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

224 New Customhouse
Denver 2, Colorado

January 24, 1952

Memorandum

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

From: Field Team, Region IV

Subject: Final Report, Docket DMA 1553X, S. S. Thurmond, Jr., Sixty Copper Prospect Group, Magdalena Mining District, Socorro County, New Mexico

Enclosed herewith are the original and two copies of the report pertaining to the above application. The brochure is also enclosed. The application is for Government assistance in exploration work estimated to cost $50,630.00. The work proposals consist of an unspecified amount of churn drilling, a maximum of 350 feet of shaft sinking, and 300 feet of drifting.

The property is developed by a 54 foot shaft and various shallow pits and trenches. The terrain of the Sixty Copper Prospect Group is of gentle relief and rock exposures are of small vertical extent. From the exposures that can be studied, the only rocks present are tertiary volcanics which are flanked by recent alluvium. Scant copper mineralization occurs in the volcanic rocks and is associated with northerly trending shear zones. Based on the secondary character of the mineralization, exposed in the shaft and the various pits and trenches, from the lack of gossan or boxwork, and from lack of indications of the transportation of copper minerals after emplacement in the rock, the examining engineer concludes that the possibility for secondarily enriched ore bodies at depth is very unfavorable, if dependent on present exposures.

We concur in the conclusion and the recommendation that the application for Government assistance in exploration work be denied.

J.H. East, Jr.

A. H. Koschmann

Enclosures
JWT:ld cc: Docket, chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Mining Division
Region IV

January 24, 1952

Memorandum

To: Field Team, Region IV

From: Acting Chief, Mining Division, Region IV

Subject: Final Report, DMA Docket 1553X, S. S. Thurmond, Jr., Sixty Copper Prospect Group, Magdalena Mining District, Socorro County, New Mexico

Enclosed are the original and seven copies of the Engineering Report by the Bureau of Mines pertaining to the above application. The Geological Survey did not participate in the investigation.

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

The brochure is enclosed.

W. H. King

W. H. King

Enclosures

Mining Division
Date Rec'd.
JAN 7 - 1952
BUREAU OF MINES
Denver, Colorado

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

Arizona-New Mexico Branch
SOUTHWEST EXPERIMENT STATION
Box 4097
UNIVERSITY STATION
TUCSON, ARIZONA

MINING DIVISION
REGION IV

January 4, 1952

Memorandum

To : Paul T. Allsman, Denver, Colorado

From : Chief, Arizona-New Mexico Branch

Subject : Final Report, DMA Docket 1553X, S. S. Thurmond's "Sixty" Copper Prospect, Magdalena Mining District, Socorro County, N. Mex.

Enclosed are original and 7 copies of the above report by John H. Soule' of the Bureau of Mines. No separate report will be submitted by the Geological Survey.

This report has my approval.

Brochure is enclosed.

Walter R. Storms

Walter R. Storms

CC: P. T. Allsman (7)
C. A. Anderson
DMA-1553X
DF

FOR VICTORY
BUY
UNITED STATES SAVINGS BONDS AND STAMPS

UNITED STATES
DEPARTMENT OF THE INTERIOR
OSCAR L. CHAPMAN, SECRETARY

DEFENSE MINERALS ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION IV

DMA-1443K, R. S. Thornsen's, "Sixty" Copper Prospect,

Mandalena Mining District, Socorro County, N. Mex.

John M. Soule', Mining Engineer
U. S. Bureau of Mines

January 1952

alm

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

By John H. Soule[1]

The "Sixty" copper prospect is located 10 miles west of Magdalena, N. Mex., just south of U. S Highway 60. The terrain is rolling and the relief is small. Most of the area can be crossed by car.

Although there is evidence that some prospecting was done many years ago, it was only recently that attention was given to the copper-stained outcrops of the area. S. E. Townsend and 3 partners located 5 lode claims, did a small amount of trenching and test pitting, and sank a small shaft to a depth of 54 feet.

In May 1951, the owners applied for an exploratory loan from the Defense Minerals Administration. The application, Docket DMA 1553X, consisted of 2 phases of work and totaled $50,630, of which one-half was to be supplied by the Government.

Scant copper mineralization occurs in Tertiary volcanic rocks and is associated with northerly trending shear zones. This mineralization seems erratic and evidence indicates that ore bodies of the secondary enrichment type do not exist.

Ore reserves are very limited and the tenor of the material is very low. Chances for finding larger ore bodies of better grade are negligible.

A denial of the application is recommended.

1/ Mining Engineer, Bureau of Mines

F. G. Thurmond's "Sixty" Copper Prospect Magdalena Mining District Socorro County, N. Mex.

DMA-1553X

Engineering Report

By John H. Soule
Mining Engineer
U. S. Bureau of Mines

January 1952

S. S. THURMOND'S
"SIXTY" COPPER PROSPECT
MAGDALENA MINING DISTRICT
SOCORRO COUNTY, N. MEX.
DMR-1553X

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INTRODUCTION

Although prospecting in the vicinity of the "Sixty" copper prospect dates back many years, the early work was done in searching for silver, and it is only the last few years that the copper-stained outcrops were of sufficient interest to warrant prospecting.

The locators of the property have done some shallow trenching and pitting, and on one outcrop have sunk a small shaft to a depth of 14 feet. While this shaft work was in progress, a request was made to the Bureau of Mines for assistance. V. D. McMillan, formerly Supervising Engineer of the New Mexico Field Office, examined the property in October 1950 and recommended that no further consideration be given it by the Bureau of Mines.[1]

Subsequently in May 1951, the owners applied to the Defense Minerals Administration for Government aid in exploring the property. The application, Docket DMA-1553X, was for a maximum of $90,630, suggesting a 50 percent participation between Government and owners. The brochure was sent to the field and an examination of the property was requested. This report gives the results of that examination, which was made on November 27, 1951.

ACKNOWLEDGMENT

Acknowledgment is made of the material supplied by S. S. Thurmond, part owner of the "Sixty" copper prospect, and to Thurmond and E. E. Cobb, partners, for showing the property to the examining engineer.

1/ Bureau Rpt. of Minerals Exam., "Highway 60 Copper Prospect, Socorro County, N. Mex.," V. D. McMillan No. 24, 10/13/50.

Acknowledgment also is made of the material available in the above-mentioned report on the property by W. D. McMillan, Mining Engineer, Bureau of Mines.

LOCATION, TOPOGRAPHY AND CLIMATE

The "Sixty" copper prospect is located 10 miles west of Magdalena, N. Mex., just south of U. S. Highway 60 (see Fig. 1). The main area of the deposits is located very near the middle of adjoining sec. 6, T. 3 S., R. 5 W., and sec. 1, T. 3 S., R. 6 W. The quarter corner marking the mid-point of the line between the sections lies a few feet north of the shaft (see Fig. 2).

The property is reached by traveling west on U. S. Highway 60 for 10 miles from Magdalena, N. Mex. This point is at the top of the highway grade and the property lies just south of the highway. The shaft is located on the southwest side of a small hill about 1,000 feet from the highway (see fig. 2).

The topography is very gentle. The relief is low with an overall difference of elevation of the highest and lowest points on the property of a little over 100 feet. Most of the surface is smooth. Minor bold rock outcrops occur only in the south part of the property. Practically all of the area may be traversed by automobile. The mean altitude of the property is about 7,200 feet.

There are no permanent streams in the area. The water table is estimated to lie about 350 feet below the surface as indicated in deep wells. The mean annual precipitation is about 13 inches of rainfall during the summer, and about 21 inches of snowfall during the winter

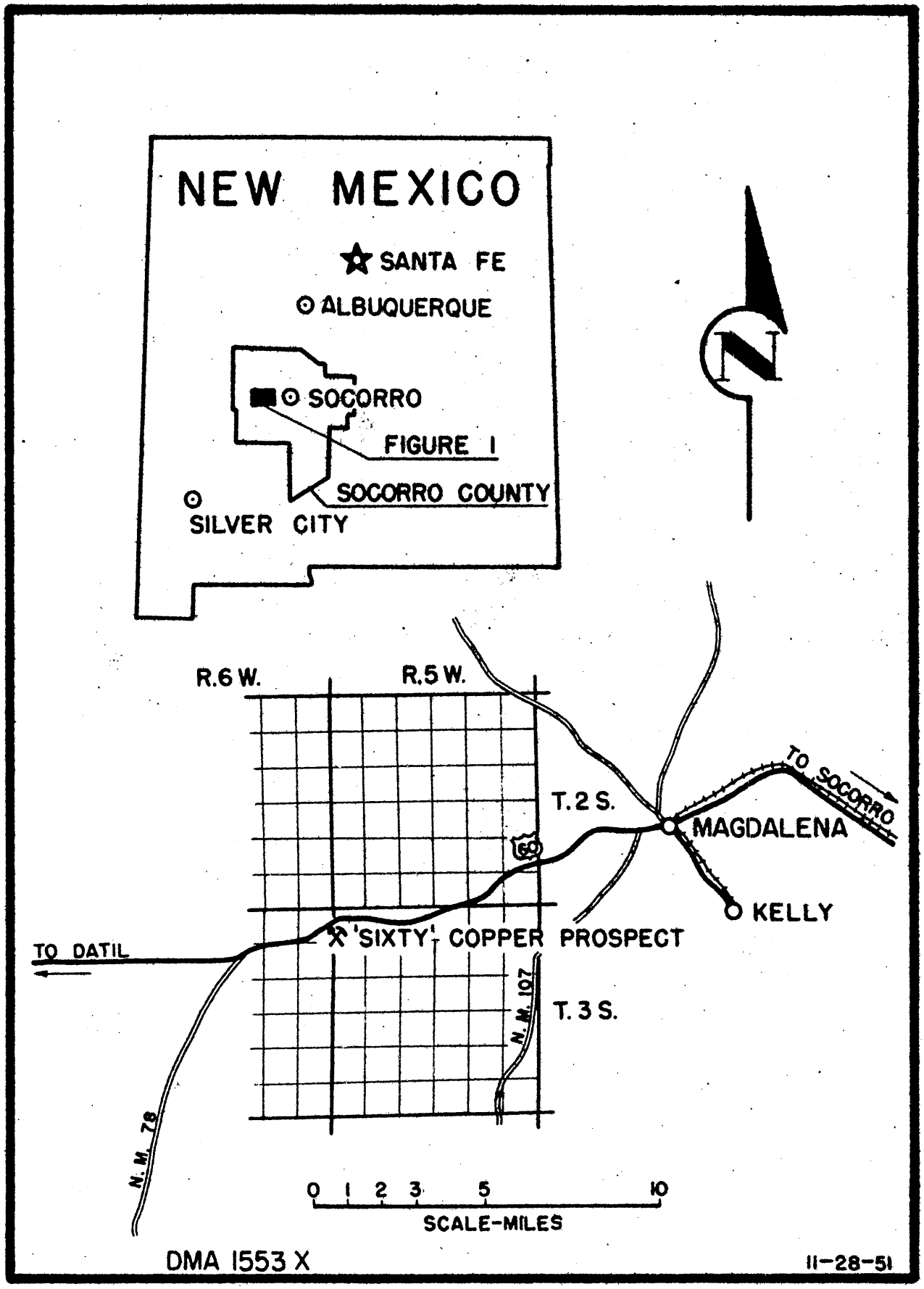

FIGURE 1.—LOCATION MAP, 'SIXTY' COPPER PROSPECT, SOCORRO COUNTY, N.M.

months. Cold periods may be severe but are usually not prolonged. Summer temperatures rarely exceed 100 degrees.

There are no living accommodations at the property but such may be obtained at Magdalena, 10 miles to the east. Rail freight, express, telephone, and telegraph services are available at Magdalena, which has an estimated population of about 1,200. Some skilled mining labor is available in that city.

A three-phase power line passes by the property. Water for an operation must be hauled from Magdalena, unless arrangements could be made to obtain water from ranchers' wells, close to the property.

HISTORY AND PRODUCTION

There is evidence of old prospecting in the vicinity of the "Sixty" copper prospect. That work was done on manganiferous calcite veins in searching for silver. It was only in the last couple of years that any attention was given to copper-stained outcrops. S. S. Thurmond, E. E. Cobb and J. W. Cobb located claims in the area and prospected for copper. Other than various shallow pits and trenches, they sunk one shaft 54 feet.

There has been no production of copper from the area and it is doubtful if any silver was found by previous work.

OWNERSHIP AND EXTENT

The "Sixty" copper prospect comprises 5 unpatented lode claims located within the past 2 years. The claims, with the exception of "Sixty" No. 3 which lies nearby, are shown in figure 2. The property

is owned by a partnership composed of F. S. Thurmond, E. E. Cobb, J. V. Cobb, and Clinton McCarty. All except McCarty live in Magdalena, N. Mex., while McCarty lives in Canutillo, Texas.

DESCRIPTION OF THE DEPOSIT

Because of the gentle relief of the "Sixty" copper prospect terrain, rock exposures showing other than small vertical extent do not exist. From the exposures that can be studied, the only rocks present are Tertiary volcanics which are flanked by recent alluvium. Of the volcanics, there are probably 2 series represented, of which one has at least 2 phases.

The oldest rock is a probable andesite that exhibits a porphyritic texture. It is somewhat altered and weathered wherever seen. The phenocrysts are feldspar and light in color, while the groundmass is a dark brown color. No quartz was visible in this rock. It has been suggested that it is a dike but its occurrence in the topographic pattern suggests a sill, or more likely an underlying lava flow.

Overlying the andesite is a dense fine-grained rhyolite that forms the only worthwhile outcrop in the area. This rock is in places leached and in places silicified, which may account for the variable appearance. Parts of this rock seem to consist almost entirely of quartz while other parts seem to contain considerable feldspar. However, the grain size is so small that the individual minerals cannot be identified. An occasional rare phenocryst of feldspar altered to serpentine (?) was noted. In places there are numerous small cracks and cavities lined with quartz crystals. Although a definite correlation

was not possible from the time spent, this rhyolite is believed to correspond to the red rhyolite of Loughlin and Koschmann[2] in the district to the east.

Although no dips of strata could be measured, it seems from topographic evidence that the flows have no more than a very gentle dip with a slight domed effect. The formations are all fractured and 3 major faults or fracture zones were observed. These all trended northerly with steep dips.

Copper mineralization occurred in each of the main fault zones but was more noticeable in the most westerly zone of the area. There the copper occurs as thin linings of the fractures with an occasional blob of chrysocolla within the rock. Sulfide minerals were rare. The copper is present as chrysocolla with rare malachite and azurite. Also noted as an encrustation in some of the fracture planes in the mineralized zones was a thin coating of vanadinite, which probably accounts for the small amount of lead reported in the assays.

A study of the surface rocks reveals that the copper mineralization is largely confined to the shear zones, although minor copper stains may exist in intervening areas. However, the total area of possible mineralization containing a trace or more of copper seems confined to a roughly circular area about 600 feet in diameter.

All noted mineralization was secondary in character although some sulfide copper minerals were reported in the shaft at a depth of about 35 feet. Even the sulfides, covellite and chalcocite, tend to indicate secondary mineralization.

2/ Loughlin, G. F., & Koschmann, A. H., Geology and Ore Deposits of the Magdalena Mining District, New Mexico, U. S. Geological Survey Prof. Paper 200, 1942

There was very little gossan and very rare boxwork noted on the surface rocks. The gossan and boxwork are confined to small cracks and fissures within the shear zones. This fact would indicate that the copper mineralization is exotic and the source unknown, or if derived from primary mineralization in the fractures of the shear zones, it was derived from a very scant source, and in itself this secondary mineralization would necessarily be scant. Also, the limited amount of hydrothermal alteration would tend to indicate a relatively small amount of mineralizing activity. This meager mineralization is borne out by the assays.

The secondary character of the mineralization with no indication of transportation of copper minerals after emplacement in the rock, together with the lack of gossan and boxwork, indicates that the present "ore bodies" are the "secondarily" enriched "ore bodies" and that enrichment is a negligible factor. It certainly shows that secondarily enriched ore bodies at depth do not exist if dependent upon the present surface and near-surface sources of the copper minerals. Therefore, one can expect a lessening of the copper content of the zone as depth progresses, or at best a retention of the same grade which is low at the start.

Of course, minor small pods of richer material may exist within the zone, but only one small pod was reported in an area covered by about 200 feet of surface exposures and 54 feet of vertical exposure. This would not alter the picture of scant copper mineralization.

ORE RESERVES

The grade of copper-bearing material was derived from the assays of the applicant and of the Bureau of Mines. They seem in general agreement. The assays are listed as follows.

Thurmond assays from shaft

Depth, Ft.	Percent Copper
0 - 16 (dump)	0.27
16 - 28 (muck)	0.44
32 - 36 (muck)	3.27 *
28-32 and 36-48 (composite muck)	0.65

* An inspection of the shaft reveals that all of this material was removed in sinking.

Bureau of Mines assays - location on Figure 2

Locality	Percent Copper
Main shear zone (west)	1.30
Center shear zone	1.05
East shear zone *	0.55

* The applicants suspected the dark coloration of the rock to be due to chalcocite particles disseminated through the rock mass. This sample was cleaned of nearly all green copper minerals and assayed. From the low grade reported and from microscopic examination the dark coloration of the rock was not due to chalcocite. The estimated grade of the rock was about the same as the previous sample.

Based on rough economic analysis, it will be necessary for copper-bearing material to contain at least 2.5 percent copper to be considered as ore. In this case, there are practically no indicated reserves of ore within the "Fixty" copper property. At most, a few tons of ore may be inferred.

However, over a length of 200 feet and a depth of 54 feet and assuming a 5-foot width, which is optimistic, there may be indicated

4,320 tons of copper-bearing material that contain 0.67 percent copper. To this may be added a few tons containing 1.05 percent copper from the middle exposure and a like amount of similar grade from the eastern shear zone. Approximately 5,000 tons of copper-bearing material may be expected as a maximum.

No inferred reserves can be estimated except as a downward extension of the indicated material. Some doubt exists as to whether the copper mineralization extends to depth.

CONCLUSIONS

The following conclusions were derived from an examination of the "Sixty" copper prospect:

1. Surface copper mineralization is sparse and the bulk of it seems confined to northward-trending shear zones in a rhyolite flow;

2. The observed copper minerals were all secondary minerals although a small amount of sulfides were reported from one small mass about 35 feet below the collar of the shaft;

3. The almost complete lack of gossan and boxwork indicates an extremely small quantity of primary copper mineralization, tending to show that the present secondary mineralization is either exotic or was derived from scant primary mineralization;

4. This lack of gossan and boxwork, together with the minerals chrysocolla with minor malachite and azurite, indicates practically no migration of the copper minerals after emplacement in the rock. This would mean that secondarily enriched ore bodies dependent on viable

indications do not exist at depth. In other words, the present showing are the "secondary" ore bodies;

5. Because of the pausity of primary minerals and the presence of the secondary minerals, it must be assumed that the copper mineralization will probably decrease at depth, or at most would retain the same tenor as indicated on the surface;

6. Ore reserves are small and the probability of increasing these reserves is negligible.

RECOMMENDATIONS

Based on the foregoing conclusions, it must be recommended that the application for Government aid in exploring the "Sixty" copper prospect be denied.

Mining Division
Region IV

January 24, 1952

Memorandum

To: Field Team, Region IV

From: Acting Chief, Mining Division, Region IV

Subject: Final Report, DMA Docket 1553K, H. S. Thornond, Jr., Sixty Copper Prospect Group, Magdalena Mining District, Socorro County, New Mexico

Enclosed are the original and seven copies of the Engineering Report by the Bureau of Mines pertaining to the above application. The Geological Survey did not participate in the investigation.

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

The brochure is enclosed.

W. H. King
W. H. King

Enclosures
JWT:M
cc: Docket, chron.

700

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

REGIONAL DIRECTOR'S OFFICE
REGION IV
FEB 18 1952
BUREAU OF MINES
DENVER, COLORADO

Mr. S. S. Thurmond, Jr.
Box 183
Magdalena, New Mexico

Re: Docket No. DMA-1553X (Copper)
Sixty Copper Prospect Group
Socorro County, New Mexico

Dear Mr. Thurmond:

Your application for aid in an exploration project on the Sixty Copper Prospect Group has received our careful consideration.

Projects approved by the Defense Minerals Exploration Administration must show promise of producing material of sufficient value and quantity to improve the mineral supply for National Defense.

A careful study of your application and the property concerned reveals that the probability of accomplishing this is not considered sufficiently promising to justify Government assistance.

Under these circumstances we regret to inform you that the application for aid amounting to 50% of $50,630.00 has been denied. If future work at your property reveals evidence which could materially alter this opinion, please be assured we will be glad to consider a new application.

Sincerely yours,

C. O. Mittendorf

Acting Administrator
Defense Minerals Exploration
Administration

FSchmidt/jem
2/8/52
cc to: Adm. Reading File
Docket
Messrs. Johnson, C.H. Rm. 3621
Nelson, Ned Rm. 4216 GS
Ellis
Schmidt
Field Team, Reg. IV (2)

J.F.S.
W.H.K.

APPROVED:

Member, Bureau of Mines

Member, Geological Survey

224 Rey Customhouse
Denver 2, Colorado

January 24, 1952

Memorandum

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

From: Field Team, Region IV

Subject: Final Report, Docket DMEA 1953X, S. S. Thomson, Jr., Sixty Copper Prospect Group, Magdalena Mining District, Socorro County, New Mexico

Enclosed herewith are the original and two copies of the report pertaining to the above application. The Summary is also enclosed. The application is for Government assistance in exploration work estimated to cost $50,430.00. The work proposals consist of an unspecified amount of shallow drilling, a maximum of 330 feet of shaft sinking, and 300 feet of drifting.

The property is developed by a 54 feet shaft and various shallow pits and trenches. The veinlets of the Sixty Copper Prospect Group lie of gentle relief and rock exposures are of small vertical extent. From the exposures that can be studied, the only rocks present are tertiary volcanics which are flooded by recent alluvium. Small copper mineralization occurs in the volcanic rocks and is associated with tertiary trending shear zones. Based on the secondary character of the mineralization, exposed in the shaft and the various pits and trenches, from the lack of gossan or bonanza, and from lack of indications of the transportation of copper minerals after emplacement in the rock, the consulting engineer concludes that the possibility for secondarily enriched ore bodies at depth is very unfavorable, if dependent on present exposures.

We concur in the conclusion and the recommendation that the application for Government assistance in exploration work be denied.

F.W.V.

J. H. Eck, Jr.

W.H.K.

A. H. Koschmann
A. H. Koschmann

Enclosures
JHE:AH cc: Docket, chron.

Mining Division
Date Rec'd.
JAN 2 1952
BUREAU OF MINES
Denver, Colorado

MINING DIVISION
REGION IV

December 28, 1951

Memorandum

To : John H. Soule', Silver City, New Mexico

From : Lincoln A. Stewart for Walter R. Storms, Chief, Tucson, Ariz.

Subject: DMA 1553X, S. S. Thurmond, "Sixty" Copper Prospect, Prints of figures 1 and 2.

According to request in your memo dated December 21, we are enclosing 3 prints each of figures 1 and 2.

Lincoln A. Stewart for
Walter R. Storms, Chief

CC: P.T. Allsman
DMA 1553X
DF

LAStewart:als

W.R.K.

Mining Division
Date Rec'd.
DEC 26 1951
BUREAU OF MINES
Denver, Colorado

Memorandum

To: W. R. Storms, Tucson, Arizona

Dec. 21, 1951

From: Silver City, New Mexico Field Office

Subject: DMA-1553X, S. S. Thurmond, "Sixty" Copper Prospect, Magdalena Mining District, Socorro County, N. Mex.

Enclosed is the original docket for the above, plus the report ready for final typing.

Two figures for the above report are being sent under separate cover. Please return 3 prints of each of these figures for this office.

John H. Soule'
Acting Supervising Engineer

cc King, Denver
reader
file

W.H.K.
Show Townsend J.F.S.

MINING DIVISION
REGION IV

January 25, 1952

Thru: W. H. King

Memorandum

To : Field Team, Region IV

From : Chief, Arizona-New Mexico Br., Mining Div., Region IV

Subject : DMA Docket 1553X

In answer to your memorandum of January 23, regarding examination of the "60" Copper Prospect, Magdalena Mining District, Socorro County, N. Mex., when this docket was received in the Tucson office of the Bureau of Mines, Mr. A. F. Shride, Acting District Supervisor of the Geological Survey, was consulted about sending a geologist to examine this property. As you may know, the Survey has only three men working on DMEA examinations in Arizona and New Mexico; Mr. Shride, J. N. Faick, and C. S. Bromfield. However, as I understand it, Mr. Bromfield is trying to complete a geological report on the Artillery Peak manganese project so is not always available for DMEA work. When I talked to Mr. Shride about Docket 1553X, he had no one to send to examine it, so we decided to send J. H. Soule' from our Silver City office, with the understanding that a geologist later would visit the property if necessary. From Soule's report, it seemed unnecessary to send another man to make the same examination. However, we neglected to so inform the Field Team.

Walter R. Storms

CC W. H. King
C. A. Anderson (Shride)
DMA-1553X
DF

WRSTORMS:frj

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
MINING DIVISION
REGION IV

Arizona-New Mexico Branch
SOUTHWEST EXPERIMENT STATION
Box 4097
UNIVERSITY STATION

TUCSON, ARIZONA

January 25, 1952

Thru: W. H. King

Memorandum

To : Field Team, Region IV

From : Chief, Arizona-New Mexico Br., Mining Div., Region IV

Subject : DMA Docket 1553X

In answer to your memorandum of January 23, regarding examination of the "60" Copper Prospect, Magdalena Mining District, Socorro County, N. Mex., when this docket was received in the Tucson office of the Bureau of Mines, Mr. A. F. Shride, Acting District Supervisor of the Geological Survey, was consulted about sending a geologist to examine this property. As you may know, the Survey has only three men working on DMEA examinations in Arizona and New Mexico; Mr. Shride, J. N. Faick, and C. S. Bromfield. However, as I understand it, Mr. Bromfield is trying to complete a geological report on the Artillery Peak manganese project so is not always available for DMEA work. When I talked to Mr. Shride about Docket 1553X, he had no one to send to examine it, so we decided to send J. H. Soule' from our Silver City office, with the understanding that a geologist later would visit the property if necessary. From Soule's report, it seemed unnecessary to send another man to make the same examination. However, we neglected to so inform the Field Team.

Walter R. Storms

Walter R. Storms

CC W. H. King
C. A. Anderson (Shride)
DMA-1553X
DF

FOR VICTORY
BUY UNITED STATES SAVINGS BONDS AND STAMPS

Form 6-95

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

REFERENCE SLIP

DATE 1/28/52

REFERRED TO:

1. ~~King~~ ~~Koschmann~~
2. ~~East~~
3.
4.

FOR:

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

REMARKS: Memo from Storms Re: DMA 1553X, in answer to memo 1/23/52, regarding "60" Copper Prospect, Magdalena Mining ~~Dist~~ District, Socorro County, New Mexico.

Check (X) before the items needing attention.

Initials of sender.

GPO 16—51162-1

January 23, 1952

Memorandum

To: W. R. Storms
C. A. Anderson

From: Field Team, Region IV

Subject: DMA Docket 1553X

Under date of November 6, the Field Team forwarded you DMA Docket 1553X, "Sixty" Copper Prospect, Magdalena Mining District, Socorro County, New Mexico. In the last paragraph of this memorandum, it stated

> "A review by the Coordinating Committee is attached. The geological probability of discovery should be investigated before checking the cost estimates."

On January 4, a memorandum addressed to P. T. Allsman and signed by W. R. Storms states "no separate report will be submitted by the Geological Survey". Please advise the reason for not following the instructions of the Field Team.

J. H. East, Jr.

J. H. East, Jr.

A. H. Koschmann

A. H. Koschmann

Copy to: A. H. Koschmann
W. H. King

JHE:ftm

DMA Files

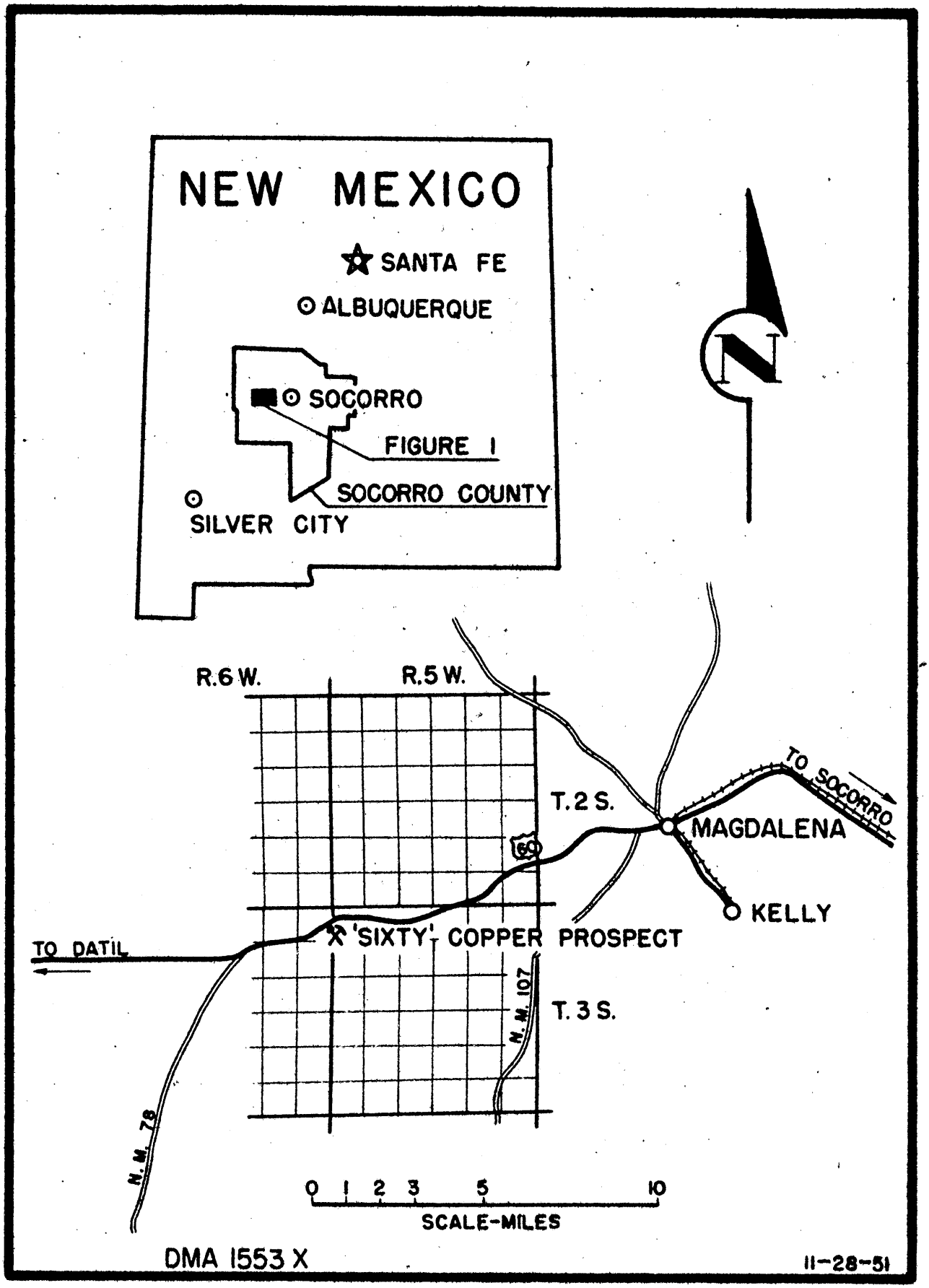

FIGURE 1.—LOCATION MAP, 'SIXTY' COPPER PROSPECT, SOCORRO COUNTY, N.M.

January 23, 1952

Memorandum

To: W. R. Storms
C. A. Anderson

From: Field Team, Region IV

Subject: DMA Docket 1553X

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Fwd

J. H. East, Jr.

J. H. East, Jr.

A. H. Koschmann

A. H. Koschmann

Copy to: A. H. Koschmann
W. H. King

JHE:ftm

DMA Files

Docket

REGIONAL DIRECTOR

W. H. K.

Show Townsend

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
224 NEW CUSTOMHOUSE
DENVER 2, COLORADO

January 23, 1952

Memorandum

To: W. R. Storms
C. A. Anderson

From: Field Team, Region IV

Subject: DMA Docket 1553X

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FWO

J. H. East, Jr.

J. H. East, Jr.

A. H. Koschmann

A. H. Koschmann

Copy to: A. H. Koschmann
W. H. King

224 New Customhouse
Denver 2, Colorado

November 6, 1951

Memorandum

To: W. R. Storms (with brochure) pt

C. A. Anderson

From: DMA Field Team, Region IV

Subject: DMA Docket 1553-I, S. S. Thurmond, Jr., applicant; Sixty Copper Prospect, Magdalena District, Socorro County, New Mexico

Enclosed is the application of the subject docket and a review by the Coordinating Committee for an exploration loan of $50,630.00.

The proposed work consists of four churn drill holes to a tentative depth of 600', continuation of existing prospection shaft from 54 feet to 350 feet, 300 feet of drifting.

This prospect is on a small plateau of rhyolite about 500 feet in diameter, bounded on the southwest by a southeast trending draw, and on the east and west by south trending draws. The rhyolite is cut by numerous fractures of quaquaversal strikes and dips. An examination by an engineer of the New Mexico Field Office in October, 1950, indicated that only a few of these showed any mineralization.

A review by the Coordinating Committee is attached. The geological probability of discovery should be investigated before checking the cost estimates.

WDM:oj
cc: DMA Subject and Chron.
AHKoschmann

J. H. East, Jr.

A. H. Koschmann

Mining Division
Date Rec'd.
NOV 21 1951
BUREAU OF MINES
Denver, Colorado

MINING DIVISION
REGION IV

November 19, 1951

Registered

Memorandum

To : John H. Soule', Silver City, New Mexico

From : Chief, Arizona-New Mexico Br., Mining Div., Region IV

Subject : DMA Docket 1553X, Thurmond's 60 Copper Prospect
Socorro Co., N. Mex.

Enclosed is brochure for the above docket, as per our telephone conversation of this morning.

Please examine this property when convenient.

Please return docket with your report.

Walter R. Storms

CC P. T. Allsman
DMA 1553X
DF

WRStorms:frj

Mining Division
Date Rec'd
NOV 1951
BUREAU OF MINES
Denver, Colorado

New Mexico Field Office
Box 1060, Silver City, New Mexico
November 23, 1951

Mr. S. S. Thurmond, Jr.
Box 183
Magdalena, New Mexico

Dear Mr. Thurmond:

We are in receipt of your application for Government aid in exploring your Sixty Copper prospect, Docket DMA-1553X, Socorro County, N. Mex.

A field examination is indicated, therefore this office will meet you or your representative at the property on Tuesday morning, November 27, 1951, about 8:00 a.m.

Sincerely yours,

John N. Soule'
Acting Supervising Engineer

cc Storms, Tucson
Allsman, Denver
reader
file

UNITED STATES 310
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

DMA

REGIONAL DIRECTOR'S OFFICE REGION IV NOV 8 - 1951 BUREAU OF MINES DENVER, COLORADO

NOV 2 1951

NOV 2 1951

Mr. S. S. Thurmond, Jr.
Box 183
Magdalena, New Mexico

Re: Docket No. DMA-1553X

Dear Mr. Thurmond:

This is to inform you that your application for aid for an exploration project has been referred to the field team for further study. You will hear from Mr. J. H. East, Jr., Executive Officer, DMA Field Team, Region IV, Bureau of Mines, 224 New Customhouse Building, Denver 2, Colorado or one of his staff when they are ready to visit your property.

Very truly yours,

SIGNED

Tom Lyon, Director
Supply Division

J.F.S.

Woom

RVWaugh:rw
10-26-51

Copy to: Administrator's Reading File
Executive Officer, DMA Field Team IV
Coordinating Committee
Copper Branch
Mr. Nelson (GSA Building)
DMA Docket

JFE

Noted

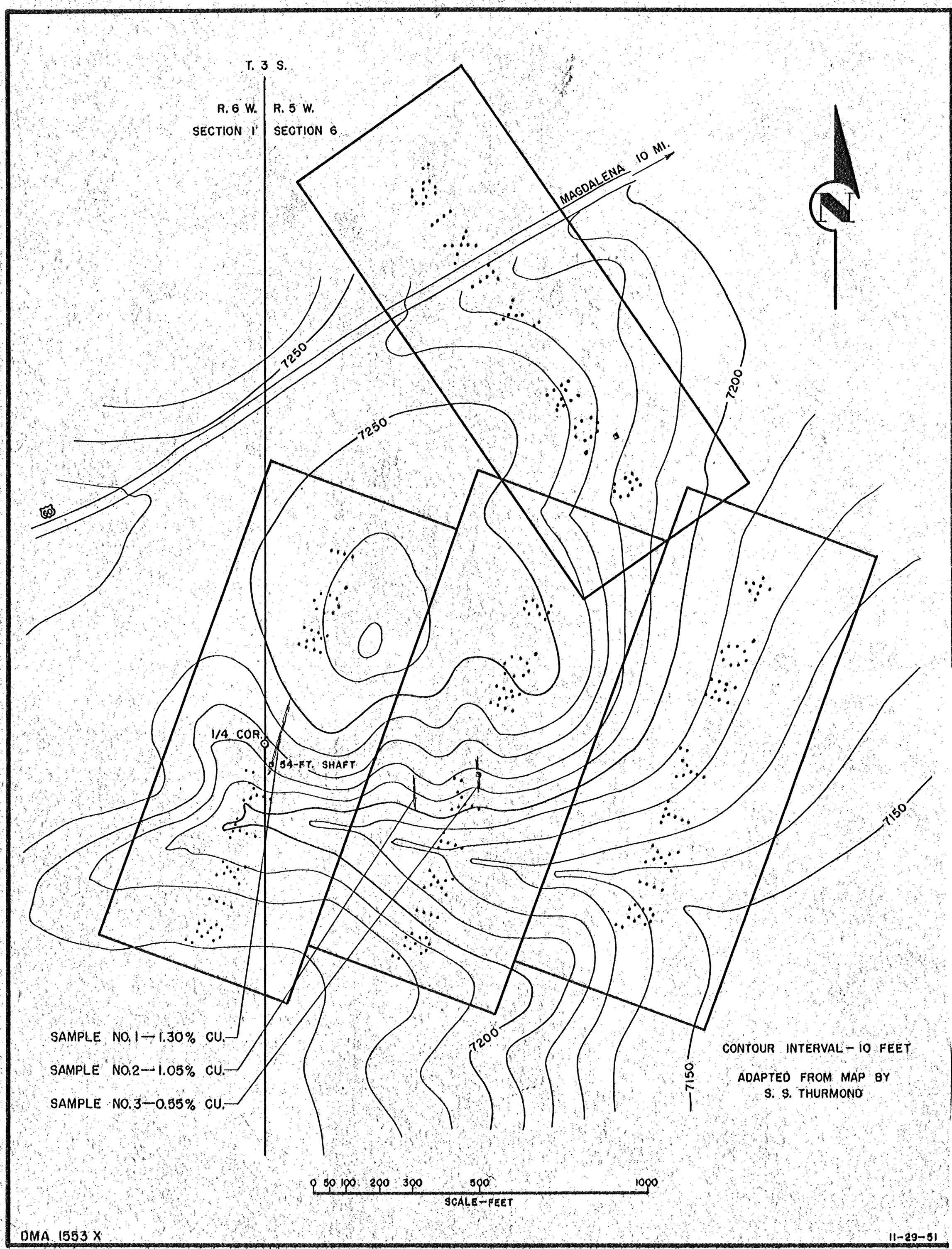

FIGURE 2.—SURFACE MAP, 'SIXTY' COPPER PROSPECT, SOCORRO COUNTY, NEW MEXICO