver office personnel of the U. S. Atomic Energy Commission and they have expressed agreement with the examiners' conclusions.

LOCATION, TOPOGRAPHY, PHYSICAL FEATURES

The Sparks-Stone mine is situated in the Mineral Hill mining district, San Miguel County, New Mexico (fig. 1), 22 miles by road west-northwest of the town of Las Vegas. It is on the eastern slope of the Las Vegas Mountain in a gulch that is formed by the lateral ridges of the range. The topography is rough and steep, typical of mountain topography. The mine is at an elevation of approximately 9,400 feet above sea level, and 1,200 feet below the crest of the Las Vegas Range. It is also 2,400 feet higher than Stone's sawmill, the terminus of an all weather road connecting with U. S. 85 about 16 miles eastward.

The country is covered with a good growth of evergreen trees, chiefly red fir, ponderosa pine, and white spruce; at lower elevations pinon and juniper. The serrated nature of the eastern slope of the range affords very marked drainage features that contain small streams that flow the year round; the North Fork of Blue Creek runs about 500 feet south of the mine and has sufficient flow to maintain a small mining or exploratory project.

The mine is located in the southwestern portion of the NW 1/4NW 1/4, sec. 5, T. 16 N., R. 14 E., New Mexico meridian (fig. 2). The mine is reached by traveling southward on U. S. 85 through Las Vegas to a point about 1.8 miles south of the Gallenar Creek bridge. From this point a side road, leading west, is followed through Mineral Hill to Stone's sawmill (fig. 2). From the sawmill a poorly maintained logging road leads to the Sparks-Stone mine, 4-1/2 miles distant. The logging road has grades up to 30 percent and can be traversed only by four-wheel drive vehicles.

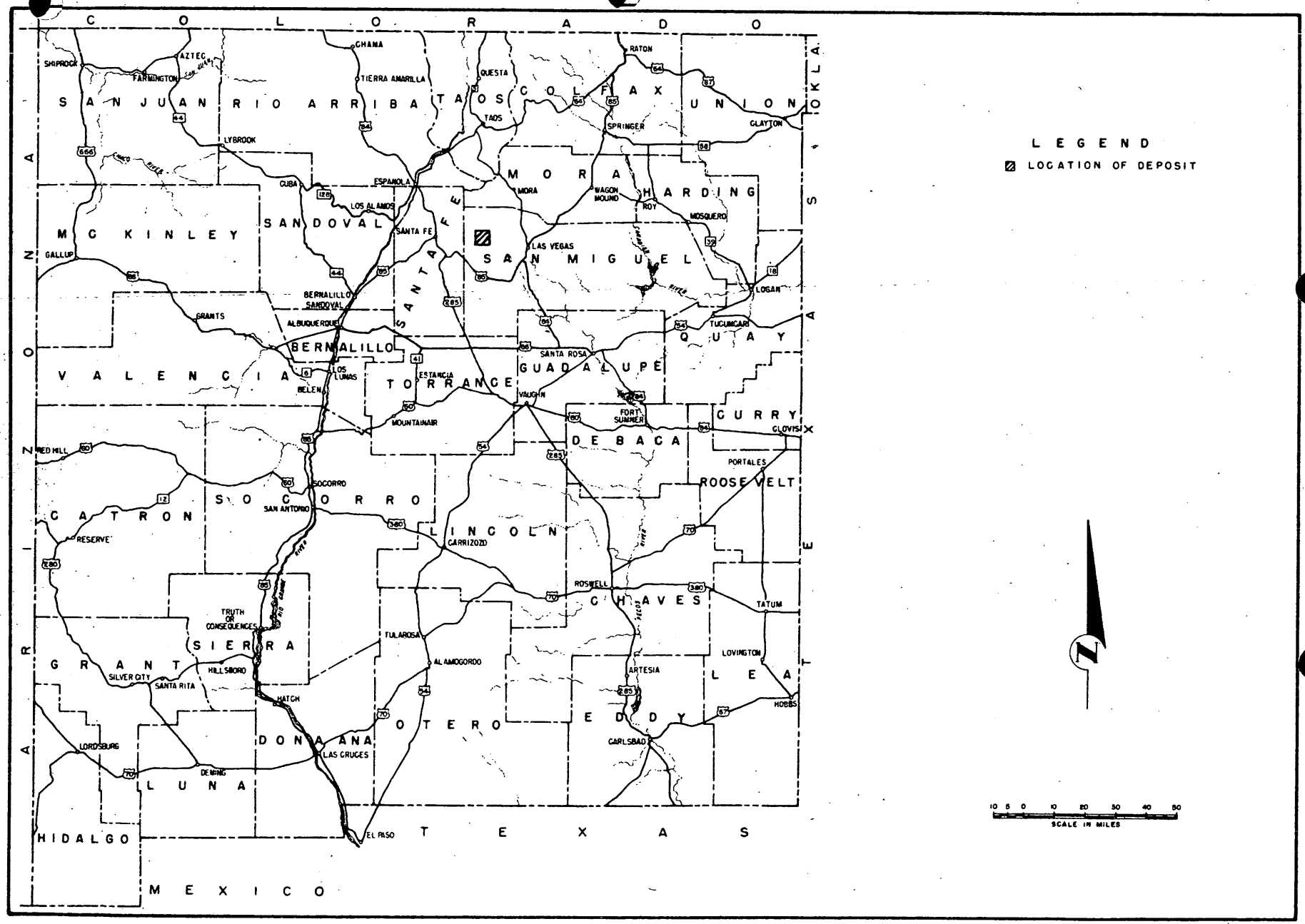

FIGURE 1 - MAP SHOWING LOCATION OF SPARKS-STONE MINE, SAN MIGUEL COUNTY, NEW MEXICO. DMEA 4118

RECEIVED
APR 26 1956

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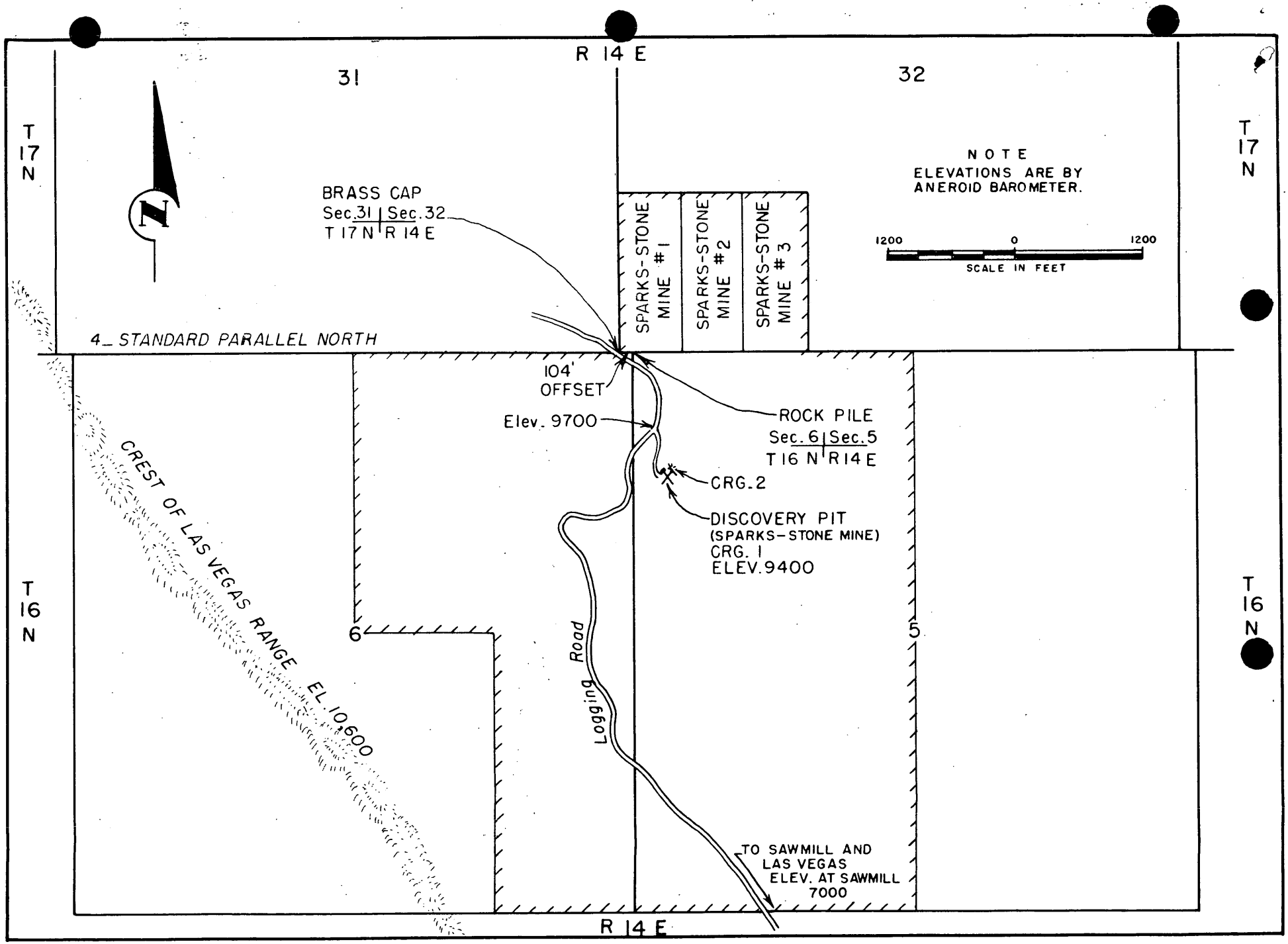

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DMEA 4118

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RECOMMENDATIONS

It is recommended that the application for assistance to explore for uranium on the Sparks-Stone property be denied.

3/2/56

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

RECEIVED
MAR - 1 1956

February 29, 1956

Memorandum

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

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

Subject: Review of supplemental information, DMEA Docket 4118, Sparks and Stone Mine, San Miguel County, New Mexico

I have reviewed the attached supplemental information, Sparks and Stone Mine, DMEA Docket 4118, dated January 31 and received in this office February 8. I have also discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

The supplemental information submitted does not significantly add or detract from the original application.

Inasmuch as the application was referred to Region III on January 26, 1956, as recommended in my memorandum of January 13, it would be advisable to await the results of the findings of the Region III DMEA Field Team before making further recommendation on the application for Federal exploration assistance.

John E. Crawford
John E. Crawford

Attachment

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

RECEIVED
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February 29, 1956

Memorandum

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

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

Subject: Review of supplemental information, DMEA Docket 4118, Sparks and Stone Mine, San Miguel County, New Mexico

I have reviewed the attached supplemental information, Sparks and Stone Mine, DMEA Docket 4118, dated February 28 and received in this office February 8. I have also discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

The supplemental information submitted does not significantly add or detract from the original application.

Inasmuch as the application was referred to Region III on January 26, 1956, as recommended in my memorandum of January 13, it would be advisable to await the results of the findings of the Region III DMEA Field Team before making further recommendation on the application for Federal exploration assistance.

John E. Crawford

Attachment

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

RECEIVED
MAR - 1 1956

February 29, 1956

Memorandum

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

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

Subject: Review of supplemental information, DMEA Docket 4118, Sparks and Stone Mine, San Miguel County, New Mexico

I have reviewed the attached supplemental information, Sparks and Stone Mine, DMEA Docket 4118, dated [redacted] and received in this office February 8. I have also discussed it with Joseph G. Hosted, Washington representative of the Atomic Energy Commission.

The supplemental information submitted does not significantly add or detract from the original application.

Inasmuch as the application was referred to Region III on January 26, 1956, as recommended in my memorandum of January 13, it would be advisable to await the results of the findings of the Region III DMEA Field Team before making further recommendation on the application for Federal exploration assistance.

John E. Crawford

Attachment

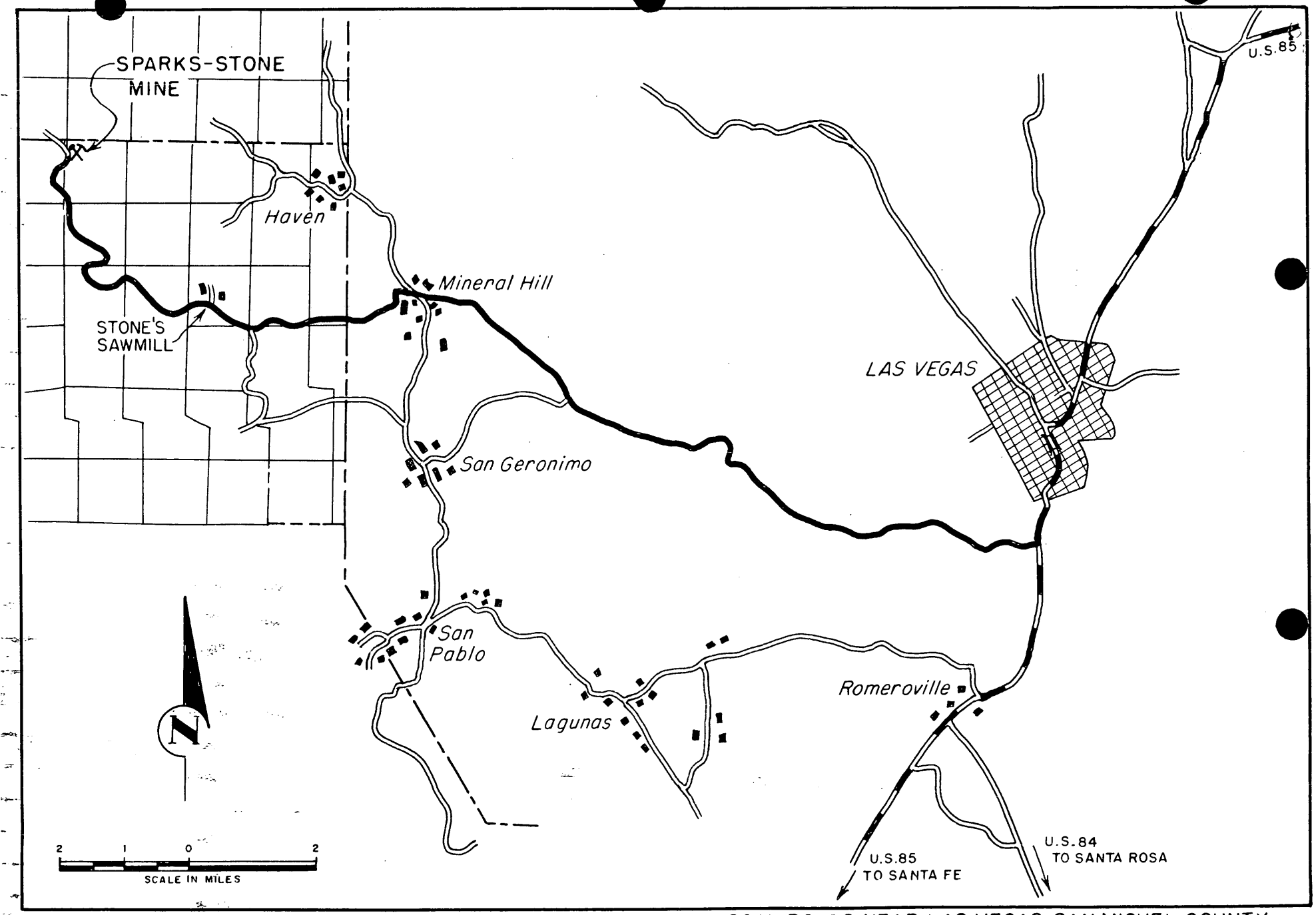

FIGURE 2 - SKETCH MAP SHOWING SPARKS-STONE MINE AND LOCAL ROADS NEAR LAS VEGAS, SAN MIGUEL COUNTY, NEW MEXICO. DMEA 4118

MF-500

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

REFERENCE SLIP

DATE 2-8-56

REFERRED TO:

1. Mr. Crawford, Rm. 3641
2.
3.
4.

FOR:

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

REMARKS: Supplemental information submitted by Applicant in Docket DMEA-4118. Application was referred to Region III on January 26, at which time additional information was requested from the Applicant.

Check (X) before the items needing attention.

This material may be returned after it has served your purpose. Original application also attached.

Ernest M. Ellis
gta *Initials of sender.*

GPO 16—63815-1

600 Washington Ave
Las Vegas, New Mexico
January 31, 1956

RECEIVED

FEB - 3 1956

Mr. C. C. Withendorf, Administrator
Defense Minerals Exploration Adminis ration
Washington 25
D. C.

Dear Sir:

Reply is made to your letter of January 26: Re: Docket No. DMEA-4118 (Uranium), Sparks and Stone Mine, San Miguel County, New Mexico.

Your item number 1:

Sketch is attached hereto showing location of Lots 1 and 2. You will note that they are merely the closing subdivisions of the Section on the Township line on the north.

Your item number 2:

The attached sketch also shows the location of the Sparks and Stone Mining Claims numbers 1, 2 and 3. My original application was in error in stating that I am co-locator of these claims. Mr. Shearer who helped me prepare the application was under the mistaken impression that Mr. Sparks and I were co-locators. I did not catch the error when I reviewed the application.

The facts are: I am the sole locator of these claims. They are legally staked and are recorded in the County Clerks office in Book 9, Mining Location notices, on pages 434, 435, and 436, respectively. I do have a private arrangement with Mr. Sparks, from whom I have leased the land where I have done most of my work, to the effect that I will give him a cut on any profit I may make on these claims. But I hold complete control of them, and he has no voice in any manner, legal or understood as to the management of them or any operation upon them. Claims are filed in my name: Sam Stone, Locator, on November 6, 1955 Recorded

Your item number 5:

(a) Only one mineralized exposure has been explored. That point is indicated on the sketch. Counter readings may be found in many other places over the claims and leased xxxxx land, indicating the probability of equal values over a wide area.

(b) An assay certificate on a sample from xxxx the above point was submitted to you with my application. You returned it to me so I am holding it here. On January 21, I delivered a load of 10½ tons of ore to the ASC Anaconda Copper Company station at Grants N. M. No return has xxx yet been received, but should be xx coming soon. I understand that this load will be sampled and assayed in Denver.

(c) The only probing of significance was done at the point shown on the sketch and from which the ore was obtained that was trucked to Grants. Aside from that, prospecting has been done over the area with rocks turned over or loosened. Much of this prospecting has xxxxxxx discovered rock that give counter readings of as high as .70. There are six locations on the leased land where the geiger counter readings are very promising, and four such spots on the mining claims on government land.

(d) The proposed exploration work as proposed on my application was intended to be performed at the point where all exploration work has been done to date. That xx the point indicated on the sketch

Mr. Jim Allison, geologist from the ASC office in Albuquerque, visited this area January 24. He picked up some samples for assay, and seemed to be highly pleased and enthusiastic about what he saw. He promised to let me hear from him again within ten or twelve days.

Many thanks for your interest in this and the way you are carrying in on with a minimum of delay. I hope this letter will supply all the information requested in your letter.

Very sincerely yours,

Sam Stone

Sam Stone
600 Washington Ave
Las Vegas
New Mexico

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

DMEA
Date Rec'd
JAN 4 1956

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

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. DMEA-4118
Metal or Mineral Uranium
Date Received 1-9-56
Estimated Cost $42,958.00
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: Sam Stone, 600 Washington Ave., Las Vegas, New Mexico

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

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

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

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

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract Lots 1 and 2, S½ NE¼ and E½ SW¼, Section 6, and the West half Section 5, Twp. 16 N., Range 14 East, N.M.P., 575.74 acres more or less held under mining lease from J. T. Sparks, owner. Also Sparks and Stone Mining locations on north.

(*b*) State any mine name by which the property is known. Sparks and Stone Mine

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise Lessee on privately owned land. Co-locator on government land

(*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. Attached.

(*e*) If you own the land, describe any liens or encumbrances on it None

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. Pages 434, 435 and 436, Book 9, San Miguel County.

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

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

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

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

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

16—66551-1

RECEIVED
JAN 9 1956

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

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

(*c*) The work will start within ten days and be completed within 6 months from the date of an exploration project contract.

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

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

☐ Money ☒ Use of equipment owned by you ☐ Other X Labor

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 _____, 195__

_____
(Applicant)

By_____

_____

_____

Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

U. S. GOVERNMENT PRINTING OFFICE 16—66551-1

Form MF-103 Continuation Sheet No. 1

Sam Stone
600 Washington Ave
Las Vegas, N. M.

Item 4 a. Small scale exploration operations have been under way since about November 1, this year (1955). About 15 tons of salable ore have been stockpiled. I hold 100% interest in operations subject to 12½% royalty on production due lessor.

Fair to good dirt road from Las Vegas to sawmill 19 miles distant. Remaining 4 miles to operation is over logging road over which sawlogs are being hauled to sawmill.

Item 4 b. Exploration work has yielded 15 tons of salable uranium ore as byproduct which has been stockpiled with exception of one small shipment to AEC depot at Grants, New Mexico. Load averaged about .20 grade, but picked specimens from load tested 2%. Greater values and quantities now being recovered as work progresses. Work is concentrated at one point on leased land. Three other locations on leased land have been probed just enough to expose ore carrying not less than .20 values. Three locations on claims on government land have also revealed ore of equal value, but no further exploration has been attempted at points other than the one operation mentioned above.

Form WF - 103 Continuation Sheet No. 3

Sam Stone
600 Washington Ave
Las Vegas, N. M.

Item 4 e. Manpower is plentiful locally, and also water. Materials, supplies amd equipment are available in Las Vegas. REA power line passes within 2 miles airline from claim. Diesel powered stationary engines available if needed.

~~Item--5-d.-----Applicant-has-had-many-years-experience-in---operation-of-sawmills-and-logging-operations--~~

Item 5 b. Proposed work would be designed to determine limits of ore body, Shaft should go down 200 feet and laterals run south, west, and north for distance of 300 feet each. If ore body is continuous through this work, it would be of sufficient size to warrant installation of mining equipment and production operations.

Exploration of other exposures of ore values would be handled as separate exploration projects.

Item 5 d. Applicant has had many years experience with sawmills and logging operations. Good background in handing heavy equipment and supervision of crews. Expert mechanic. Technical mining consultation will be needed to balance lack of wide mining experience.

Form MF - 103 Continuation Sheet No. 4

Sam Stone
600 Washington Ave
Las Vegas, N. M.

Item 6 a. No independent contracts.

Item 6 b.

Common labor	6 men	$1.25 per hour	6 months		$9,000.00
Foreman	1 man	$2.50 "	"	" "	3,000.00
Technical consultant as needed					2,500.00
					$ 14500.00

Item 6 c.

2500 gallons diesel fuel	350.00
3500 " gasoline	900.00
75 cases giant powder	1200.00
2000 electric blasting caps	600.00
Drill points 2400	1500.00
Unclassified	500.00
	5050.00

Item 6 d.

Rent Cat and Dozer $8.00 day, 6 months	8000.00
" Truck transport men supplies etc 150 days at $12.50	1875.00
" 6 x 6 truck with dump body to remove waste and stockpile ore 150 days at $20.	3000.00
Buy Compressor	3000.00
Air hammer and hose	250.00
Rent loader 6 months at $250	1500.00
	17625.00

Item 6 e. Repair rollers and track on cat 1500.00 1500.00

Item 6 g.

Accounting 6 months at $150.00	900.00
Workmens Compensation	345.00
Employers Liability	2300.00
pau roll taxes	230.00
Contingencies	~~800.00~~ 500.00
	4275.00

Total $42950.00

2-14-56 lgm

RECEIVED
FEB 13 1956

February 1, 1956

Memorandum

To: Executive Officer, DMEA Field Team, Reg. III

From: Superintendent, Denver Experiment Station, Reg. III

Subject: Docket DMEA 4118 (Uranium), Sam Stone, Sparks and Stone Mine, San Miguel County, New Mexico

The subject application was received in this office on February 1, 1956.

A field examination will be made and suitable report prepared by an engineer from the Denver office.

JOHN F. SHAW

John F. Shaw

cc: W. M. Traver (2)
E.N. Harshman
J.F.Shaw
Sec. Op Com. (2)

RECEIVED
FEB 13 1956

February 1, 1956

Memorandum

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John F. Shaw

cc: W. N. Traver (2)
E.N. Harshman
J.F.Shaw
Sec. Op. Com (2)

Surname copy

700

Knouse
Ellis
Mathewson

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

FEB - 9 1956

Mr. Sam Stone
600 Washington Avenue
Las Vegas, New Mexico

Re: Docket No. DMEA-4118 (Uranium)
Sparks and Stone Mine
San Miguel County, New Mexico

Dear Mr. Stone:

This will acknowledge receipt of your letter of January 31, 1956, addressed to the Administrator, with attached sketches and copy of a lease from J. M. T. Sparks and Margaret Sparks to Sam Stone. The signed copy of your lease is returned herewith pursuant to your request.

Sincerely yours,

Ernest Wm. Ellis, Chief
Rare and Miscellaneous
Metals Division

Enclosure

FLKnouse/gla
2-8-56
cc to: Admr.'s Reading File
Docket
Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA
Code 700
Mr. Knouse
DMEA Field Team, Region III (2)

RCS.

2/7/56 gla

RECEIVED
FEB - 6 1956

600 Washington Ave
Las Vegas, NEW MEXICO
January 31, 1956

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

Dear Sir:

Reply is made to your letter of January 26: Re: Docket No. DMEA-4118 (Uranium), Sparks and Stone Mine, San Miguel County, New Mexico.

Your item number 1:

Sketch is attached hereto showing location of Lots 1 and 2. You will note that they are merely the closing subdivisions of the Section on the Township line on the north.

Your item number 2:

The attached sketch also shows the location of the Sparks and Stone Mining Claims numbers 1, 2 and 3. My original application was in error in stating that I am co-locator of these claims. Mr. Shearer who helped me prepare the application was under the mistaken impression that Mr Sparks and I were co-locators. I did not catch the error when I reviewed the application.

The facts are: I am the sole locator of these claims. They are legally staked and are recorded in the County Clerks office in Book 9, Mining Location notices, on pages 434, 435, and 436, respectively. I do have a private arrangement with Mr. Sparks, from whom I have leased the land where I have done most of my work, to the effect that I will give him a cut on any profit I may make on these claims. But I hold complete control of them, and he has no voice in any manner, legal or understood as to the management of them or any operation upon them. Claims Are ~~filed~~ Recorded in my name: Sam Stone, Locator, on November 6, 1955

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

RECEIVED
FEB - 3 1956

January 31, 1956

224 New Customhouse
Denver 2, Colorado

Memorandum

To: J. F. Shaw (With brochure)
E. N. Harshman

From: Executive Officer, DMEA Field Team, Region III

Subject: Docket DMEA 4118 (Uranium), Sam Stone, Sparks and Stone Mine, San Miguel County, New Mexico

Enclosed is the subject application. A field examination and suitable report are requested. Also enclosed is a copy of a letter from the Chairman of the Operating Committee with attached memoranda of review by members of the Uranium Commodity Committee. A copy of a letter to the applicant from the Administrator is also enclosed showing the additional information which has been requested from the applicant.

W. M. TRAVER,

W. M. Traver

Enclosures

HMC:ab

cc: Chair. Op. Comm. (2)
Docket 4118
Chron.

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

RECEIVED
FEB - 3 1956

January 31, 1956

224 New Customhouse
Denver 2, Colorado

Memorandum

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W. M. TRAVER,

W. M. Traver

Enclosures

HMC:ab

cc: Chair. Op. Comm. (2)
Docket 4118
Chron.

Surname copy

700

F L Knouse
E L Selfridge
Johnson
Whitenday

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

JAN 26 1956

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

Re: Docket No. DMEA-4118 (Uranium)
San Stone
Sparks and Stone Mine
San Miguel County, New Mexico

Dear Mr. Traver:

The captioned application is referred to your office for a field examination and report on the proposed project. Certain information has been requested from the Applicant. However, you may desire to schedule the examination, based on information available to your office, prior to the receipt of this requested information.

Enclosed are copies of memoranda, dated January 13 and 18, 1956, from Mr. John E. Crawford, USBM, and Mr. N. E. Nelson, USGS, respectively, relating to the subject project.

If the Field Team recommends an exploration program as submitted or revised by the Applicant, the Operator should be requested to furnish a Consent to Lien signed by J. M. T. Sparks and Margaret Sparks. Also, if the three located claims referred to in the application are not fully owned by the Applicant, evidence of the Applicant's interest therein and Consents to Lien from the owners will be required.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (GCS)

FLKnouse/gla 1-23-56

cc to: Admr.'s Reading File
Operating Committee
Docket
Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA
Code 700
Mr. Knouse

Enclosures

APPROVED:

/s/ Robert W. Geehan (GCS)
Member, Bureau of Mines

Thor H. Kiilsgaard (GCS)
Member, Geological Survey

R.C.S.

Form MF - 103 Continuation Sheet No. 2

Sam Stone
600 Washington Ave
Las Vegas, N. M.

Item 4 c. This mine lies on the east face of an igneous intrusive uplift which forms the backbone of the Las Vegas Range of the Sangre de Cristo Mountains. Pegmatites predominate for a distance of 20 miles to the south and some 50 miles to the north. Formations are those commonly encountered in similar igneous intrusions. No defined fissures. Irregular contacts and variety in type and placement of gangue material. However, uranium ores have been found dispersed through all types of rock encounterd in the exploration pit, in highly salable percentages, as noted above. No limit has yet been found to the extent of the ore body of better than average value. More extensive exploration is urgent in order to determine the probable reserves so that adequate financing for a substantial mining operation may be justified.

Item 4 d. 4 miles of logging road to sawmill and ~~14~~ 19 miles from there to Las Vegas and Highway 85. Las Vegas is center for supplies. Residence area could be developed near mine.

Your item number 3:

(a) Only one mineralized exposure has been explored. That point is indicated on the sketch. Counter readings may be found in many other places over the claims and leased ~~xxxdx~~ land, indicating the probability of equal values over a wide area.

(b) An assay certificate on a sample from ~~xhxx~~ the above point was submitted to you with my application. You returned it to me so I am holding it here. On January 31, I delivered a load of 10½ tons of ore to the AEC Anaconda Copper Company station at Grants N. M. No return has ~~xxx~~ yet received, but should be ~~xk~~ coming soon. I understand that this load will be sampled and assayed in Denver.

(c) The only probing of significance was done at the point shown on the sketch and from which the ore was obtained that was trucked to Grants. Aside from that, prospecting has been done over the area with rocks turned over or loosened. Mcuh of this prospecting has ~~xexakzxx~~ discovered rock that give counter readings of as high as .70. There are six locations on the leased land where the geiger counter readings are very promising, and four such spots on the mining claims on government land.

(d) The proposed exploration work as proposed on my application was intended to be performed at the point where all exploration work has been done to date. That is the point indicated on the sketch

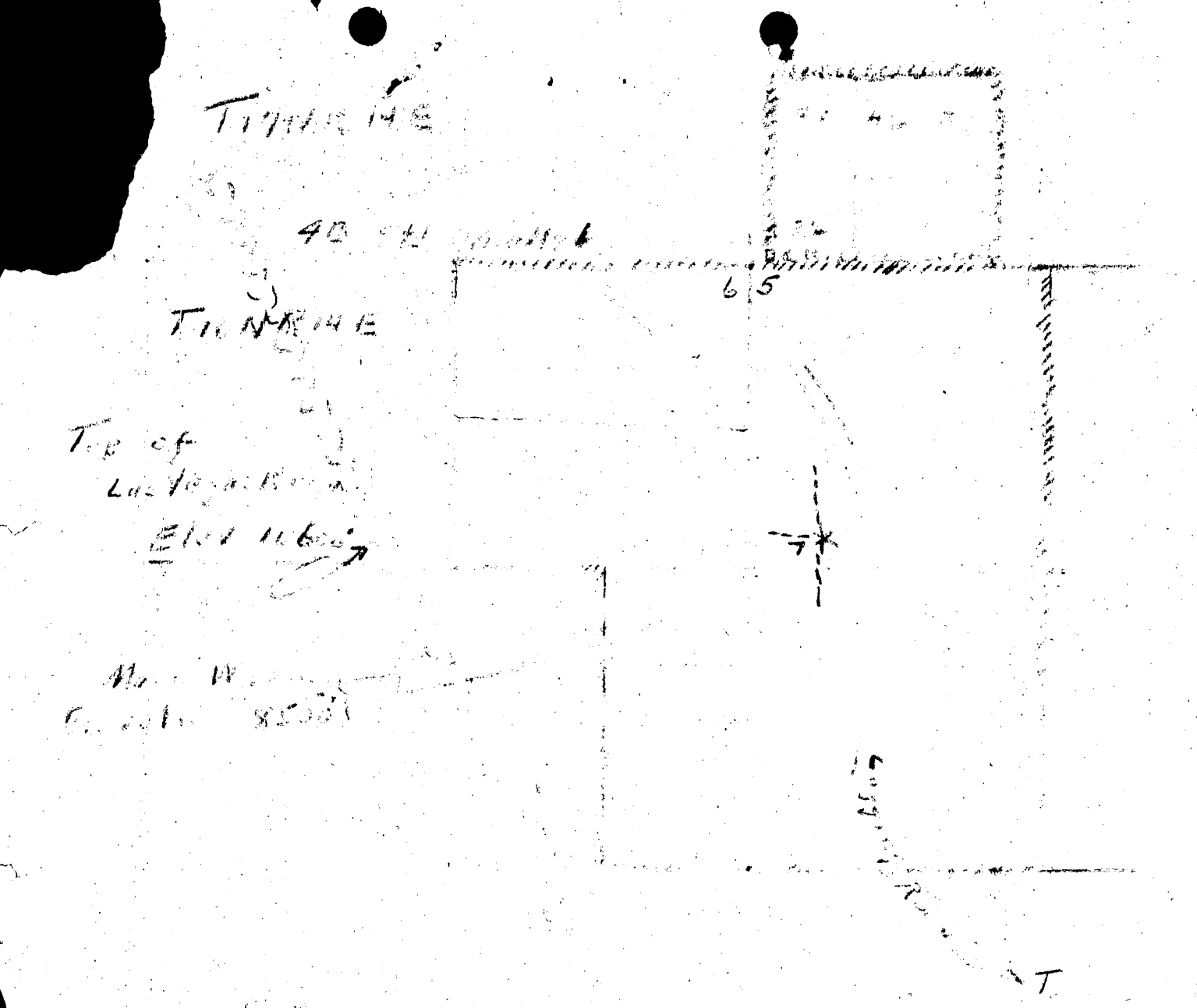
Mr. Jim Allison, geologist from the AEC office in Albuquerque, visited this area January 24. He picked up some samples for asaay, and seemed to highly pleased and enthusiastic about what he saw. He promised to le me hear from him again within ten or twelve days.

Many thanks for your interest in this and the way you are carrying in on with a minimum of delay. I hope this letter will supply all the information requested in your letter.

Very sincerely yours,

Sam Stone

Sam Stone
600 Washington Ave
Las Vegas
New Mexico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Docket copy

700

F. Kuesner
Ellis
Guhan
Kilsgaard
Selfridge
Fitzsimon

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

Mr. Sam Stone
600 Washington Avenue
Las Vegas, New Mexico

JAN 26 1956

Re: Docket No. DMEA-4118 (Uranium)
Sparks and Stone Mine
San Miguel County, New Mexico

Dear Mr. Stone:

The application for assistance in exploring the subject property in San Miguel County, New Mexico, 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.

In the meantime, so the processing of your application will not be delayed, please clarify the following:

1. Your lease and application lists Lots 1 and 2, but the locations of these lots are not shown on the accompanying sketch. Please furnish a sketch which shows the relative location of these lots to the rest of the property.

2. Your application states under Item 3(a), "Also Sparks and Stone Mining locations on north," and under Item 3(c) that you are "Co-locator on government land." The sketch accompanying the application shows Claims Nos. 1, 2 and 3 located on the northeast side of the leased property. It is not clear if the claims are recorded as Nos. 1, 2 and 3; nor if you are the owner of these claims. Therefore, please furnish, for each claim, the recorded name, date recorded, and book and page number of the recording. If you are the co-owner of these claims, we will require evidence that you control them by furnishing us a copy of a lease, option to purchase, assignment, or other instrument.

R.G.H.

3. Show on a map or sketch drawn to scale; (a) the location of the mineralized exposures (described in your application); (b) location of any samples taken from the mineralized exposures, with their chemical analyses; (c) the probing results obtained at each location; and (d) the location of the proposed exploration work, all in relation to the property boundaries.

Please send one copy of this information to Mr. W. H. Traver at the address shown above, and one copy of the lease or other agreement needed to clarify the question raised concerning your interest in the three claims, with three copies of the other information to this Office.

With regard to your request to return the signed copy of the private land lease and the original assay certificate submitted with the application, we will require the lease in order to process the application. However, after the processing is completed the lease can be returned. In the meantime, if you could send a copy of the lease we will return the signed copy. The assay certificate is returned as requested.

Sincerely yours,

R. D. Mitchell (for)

Administrator

Enclosure

FLKnouse/gla/izm
1-24-56
cc to: Docket
Code 700
Mr. Knouse
Admr.'s Reading File
DMEA Field Team, Region III (2)
Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA

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

FILE COPY
Surname:

Mr. Sam Stone
600 Washington Avenue
Las Vegas, New Mexico

Re: Docket No. DMEA-4118 (Uranium)
Sparks and Stone Mine
San Miguel County, New Mexico

Dear Mr. Stone:

The application for assistance in exploring the subject property in San Miguel County, New Mexico, 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.

In the meantime, so the processing of your application will not be delayed, please clarify the following:

1. Your lease and application lists Lots 1 and 2, but the locations of these lots are not shown on the accompanying sketch. Please furnish a sketch which shows the relative location of these lots to the rest of the property.

2. Your application states under Item 3(a) "Also Sparks and Stone locations on North" and under Item 3(c) that you are "co-locator on Government land." The sketch accompanying the application shows Claims Nos. 1, 2, and 3 located on the northeast side of the leased property. It is not clear if the claims are recorded as Nos. 1, 2 and 3; nor if you are the owner of these claims. Therefore, please furnish, for each claim, the recorded name, date recorded, and book and page number of the recording. If you are the co-owner of these claims, we will require evidence that you control them, by furnishing us a copy of a lease, option to purchase, assignment, or some other instrument.

Surname copy

F. L. Kavanaugh 700

Noted: - Ellis Gerhan

Noted: Kilgaard

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

Mr. Sam Stone
600 Washington Avenue
Las Vegas, New Mexico

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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.

In the meantime, so the processing of your application will not be delayed, please furnish the following:

1. Reference is made in (a) of your lease and application, to Lots 1 and 2, but their location is not shown on the accompanying sketch, and (b) in your application and sketch to three mining claim locations, but the name of each claim, date they were recorded, book and page numbers of each recording, and the locator's name is not furnished. We will require a sketch which shows the location of lots 1 and 2, and the names of the mining claims, and the additional information referred to above concerning the mining claims.

If you do not own the entire interest in the three claims, we will require evidence that you control them for the purpose of ~~our~~ exploration project. If you are the co-locator, a copy of a lease or other instrument showing your control from the other party or parties will be required.

2. Please show, either on the above sketch or a larger sketch drawn to scale, the location of the mineralized exposures (described in your application), and available chemical analyses of samples taken from these exposures; also show results and locations of radiometric survey or probing, and the proposed exploration program in relation to property boundaries.

Please send one copy of this information to Mr. W. M. Traver at the address shown above, and one copy of the lease or other agreement covering the three claims and three copies of the other information to this office.

With regard to your request to return the signed copy of the private land lease and the original assay certificate submitted with the application, we will require these in order to continue processing the application. However, if you could send us a copy of each document, we will return the original papers.

Sincerely yours,

Administrator

FLKnouse/gla
1-23-56
cc to: Admr.'s Reading File
Docket
Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA
Code 700
Mr. Knouse
DMEA Field Team, Region III (2)

1-19-56 [illegible]

IN REPLY REFER TO:

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

RECEIVED
JAN 19 1956

January 18, 1956

Re: DMEA 4118
Sam Stone
Sparks and Stone Mine
San Miguel Co., New Mexico
$42,950.00 - Uranium

Memorandum

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

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

Subject: Review of application.

The applicant requests assistance in exploring a body of uranium ore from which 15 tons plus has been mined. The applicant mentions other points on the property showing uranium but no data are given concerning them, except that "pegmatites predominate" and the "uranium ore is dispersed through all types of rock encountered in the exploration pit" and "no limit has yet been found to the extent of the ore body of better than average value."

The proposed work consists of a shaft 300 feet deep and from it laterals are to be driven 300 feet south, west, and north.

In the absence of information, it is not possible to visualize the showing and appraise the application. Only 15 tons of material of unknown grade has been taken from a showing which, by inference, extends downward 300 feet and 300 feet north, south and west. Probably the importance of the showing is overrated, but an examination may be warranted if the discovery is as recent as implied.

Referral to the Field Team is recommended.

N. E. Nelson

N. E. Nelson

IN REPLY REFER TO:

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

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Referral to the Field Team is recommended.

N. E. Nelson

N. E. Nelson

NENelson:iml
G-1/18/56
cc: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
J. E. Crawford, 3641
J. O. Hosted, 3210

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

1-16-56 dgm

January 13, 1956

Memorandum

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

RECEIVED
JAN 13 1956

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

Subject: Application for assistance, Sam Stone, Sparks and Stone Mine, DMEA Docket 4118, San Miguel County, New Mexico

I have reviewed the attached application of Sam Stone, DMEA Docket 4118, dated January 9, 1956, and received in this office January 11. I have also discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

The applicant has requested Federal participation in a uranium exploration program on 575.74 acres of land in San Miguel County, New Mexico. The project includes a shaft, 300 feet in depth, and 3 laterals running north, west, and south respectively for a distance of 300 feet each. The total estimated cost is $42,950.00.

Some ore averaging .20 percent U_3O_8 has been shipped by the applicant from this property which lies on the east face of an igneous intrusive uplift that forms the backbone of the Las Vegas Range of the Sangre de Cristo Mountains.

Inasmuch as the applicant has performed the basic prospecting work and has found ore-grade material, a field examination is warranted.

John E. Crawford

John E. Crawford

Attachment

January 10, 1956
Subject: DMEA-4118
Re: Exploration Assistance
Sparks & Stone Mine

Mr. Sam Stone
600 Washington Avenue
Las Vegas, New Mexico

My dear Mr. Stone:

The receipt of your application dated (undated) for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-4118 and referred to the Rare & Misc. 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

January 10, 1956

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 - 4118 Sam Stone

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

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

January 5, 1956

224 New Customhouse
Denver 2, Colorado

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Application for DMEA Aid (Uranium), Sam Stone, Sparks and Stone Mine, San Miguel County, New Mexico

Enclosed are three copies of the subject application in the amount of $42,950.00. The one copy of the lease and the one copy of the assay certificate are also attached together with the applicant's note that the lease and assay certificate be returned to him.

W. M. Traver

Enclosures

RECEIVED
JAN 9 1956

Please return assay slip and copy of lease if you do not need it for D. M. E. A. Files

Yours truly
Sam Stone

copy substituted
2/8/56

RECEIVED
JAN 3 1950

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

January 5, 1956

224 New Customhouse
Denver 2, Colorado

Memorandum

To: Secretary to the Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Application for DMEA Aid (Uranium), Sam Stone, Sparks and Stone Mine, San Miguel County, New Mexico

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W. M. Traver

Enclosures

RECEIVED
JAN 9 1956

DMEA
Date Rec'd.
JAN 4 1956
BUREAU OF MINES
Denver, Colorado

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

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

Not to be filled in by applicant

Docket No. DMEA-4118
Metal or Mineral Uranium
Date Received 1-9-56
Estimated Cost $42,950.00
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: Sam Stone, 600 Washington Ave., Las Vegas, New Mexico

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

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

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

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

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract Lots 1 and 2, SW NE and SE SW, Section 6, and the West half Section 5, Twp. 16 N., Range 14 East, N.M.P., 575.74 acres more or less held under mining lease from J. T. Sparks, owner. Also Sparks and Stone Mining locations on north.

(*b*) State any mine name by which the property is known. Sparks and Stone Mine

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise Lessee on privately owned land. Co-locator on government land

(*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. Attached.

(*e*) If you own the land, describe any liens or encumbrances on it None

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. Pages 434, 435, and 436, Book 9, San Miguel County.

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

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

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

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

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

RECEIVED
JAN 9 1956

16—66551-1

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

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

(*c*) The work will start within ten days and be completed within 6 months from the date of an exploration project contract.

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

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

☐ Money ☒ Use of equipment owned by you ☐ Other X Labor

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 _____, 195__

_____
(Applicant)

By _____

_____

_____

Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

U. S. GOVERNMENT PRINTING OFFICE 16—66551-1

Form MF-103 Continuation Sheet No. 1

Sam Stone
600 Washington Ave
Las Vegas, N. M.

Item 4 a. Small scale exploration operations have been under way since about November 1, this year (1955). About 15 tons of salable ore have been stockpiled. I hold 100% interest in operations subject to 12½% royalty on production due lessor.

Fair to good dirt road from Las Vegas to sawmill 12 miles distant. Remaining 4 miles to operation is over logging road over which sawlogs are being hauled to sawmill.

Item 4 b. Exploration work has yielded 15 tons of salable uranium ore as byproduct which has been stockpiled with exception of one small shipment to AEC depot at Grants, New Mexico. Load averaged about ~~.02-~~ .20 grade, but picked specimens from load tested 2%. Greater values and quantities now being recovered as work progresses. Work is concentrated at one point on leased land. Three other locations on leased land have been probed just enough to expose ore carrying ~~xxxxxx~~ ~~or of~~ not less than .20 values. Three locations on claims on government land have also revealed ore of equal value, but no further exploration has been attempted at points other than the one operation mentioned above.

Form MF - 103 Continuation Sheet No. 2

Sam Stone
600 Washington Ave
Las Vegas, N. M.

Item 4 c. This mine lies on the east face of an igneous intrusive uplift which forms the backbone of the Las Vegas Range of the Sangre de Cristo Mountains. Pegmatites predominate for a distance of 20 miles to the south and some 50 miles to the north. Formations are those commonly encountered in similar igneous intrusions. No defined fissures. Irregular contacts and variety in type and placement of gangue material. However, uranium ores have been found dispersed through all types of rock encounterd in the exploration pit, in highly salable percentages, as noted above. No limit has yet been found to the extent of the ore body of better than average value. More extensive exploration is urgent in order to determine the probable reserves so that adecuate financing for a substantial mining operation may be justified.

Item 4 d. 4 miles of logging road to sawmill and ~~14~~ 19 miles from there to Las Vegas and Highway 85. Las Vegas is center for supplies. Residence area could be developed near mine.

Form MF - 103 Continuation Sheet No. 3

Sam Stone
600 Washington Ave
Las Vegas, N. M.

Item 4 e. Manpower is plentiful locally, and also water. Materials, supplies amd equipment are available in Las Vegas. REA power line passes within 2 miles airline from claim. Diesel powered stationary engines available if needed.

~~Item 5 d. Applicant has had many years experience in operation of sawmills and logging operations~~

Item 5 b. Proposed work would be designed to determine limits of ore body, Shaft should go down 300 feet and laterals run south, west, and north for distance of 300 feet each. If ore body is continuous through this work, it would be of sufficient size to warrant installation of mining equipment and production operations.

Exploration of other exposures of ore values would be handled as separate exploration projects.

Item 5 d. Applicant has had many years experience with sawmills and logging operations. Good background in handing heavy equipment and supervision of crews. Expert mechanic. Technical mining consultation will be needed to balance lack of wide mining experience.

Form MF - 103 Continuation Sheet No. 4

Sam Stone
660 Washington Ave
Las Vegas New Mexico

Item 6 a. No independent contracts.

Item 6 b. 2

Common labor	6 men	$1.25 per hour	6 months	$9,000.00	
Foreman	1 man	$2.50 "	" " "	3,000.00	
Technical consultant as needed				2,500.00	$14500.00

Item 6 c.

2500 gallons diesel fuel	350.00	
3500 " gasoline	900.00	
75 cases giant powder	1200.00	
2000 electric blasting caps	600.00	
Drill points 2400	1500.00	
Unclassified	500.00	5050.00

Item 6 d.

Rent Cat and Dozer $8.00 ~~day~~ hour, 6 months	8000.00	
" Truck transport men supplies etc 150 days at $12.50	1875.00	
" 6 x 6 truck with dump body to remove waste and stockpile ore 150 days at $20.	3000.00	
Buy Compressor	3000.00	
Air hammer and hose	250.00	
Rent loader 6 months at $250	1500.00	17625.00

Item 6 e.

Repair rollers and track on cat	1500.00	1500.00

Item 6 g.

Accounting 6 months at $150.00	900.00	
Workmens Compensation	345.00	
Employers Liability	2300.00	
pau roll taxes	230.00	
Contingencies	~~800.00~~ 500.00	4275.00
Total		$42950.00

Sam Stone
600 Washington Ave
Las Vegas, N. M.

Item 7 b. I would furnish my personally owned Cat and dozer, two trucks and compressor and air hammer at rental prices shown. These prices include labor costs for operators. Such operators have not been listed under Item 6 b.

Special notice. Time is of the essence in this deal. I must, by the terms of my lease, produce enough by December 1956 to pay owner a royalty amounting to $2,500. This means that to have a margin of safety exploration work should be completed by mid summer or early Fall.

Perhaps I could make it without financial assistance but at bst it would the hard way and probably be difficult. I shall, however, keep on to the best of my ability and limited resources while waiting for this application to be processed. I am ready and eager to cooperate with you in any way that will make it easier for you and expedite the deal. My plan of exploration may not be approved by a mining engineer, and technical consultation may point out a better approach before DMEA funds are spent. Many thanks in advance for your very serious and early attention to the application

CHAPMAN and WOOD
Mining Engineers and Geologists
536 Jefferson St., NE
Phone 6-1675 P.O. Box 8302
Albuquerque, New Mexico

DMEA
Date Rec'd
JAN 4 1956
Bureau of Mines
Denver, Colorado

LABORATORY DIVISION ASSAY CERTIFICATE

No. 647

Date _____

Submitted by Mr. Sam Stone

Address 600 Washington Las Vegas, New Mexico

Description of Sample	eU_3O_8%	Chem. U_3O_8%
1671 - As submitted	0.260	0.314

Chemist /d/ D. H, Reynolds

D. H. Reynolds

Charges _____

copy

RECEIVED
FEB - 6 1956

URANIUM LEASE

THIS AGREEMENT, Made this 6th day of December, A. D. 1955, by and between J. M. T. SPARKS and MARGARET SPARKS, his wife, parties of the first part, hereinafter called "lessors", and SAM STONE, party of the second part, hereinafter termed "lessee", WITNESSETH:

1. Grant. Lessors, for and in consideration of the sum of One Dollar ($1.00) and other good and valuable consideration, to them in hand paid, receipt of which is hereby acknowledged, and the further consideration of the covenants and agreements herein contained to be performed by the parties, have this day granted and leased, and hereby grant, lease and rent, unto the lessee, for the sole purpose of prospecting for, mining and producing minerals and mineral-bearing ores of all types and character, principally uranium, Vanadium, Carnotite, Pitchblends, Uranium Salts and all other radioactive materials, or sources thereof, and all other minerals or mineral-bearing ores, but excluding therefrom all oil and gas situate in or under the following described real estate, situate in the County of San Miguel, State of New Mexico, to-wit:

> Lots 1 and 2, $S\frac{1}{2}NE\frac{1}{4}$ and the $E\frac{1}{2}SE\frac{1}{4}$ of Section 6; and the $W\frac{1}{2}$ of Section 5; all in Township 16 North, Range 14 East, N.M.P.M.

2. Term. This lease shall be and remain in full force for a term of one year from the date hereof and so long thereafter as minerals and mineral-bearing ores in commercial quantities are produced and saved from the property. Lessee shall enter upon said premises and commence mining or other development operations within ninety days from the date hereof, and lessee shall continuously employ a sufficient number of men and equipment to properly work and operate said premises, and shall cause work to progress in a continuous, workmanlike manner.

3. Royalty. Lessee shall deliver to the credit of the lessor as royalty twelve and one-half ($12\frac{1}{2}\%$) per cent of the gross value of all ores shipped or sold from any part of the leased premises. Gross value means the value of the F.O.B. the ore-buying station, but includes all bonuses or premiums, whether paid by the government or any ore buyer for the location, mining or selling of ore from the leased premises. Gross value does not include haulage or develop-

signed copy returned to applicant 2/8/56

ment allowances, but lessee must use any development allowances for the development of the leased premises. The gross value with reference to ores other than radioactive ores purchased by the United States government shall mean the value of the ore F.O.B. the nearest rail head.

Regardless of whether or not minerals or mineral-bearing ores are being produced or sold from the premises, lessee shall pay a minimum royalty of $2500.00 for the first year and a minimum royalty of $5000.00 each year thereafter. This shall not be construed as relieving lessee of any obligation of exploration, development and production of minerals or mineral-bearing ores from the premises, and shall not be construed as in any manner extending any term of this lease without compliance with the specific provisions in regard thereto.

4. Interest. Lessors do not warrant title to the above described premises. In the event the lessors own a less interest in the leased premises than the entire and undivided mineral rights therein, then the minerals and royalties herein provided for shall be paid the said lessors only in the proportion which their interest bears to the whole and undivided mineral rights of the tract or tracts above described. In the event lessors own a less interest in the leased premises, than the entire or undivided mineral rights therein and rentals or royalties have been paid to which under this provision they are not entitled, then and in that event, lessors shall reimburse lessee to such extent, or, at the option of lessee, such reimbursement shall be made by lessee from future royalty or rental payments.

5. Use of Premises. Lessee shall have the right of ingress and egress in and upon said premises and the right to use, free of cost, any water found on the premises for its operation thereon. When required by lessors, lessee shall pay for damages caused by mining operations to growing crops, including grass, or to cattle and other livestock on said lands, caused by the negligence of lessee, his agents, employees, independent contractors and visitors. Lessee shall have the right at any time during or within six months after the expiration of this lease, or any renewal thereof, to remove all machinery, fixtures, houses, buildings or other structures placed on said premises by lessee, and,

upon the demand of lessors, shall remove such items as are designated by lessors.

In connection with the use of the surface, lessee shall not use or construct more roadways or passageways than are reasonably necessary for access to mining and development operations placed in such manner as to cause the least damage, considering the mining operations being performed, and all places of ingress and egress to the premises and through any other fences of lessors, lessee shall provide and furnish adequate cattleguards.

Lessee shall, upon demand of lessors, adequately fence or otherwise protect any shafts, holes or other operations or machinery which might reasonably be considered dangerous to livestock and persons.

6. Assignability. If the estate of either party hereto is assigned and the privilege of assigning in whole or in part is expressly allowed, the covenants herein shall extend to the heirs, executors, administrators, successors and assigns of the parties hereto, but no change of ownership in the land or in the rentals or royalties shall be binding on the lessee until after notice to the lessee shall have been furnished with the written transfer or assignment or a certified copy thereof.

7. Partial Defaults. It is hereby agreed that in the event this lease shall be assigned as to a part or as to parts of the above described lands, and the holder or owner of any such part or parts shall fail or make default in the payment of the proportionate part of the rent due from him or them, such default shall not operate or defeat or affect this lease insofar as it covers a part or parts of said land upon which the said lessee or any assignee hereof shall make due payments of said rentals and royalties.

8. Surrender. Lessee may, at any time, surrender this lease by placing a release thereof of record in the proper county and giving notice to the lessor of such action. In the event of such surrender, lessee shall be obligated to pay only the royalties on ore shipped or sold from the leased premises during the year in which such lease is surrendered.

9. Work Stoppage. If, during the term of this lease, production on said leased premises shall cease from any cause other than acts of God, once the same

has been commenced, this lease shall not terminate during the primary term thereof, provided mining operations shall be recommenced within ninety days thereafter. In the event such stoppage is caused by acts of God, lessee shall use all reasonable diligence in removing the cause of such stoppage and shall recommence work within thirty days after removal thereof or a forfeiture shall result.

10. All mining operations, development, exploration, shipment and sale of ores shall be carried on by lessee in a reasonable, workmanlike and efficient manner and shall be designed to produce the greatest amount of revenue to the parties hereto consistent with good mining operations.

11. Use of Surface. Lessee shall not have the right to use the surface of said premises other than for mining operations, mining exploratory work, ingress and egress, the use of water and the placing of necessary structures in connection therewith on said land.

12. Non-liability for Liens. Lessee shall pay as due all claims for work done, services rendered or material furnished to the leased premises, and shall hold lessor harmless from any liability arising out of any operations under the lease. Lessee shall defend all suits or claims at his own expense, and shall keep the leased premises free from any liens. Lessee shall post and keep posted in conspicuous places, according to the laws of New Mexico, at or near all parts of the premises where operations on the lease are in process, notices of non-liability, reciting in substance the premises are leased and that neither lessor nor the premises may be held liable for any claims of any kind arising out of lessee's operations, in the form and in the manner provided by the laws of the State of New Mexico.

13. Accidents or other Liability. Lessee assumes full responsibility in case of accident or injury to lessee, his agents or any person or persons employed on the leased premises, or any other person or persons upon said leased premises, whether with permission or otherwise, except persons thereon with the permission of lessor or the lessors themselves, and agrees to hold lessors harmless from any suits for injury or accident arising therefrom. Lessee shall maintain at all times workmen's compensation insurance pursuant to the laws of

the State of New Mexico, and shall comply in all respects with any state or federal laws pertaining to the employment of persons in mining operations. Lessee shall furnish to lessor a monthly statement, endorsed by the insurance carrier, that compensation coverage is in force.

14. Statutory Requirements. Lessee assumes full responsibility for the operation of any mines or mining conducted on said premises and shall comply with respect to any federal law or of the State of New Mexico, and agrees to hold lessor harmless from any suits arising out of violation thereof.

All express or implied covenants of this lease shall be subject to all federal and state laws, executive orders, rules or regulations, and this lease shall not be terminated in whole or in part, nor lessee held liable for damages for failure to comply therewith, if compliance is prevented by or if such failure is the result of any such law, order, rule or regulation.

15. Actions Arising as the Result of Operations. Lessee assumes full responsibility for the mining, exploratory and other operations conducted by lessee, however the same may occur, and agrees to defend any suits against lessors in which it is claimed that injury of any kind or nature has been suffered or incurred as the result of such operations, and shall save lessors harmless from any such suits or actions.

16. Notice. All notices, royalties and other matters required to be given to lessor shall be addressed to him in a properly stamped envelope at 519 Sixth Street, Las Vegas, New Mexico, and to lessee at 600 Washington Street, Las Vegas, New Mexico. Until the parties hereto are notified of any change in the above addresses, the same shall be considered sufficient notice for all purposes, upon deposit in the United States mail with postage sufficient to insure delivery, and registered or certified, with a return receipt provided. Any change of address as above set forth, upon being given to the other party, shall be considered as modified to that extent.

17. Defaults. If the lessee violates any provision or provisions of this lease, or fails to perform any covenants herein contained, lessor may, at his option, forfeit this lease by giving notice to lessee of his election to forfeit the lease and by specifying in such notice the matter in which lessee is in

default; provided, however, such forfeiture shall be inoperative if, within ninety days from the effective date of such notice, lessee remedies the matters in default specified by lessor. Provided, further, that in the event lessors file a copy of such notice in the office of the County Clerk of San Miguel County, New Mexico, and lessee shall not within ninety days thereafter file an instrument denying the forfeiture or stating that the matter therein complained of has been remedied, then and in that event this lease shall be considered as forfeited as to third parties relying thereon, provided said notice so filed shall contain in connection therewith oath of lessors that they have mailed a copy of such notice to lessee at the address specified herein.

18. Taxes. All production and mining operation taxes levied upon the minerals mined and sold from the leased premises and all other taxes levied against the leased premises, as a result of said mining operations, shall be paid one-eighth by lessor and seven-eighths by lessee; provided, however, that lessee shall pay all taxes levied against all improvements, mining equipment, machinery, supplies or other facilities placed upon and used in connection with the mining of said premises.

19. Payments. Lessee shall arrange, if possible, to have ore purchasers make all payments of royalties directly to lessor and to have all payments accompanied by a copy of the settlement sheet to which they apply. In the event such payments are made to lessee, then and in that event lessee shall make payments of royalties, together with a copy of the appropriate settlement sheet, to lessor within ten days after payment from the ore purchaser.

20. Records and Accounts. Lessee shall keep accurate records and accounts of all operations under this lease and shall permit lessor, or his agents, to inspect and make copies of such portions thereof as shall be necessary to determine the payments due lessor hereunder at all reasonable times. These records shall include, but not be limited to, copies of all maps, surveys, exploratory drilling lots, geological or assay reports and other operational data prepared from or in connection with the leased premises. Lessee agrees to fulfil reasonable requests from lessor for reports from these records.

21. Access of Lessor. Lessor or his agents may at all reasonable times, but at lessor's sole risk, enter upon and into the leased premises for inspection, or to conduct survey or sampling operations, provided, however, that such activities shall not unreasonably interfere with the operations of lessee.

22. Termination of Lease. Upon the termination of this lease by expiration, surrender or otherwise, lessee shall immediately restore the premises in good order and condition to lessor. Lessee shall keep all fixtures, improvements and facilities or other assets of any kind in good repair at all times.

23. It is understood and agreed between the parties hereto that this lease shall be binding upon the parties hereto, their heirs, executors, administrators, successors and assigns.

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

_____

_____
Lessors.

_____
Lessee.

STATE OF NEW MEXICO)
)SS
COUNTY OF SAN MIGUEL)

On this _____ day of December, 1955, before me personally appeared J. M. T. Sparks and Margaret Sparks, his wife, to me known to be the persons described in and who executed the foregoing instrument, and acknowledged that they executed the same as their free act and deed.

WITNESS my hand and official seal the day and year last above written.

_____
Notary Public.

My Commission Expires:_____

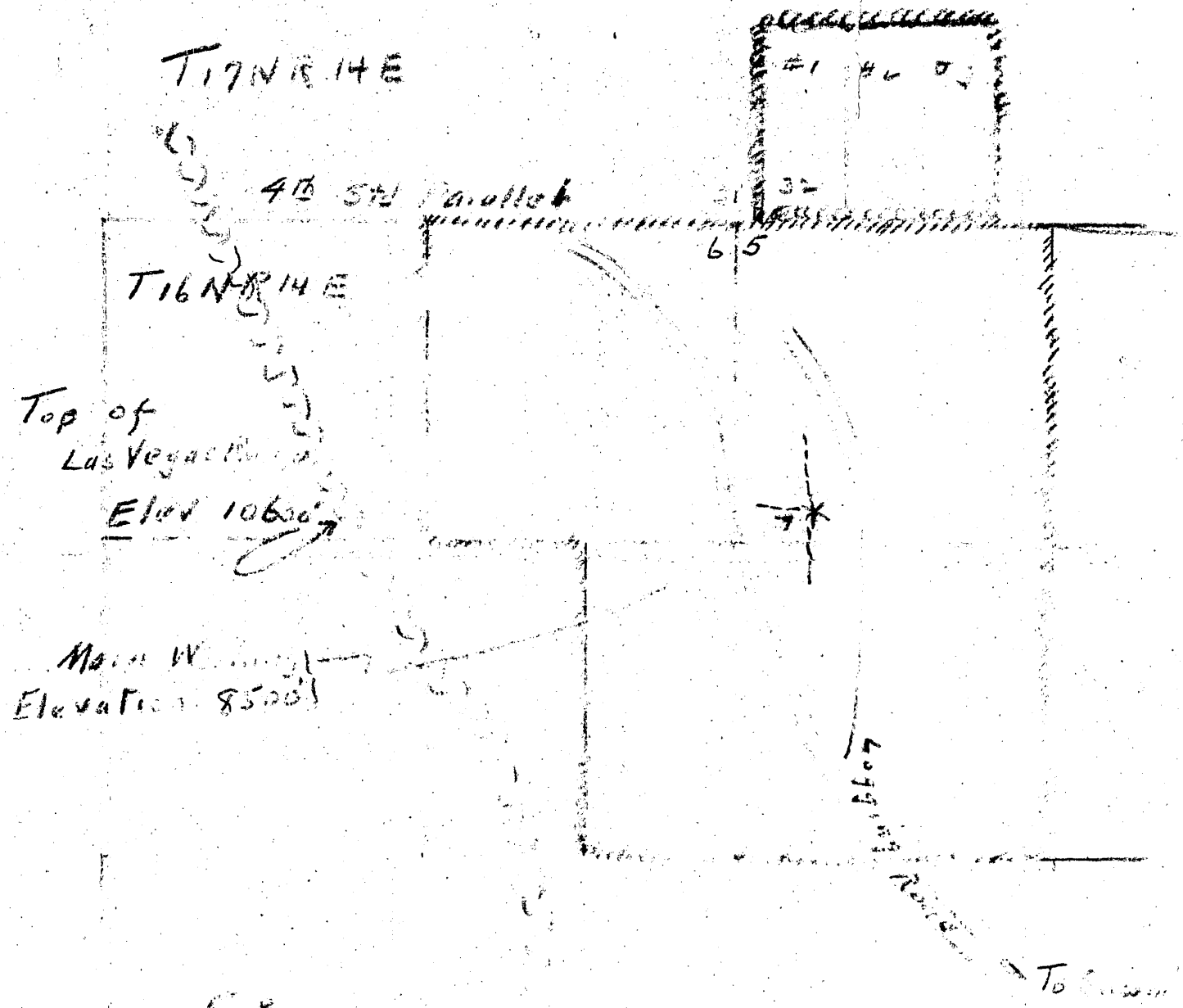
STATE OF NEW MEXICO)
)SS
COUNTY OF SAN MIGUEL)

On this _____ day of December, 1955, before me personally appeared Sam Stone, to me known to be the person described in and who executed the foregoing instrument, and acknowledged that he executed the same as his free act and deed.

WITNESS my hand and official seal the day and year last above written.

_____
Notary Public.

My Commission Expires:_____



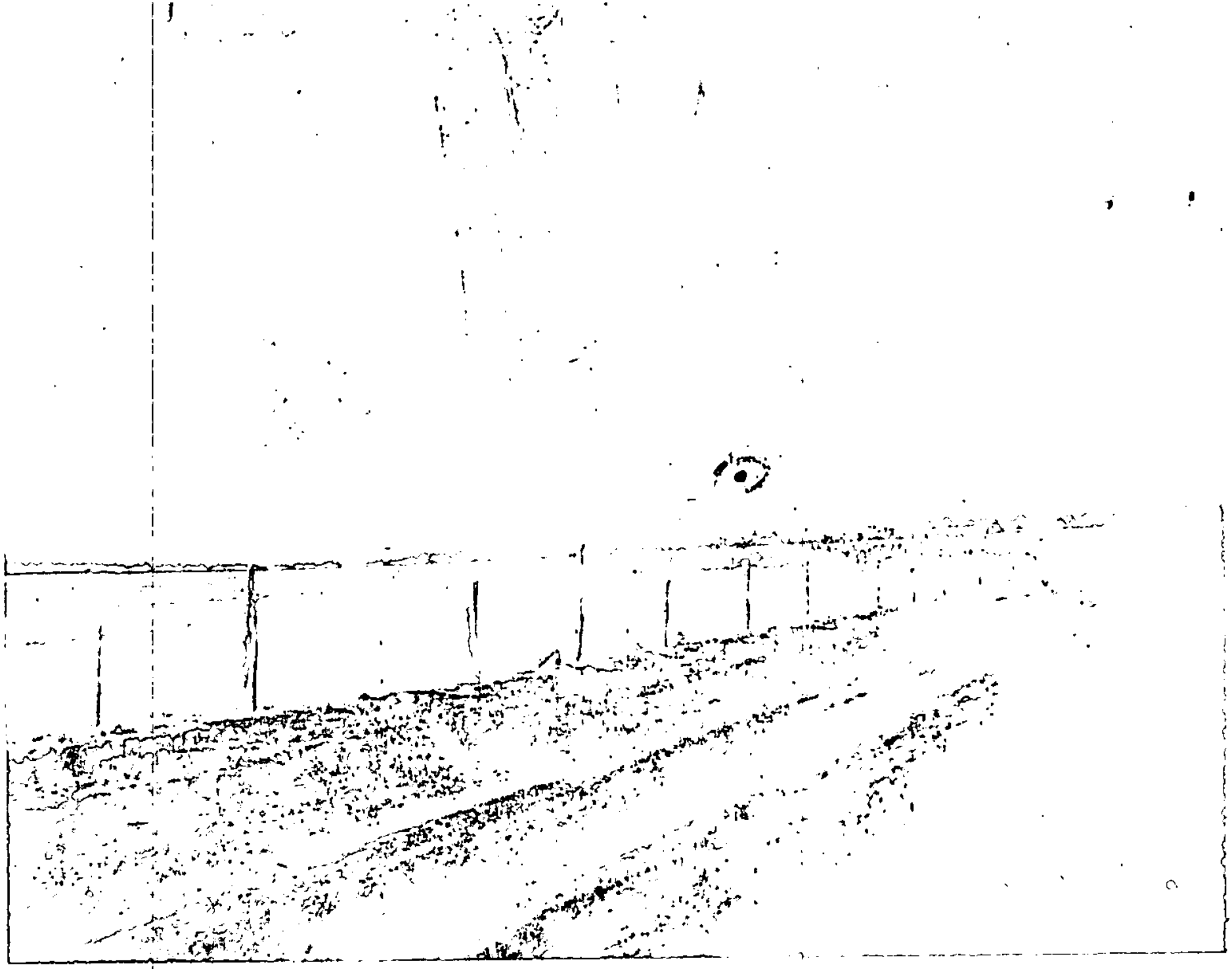
Item 5 B 4c. Scale 4" = 1 mile

Legend: Boundary of Leased land
Mining location
on Govt Land
Proposed Shaft Location

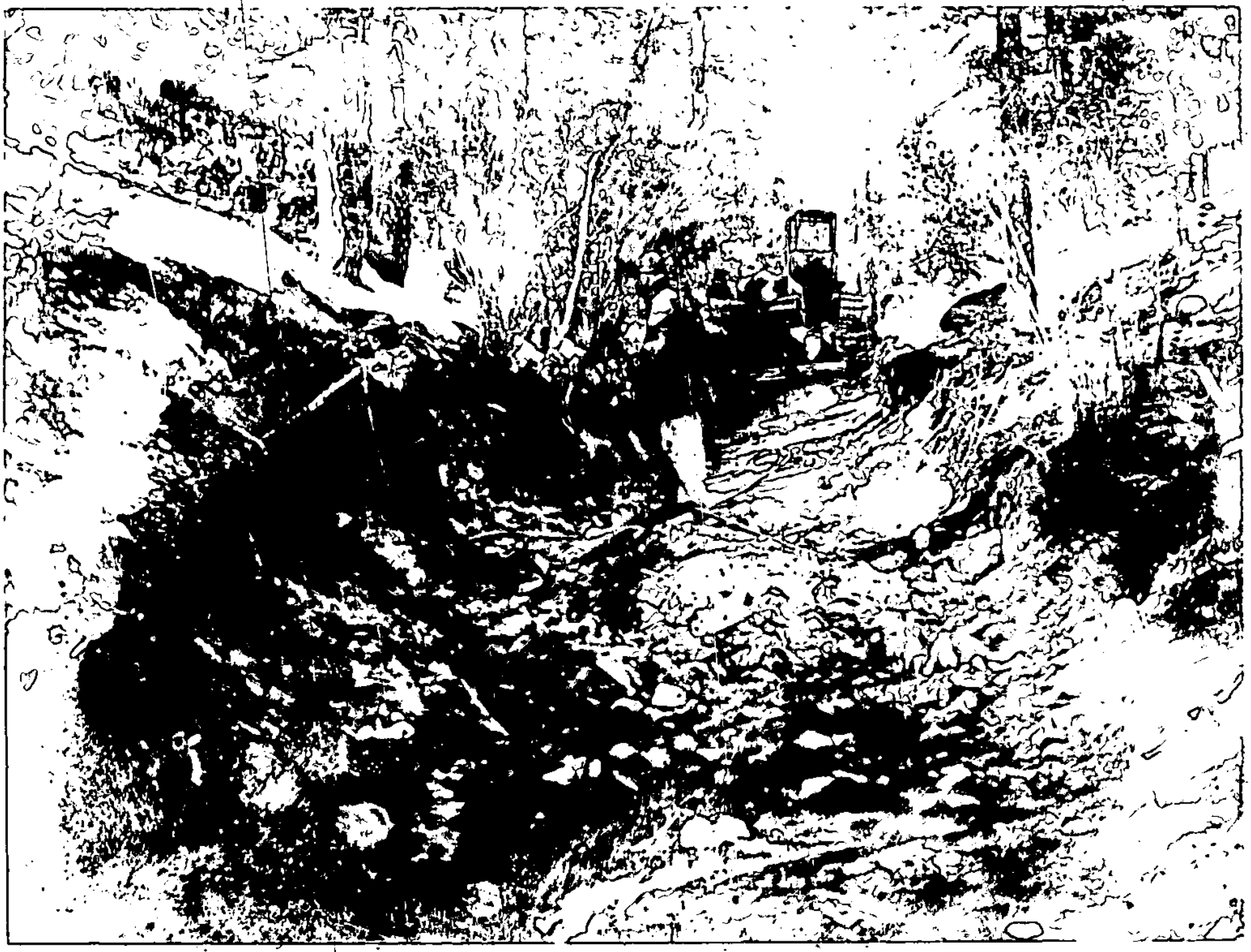
3 Locations [illegible] 1500' x 600' [illegible]

575.14 acres Mining Lease from Owners of Private Land

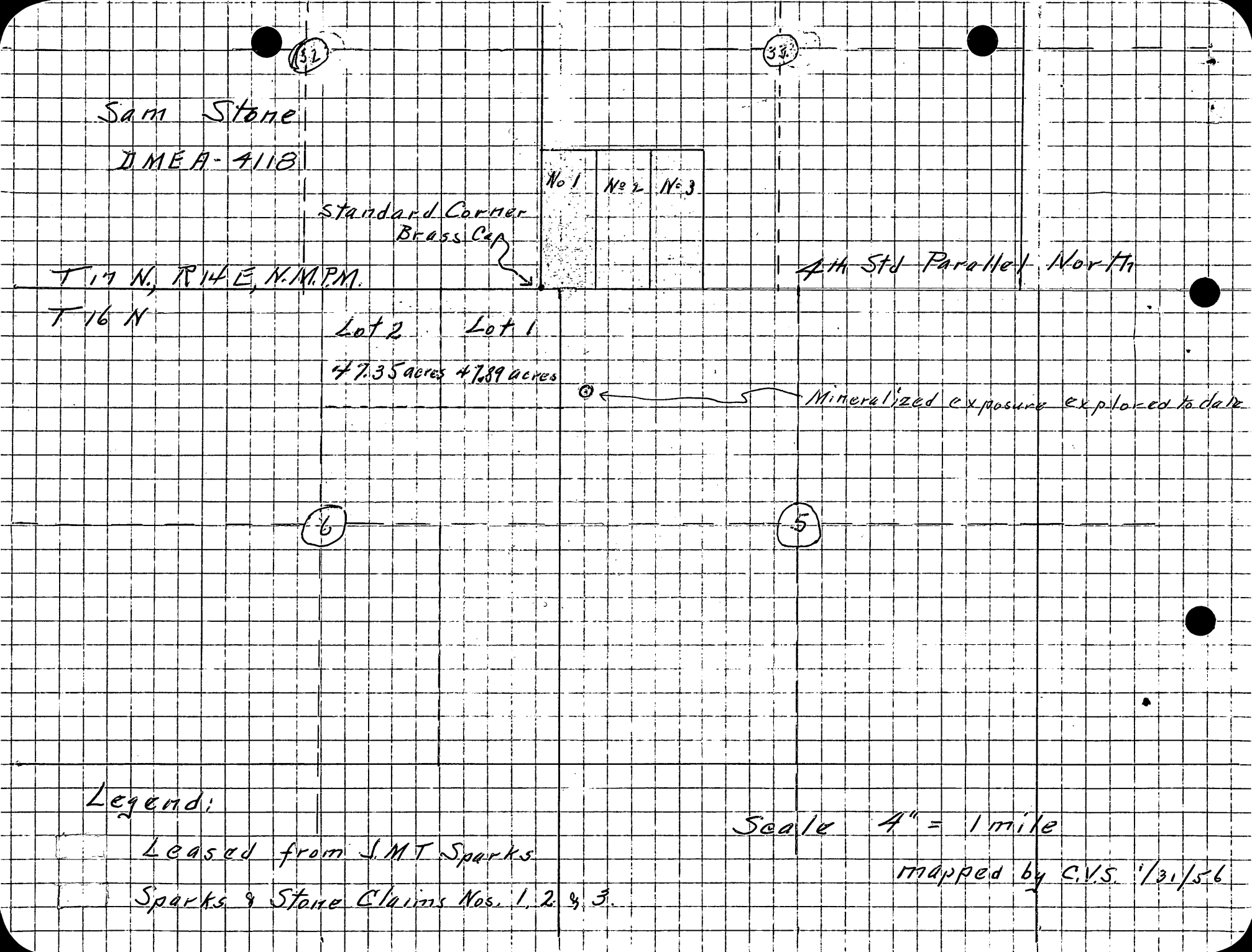
Applicant Sam Stone holding Air Hammer. His Son Ed standing by. Air Compressor and skidding track-Tractor in background.



Looking Eastward to
Las Vegas Range of Sangre
de Cristo mountains.
Dam stone prospect indicated
in rock. 10 miles distant.
Shows dirt road from Las Vegas
12 miles out.



Applicant Sam Stone holding Air Hammer. His Son Ed standing by. Air Compressor and skidding track-Tractor in background.


32
33
Sam Stone
DMEA-4118
No 1
No 2
No 3
Standard Corner
Brass Cap
T 17 N, R 14 E, N.M.P.M.
4th Std Parallel North
T 16 N
Lot 2
Lot 1
47.35 acres
47.89 acres
Mineralized exposure explored to date
6
5
Legend:
Leased from J.M.T. Sparks
Sparks & Stone Claims Nos. 1, 2 & 3.
Scale 4" = 1 mile
mapped by C.V.S. 1/31/56

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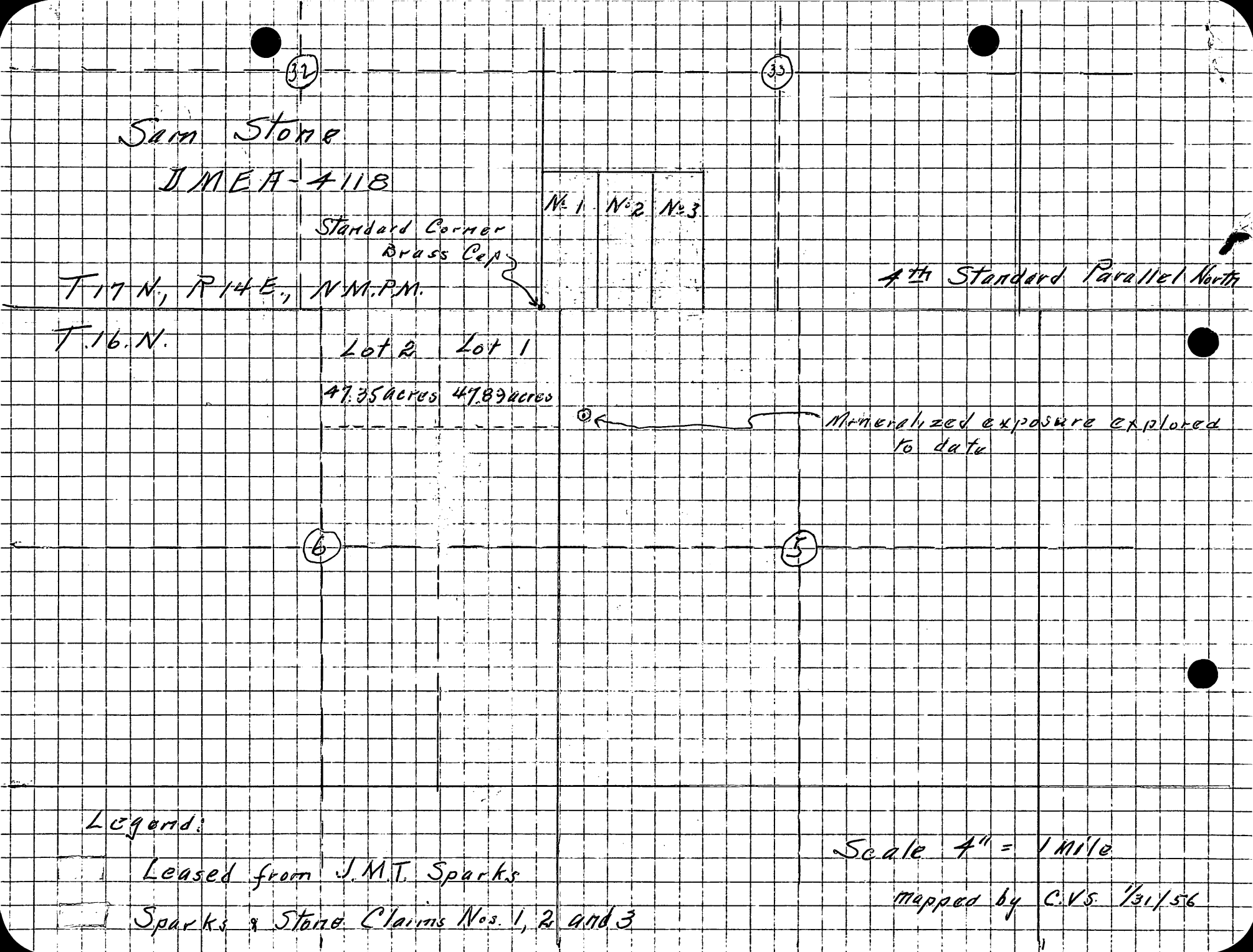
32
33
Sam Stone
IMEA-4118
No. 1
No. 2
No. 3
Standard Corner
Brass Cap
T.17 N., R.14 E., N.M.P.M.
4th Standard Parallel North
T.16.N.
Lot 2
Lot 1
47.35 acres
47.89 acres
Mineralized exposure explored to date
6
5
Legend:
Leased from J.M.T. Sparks
Sparks & Stone Claims Nos. 1, 2 and 3
Scale 4" = 1 mile
mapped by C.V.S. 1/31/56

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