MAY - 1 1957

Grain Processing Corporation
1600 Oregon Street
Muscatine, Iowa

Re: Docket No. DMEA 4585 - Manganese
Jennie B et al. claims
Socorro County, New Mexico

Gentlemen:

Your application for exploration assistance and other data available to us in Washington concerning the referenced 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 the occurrence of manganese mineralization on your property, indicates to us that the probability of disclosing significant ore reserves is not sufficiently promising to justify Government participation. Under these conditions we regret to advise you that your application is denied.

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

Sincerely yours,

C. O. Mittendorf

Administrator

TLChapman:am 4-29-57
cc to: Docket
Code 400
Admr. Read. File
Oper. Comm.
FT REG III
Messrs. G. DeHuff, Jr., USBM
T. Kiilsgaard, USGS

April 29, 1957

MEMORANDUM

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division, DMEA

Subject: Denial of the Subject Application for Exploration Assistance in the amount of $25,000.00
Docket No. DMEA 4585 - Manganese
Grain Processing Corporation
Jennie B et al. claims
Socorro County, New Mexico

Denial of the subject application is recommended by this Division based on the following information:

The applicant, Grain Processing Corporation, requested exploration assistance in the amount of $25,000.00 on December 19, 1956, for bulldozing access roads and drill sites and drilling (type of drilling not specified). A field examination of the property was made on February 26, 1957, by W. L. Emerick, Geological Survey, and T. M. Romalo, Bureau of Mines, accompanied by Mr. G. A. Kent, president of the corporation, and B. O. Burris, owner of the property.

Applicant: Grain Processing Corporation
G. A. Kent, President
1600 Oregon Street
Muscatine, Iowa

Property Ownership: The property of the applicant consists of 178 unpatented lode mining claims located in sections 3, 4, 8, 9 and 15, T. 5 S., R. 3 W., and section 32, T. 4 S., R. 3 W., Socorro County, New Mexico. The property reportedly is owned by Mr. B. O. Burris, but held by Mr. G. A. Kent, by a working agreement with the Owner. In turn Mr. Kent assigned his interest to the Grain Processing Corporation, by a document dated December 18, 1956.

The claims are recorded as follows:

Names	Book No.	Pages
Jennie B 101 thru 108	188	193 thru 200
Jennie B 117 thru 120	188	369 thru 372
Nancy C 1 thru 8	188	71 thru 78
Nancy C 9 thru 48	188	85 thru 124
Nancy C 49 and 50	188	359 and 360

Property Ownership: Cont'd

Names	Book No.	Pages
Jessie S 1 thru 40	188	201 thru 240
Nancy K 1 thru 28	188	165 thru 192
Jennie B 109 thru 116	188	361 thru 368
Ann 3 and 4	188	260 and 261
Ann 1 and 2	188	258 and 259
Jessie W 1 thru 40	188	125 thru 164

The Black Rock group of four claims is located in sections 11 and 12, T. 5 S., R. 3 W., and owned by the Ranchers Exploration and Development Corporation. This group is reported as part of the holdings of the Grain Processing Corporation, but no data are available as to how it is held.

Adjoining Property: The Buena Vista group of claims located in section 2, T. 5 S., R. 3 W., was examined in October 1952, by the DMEA engineers (Docket No. DMEA 2651) and assistance was denied. A small tonnage of ore has been shipped from the property.

Geology: The rocks of the Magdalena mountains underlaying the above noted claims are predominantly rhyolite and rhyolite porphyry flows. Exposed on higher slopes are intrusions of diabase. Northwest and northeast trending fractures and brecciated shears are present over the area of the claims. Manganese oxides, probably of supergene origin are present in variable amounts as films, crusts, veinlets and rounded masses in the fractured and brecciated zones. Although manganese mineralization can be found over the entire area the local concentrations of good ore are small.

The manganese minerals are psilomelane, pyrolusite and wad. These minerals appear as cementing materials of the fractured rhyolites and sometimes in powdery and dust-like form.

Development:

Exploration work has been carried out by pits and bulldozer trenches, but no significant showing of ore has been found. Generally most of this work was carried out as location and assessment work. Most of the work showed scattered manganese mineralization, but any such ore would have to be selectively mined. The cuts and pits indicated that mineralized zones only persisted to a shallow depth.

Assay results from the better showings returned 5.25 and 8.35 percent manganese.

Proposed Work: The applicant's proposals were not definite, but the work was mainly for access roads and sites for drilling. No specific proposal was made for the type of drilling.

Comments and Conclusions: The Field Team believes that sufficient exploration has been carried out by the owner and applicant; that further work will not add substantially to the results already obtained; and recommends denial of the application.

The Commodity Divisions of the Geological Survey, and the Bureau of Mines, concur in the conclusions and recommendations of the Field Team.

W. S. Martin

W. S. Martin, Chief
Iron and Ferro-Alloys Division

TLChapman:am
cc to: Docket
Code 400
Admr. Read. File
Oper. Comm.

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DMEA
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DATE	INITIALS	CODE

Extra's

April 11, 1957

DMEA Contract No. 4585
DMEA Contract No.
Commodity Mn
Name of applicant: Grain Processing Corp.
Name of property: Nancy C, Jennie B, Black Rock
Location of property: Socorro Co., N. M.
Estimated cost of project: $25,000

W. S. Martin, DMEA

G. L. DeHuff, Jr., Commodity Specialist, Branch of Ferrous Metals and Ferroalloys

Field team report

Date of field team report: 4/1/57 Date of this report: 4/8/57

Is the project ready to contract: Yes [ ] No [x]

Is the applicant ready to contract: Yes [x] No [ ]

Is the ore available for pilot production: Yes [ ] No [x]

Is the applicant ready to contract: Yes [ ] No [ ]

Explain briefly: See my 1/7/57 memo.

Factors meriting special consideration:
a. Location [ ]
b. Geologic [ ]
c. Existence of [illegible]
d. Policy [ ]

Proposed exploration method [ ]
f. Alternate exploration method [ ]
g. Costs [ ]
h. [ ]

Action recommended:
a. Obtain information from field applicant [ ]
b. Refer to field team [ ]
c. Reject [x]
d. Agree with DMEA field team [x]
e. Consult [illegible]

a. Disagree with field team [ ]
b. Suggest alternate plan [ ]
c. Request modified contract [ ]
d. Approval [ ]
e. [ ] AEC office.

10. Remarks: (Use back of page if necessary)

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DATE	INITIALS	CODE

April 11, 1957

4585

Mn
Grain Processing Corp.
Nancy C, Jennie B, Black Rock
Socorro Co., N. M.
$25,000

W. S. Martin, DMEA

G. L. Delluff, Jr., Commodity Specialist, Branch of Ferrous Metals and Ferroalloys

Field team report

4/1/57 4/8/57

[illegible] Yes [ ] No [x]

[illegible] Yes [x] No [ ]

[illegible] Yes [ ] No [x]

[illegible] Yes [ ] No [ ]

[illegible] See my 1/7/57 memo.

[illegible] consideration:

a. Location [ ]
b. Ownership [ ]
c. Evidence of mineralization
d. Geology [ ]
e. Proposed exploration method [ ]
f. Alternate exploration method [ ]
g. Costs [ ]
h. [ ]

[illegible]:

a. Obtain information from applicant [ ]
b. Refer to field team [ ]
c. Reject [x]
d. Agree with field team [x]
e. Discuss with field team [ ]
f. Suggest alternate plan [ ]
g. Request [illegible] [ ]
h. Approval [ ]

[illegible] office.

[illegible] (Use back of page if necessary)

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DMEA
RECEIVED APR 12 1957

DATE	INITIALS	CODE

April 11, 1957

4585

In
Grain Processing Corp.
Nancy C, Jennie D, Black Rock
Cocorro Co., N. M.
025,000

U. S. Martin, DMEA

C. L. Dehuff, Jr., Commodity Specialist, Branch of Ferrous Metals and Ferroalloys

Field tour report

4/1/57 4/8/57

[illegible] Yes [ ] No [x]

[illegible] Yes [x] No [ ]

[illegible] Yes [ ] No [x]

[illegible] Yes [ ] No [ ]

[illegible] See my 1/7/57 memo.

[illegible] considerations:
a. Reminder [ ]
b. Comment [ ]
c. Evidence of [illegible]
d. Other [ ]
e. Proposed exploration method [ ]
f. Alternate exploration method [ ]
g. Costs [ ]
h. [ ]

[illegible]
a. Obtain information from applicant [ ]
b. Refer to field [ ]
c. [illegible] [x]
d. Agree with [illegible] [x]
e. Discuss with field [ ]
f. Support [illegible] [ ]
g. Request [illegible] [ ]
h. Approval [ ]
i. [illegible] ab [illegible] AEC office

[illegible] (Use back of page if necessary)

IN REPLY REFER TO:

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

April 11, 1957

Re: DMEA 4585
Grain Processing Co.
Black Rock, Jennie, etc.
claims
Socorro County, New Mexico
$25,000 - Manganese

EXTRA COPY DMEA RECEIVED APR 12 1957		
DATE	INITIALS	CODE

Memorandum

To: W. S. Martin, Defense Minerals Exploration Administration

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

Subject: Review of application.

The applicant requested assistance in exploring a breccia vein type manganese deposit.

Little information concerning the deposit was given.

The examiners inspected the best showings which have been opened up by bulldozer cuts. The work reveals manganese-bearing fractured and brecciated zones in rhyolite and rhyolite porphyry flows. In the opinion of the examiners the manganese is probably of supergene origin and the deposits as developed, appear to be shallow. The manganese minerals occur as films crusts, veinlets and rounded masses. The mineralization is widespread, but the concentrations of manganese minerals are small and the overall grade is low.

At the Nancy C No. 2 claim in open cuts, two 2-foot breccia zones are uncovered. Samples of the 2 zones assay 8.35 and 5.25% manganese. Two truckloads of ore probably from a cut on the Black Rock No. 2 claim assayed about 23% Mn. Selective mining is indicated.

In the opinion of the examiners the total tonnage of ore grade material is small and assistance is not warranted.

I concur with the recommendation of the examiners and the Field Team that the application be denied.

NENelson:btr G 4/11/57
cc: Gilbert DeHuff
Director's reading file
Branch reading file
DMEA (3)
Chron. file. Docket file

N. E. Nelson

N. E. Nelson

IN REPLY REFER TO:

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

EXTRA COPY DMEA RECEIVED [illegible] 1957		
DATE	INITIALS	CODE
	Memorandum	
	To:	H. [illegible] Martin, Defense Minerals Exploration Administration

April 11, 1957

Re: DMEA 4585
Grain Processing Co.
Black Rock, Jennie, etc. claims
Socorro County, New Mexico
$25,000 - Manganese

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At the Nancy G No. 2 claim in open cuts, two 2-foot breccia zones are uncovered. Samples of the 2 zones assay 8.35 and 5.25% manganese. Two truckloads of ore probably from a cut on the Black Rock No. 2 claim assayed about 23% Mn. Selective mining is indicated.

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NENelson:btr G 4/11/57
cc: Gilbert DeHuff
Director's reading file
Branch reading file
DMEA (3)
Chron. file. Docket file

N. E. Nelson

N. E. Nelson

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RECEIVED 1957
DATE INITIALS CODE

April 11, 1957

Re: DMEA 4585
Grain Processing Co.
Black Rock, Jennie, etc.
claims
Socorro County, New Mexico
$25,000 - Manganese

Memorandum

To: W. S. Martin, Defense Minerals Exploration Administration

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

Subject: Review of application.

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At the Nancy No. 2 claim in open cuts, two 2-foot breccia zones are uncovered. Samples of the 2 zones assay 8.35 and 5.25% manganese. Two truckloads of ore probably from a cut on the Black Rock No. 2 claim assayed about 23% Mn. Selective mining is indicated.

In the opinion of the examiners the total tonnage of ore grade material is small and assistance is not warranted.

I concur with the recommendation of the examiners and the field team that the application be denied.

NENelson:btr G 4/11/57
cc: Gilbert DeHuff
Director's reading file
Branch reading file
DMEA (3)
Chron. file. Docket file

N. E. Nelson

N. E. Nelson

224 New Customhouse
Denver 2, Colorado

April 1, 1957

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DATE	INITIALS	CODE
4/4	WSM	400

Memorandum

To: Secretary to the Operating Committee, DMEA

From: DMEA Field Team, Region III

Subject: Joint Report of Examination, Docket DMEA-4585
(Manganese) Crain Processing Corporation
(Jennie F et al claims)
Socorro County, New Mexico

Enclosed are the original and three copies of the subject report by T. M. Romslo, Mining Engineer, USBM, and W. L. Emerick, Geologist, USGS.

The examining team report that minor amounts of manganese ore occur along fractures in rhyolite and rhyolite porphryry flows. They conclude that the exploration work will not result in the discovery of sufficient amounts of manganese ore and, accordingly, recommend that the application for exploration assistance be denied.

The Field Team concurs in the conclusions and recommendations of the examining team.

Original signed by
E. N. HARSHMAN
By E. N. Harshman
Acting Executive Officer

Enclosures

MHM:hh

cc: Harshman)
Mining Division) w/copy of
Storms) joint report
Emerick)
Docket-4585)
Chron.

Reviewed by
DMEA OPERATING COMMITTEE

(date)

MINERAL DEPOSITS
DMEA
RECEIVED
MAR 27 1957
U. S.
GEOLOGICAL SURVEY
DENVER, COLORADO

TRANSMITTED
APR 1 1957

Box 4126 University Station
Tucson, Arizona

March 22, 1957

Memorandum

To: Acting Executive Officer, DMEA Field Team, Region III

From: W. L. Emerick
T. M. Romslo

Through: E. N. Harshman
W. R. Storms

Subject: Docket DMEA-4585, (Manganese) Grain Processing Corporation, Jenny B et al Claims, Socorro County, New Mexico

Enclosed are the original and 8 copies of a joint field report on the above docket, recommending denial of the application.

Also enclosed are the Bureau and Survey copies of the docket.

W L Emerick
W. L. Emerick
Geologist, U. S. Geological Survey

T M Romslo
T. M. Romslo,
Mining Engineer, U. S. Bureau of Mines

WLE-TMR:ms

cc: Acting Executive Officer (8)
Harshman
King
Storms
Emerick

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DATE	INITIALS	CODE

Reviewed by
DMEA OPERATING COMMITTEE
(date)

DMEA
DEPARTMENT OF THE INTERIOR
MAR 29 1957
REGION III
DENVER, COLORADO

FOR UNITED STATES GOVERNMENT USE ONLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
FRED A. SEATON, SECRETARY

TRANSMITTED
APR 1 1957

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA-4585, (Manganese) Grain Processing Corporation

Jenny B et al Claims

Socorro County, New Mexico

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DMEA
RECEIVED APR 8 1957

DATE	INITIALS	COPY

W. L. Emerick, Geologist
U. S. Geological Survey

T. M. Romslo, Mining Engineer
U. S. Bureau of Mines

Reviewed by
DMEA OPERATING COMMITTEE

March 22, 1957 _____ (date)

SUMMARY, CONCLUSIONS AND RECOMMENDATION

The Grain Processing Corporation applied for Governmental aid in exploration of its manganese property in Socorro County, New Mexico. The application, designated as DMEA-4365, was incomplete, lacking assay reports, maps and a specific exploratory program.

The field investigations were confined to the areas of 2 manganese outcrops which the applicant recently explored mainly by trenches and side-hill opencuts. One of the deposits was mined by the applicant during 1956 for a total production of 22 tons of ore containing 23 percent manganese. The 2 deposits, in the applicant's opinion, contained the best showings of manganese oxides on the property. At the present time, the property is inactive and contains no mining equipment. Buildings on the property are confined to ranch headquarters of the owner who reportedly has a working agreement with the applicant.

The rocks exposed in the report area consist of rhyolite and rhyolite porphyry flows with local exposures of diabase intrusive on the higher slopes. Northwest and northeast trending parallel fractures and brecciated shear zones contain manganese oxides, probably of supergene origin, as films, crusts, veinlets, and rounded masses. Although manganese mineralization can be found over the entire area, local concentrations of good ore appear to be small, and the presence overall of a high percentage of unmineralized rock admixed with the manganese oxides in the fractures and brecciated zones generally makes the deposits low grade.

The Black Rock and Nancy C groups of claims were selected by the applicant as his two best deposits. Both groups of claims are underlain by rhyolite and rhyolite porphyry flows cut by either northwest or northeast trending fracture and brecciated zones in which the manganese minerals occur as incrustations, veinlets, and rounded masses in cavities of the rock or between the rock fragments. The deposit on the Black Rock group of claims contains small, local and shallow concentrations of high grade ore, but overall can be considered low grade. Development of significant tonnages of ore from the deposit does not appear probable.

Considerable bulldozer work has been done by the applicant on two mineralized zones on the Nancy C No. 2 claim. One vein or zone of mineralization possibly terminates laterally within a few feet, and the second mineralized zone appears extremely low grade. Assay results of samples from these two zones show 8.35 percent Mn for the first vein or zone, and 5.35 percent Mn for the second zone. Applicant has done sufficient exploration work on this claim and additional work does not appear warranted.

The Black Rock and Nancy C groups of claims contain low grade manganese mineralization, with occasional higher grade concentrations, along fractures and brecciated zones in rhyolite rocks. The manganese mineralization appears to be shallow in depth and discontinuous along the strike of the fractures and brecciated zones. Minable reserves of acceptable grade are insignificant, and geologic conditions do not indicate that the reserves will be greatly increased by additional exploration work. It is recommended that the application for government assistance in exploration be denied.

DMEA-4585, (MANGANESE) GRAIN PROCESSING CORPORATION
JENNY B ET AL CLAIMS
SOCORRO COUNTY, NEW MEXICO

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Extent and ownership of the property	4
Geology	4
Description of the deposits	5
Conclusions and recommendation	9

ILLUSTRATIONS

Figure No.		Following page
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2	Claim map	4
3	Sketch of geology and exploration on the Black Rock group of claims	6
4	Sketch of geology and exploration on the Nancy C No. 2 claim	8

INTRODUCTION

The Defense Minerals Exploration Administration received an application from the Grain Processing Corporation for aid in exploration for manganese on its property in Socorro County, New Mexico. The application, received December 26, 1956, was given docket number DMEA-4585. It was reviewed by the Operating Committee and forwarded to the Field Team, Region III for a field examination of the property. The letter of transmittal by the chairman of the committee stated:

"It would be desirable to have assay reports and a specific exploration program with map showing the proposed work, but apparently the applicant has already made an appreciable payment for reports without obtaining definite information of the sort we usually require. Probably the easiest and quickest way to obtain the necessary information is to examine the property."

The field investigation was made February 26, 1957 by W. L. Emerick, geologist, U. S. Geological Survey, and T. M. Romslo, mining engineer, U. S. Bureau of Mines. They were accompanied by G. A. Kent, president of the corporation and E. O. Burris, owner of the property. The investigations were confined to the 2 zones of manganese oxides which have been partially explored by trenches and side hill open cuts.

LOCATION AND ACCESSIBILITY

The property of the applicant is about 20 airmiles southwest of the town of Socorro, New Mexico in sections 3, 4, 8, 9, and 15, T. 5 S., R. 3 W. and section 32, T. 4 S., R. 3 W., Socorro County, New Mexico (fig. 1). It is accessible from Socorro, the county seat, by traveling south on U. S. Highway for 27 miles and thence westerly 12 miles on a dirt road to the Burris Ranch headquarters. Old dirt ranch roads from the headquarters were recently extended to the manganese oxide deposits.

TOPOGRAPHY, PHYSICAL FEATURES AND CLIMATE

The applicant's properties are at altitudes ranging from about 5,000 to 9,000 feet above sea level on the southeast flank of the Magdalena Mountain Range. The topography of the properties ranges from rolling hills with gentle slopes at the lower altitude to moderately rugged mountains of steep slopes near the crest of the range.

Vegetation is characteristic of that found in the semi-arid regions of the southwest. At the lower altitudes it is largely confined to a light growth of forage grasses and desert type shrubs. Light to heavy growths of trees are found at both the intermediate and higher altitudes. Trees of the intermediate zone mainly are juniper, cedar and pinon pine. Those higher up are ponderosa pine and spruce.

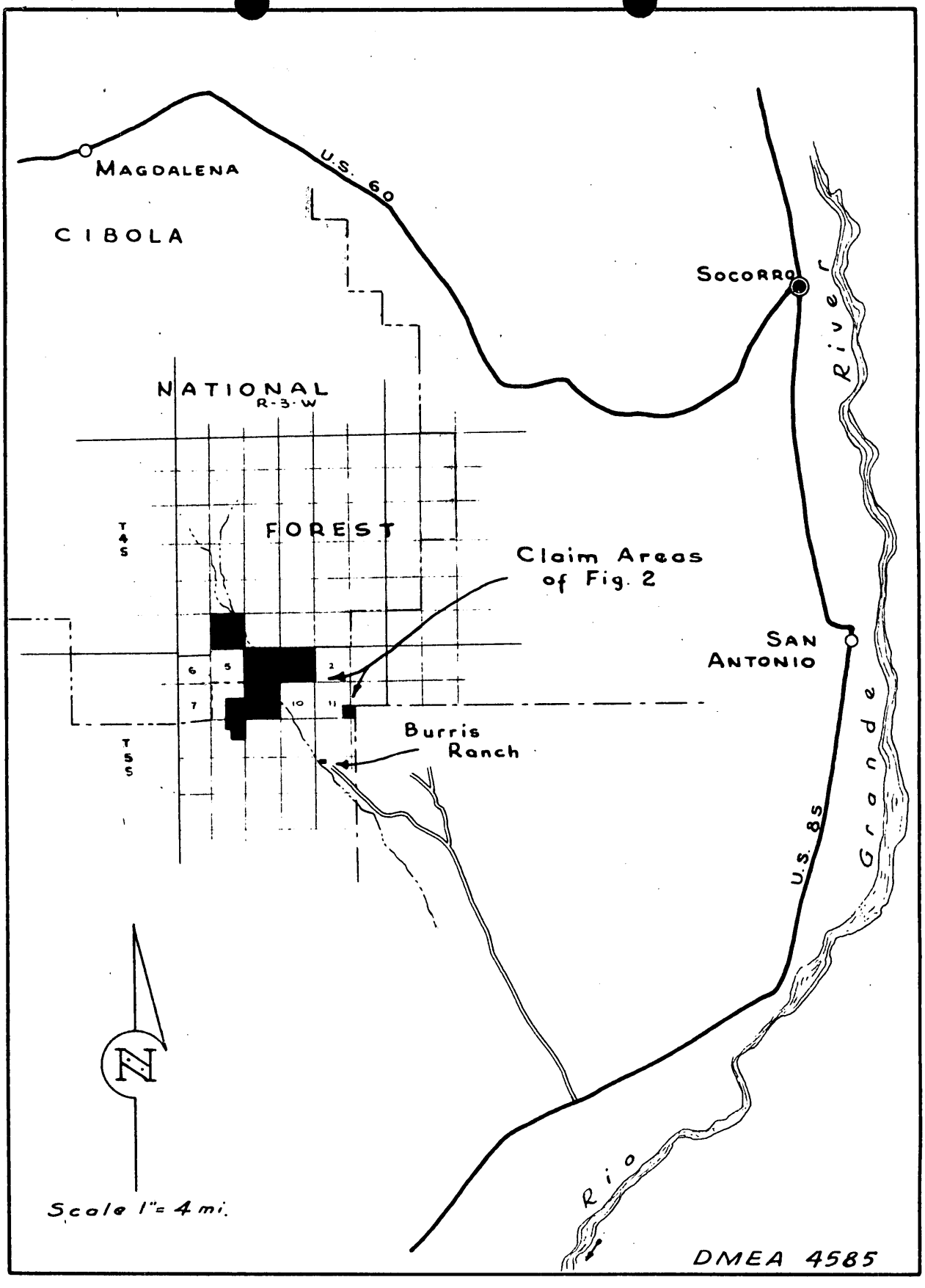


FIG-1- LOCATION MAP, GRAIN PROCESSING CORP.
JENNIE B et al CLAIMS, SOCORRO COUNTY, NEW MEXICO

Summers are warm and winters are moderately cold. Temperatures range from a low of near zero for winters at the higher altitudes to about 100 degrees above Fahrenheit for summers of the lower regions. Precipitation occurs mainly as heavy summer thunderstorms and light rain and snowfalls during the winter. Normal annual precipitation is about 15 inches at the higher altitudes and about 9 inches in the lower country.

The Rio Grande river, about 20 miles east of the Magdalena Mountain Range, is the only permanent stream in the region.

HISTORY AND PRODUCTION

During July 1956, B. O. Burris first noted outcrops of manganese oxides on his property that he believed indicated the presence of minable deposits. Shortly thereafter he trenched one of the outcrops from which he mined and shipped 22 tons of ore averaging 23 percent manganese to the Government's Depot, Deming, New Mexico. Cost of this and other exploratory work was borne by the Grain Processing Corporation which was interested in acquiring all of the potentially mineralized ground. The other work performed comprised about 3,000 feet of access roads and trenching of a second outcrop.

At the present time there is no mining activity, buildings or mining equipment on the property.

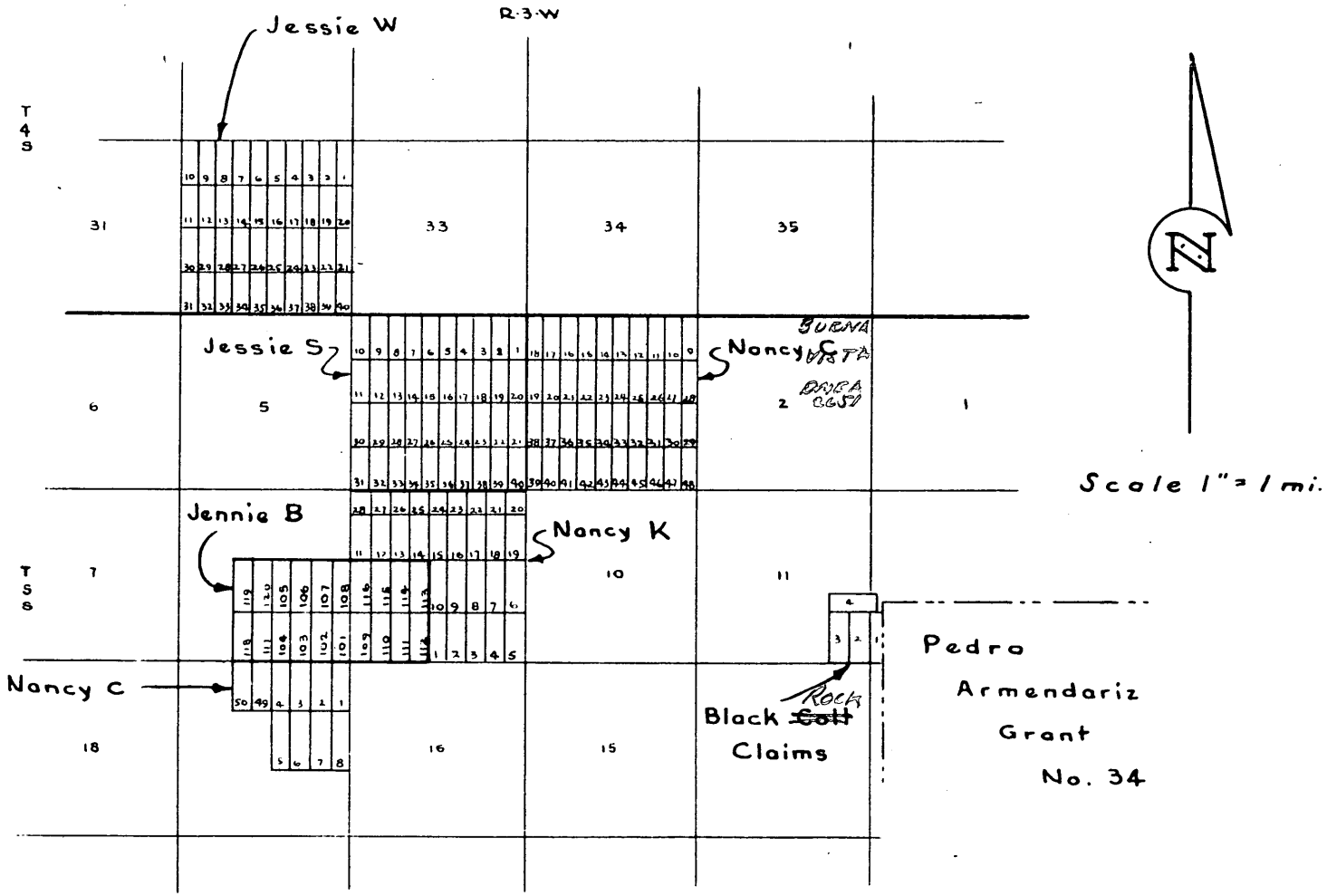
EXTENT AND OWNERSHIP OF THE PROPERTY

The property of the application comprises a group of 178 unpatented lode mining claims (fig. 2). One of the 2 prospects investigated by the examining team is situated in the Nancy C claims of the group. The other prospect is situated in the adjacent group of 4 Black ~~Celt~~ ROCK unpatented lode mining claims.

The property of both groups of claims and an extensive tract of adjoining land reportedly is owned by Mr. B. O. Burris. The 2 groups of mining claims are held by the Grain Processing Corporation under assignment from G. H. Kent, President of the corporation. Mr. Kent reportedly controlled the claims under a working agreement with the owner.

GEOLOGY

The rocks on the southeast slope of the Magdalena Mountains underlying the claims of the Grain Processing Corporation are predominantly rhyolite and rhyolite porphyry flows, probably of Tertiary age. Exposed locally on the higher slopes are intrusions of diabase. Northwest and northeast trending fractures and brecciated shear zones are present over the area covered by the applicant's claims. Manganese oxides, probably of supergene origin, are found in variable amounts as films, crusts, veinlets, and rounded masses in the fractures and brecciated zones. Where larger voids were formed in the fracture and brecciated zones a better grade manganese deposit was formed locally.



DMEA 4585

FIG - 2 - CLAIM MAP, GRAIN PROCESSING CORP.
JENNIE B et al CLAIMS, SOCORRO COUNTY, NEW MEXICO

Although manganese mineralization can be found over the entire area, local concentrations of good ore appear to be small, and the presence overall of a high percentage of barren rock admixed with the manganese oxides in the fractures and brecciated zones generally makes the deposits low grade.

The manganese minerals are psilomelane with pyrolusite, or wad, in minor amounts. Calcite, occurring as incrustations on the psilomelane, is the predominant gangue mineral. The psilomelane occurs as incrustations, fillings, veinlets, lumps, and rounded masses in the cavities of the fracture zones or in the irregular spaces between the rock fragments in the brecciated zones. In the latter case, the manganese minerals sometimes appear more as a cementing material of the rhyolite fragments. The pyrolusite, or wad, is powdery and dust-like and is intimately associated with the psilomelane.

DESCRIPTION OF THE DEPOSITS

Two areas selected by the applicant as containing the best manganese mineralization were shown the examining team. These two areas were the Black Rock and Nancy C groups of claims (Fig. 2).

The Black Rock group of claims lies on the lower slopes of the Magdalena Range, probably at an elevation of about 5,000 feet, and they are underlain by rhyolite and rhyolite porphyry flows. Northwest trending parallel fracture and brecciated fracture zones cut across the rhyolites and these zones have been explored by the applicant

with bulldozer cuts, either along or adjacent to a vein, or by crosscutting veins or breccia zones. In cut "A" (Fig. 3) a brecciated shear zone composed of many parallel fractures striking about N.60° W. and dipping steeply to the southwest was exposed. Many of the fracture surfaces in this cut showed gouge and slickensides. Manganese oxides occurred as crusts, veinlets, and masses in the cavities of the rock and in the irregular spaces between the rock fragments. Presence of a large percentage of rock fragments intermingled with the psilomelane and pyrolusite make the deposit low grade and minable only by careful selective methods. In cut "B" (Fig. 3) a narrow brecciated zone of mixed manganese minerals and rhyolite fragments striking about N.45°W. and dipping about 85° southwest was exposed. The mineralized zone ranged from a thickness of about 2 inches on the west face to about 2 feet on the east face. Psilomelane and pyrolusite filled cavities between rock fragments and ranged from a film to rounded masses about 1/2 inch thick. At a depth of about 7 feet in the bottom of the cut mineralization was obscure and had probably reached a vertical limit at that point. Extension of the zone along the strike did not appear any more favorable than the part exposed in the cut.

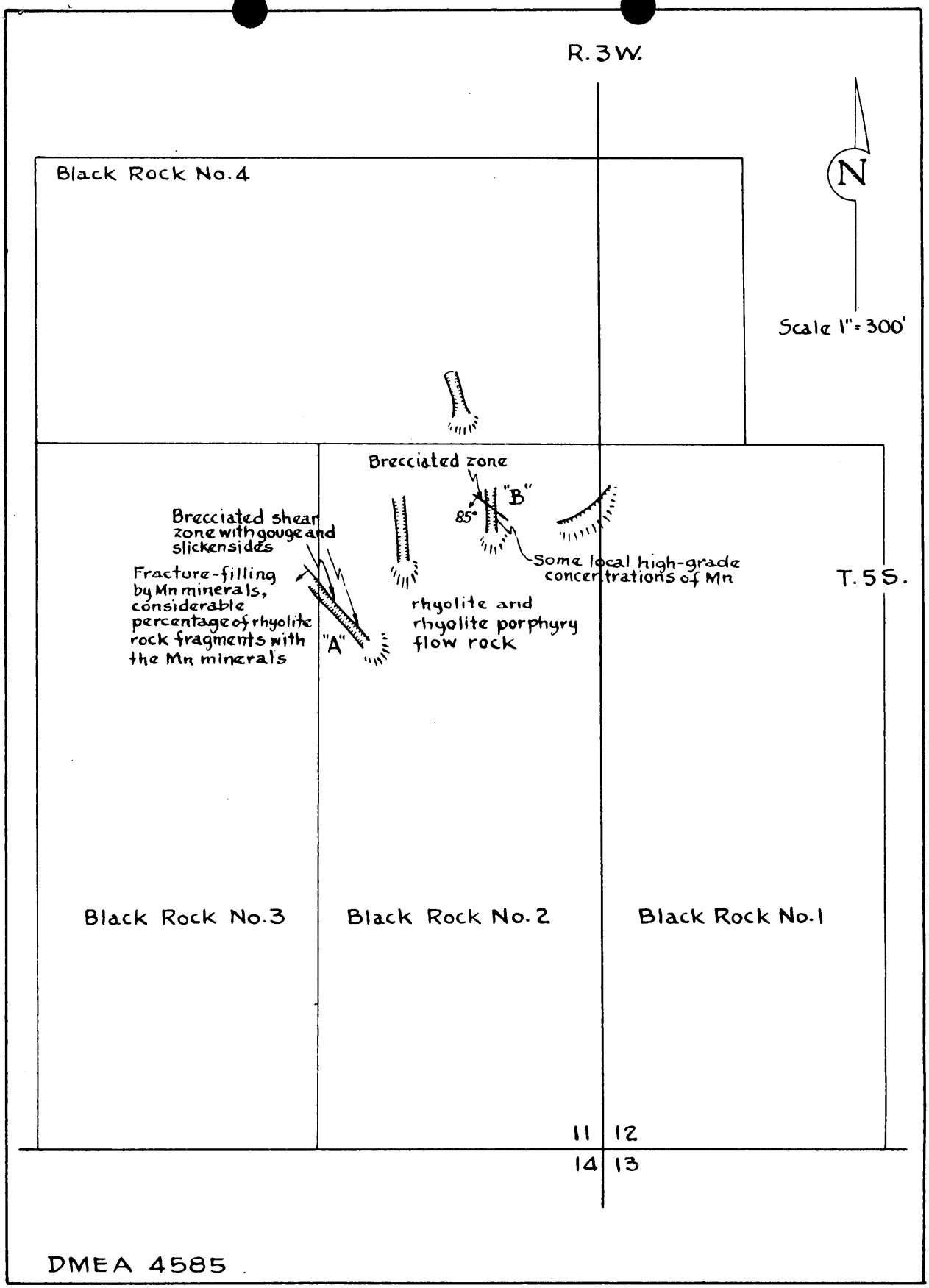


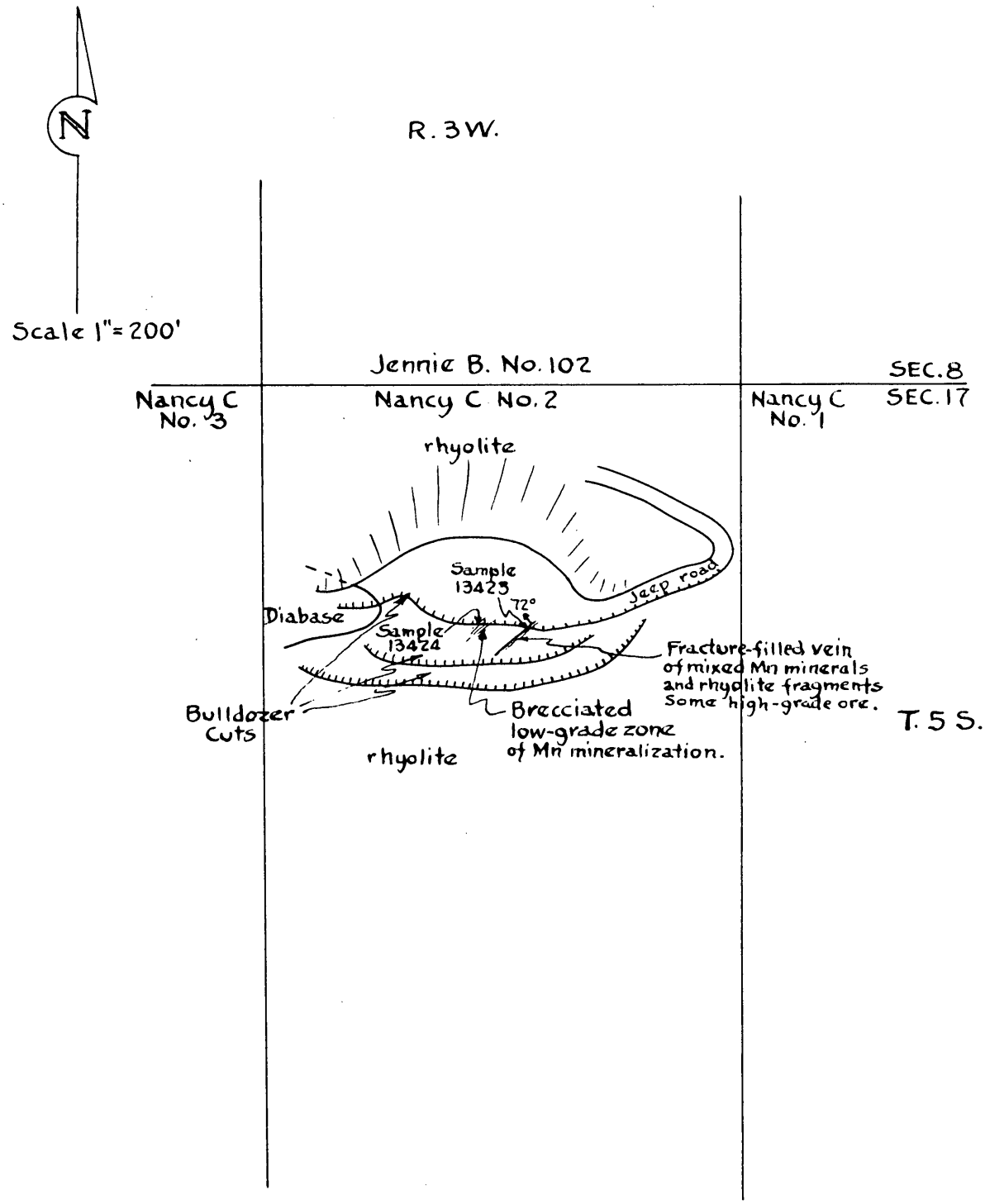
FIGURE 3. SKETCH OF GEOLOGY AND EXPLORATION ON BLACK ROCK GROUP OF CLAIMS, GRAIN PROCESSING CORP., SOCORRO CO., N. MEXICO.

Two truckloads of ore, averaging about 23 percent Mn, were shipped from this area, presumably from Cut "B". It does not appear possible that this much ore could be obtained from these deposits without careful selective mining. The deposit on the Black Rock group of claims contains small, local, and shallow concentrations of high grade ore but overall can be considered low grade. Development of significant tonnages of ore from the deposit does not appear probable. The Black Rock group of claims is about one mile south of the Buena Vista claims that were examined in October 1952 under DMEA docket 2651.

The Nancy C group of claims (Fig. 2) are on the upper slopes of the Magdalena Mountains at an elevation between 8,000 and 9,000 feet. The slopes are underlain by rhyolite and rhyolite porphyry flows that show, in places, dips between 30 and 40 degrees. A diabase intrusive has been exposed by exploration cuts and by erosion in the valleys between slopes. A northeast trend of parallel fracturing and brecciated zones was found on the Nancy C group of claims. Psilomelane and pyrolusite occur in this deposit as incrustations, veinlets, and rounded masses in the fracture cavities and in the spaces around rock fragments.

Applicant intimated that the manganese mineralization on the Nancy C claims was considered his best deposit but in the opinion of the field examiners the showings of ore on these claims were less

significant than found on the lower Black Rock claims. Considerable bulldozer work has been done by the applicant in exploration of the fracture and brecciated zones on the Nancy C No. 2 claim, where the strike of the northwest trending structures is approximately normal to the slope. A sketch (Fig. 4) indicates roughly the 200 to 300 foot long area where a series of cuts were made by the applicant across the mineralized zones on the Nancy C No. 2 claim. A 2-foot-wide fracture-filled vein of mixed manganese oxides and rhyolite fragments, striking about N.50°E. and dipping about 72° northwest to vertical, was sampled by the examining team (Sample No. 13423, Fig. 4). The sample assayed 8.35 percent Mn. This vein apparently terminates within a few feet to the southwest for it could not be found in the upper part of the cut. A more brecciated zone about 2 feet wide and about 50 feet west of the first vein was also exposed in the cut. Owing to the high proportion of barren rock to manganese oxides this second zone appeared extremely low grade. Sample No. 13424 (Fig. 4) representing a 2-foot channel cut across the brecciated zone assayed 5.25 percent Mn. The remaining parts of the cut, to the east and to the west, were essentially all in unmineralized rhyolitic rock. A small segment of a diabase intrusive was exposed in the west end of the cut. Based on the exploration work done by the applicant, the deposit on the Nancy C No. 2 claim appears to be shallow in depth, and low grade, except for small local concentrations of higher grade material in places along the fracture zone. Additional exploration work does not appear warranted.



DMEA 4585

FIGURE 4. SKETCH OF GEOLOGY AND EXPLORATION ON NANCY C No. 2 CLAIM, GRAIN PROCESSING CORPORATION, SOCORRO CO., NEW MEXICO.

CONCLUSIONS AND RECOMMENDATIONS

The Black Rock and Nancy C groups of claims contain low grade manganese mineralization, with occasional higher grade concentrations, along fractures and brecciated zones in rhyolitic rocks. The manganese mineralization appears to be shallow in depth and discontinuous along the strike of the fractures and brecciated zones. Minable reserves of acceptable grade are insignificant, and geologic conditions do not indicate that the reserves will be greatly increased by additional exploration work. We therefore recommend that the application for government assistance in exploration be denied.

FOR UNITED STATES GOVERNMENT USE ONLY

TRANSMITTED
APR 1 1957

UNITED STATES
DEPARTMENT OF THE INTERIOR
FRED A. SEATON, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA-4985, (Manganese) Grain Processing Corporation

Jenny B et al Claims

Socorro County, New Mexico

EXTRA COPY
DMEA
RECEIVED APR 3 1957

DATE	INITIALS	CODE

W. L. Emerick, Geologist
U. S. Geological Survey

T. M. Romalo, Mining Engineer
U. S. Bureau of Mines

Reviewed by
DMEA OPERATING COMMITTEE

(date)

March 22, 1957

SUMMARY, CONCLUSIONS AND RECOMMENDATION

The Grain Processing Corporation applied for Governmental aid in exploration of its manganese property in Socorro County, New Mexico. The application, designated as DMEA-4385, was incomplete, lacking assay reports, maps and a specific exploratory program.

The field investigations were confined to the areas of 2 manganese outcrops which the applicant recently explored mainly by trenches and side-hill opencuts. One of the deposits was mined by the applicant during 1956 for a total production of 22 tons of ore containing 23 percent manganese. The 2 deposits, in the applicant's opinion, contained the best showings of manganese oxides on the property. At the present time, the property is inactive and contains no mining equipment. Buildings on the property are confined to ranch headquarters of the owner who reportedly has a working agreement with the applicant.

The rocks exposed in the report area consist of rhyolite and rhyolite porphyry flows with local exposures of diabase intrusive on the higher slopes. Northwest and northeast trending parallel fractures and brecciated shear zones contain manganese oxides, probably of supergene origin, as films, crusts, veinlets, and rounded masses. Although manganese mineralization can be found over the entire area, local concentrations of good ore appear to be small, and the presence overall of a high percentage of unmineralized rock admixed with the manganese oxides in the fractures and brecciated zones generally makes the deposits low grade.

The Black Rock and Nancy C groups of claims were selected by the applicant as his two best deposits. Both groups of claims are underlain by rhyolite and rhyolite porphyry flows cut by either northwest or northeast trending fractures and brecciated zones in which the manganese minerals occur as incrustations, veinlets, and rounded masses in cavities of the rock or between the rock fragments. The deposit on the Black Rock group of claims contains small, local and shallow concentrations of high grade ore, but overall can be considered low grade. Development of significant tonnages of ore from the deposit does not appear probable.

Considerable bulldozer work has been done by the applicant on two mineralized zones on the Nancy C No. 2 claim. One vein or zone of mineralization possibly terminates laterally within a few feet, and the second mineralized zone appears extremely low grade. Assay results of samples from these two zones show 8.35 percent Mn for the first vein or zone, and 5.25 percent Mn for the second zone. Applicant has done sufficient exploration work on this claim and additional work does not appear warranted.

The Black Rock and Nancy C groups of claims contain low grade manganese mineralization, with occasional higher grade concentrations, along fractures and brecciated zones in rhyolite rocks. The manganese mineralization appears to be shallow in depth and discontinuous along the strike of the fractures and brecciated zones. Minable reserves of acceptable grade are insignificant, and geologic conditions do not indicate that the reserves will be greatly increased by additional exploration work. It is recommended that the application for government assistance in exploration be denied.

DMEA-4585, (MANGANESE) GRAIN PROCESSING CORPORATION
JENNY B ET AL CLAIMS
SOCORRO COUNTY, NEW MEXICO

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INTRODUCTION

The Defense Minerals Exploration Administration received an application from the Grain Processing Corporation for aid in exploration for manganese on its property in Sandoval County, New Mexico. The application, received December 26, 1956, was given docket number DMEA-4383. It was reviewed by the Operating Committee and forwarded to the Field Team, Region XII for a field examination of the property. The letter of transmittal by the chairman of the committee stated:

"It would be desirable to have assay reports and a specific exploration program with map showing the proposed work, but apparently the applicant has already made an appreciable payment for reports without obtaining definite information of the sort we usually require. Probably the easiest and quickest way to obtain the necessary information is to examine the property."

The field investigation was made February 26, 1957 by W. L. Emerick, geologist, U. S. Geological Survey, and T. M. Rennie, mining engineer, U. S. Bureau of Mines. They were accompanied by G. A. Kent, president of the corporation and B. O. Burris, owner of the property. The investigations were confined to the 2 areas of manganese oxides which have been partially explored by trenches and side hill open cuts.

LOCATION AND ACCESSIBILITY

The property of the applicant is about 20 airmiles southwest of the town of Socorro, New Mexico in sections 3, 4, 8, 9, and 15, T. 5 S., R. 3 W. and section 32, T. 4 S., R. 3 W., Socorro County, New Mexico (fig. 1). It is accessible from Socorro, the county seat, by traveling south on U. S. Highway for 27 miles and thence westerly 12 miles on a dirt road to the Burris Ranch headquarters. Old dirt ranch roads from the headquarters were recently extended to the manganese oxide deposits.

TOPOGRAPHY, PHYSICAL FEATURES AND CLIMATE

The applicant's properties are at altitudes ranging from about 5,000 to 9,000 feet above sea level on the southeast flank of the Magdalena Mountain Range. The topography of the properties ranges from rolling hills with gentle slopes at the lower altitude to moderately rugged mountains of steep slopes near the crest of the range.

Vegetation is characteristic of that found in the semi-arid regions of the southwest. At the lower altitudes it is largely confined to a light growth of forage grasses and desert type shrubs. Light to heavy growths of trees are found at both the intermediate and higher altitudes. Trees of the intermediate zone mainly are juniper, cedar and pinon pine. Those higher up are ponderosa pine and spruce.

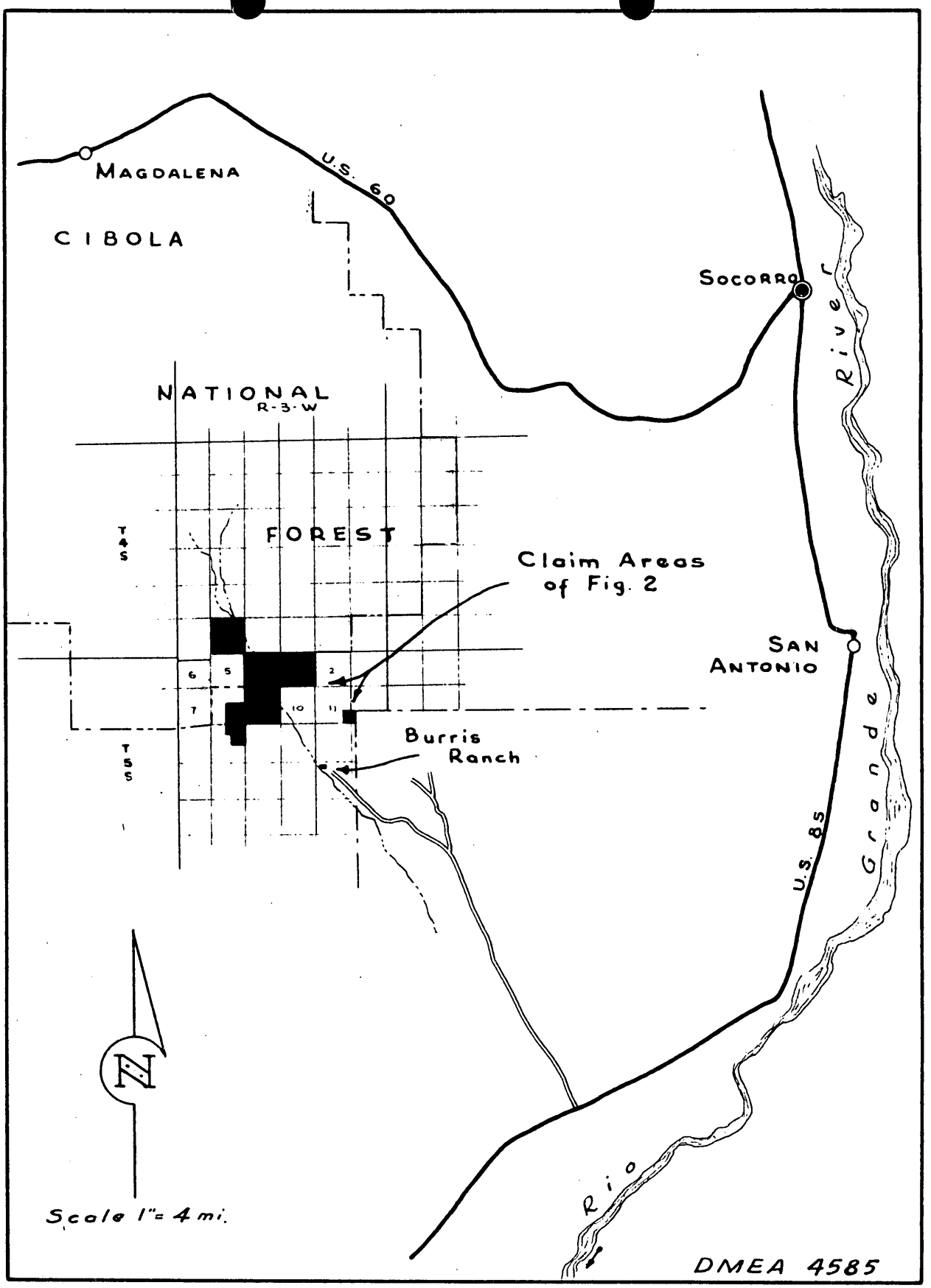


FIG-1- LOCATION MAP, GRAIN PROCESSING CORP.
JENNIE B et al CLAIMS, SOCORRO COUNTY, NEW MEXICO

Summers are warm and winters are moderately cold. Temperatures range from a low of near zero for winters at the higher altitudes to about 100 degrees above Fahrenheit for summers of the lower regions. Precipitation occurs mainly as heavy summer thunderstorms and light rain and snowfalls during the winter. Normal annual precipitation is about 15 inches at the higher altitudes and about 9 inches in the lower country.

The Rio Grande river, about 20 miles east of the Magdalena Mountain Range, is the only permanent stream in the region.

HISTORY AND EXPLORATION

During July 1956, R. O. Burris first noted outcrops of manganese oxides on his property that he believed indicated the presence of mirable deposits. Shortly thereafter he trenched one of the outcrops from which he mined and shipped 22 tons of ore averaging 23 percent manganese to the Government's Depot, Deming, New Mexico. Most of this and other exploratory work was done by the Amin Processing Corporation which was interested in acquiring all of the potentially mineralized ground. The other work performed comprised about 3,000 feet of access roads and trenching of a second outcrop.

At the present time there is no mining activity, buildings or mining equipment on the property.

EXTENT AND OWNERSHIP OF THE PROPERTY

The property of the application comprises a group of 178 unpatented lode mining claims (fig. 2). One of the 2 prospects investigated by the examining team is situated in the Nancy C claims of the group. The other prospect is situated in the adjacent group of 4 Black ROCK unpatented lode mining claims.

The property of both groups of claims and an extensive tract of adjoining land reportedly is owned by Mr. B. O. Burris. The 2 groups of mining claims are held by the Grain Processing Corporation under assignment from G. H. Kent, President of the corporation. Mr. Kent reportedly controlled the claims under a working agreement with the owner.

GEOLOGY

The rocks on the southeast slope of the Magdalena Mountains underlying the claims of the Grain Processing Corporation are predominantly rhyolite and rhyolite porphyry flows, probably of Tertiary age. Exposed locally on the higher slopes are intrusions of diabase. Northwest and northeast trending fractures and brecciated shear zones are present over the area covered by the applicant's claims. Manganese oxides, probably of supergene origin, are found in variable amounts as films, crusts, veinlets, and rounded masses in the fractures and brecciated zones. Where larger voids were formed in the fracture and brecciated zones a better grade manganese deposit was formed locally.

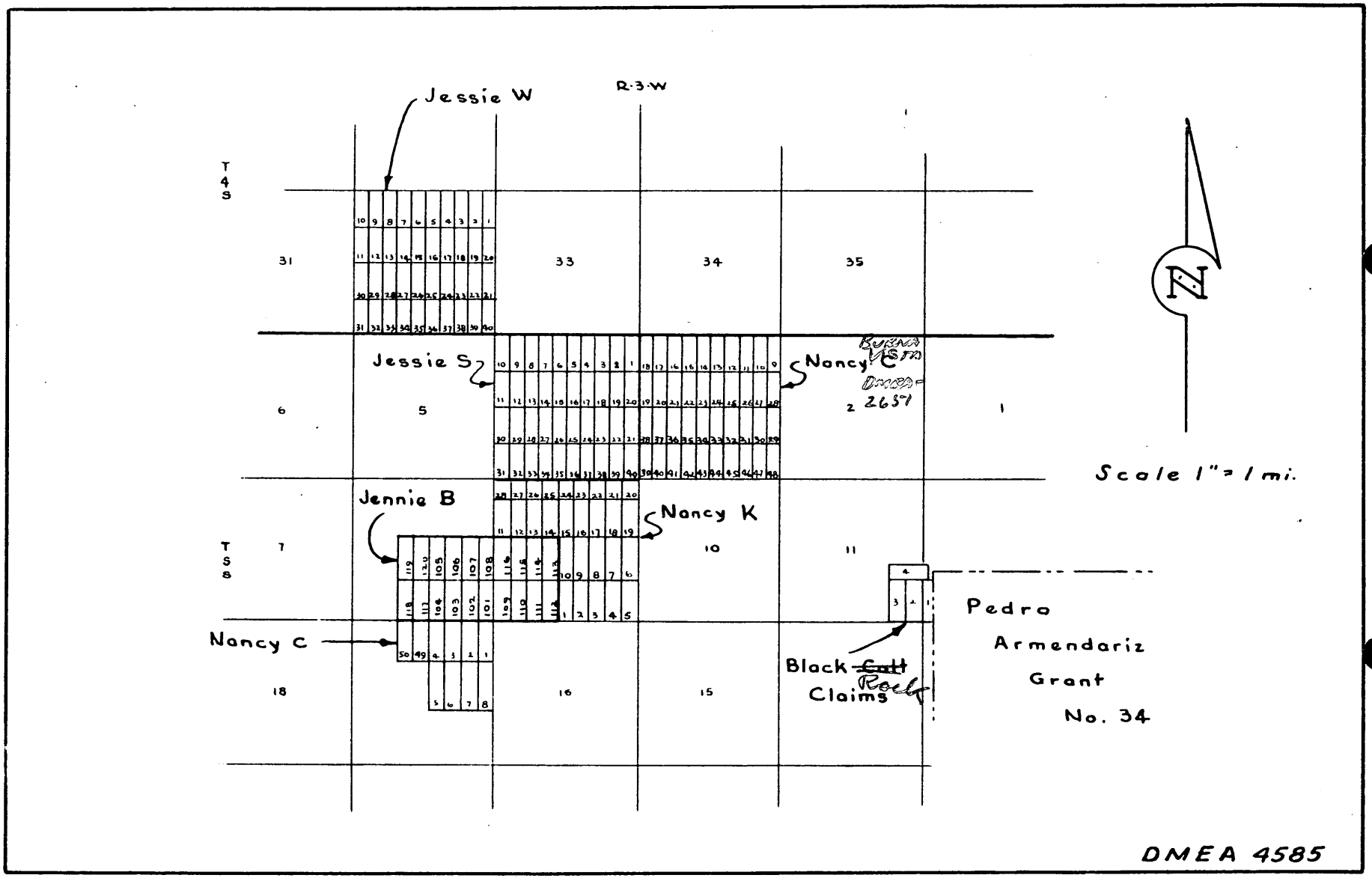


FIG - 2 - CLAIM MAP, GRAIN PROCESSING CORP.
JENNIE B et al CLAIMS, SOCORRO COUNTY, NEW MEXICO

Although manganese mineralization can be found over the entire area, local concentrations of good ore appear to be small, and the presence overall of a high percentage of barren rock admixed with the manganese oxides in the fractures and brecciated zones generally makes the deposits low grade.

The manganese minerals are psilomelane with pyrolusite, or wad, in minor amounts. Calcite, occurring as incrustations on the psilomelane, is the predominant gangue mineral. The psilomelane occurs as incrustations, fillings, veinlets, lumps, and rounded masses in the cavities of the fracture zones or in the irregular spaces between the rock fragments in the brecciated zones. In the latter case, the manganese minerals sometimes appear more as a cementing material of the rhyolite fragments. The pyrolusite, or wad, is powdery and dust-like and is intimately associated with the psilomelane.

DESCRIPTION OF THE DEPOSITS

Two areas selected by the applicant as containing the best manganese mineralization were shown the examining team. These two areas were the Black Rock and Nancy C groups of claims (Fig. 2).

The Black Rock group of claims lies on the lower slopes of the Magdalena Range, probably at an elevation of about 5,000 feet, and they are underlain by rhyolite and rhyolite porphyry flows. Northwest trending parallel fracture and brecciated fracture zones cut across the rhyolites and these zones have been explored by the applicant

with bulldozer cuts, either along or adjacent to a vein, or by crosscutting veins or breccia zones. In cut "A" (Fig. 3) a brecciated shear zone composed of many parallel fractures striking about N.60° W. and dipping steeply to the southwest was exposed. Many of the fracture surfaces in this cut showed gouge and slickensides. Manganese oxides occurred as crusts, veinlets, and masses in the cavities of the rock and in the irregular spaces between the rock fragments. Presence of a large percentage of rock fragments intermingled with the psilomelane and pyrolusite make the deposit low grade and minable only by careful selective methods. In cut "B" (Fig. 3) a narrow brecciated zone of mixed manganese minerals and rhyolite fragments striking about N.45°W. and dipping about 85° southwest was exposed. The mineralized zone ranged from a thickness of about 2 inches on the west face to about 2 feet on the east face. Psilomelane and pyrolusite filled cavities between rock fragments and ranged from a film to rounded masses about 1/2 inch thick. At a depth of about 7 feet in the bottom of the cut mineralization was obscure and had probably reached a vertical limit at that point. Extension of the zone along the strike did not appear any more favorable than the part exposed in the cut.

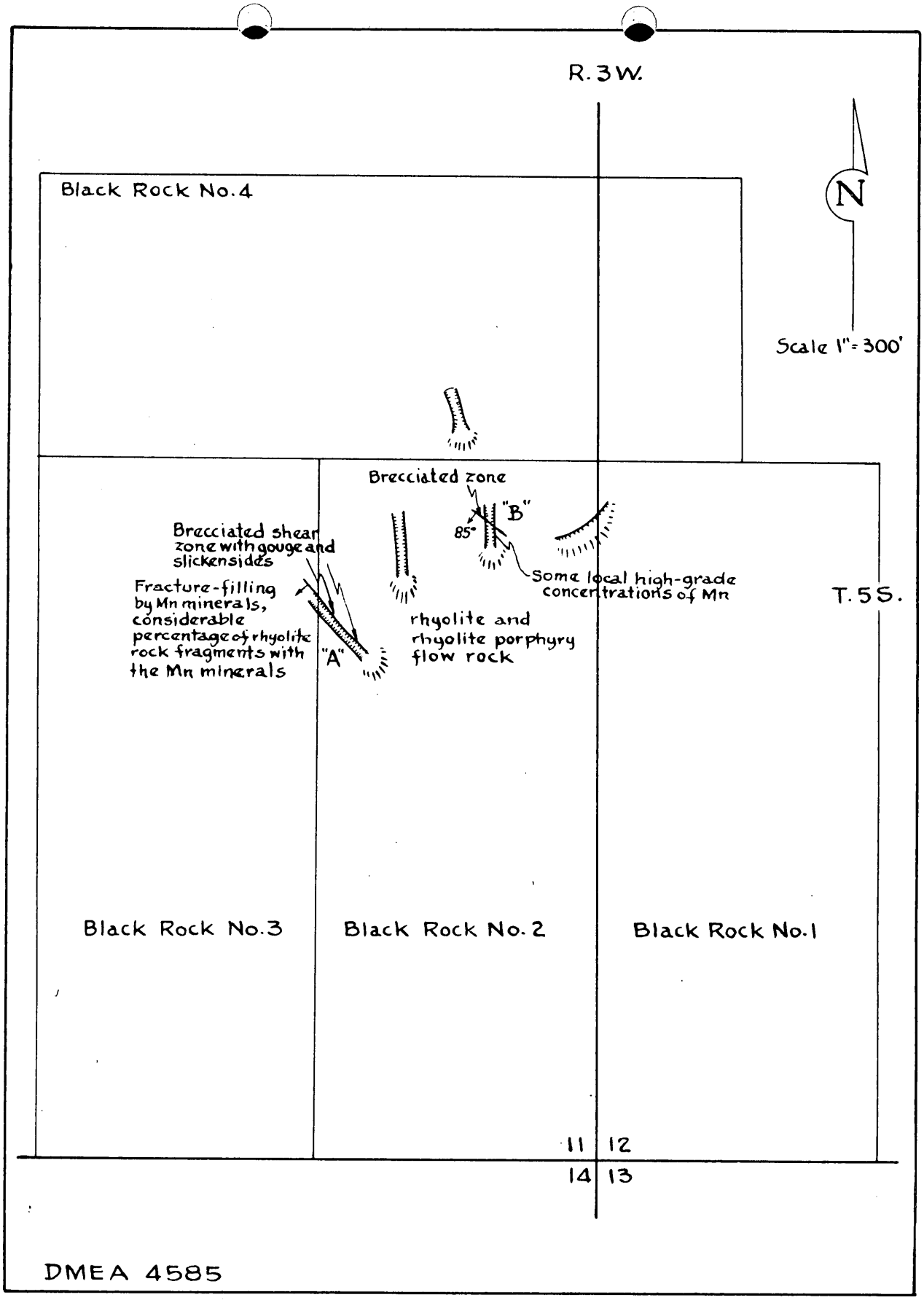


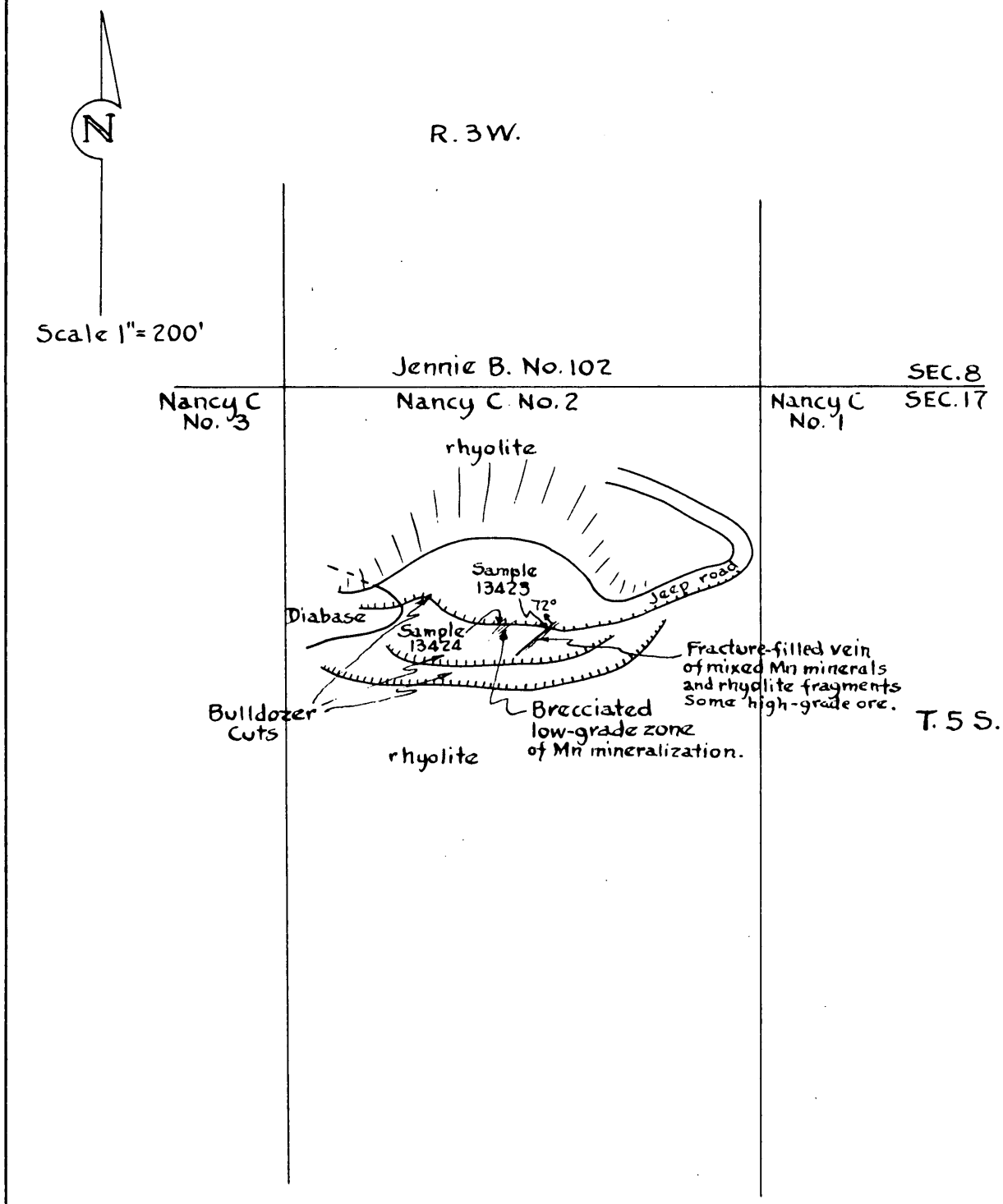
FIGURE 3. SKETCH OF GEOLOGY AND EXPLORATION ON BLACK ROCK GROUP OF CLAIMS, GRAIN PROCESSING CORP., SOCORRO CO., N. MEXICO.

Two truckloads of ore, averaging about 23 percent Mn, were shipped from this area, presumably from Cut "B". It does not appear possible that this much ore could be obtained from these deposits without careful selective mining. The deposit on the Black Rock group of claims contains small, local, and shallow concentrations of high grade ore but overall can be considered low grade. Development of significant tonnages of ore from the deposit does not appear probable. The Black Rock group of claims is about one mile south of the Buena Vista claims that were examined in October 1952 under I&EA docket 2651.

The Nancy C group of claims (Fig. 2) are on the upper slopes of the Magdalena Mountains at an elevation between 8,000 and 9,000 feet. The slopes are underlain by rhyolite and rhyolite porphyry flows that show, in places, dips between 30 and 40 degrees. A diabase intrusive has been exposed by exploration cuts and by erosion in the valleys between slopes. A northeast trend of parallel fracturing and brecciated zones was found on the Nancy C group of claims. Psilomelane and pyrolusite occur in this deposit as incrustations, veinlets, and rounded masses in the fracture cavities and in the spaces around rock fragments.

Applicant intimated that the manganese mineralization on the Nancy C claims was considered his best deposit but in the opinion of the field examiners the showings of ore on these claims were less

significant than found on the lower Black Rock claims. Considerable bulldozer work has been done by the applicant in exploration of the fracture and brecciated zones on the Nancy C No. 2 claim, where the strike of the northwest trending structures is approximately normal to the slope. A sketch (Fig. 4) indicates roughly the 200 to 300 foot long area where a series of cuts were made by the applicant across the mineralized zones on the Nancy C No. 2 claim. A 2-foot-wide fracture-filled vein of mixed manganese oxides and rhyolite fragments, striking about N.50°E. and dipping about 72° northwest to vertical, was sampled by the examining team (Sample No. 13423, Fig. 4). The sample assayed 0.35 percent Mn. This vein apparently terminates within a few feet to the southwest for it could not be found in the upper part of the cut. A more brecciated zone about 2 feet wide and about 50 feet west of the first vein was also exposed in the cut. Owing to the high proportion of barren rock to manganese oxides this second zone appeared extremely low grade. Sample No. 13424 (Fig. 4) representing a 2-foot channel cut across the brecciated zone assayed 0.25 percent Mn. The remaining parts of the cut, to the east and to the west, were essentially all in unmineralized rhyolitic rock. A small segment of a diabase intrusive was exposed in the west end of the cut. Based on the exploration work done by the applicant, the deposit on the Nancy C No. 2 claim appears to be shallow in depth, and low grade, except for small local concentrations of higher grade material in places along the fracture zone. Additional exploration work does not appear warranted.



DMEA 4585

FIGURE 4. SKETCH OF GEOLOGY AND EXPLORATION ON NANCY C No. 2 CLAIM, GRAIN PROCESSING CORPORATION, SOCORRO CO., NEW MEXICO.

CONCLUSIONS AND RECOMMENDATIONS

The Black Rock and Nancy C groups of claims contain low grade manganese mineralization, with occasional higher grade concentrations, along fractures and brecciated zones in rhyolitic rocks. The manganese mineralization appears to be shallow in depth and discontinuous along the strike of the fractures and brecciated zones. Minable reserves of acceptable grade are insignificant, and geologic conditions do not indicate that the reserves will be greatly increased by additional exploration work. We therefore recommend that the application for government assistance in exploration be denied.

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

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D M E A
RECEIVED JAN 25 1957

DATE	INITIALS	CODE
1/25	WSM	400
1/25		

224 New Customhouse
Denver 2, Colorado

January 22, 1957

Memorandum

To: W. R. Storms

From: DMEA Field Team, Region III

Subject: Docket DMEA 4585 (Manganese) Grain Processing Corporation (Jennie B et al claims) Socorro County, New Mexico.

Mr. Frank J. Prochaska, Vice President of the subject Applicant company telephoned this office and requested that he be notified, several days in advance, of the date set for the field examination.

The President of the company, Mr. G. A. Kent, is the only officer of the company familiar with the project, and he is presently vacationing in Florida. They request notice at the Muscatine, Iowa office, 1600 Oregon Street, in sufficient time for them to contact Mr. Kent and have him arrange to accompany the field examiners.

DMEA Field Team, Region III

Original signed by
W. M. TRAVER

By W. M. Traver
Executive Officer

HMC:ytl
cc
Sec. Op. Comm. (2)
W. L. Emerick
Harshman
Docket 4585
Chron.

EXTRA COPY
DMEA
RECEIVED
FEB 1957

DATE	INITIALS	CODE
1/25		400
January 21, 1957		

Memorandum

To: W. R. Storms

From: Superintendent, Denver Experiment Station, Reg. III

Subject: Docket DMEA 4585 (Manganese) Grain Processing Corporation (Jennie B et al claims), Socorro County, New Mexico

Enclosed is the application for Grain Processing Corporation, Docket DMEA 4585, in the amount of $25,000.00.

A field examination and suitable report are required. We believe the Bureau of Mines should examine the deposit even though the Survey may not recommend assistance. The completed report should be forwarded directly to the Executive Officer with a copy of the memorandum of transmittal to this office.

W. H. King

W. H. King

Enclosure

cc: E. H. Marshman
W. L. Emerick
W. M. Traver (3)
Sec. Op. Com. (2)

DMEA
DEPARTMENT OF THE INTERIOR
JAN 22 1957
REGION

400

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

EXTRA COPY DMEA RECEIVED JAN 22 1957		
DATE	INITIALS	CODE

224 New Customhouse
Denver 2, Colorado

January 17, 1957

Memorandum

To: W. H. King (2) (w/brochure)
W. L. Emerick (w/brochure)

From: DMEA Field Team, Region III

Subject: Docket DMEA 4585 (Manganese) Grain Processing Corporation (Jennie B et al claims) Socorro County, New Mexico.

Enclosed is the subject application in the amount of $25,000.00. A field examination and suitable report are requested.

As pointed out in the Chairman's letter, copy of which is attached, it would be desirable to have more definite information before making a field examination; but he concludes, and we concur, that the easiest and quickest way to obtain the necessary information is to examine the property. Also enclosed are copies of memoranda of review of the subject application, by N. E. Nelson and G. L. DeHuff, Jr.

Please return the Bureau of Mines copy of the brochure to this office, with the report of examination.

DMEA Field Team, Region III

Original signed by
W. M. TRAVER

W. M. Traver
By
Executive Officer

Enclosures

WMC:ytl
cc
Sec. Op. Comm. (2)
Harshman
Docket 4585
Chron.

JAN 14 1957

Grain Processing Corporation
1600 Oregon Street
Muscatine, Iowa

Re: Docket No. DMEA 4505 - Manganese
Jennie 3 et al. claims
Socorro County, New Mexico

Gentlemen:

The above docketed application for exploration assistance for manganese ore has been reviewed by the Iron and Ferro-Alloys Division of the Defense Minerals Exploration Administration and referred to Mr. H. M. Brewer, Executive Officer, DMEA Field Team, Region III, 224 New Customhouse, Denver 2, Colorado, for a field examination of the property.

Any assistance you can give the members of the Field Team will be appreciated.

Sincerely yours,

Frank E. Johnson

ACTING Administrator

TLChapman:fcc
1/11/57
cc to: Docket
Code 400
Admr. Read. File
Oper. Comm.
FT. REG. III
Messrs. G. L. DeMiff, Jr., USGS
T. H. Kiilsgaard, USGS

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

JAN 14 1957

Mr. W. M. Trower, Executive Officer
DMEA Field Team, Region III
221 New Customhouse
Denver 2, Colorado

Re: Docket No. 4585 - Manganese
Grain Processing Corporation
Jennie 3 et al. claims
Socorro County, New Mexico

Dear Mr. Trower:

The above docketed application for exploration assistance is being referred to your office for a field examination of the property.

Copies of memoranda dated January 3 and 7, 1957, by M. N. Nelson, Geological Survey, and G. L. DeHuff, Jr., Bureau of Mines, respectively, relating to the project are enclosed. Also enclosed are extra copies of the application for use of the Field Team.

It would be desirable to have assay reports and a specific exploration program with map showing the proposed work, but apparently the applicant has already made an appreciable payment for reports without obtaining definite information of the sort we usually require. Probably the easiest and quickest way to obtain the necessary information is to examine the property.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

APPROVED:

Frank D. Lamb

Member, Bureau of Mines

Thor H. Kiilsgaard

Member, Geological Survey

Enclosures

HLChapman:foc 1/11/57
cc to: Docket
Code 400
Admr. Asst. File
Oper. Coun.
FT. REG. III
Messrs. G. L. DeHuff, Jr., USBM
T. H. Kiilsgaard, USGS