UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
Region V
2908 Dallas Avenue South
Minneapolis 5, Minnesota

November 1[illegible], 1954

Mr. Albert Lowe
Route 3
Shullsburg, Wisconsin

Dear Mr. Lowe:

For your information, here is a copy of a certification to the Department of Interior Company, Room 1[illegible], 3[illegible] [illegible] St., Chicago, Illinois, that a discovery or development was made as a result of their exploration on the Lowe lease pursuant to [illegible] exploration contract [illegible]-317, dated June 13, 1952.

As owners of [illegible] of the lease, you [illegible] have executed landowner's subordination agreement on July 1[illegible], 1951.

Very truly yours,

[illegible]
Executive Officer
Field Agent
Region V

Enclosure

cc [illegible], Wash. (2)
Button
Stehlik
Broughton

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D. C.~~
Section V
2901 Colfax Avenue South
Minneapolis 8, Minnesota

November 1[illegible], 1954

Mr. Harold Howe
Route 3
Shullsburg, Wisconsin

Dear Mr. Howe:

For your information, here is a copy of a certification to the Mayor [illegible] Trade Mining Company, Box 16[illegible], [illegible] Street, [illegible], Illinois, that a discovery of development was made as a result of their exploration on the Howe leases pursuant to the exploration contract [illegible]-[illegible], dated June [illegible], 1[illegible].

In behalf of one of the leases, you will find Howe granted Landlord's Conservation Agreement on December [illegible], 1[illegible].

Very truly yours,

[illegible]
Executive Officer
Field Team
Section [illegible]

Enclosure

cc DMEA, Wash. (2)
Dutton
Stehlik
Broughton

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON, D.C.~~
Region V
2908 Colfax Avenue South
Minneapolis 8, Minnesota

September 7, 1954

Mr. James L. Mayer
Mayer & Thiede Mining Company
Room 1625
37 W. Van Buren Street
Chicago 5, Illinois

Dear Mr. Mayer:

Reference is made to the certificate of discovery pertinent to your Defense Minerals Exploration contract E-342.

Please be advised that any royalty payments which you might make in the future should be made payable to "Defense Minerals Exploration Administration" instead of to the "Treasurer of the United States".

Very truly yours,

A. B. MERIHAM
Executive Officer
Field Team
Region V

cc Dutton
Hill
Stehlik
Broughton

C O P Y

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

June 1, 1954

Mr. H. K. Geyer
Kopp & McKichan
Attorneys at Law
First National Bank Building
Platteville, Wisconsin

Re: Docket No. DMEA-2184 (Lead-Zinc)
Mayer & Thiede Mining Company
Rowe Leases
La Fayette County, Wisconsin
Contract No. Idm-E342

Dear Mr. Geyer:

This will acknowledge your letter of May 22 regarding the cited exploration project. I wish to thank you for advising us of the change of status outlined by you in your letter.

Sincerely yours,

C. O. Mittendorf
Administrator

C O P Y

KOPP & McKICHAN
Attorneys at Law
First National Bank Building
Platteville, Wisconsin

May 22, 1954

Mr. C. O. Mittendorf
Administrator
Defense Minerals Exploration Administration
Department of Interior
Washington 25, D. C.

Re: Docket No. DMEA-2184 (Lead-Zinc)
Mayer & Thiede Mining Company
Rowe Leases
LaFayette County, Wisconsin
Contract No. Idm-E342

Dear Mr. Mittendorf:

This is to advise that the Mayer & Thiede Mining Company has surrendered its leases which are the subject of this contract. To the best of our knowledge the land owners, Harold and Albert Rowe of Shullsburg, Wisconsin, now hold this land.

This Notice is being given to you in accordance with the request made in your letter of April 6th, 1954, in regard to this matter, that the Mayer & Thiede Mining Company notify you of any changes in ownership which might affect the Government's right to its percentage royalty under the discovery made under the Exploration Project Contract.

If you have any further questions about this matter will you kindly address them to the writer of this letter.

Very truly yours,

KOPP & McKICHAN

/s/ H. K. Geyer
H. K. Geyer

C O P Y

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

April 14, 1954

Mr. and Mrs. Albert Rowe
R.F.D. 3
Shullsburg, Wisconsin

Re: Docket No. DMEA-2184 (Lead-Zinc)
Mayer & Thiede Mining Company
Rowe Leases
La Fayette County, Wisconsin
Contract No. Idm-E342

Dear Mr. and Mrs. Rowe:

Enclosed is a copy of a Certification of Discovery or Development related to Exploration Project Contract No. Idm-E342, dated June 13, 1952, between the Mayer & Thiede Mining Company and the Government of the United States.

A copy of our letter to the Mayer & Thiede Mining Company which explains in detail the various matters pertaining to royalty payments is also enclosed.

Sincerely yours,

C. O. Mittendorf
Administrator

Enclosures 2

C O P Y

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

April 14, 1954

Mr. and Mrs. Harold Rowe
R.F.D. 3
Shullsburg, Wisconsin

Re: Docket No. DMEA-2184 (Lead-Zinc)
Mayer & Thiede Mining Company
Rowe Leases
La Fayette County, Wisconsin
Contract No. Idm-E342

Dear Mr. and Mrs. Rowe:

Enclosed is a copy of a Certification of Discovery or Development related to Exploration Project Contract No. Idm-E342, dated June 13, 1952, between the Mayer & Thiede Mining Company and the Government of the United States.

A copy of our letter to the Mayer & Thiede Mining Company which explains in detail the various matters pertaining to royalty payments is also enclosed.

Sincerely yours,

C. O. Mittendorf
Administrator

Enclosures 2

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D.C.~~
Region V
2908 Colfax Avenue South
Minneapolis 8, Minnesota

March 12, 1954

Memorandum

To: Operating Committee, Defense Minerals Exploration Administration, Washington, D. C.

From: Executive Officer, Field Team, Region V

Subject: Docket 2184, Contract D-342, Meyer and Thiede Mining Company

Here are the original and three copies of the Field Team's final geologic-engineering report on the subject project.

You will note that there is a recommendation that the project be certified because of some minable grade lead which was disclosed in one hole on the Rose property, which is contrary to our first notice to you that the project probably might not be certified.

A. B. NEEDHAM

Attachments

cc Dutton
Grosh
Broughton

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

Platteville, Wisconsin

TO : Carl E. Dutton

DATE: March 15, 1954

FROM : W. A. Broughton

SUBJECT: Final DMEA report, Mayer and Thiede Mining Company DMEA 2184 Idm 342.

Enclosed are 2 copies of the above report, one without illustrations, for your files.

WAB:mcw

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

FINAL GEOLOGICAL-ENGINEERING REPORT
BY FIELD TEAM REGION V

DOCKET NO. D.M.E.A. 2184
CONTRACT NO. Idm-342
COMMODITY: Zinc-Lead

Mayer and Thiede Mining Company
Lafayette County, Wisconsin

CONFIDENTIAL
COMPANY RELEASED

W. A. Grosh, Mining Engineer
U.S. Bureau of Mines
W. A. Broughton, Geologist
U.S. Geological Survey

March 9, 1954

MAR 15 1954

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Mayer and Thiede

Location:

The D.M.E.A. exploration program was conducted in Lafayette County, Wisconsin about four miles northeast of Shullsburg. The leased lands included in the contract area contained approximately 361 acres. Boundaries of the contract area are indicated on maps included with this report. Detailed descriptions of the leases are a part of the contract but a general description is as follows:

NW¼, N½ of SW¼, and N½ of NE¼ sec. 30
S½ of SE¼ of SE¼ sec. 19
A parcel in the NW¼ of sec. 29 containing 6 acres more or less
A parcel in the SW¼ of sec. 20 containing 5.6 acres more or less

All land in Township 2 North, Range 3 East, Lafayette County, Wisconsin.

Contract Provisions and Amendments:

Contract Idm E-342, dated January 13, 1952, between the U. S. Government and Mayer and Thiede Mining Company, a partnership, was entered into for the purpose of exploring for lead and zinc ores. The total amount of the contract was $10,000.00 to accomplish 5,000 feet of churn drilling. Government participation was 50 percent.

The work was to be performed in two stages. The first stage called for 3,000 feet of drilling at a maximum allowable cost of $1.60 per foot or a total of $4,800.00. Other allowable costs in Stage I were $450.00 for supervision at a maximum allowable cost of $0.15 per foot of hole, engineering and surveying service $210.00

at a maximum cost of $0.07 per foot, $360.00 for miscellaneous at a maximum allowable cost of $0.12 per foot of hole, and $540.00 for assaying at a maximum allowable cost of $0.06 per foot of hole completed. Total estimated cost for Stage I was $6,000.00.

Stage II provided for 2,000 additional feet of churn drilling upon the completion of Stage I. The total estimated cost for Stage II was $4,000.00 with the same maximum allowances per foot of hole for the various items listed in Stage I.

Stage I of the contract called for drilling 15 holes in three specified areas as indicated on a map included with the contract.

Five holes were to be drilled in the vicinity of the Rowe Lead Mine. Four of these were on a north-south cross section west of the mine and one to the northeast of the mine. Six holes were to be drilled in the vicinity of the Rowe Zinc Mine, three in an east-west section south of the mine and three in a north-south section west of the mine. The remaining four holes were to be drilled to the southeast of the Rowe Zinc Mine to establish continuity of ore in that area as shown by previous drilling.

Stage II, consisting of 2,000 feet of churn drilling, was to be completed if, in the estimation of the government, such additional drilling was warranted from the results of Stage I.

Amendment No. 1 dated October 1952 extended the starting and completion dates two months or to December 13, 1952 and August 13, 1953, respectively.

Amendment No. 2 dated February 16, 1953 further extended the starting and completion dates to March 1, 1953 and March 1, 1954.

The contract was again extended by Amendment No. 3 dated May 20, 1953, making the starting date June 1, 1953 and the completion date June 1, 1954.

Landlord's Subordination Agreement was obtained for all the land covered by the contract.

The contract was terminated before completion of the work by an agreement dated October 20, 1953.

Summary:

The operator failed to complete Stage I of the contract and has not submitted a final geological and engineering report to date. The only ore discovered was in hole R2 southwest of the Rowe Lead Mine (Judd Shaft). The 35 feet of 5.66 percent lead in the lower Drab and Gray horizons may be mined if the Rowe Lead Mine is ever reopened.

Drilling near the Rowe Zinc Mine only showed minor amounts of lead and zinc. Had Stage I been completed, it is very likely that ore would have been encountered in the area southeast of the Rowe Zinc Mine.

Certification:

Drilling under the contract disclosed mineable grade lead ore in hole R2 southwest of the Rowe lead shaft. All the drilling

called for under Stage I was not completed and the most favorable area for finding zinc ores was not explored.

Therefore, it is recommended that either the contract be certified or the operator be requested to refund the government funds advanced on the contract.

Possible Exploitation:

Because of the spotty irregular nature of the lead deposits in the upper horizon of this district, single holes showing lead should be considered with considerable caution. If the Rowe lead shaft should be reopened for the mining of lead, it is quite possible the ore indicated by this hole will be mined. These types of deposits are not suitable for large-scale mining but a small operation might have limited success.

There was no ore discovered or developed in the vicinity of the Rowe Zinc Shaft by the DMEA work. Ore known to exist in this vicinity prior to the DMEA contract could be mined under favorable economic conditions if the reserves were more firmly established and increased by further exploration.

Description of the Work:

Drilling under the contract started June 1, 1953 and the last hole drilled was completed July 23, 1953. Ten holes with an average depth of 156 feet were completed for a total of 1562.5 feet.

The holes were drilled with a churn drill using a six-inch chisel type bit. Normally the upper unconsolidated weathered material required casing. The usual procedure was to drill five feet and then bail the sludge with a flap-type valve bailer. The sludge was then dumped into a tub, thoroughly mixed and representative sample taken and placed in a pile on the ground for logging and assaying purposes. When an ore zone was reached, the sample interval was usually reduced to two and one-half feet. Only one drill rig was employed for the contract.

The first four holes were drilled on a north-south cross section west of the Rowe lead shaft. Hole R2 showed mineable grade lead ore. Hole R5 was drilled to the northeast of the shaft.

Holes R6, R7 and R8 were drilled south of the Rowe zinc shaft and showed only minor amounts of lead and zinc. A north-south cross section consisting of holes R9 and R10 was drilled east of the old Rowe Zinc Mine. This section was moved 100 feet east of the location stipulated in the contract because it was found that the mine workings extended farther than indicated on the old maps.

Drilling was discontinued July 23, 1953 upon completion of hole R10. The project was terminated by agreement October 20, 1953 before completion of Stage I of the contract.

Maps accompanying this report show the location of holes drilled and significant lead-zinc mineralization. A complete set of drill logs showing formations penetrated, estimated and assay values is included as Appendix A.

The operator's final geologic and engineering report has not been received to date.

Expenditures:

The following tabulation shows the essential items of expenditures incurred under the contract.

Total amount of contract	$ 10,000.00
Government share	5,000.00
Total approved expenditures	2,700.49
Government share of approved expenditures	1,350.24
Government share not expended	3,649.76

A disallowance of $66.76 was made on the June voucher for excess supervision and technical services costs. This amount is not included in the tabulation.

The operator was reimbursed on the basis of actual incurred and approved costs. The charges were distributed as follows:

Item	Approved Expense	Cost Per Foot
Contract drilling	$ 2,343.75	$ 1.500
Supervision	234.37	.150
Technical services	109.37	.070
Sampling and Analysis	13.00	.008
Total	$ 2,700.49	$ 1.728

No audit has been made of this contract. In view of the small expenditures made and the periodic examinations made by the

Final geologic report and results of drilling by the Mayer and Thiede Mining Company in the Rowe property, Lafayette County, Wisconsin

W. A. Broughton

U. S. Geological Survey

Docket no.: DMEA 2184
Contract no.: Idm-B342
Commodity: zinc-lead

Location of property

The Rowe property is about 3½ miles northeast of Shullsburg and 5½ miles southwest of Darlington, Lafayette County, Wisconsin (fig. 1). It includes the N½SW¼, the NW¼ except one acre for school, the W½SW¼NE¼, the NW¼NE¼, and that part of the NE¼NW¼ lying west of County Trunk E, sec. 30, T. 2 N., R. 3 E.; the S½SE¼SE¼ sec. 19, T. 2 N., R. 3 E.; that part of the NW¼NW¼ sec. 29, T. 2 N., R. 3 E., lying west of County Trunk E; and a tract described as follows: Beginning 9.98 chains south of the northwest corner of the SW¼SW¼ sec. 20, T. 2 N., R. 3 E., then 4.52 chains S. 42°20' E., then 4.41 chains S. 60°40' E., then 2.25 chains S. 45°15' E. to center of County Trunk E, then southwest along center of highway to south line of sec. 20, then west to the southwest corner of sec. 20, then north to place of beginning.

Occurrence of ore

Ore-bearing beds

Zinc and lead minerals in the Rowe property occur in the Galena, Decorah, and Platteville formations, all of Ordovician age (fig. 2).

Past production was mainly from the lower part of the Galena with a small amount of ore being mined from the upper part of the Decorah (pl. 1: Rowe zinc mine and Rowe lead mine). Drilling in 1946 and 1947 by the Puritan Mining Co. and in 1947 by the U. S. Bureau of Mines showed zinc ore (containing galena) in the Decorah and the upper part of the Platteville (fig. 2) as well as in the lower part of the Galena. This area of drilling is south of the Rowe zinc mine and west of the school lot (pl. 1). Later drilling by J. D. Judd & Son in the vicinity of the Rowe lead mine (pl. 1) showed lead ore (containing sphalerite) in the lower part of the Galena and the upper part of the Decorah (fig. 2).

Miners' terms subdividing the formations into members are used in this report (fig. 2). The oldest member of the Galena that occurs in the Rowe property is the "drab." The Decorah is divided from top to bottom into the "gray," "blue," "oil rock," and "clay bed." The Platteville is similarly divided into the "glass rock" and the "Trenton."

Geologic structure

Ordovician rocks in the vicinity of the Rowe property have been gently folded into anticlines and synclines that trend in general northwesterly and northeasterly directions (pl. 1).

The zinc ore bodies in the southwestern Wisconsin mining area frequently occur on the limbs of synclines in steeply inclined mineralized fractures called "pitches." The pitches are reverse faults roughly paralleling synclinal trends and may develop on both limbs of the synclines. They are inclined away from each other on opposite limbs and may extend from the lower part of the "drab" through the "Trenton." Generally there is a major outside pitch with minor parallel inside

pitches. The pitches may terminate in and be offset by "flats," which are nearly horizontal bedding-plane openings usually on the syncline side of the major pitch. Individual pitches and flats range in thickness from a fraction of an inch to several feet. Thin pitches and flats may be closely spaced, constituting a mineable ore body. Major flats may occur at several stratigraphic horizons such as the "Trenton"-"glass rock" contact, the "oil rock"-"blue" contact, and the "gray"-"drab" contact. Besides the pitches and flats, ore minerals in major disseminations may occur in several stratigraphic zones such as the upper "Trenton," lower "glass rock," "clay bed," "oil rock," "blue"-lower "gray," and cherty "drab."

Minor lead ore may occur in pitches and flats within the Decorah and the lower part of the Galena. However, major lead ore occurs as nearly vertical veins ("crevices") in the lower part of the Galena and in the upper part of the Decorah. The vertical veins generally occur in groups of several parallel crevices, constituting "ranges" that commonly parallel the anticlinal trends. Individual crevice veins are normally one-half inch to 3 inches wide; but wider ore shoots, in "openings," are commonly at several stratigraphic horizons, especially at crevice intersections.

The ore in the Rowe lead mine is controlled by east-west crevices, southwestward-trending crevices, and east-west pitches (pl. 1). The Rowe zinc mine is on a structural high and the ore is probably controlled by east-west crevices. The ore indicated by drilling south of the Rowe zinc mine and west of the school lot is on a northwestward-trending syncline and appears to be controlled by minor crossing folds.

Character of ore

Ore minerals in the crevices and pitches and associated flats down to the middle of the "gray" are chiefly medium- to coarse-grained galena with minor medium- to coarse-grained sphalerite. Above the water table the sphalerite has been largely converted to smithsonite. Below the middle of the "gray" the ore minerals in the pitches and flats are medium- to coarse-grained sphalerite and minor medium- to coarse-grained galena. Some of the sphalerite and galena probably occurs as fine- to medium-grained disseminations. The gangue, other than rock, is chiefly marcasite, pyrite, and calcite.

Exploration

Prior to DMEA contract

The Puritan Mining Company, in 1946 and 1947, drilled numerous holes (pl. 1: drill holes 1-12, 16, 17, 19, 21-26, 28-30, 32-54, and 56) in the vicinity of the Rowe zinc mine and west of the school lot. Eleven of these holes penetrated probable ore-bearing ground but failed to indicate a mineable ore body. The U. S. Bureau of Mines, in 1947, drilled four holes (US1-US4) in this same area; hole US1 cut material of ore grade. J. D. Judd & Son later drilled numerous holes (pl. 1: drill holes J1-J3, J5-J25, J27, J30, J35, J38) near the Rowe lead mine, and many of these holes indicated the presence of lead ore.

DMEA contract drilling terms

On June 13, 1952, DMEA Contract Idm E-342 was signed with the Mayer and Thiede Mining Co. Drilling was to begin within 120 days of this date and was to be completed by June 13, 1953. According to Exhibit "A" of the contract the exploration was to consist of two stages as follows:

"Stage I shall consist of 15 churn drill holes having an aggregate length of 3,000 feet and drilled at locations and steps as follows:

"1. Drill five holes in the Rowe lead mine 'area A' at approximately the locations indicated by holes Nos. 1-5 inclusive.

"2. Drill six holes in the Rowe zinc mine 'area B-C' at approximately the locations indicated by holes Nos. 6-11 inclusive.

"3. Drill four holes in 'area D' south of the Rowe zinc mine area at approximately the locations indicated by holes Nos. 12-15 inclusive ...

"If in the estimation of the Government, the results of the initial drilling of steps 1-3 prove further drilling is warranted, to delineate ore trends in the area, additional drilling described in Stage II shall be performed.

"Stage II shall consist of churn drilling an aggregate of 2,000 feet of hole at locations and to depths to be determined to the satisfaction of the Government."

Chronology of amendments to contract

September 25, 1952. The Mayer and Thiede Mining Co. requested 60-day extensions of the starting and finishing dates.

October 13, 1952. Amendment No. 1 was issued, extending the starting date to within 180 days of June 13, 1952, and the completion date to August 13, 1953.

February 12, 1953. The mining company requested further 60-day extensions of starting and completion dates.

February 16, 1943. Amendment No. 2 extended the starting date to March 1, 1953, and the completion date to March 1, 1954.

May 11, 1953. The DMEA field team notified the Mayer and Thiede Mining Co. that the contract was terminated because exploration had not started by March 1, 1953, the date set forth in Amendment No. 2.

May 15, 1953. The Mayer and Thiede Mining Co. requested reconsideration of notice of termination and asked for further extensions of starting and finishing dates.

May 20, 1953. Amendment No. 3 extended the starting date to June 1, 1953, and the completion date to June 1, 1954.

Drilling under DMEA contract

The mining company began exploration on June 1, 1953. Required holes R1-R5 were drilled near the Rowe lead mine and required hole R6 was drilled near the Rowe zinc mine during June (pl. 1). Required holes R7-R10 were drilled near the Rowe zinc mine in July. No exploration was done during August, September, and October.

The Mayer and Thiede Mining Co. in October 1953 requested that the exploration project be terminated. The government concurred and the project was terminated by mutual agreement. However, the most potential part

of the area was not explored, namely that part to be explored by step 3, " ... four holes in 'area D.' south of the Rowe zinc mine area at approximately the locations indicated by holes Nos. 12-15 inclusive ... " (Exhibit A of the exploration contract).

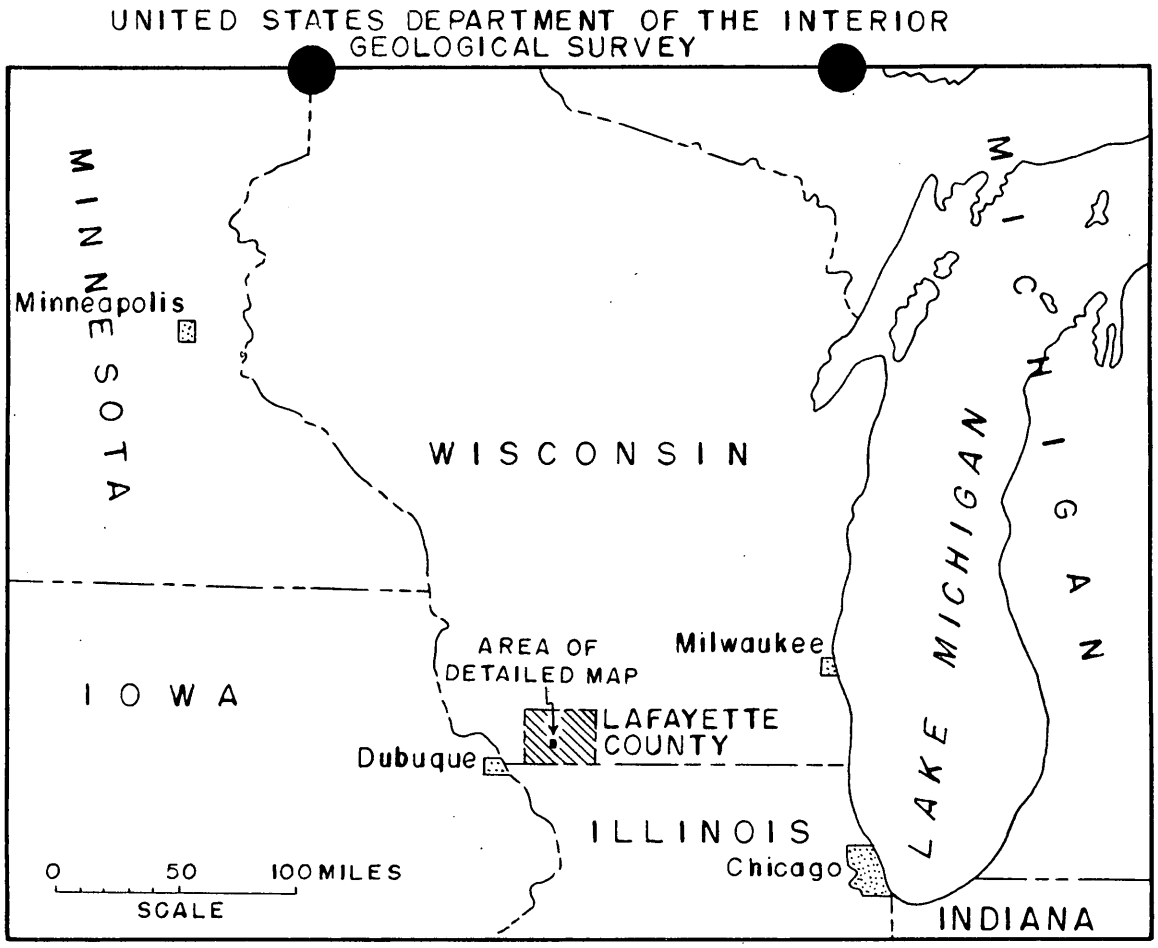
Results of exploration

One hole (R2) of the ten drilled by the Mayer and Thiede Mining Co. penetrated rock of ore grade (pl. 1). This hole showed 35 feet of 5.66 percent lead from the lower beds of the "drab" through the "gray". It is impractical to estimate tonnage of lead ore from one drill hole. However, it is possible that further drilling in the vicinity of R2 might indicate considerable lead ore.

Recommendations

It is the opinion of the reporting geologist that drilling by the Mayer and Thiede Mining Co., with DMEA assistance, discovered lead ore in one of ten holes drilled in the Rowe property. Thus it is recommended that the exploration be certified as a discovery. Furthermore, considering the history of the exploration project, it is the opinion of the reporting geologist that the Mayer and Thiede Mining Co. failed to live up to the terms of the exploration contract by not drilling proposed drill holes 11-15 (Exhibit A of the exploration contract). Proposed drill holes 12-15 would have partly explored the most potential zinc ore area of the Rowe property. The exploration program was terminated because the mining

company was apparently no longer interested in developing a mineable ore body. However, the DMEA exploration contract had been granted on the assumption that the mining company was sincerely interested in discovering and developing ore. Thus it is recommended that the Mayer and Thiede Mining Co. be required to refund the Government's paid share of the exploration costs of the uncompleted exploration program.



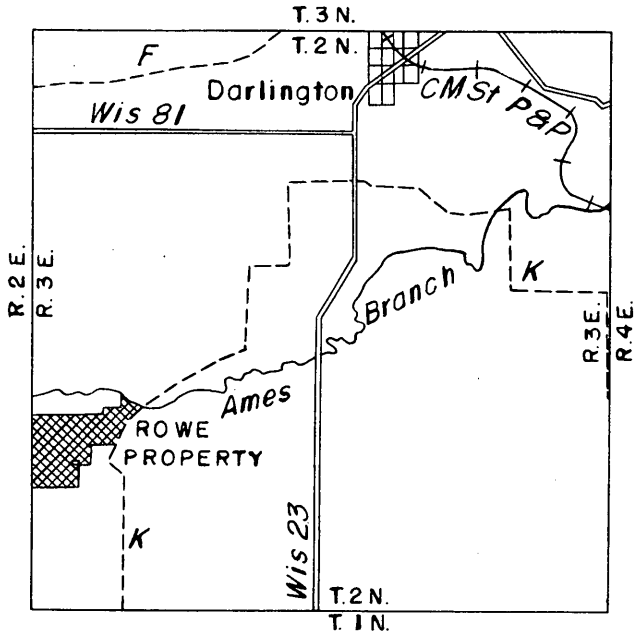


Figure 1. Index maps showing location of the Rowe property, leased by Mayer and Thiede Mining Company, Lafayette County, Wisconsin.

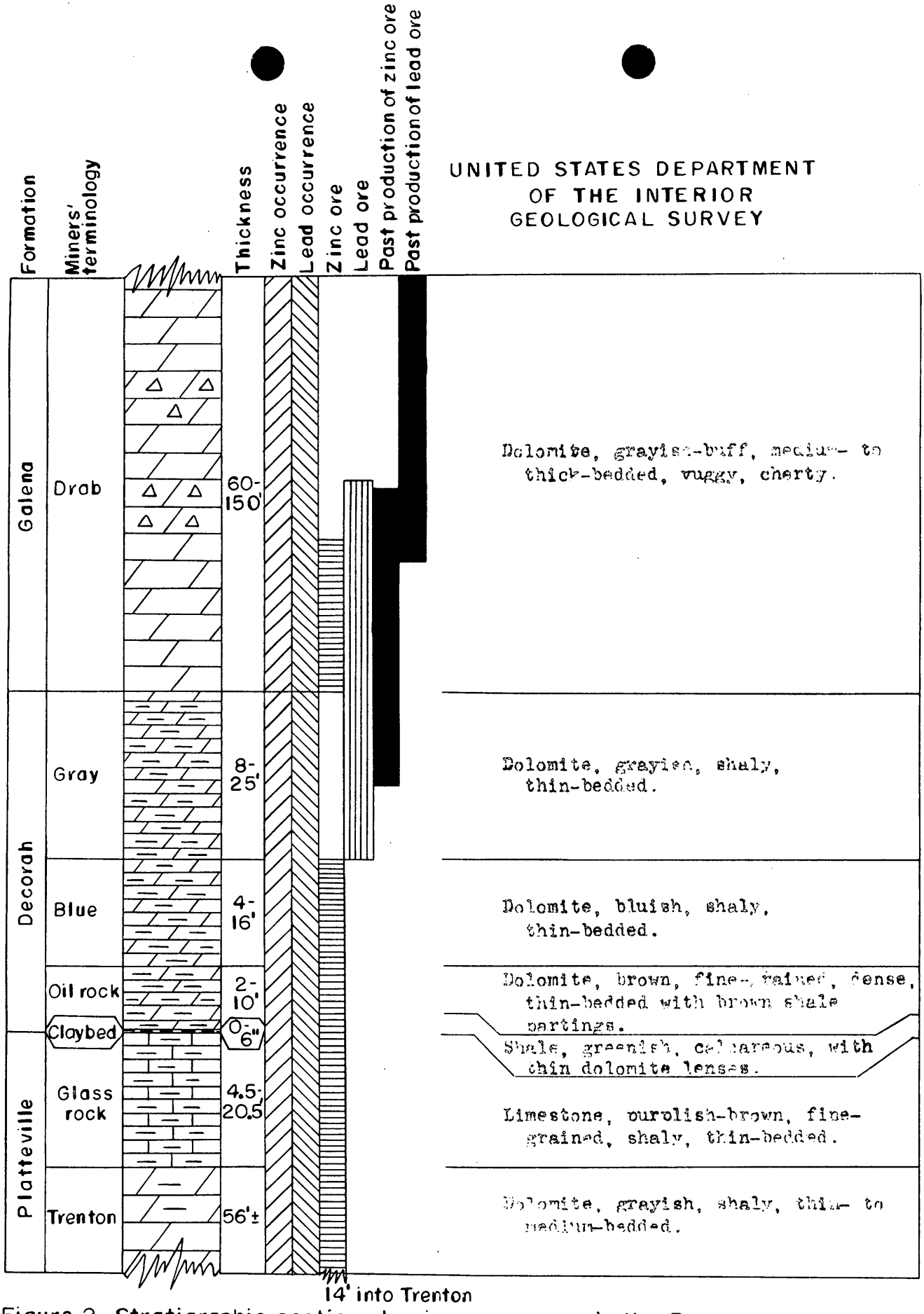


Figure 2. Stratigraphic section, showing ore zones, in the Rowe property, Lafayette County, Wisconsin.

Appendix A

Drill Hole Logs and Assays

Lafayette County
S[illegible] Ref. 223

~~Serial No. 89~~
Hole No. R1
Collar Elevation: 949.1'
Depth of Hole: 138'
Location: Rowe

Date completed: 6/6/53
Drilled by: Mayer & Thiede, DMA
Logged by: Broughton, U.S.G.S.
Type of Drilling: Churn

Depth From	Depth To	Lithology
0	10	Clay
10	15	Clay & Drab
15	99	Drab
99	100	Gray
100	110	Gray
110	122	Blue
122	127	Oil
127	135	Glass
135	138	Trenton

Water table: 50'

Depth From	Depth To	Remarks and Estimated Analyses Zn	Fe	Pb
0	15		Shine	
15	20		2.0	
20	35		1.0	
35	100		Shine	
100	110		1.0	Shine
110	115		.5	Shine
115	122		1.0	Shine
122	124		8.0	Shine
124	126		2.0	Shine
126	128		1.0	Shine
128	132		.5	Shine
132	134		Shine	Shine
134	136	Shine	.5	Shine
136	138		Shine	Shine

Oxidized 0 - 100'
Slightly oxidized 100' - 138'

~~Serial No. 90~~
Hole No. R2
Collar Elevation: 944.0'
Depth of Hole: 140'
Location: Rowe

Lafayette County
~~Sec. Ref. 223~~

Date completed: 6/10/53
Drilled by: Mayer & Thiede, DMA
Logged by: Broughton, U.S.G.S.
Type of Drilling: Churn

Depth From	Depth To	Lithology
0	10	Clay
10	15	Clay & Drab
15	90	Drab
90	105	Gray
105	113	Blue
113	122½	Oil
122½	137	Glass
137	140	Trenton

Water table: 45'

Depth From	Depth To	Remarks and Estimated Analyses Zn	Fe	Pb
0	65		Shine	
65	70		1.0	
70	75		4.0	1.5
75	77½		5.0	8.0
77½	80		5.0	7.0
80	90		2.0	3.0
90	95		2.0	2.0
95	100		2.0	1.5
100	105		1.5	2.0
105	110		1.5	1.0
110	112½		1.5	.5
112½	115		4.0	.25
115	117½		2.0	.25
117½	120		2.0	Shine
120	122½		Shine	Shine
122½	130		1.0	Shine
130	140		Shine	Shine

Oxidized 0 - 90'
Slightly oxidized 90' - 140'

Depth From	Depth To	Assays Zn	Fe	Pb
70	75			4.15
75	77½			13.70
77½	80			8.25
80	90			7.35
90	95			4.95
95	100			2.60
100	105			2.30

Lafayette County
~~Loc. Ref. 223~~

~~Serial No. 91~~
Hole No. R3
Collar Elevation: 938.0'
Depth of Hole: 135'
Location: Rowe

Date completed: 6/12/53
Drilled by: Mayer & Thiede, DMA
Logged by: Broughton, U.S.G.S.
Type of Drilling: Churn

Depth From	Depth To	Lithology
0	15	Clay
15	30	Clay & Drab
30	87½	Drab
87½	100	Gray
100	110	Blue
110	116	Oil
116	132	Glass
132	135	Trenton

Water table: 40'

Depth From	Depth To	Remarks and Estimated Analyses Zn	Fe	Pb
15	35		Shine	
35	60		Shine	Shine
60	65		1.0	
65	70		.5	
70	80		1.0	
80	90		2.0	
90	95		1.0	
95	102½		2.0	Shine
102½	105		2.0	
105	107½		1.0	
107½	110		2.0	Shine
110	112½		1.0	Shine
112½	115	Shine	1.0	Shine
115	117½		Shine	Shine
117½	122½	Shine	.5	Shine
122½	130		Shine	Shine
130	132½		Shine	Shine +
132½	135		Shine	Shine

Oxidized 0 - 90'
Slightly oxidized 90' - 100'

~~Serial No. 92~~
Hole No. R4
Collar Elevation: 949.3'
Depth of Hole: 142'
Location: Rowe

Lafayette County
~~Sec. Ref. 223~~

Date completed: 6/16/53
Drilled by: Mayer & Thiede, DMA
Logged by: Broughton, U.S.G.S.
Type of Drilling: Churn

Depth From	Depth To	Lithology
0	5	Clay
5	10	Clay & Drab
10	100	Drab
100	111	Gray
111	125	Blue
125	127½	Oil
127½	140	Glass
140	142	Trenton

Water table: 35'

Depth From	Depth To	Remarks and Estimated Analyses Zn	Fe	Pb
10	25		Shine	
30	40		Shine	
65	70		Shine	Shine
70	75		Shine	
75	80		.5	Shine
80	90		10.0	.5
90	92½		10.0	.75
92½	95		20.0	.5
95	100		15.0	.5
100	102½		5.0	1.5
102½	107½		4.0	.25
107½	110		5.0	Shine
110	112½		5.0	.25
112½	122½		5.0	Shine
122½	125		3.0	Shine
125	135		2.0	Shine
135	140		2.0	
140	142		2.0	Shine

Oxidized to 105'
Slightly oxidized 105 - 142

Depth From	Depth To	Assays Zn	Fe	Pb
95	97½			1.05
100	102½			1.20

~~Serial No. 93~~
Hole No. R5
Collar Elevation: 952.7'
Depth of Hole: 150'
Location: Rowe

Lafayette County
~~Loc. Ref. 223~~

Date completed: 6/18/53
Drilled by: Mayer & Thiede, DMA
Logged by: Broughton, U.S.G.S.
Type of Drilling: Churn

Depth From	Depth To	Lithology
0	5	Clay
5	10	Clay & Drab
10	105	Drab
105	113	Gray
113	123	Blue
123	130	Oil
130	146	Glass
146	150	Trenton

Water table: 55'

Depth From	Depth To	Remarks and Estimated Analyses Zn	Fe	Pb
10	15		1.0	
15	100		Shine	
100	110		Shine	Shine
110	132½		2.0	Shine
132½	135		1.0	Shine
135	150		Shine	Shine

Oxidized 0 - 110'
Slightly oxidized 110' - 150'

~~Serial No. 94~~
Hole No. R6
Collar Elevation: 996.1'
Depth of Hole: 182½'
Location: Rowe

Lafayette County
~~Sec. Ref. 223~~

Date completed: 6/23/53
Drilled by: Mayer & Thiede, DMA
Logged by: Broughton, U.S.G.S.
Type of Drilling: Churn

Depth From	Depth To	Lithology
0	5	Clay
5	10	Clay & Drab
10	135	Drab
135	148	Gray
148	156	Blue
156	161	Oil
161	179	Glass
179	182½	Trenton

Water table: 95'

Depth From	Depth To	Remarks and Estimated Analyses Zn	Fe	Pb
5	45		Shine	
45	60		1.0	
60	65		Shine	
65	70		Shine	Shine
70	80		Shine	
80	85		.5	
85	115		Shine	
115	152½		Shine	Shine
152½	155		.5	
155	157½	Shine	1.0	
157½	160		1.0	
160	161		1.0	Shine
161	165		.5	Shine
165	167½		Shine	Shine
167½	182½		Shine	

Oxidized 0 - 140
Slightly oxidized 140 - 182½

Lafayette County
~~Sec. Ref. 223~~

~~Serial No. 95~~
Hole No. R7
Collar Elevation: 994.9'
Depth of Hole: 180'
Location: Rowe

Date completed: 7/11/53
Drilled by: Mayer & Thiede, DMA
Logged by: Broughton, U.S.G.S.
Type of Drilling: Churn

Depth From	Depth To	Lithology
0	5	Clay & Drab
5	134	Drab
134	148	Gray
148	154	Blue
154	161	Oil
161	177	Glass
177	180	Trenton

Water table: 95'

Depth From	Depth To	Remarks and Estimated Analyses Zn	Fe	Pb
0	50		Shine	
50	55		Shine	Shine
55	90		Shine	
90	95		.5	
95	125		Shine	
125	155		Shine	Shine
155	157½	Shine	Shine	Shine
157½	162½	Shine	.5	Shine
162½	165	Shine	Shine	Shine
165	180		Shine	Shine

Oxidized 0 - 125'
Slightly oxidized 125' - 180'

~~Serial No. 96~~
Hole No. R8
Collar Elevation: 993.2'
Depth of Hole: 175'
Location: Rowe

Lafayette County
~~Sec. Ref. 223~~

Date completed: 7/15/53
Drilled by: Mayer & Thiede, DMA
Logged by: Broughton, U.S.G.S.
Type of Drilling: Churn

Depth From	Depth To	Lithology
0	5	Clay & Drab
5	127½	Drab
127½	143	Gray
143	148	Blue
148	153	Oil
153	172½	Glass
172½	175	Trenton

Water table: 94'

Depth From	Depth To	Remarks and Estimated Analyses Zn	Fe	Pb
5	15		.25	
15	25		.5	
25	50		.25	
50	80		Shine	
80	85		.25	
85	115		Shine	
115	120		.25	Shine
120	122½		.25	.5
122½	130	Shine	.5	.25
130	140		Shine	Shine
140	145	Shine	.25	Shine
145	150	Shine	Shine	Shine
150	152½		.25	Shine
152½	157½	Shine	Shine	Shine
157½	170		Shine	Shine
170	175		.25	

Oxidized 0 - 127½
Slightly oxidized 127½' - 175

Depth From	Depth To	Assays Zn	Fe	Pb
115	120	0.40		0.05
120	122½	0.45		0.35

~~Serial No. 97~~
Hole No. R9
Collar Elevation: 977.8'
Depth of Hole: 160'
Location: Rowe

Lafayette County
~~Sec. Ref. 223~~

Date completed: 7/18/53
Drilled by: Mayer & Thiede, DMA
Logged by: Broughton, U.S.G.S.
Type of Drilling: Churn

Depth From	Depth To	Lithology
0	10	Clay
10	15	Clay & Drab
15	120	Drab
120	129	Gray
129	132½	Blue
132½	137½	Oil
137½	158	Glass
158	160	Trenton

Water table: 75'

Depth From	Depth To	Remarks and Estimated Analyses Zn	Fe	Pb
15	20		1.0	
20	25		2.0	
25	30		Shine	Shine
30	35		.5	Shine
35	40		Shine	
40	55		.25	
55	65		Shine	
65	70		.25	
70	90		Shine	
105	115		4.0	Shine
115	125		.5	Shine
125	127½		1.0	Shine
127½	130		4.0	Shine
130	132½		2.0	Shine
132½	135		1.0	Shine
135	155		Shine	Shine
155	160		Shine	

Oxidized 0 - 137½; 142½ - 160
Slightly oxidized 137½ - 142½

~~Serial No. 98~~
Hole No. R10
Collar Elevation: 979.1'
Depth of Hole: 160'
Location: Rowe

Lafayette County
~~Sec. Ref. 223~~

Date completed: 7/23/53
Drilled by: Mayer & Thiede, DMA
Logged by: Broughton, U.S.G.S.
Type of Drilling: Churn

Depth From	Depth To	Lithology
0	8	Clay
8	114	Drab
114	129	Gray
129	137	Blue
137	140	Oil
140	159	Glass
159	160	Trenton

Water table: 80-85'

Depth From	Depth To	Remarks and Estimated Analyses Zn	Fe	Pb
8	30		Shine	
30	35		Shine	Shine
35	45		Shine	
45	55		.5	
55	90		Shine	
95	105			Shine
110	115		Shine	
115	130		Shine	Shine
130	132½		1.0	Shine
132½	135		Shine	Shine
135	137½		1.0	Shine
137½	140		2.0	Shine
140	142½		1.0	Shine
142½	145		.5	Shine
145	160		Shine	Shine

Oxidized 0 - 115'
Slightly oxidized 115 - 160'

Geologic report on the Rowe mine,

Lafayette County, Wisconsin

Location of property

The Rowe property includes the N½SW¼, the NW¼ except one acre for school, the W½SW¼NE¼, the NW¼NE¼, and that part of the NE¼NW¼ lying west of County Trunk E, sec. 30, T. 2 N., R. 3 E.; the S½SW¼SW¼ sec. 19, T. 2 N., R. 3 E.; that part of the NW¼NW¼ sec. 29, T. 2 N., R. 3 E., lying west of County Trunk E; and a tract described as follows: beginning 9.98 chains south of the northwest corner of the SW¼SW¼ sec. 20, T. 2 N., R. 3 E., then 4.52 chains S. 42°20' E., then 4.41 chains S. 60°40' E., then 2.25 chains S. 45°15' E. to center of County Trunk E, then southwest along center of highway to south line of sec. 20, then west to the southwest corner of sec. 20, then north to place of beginning. The property is about 3½ miles northeast of Shullsburg, Wisconsin (fig. 1).

Ore-bearing beds

Zinc and lead mineralization in the vicinity of the Rowe mine occurs in the Galena, Decorah, and Platteville formations, all of Ordovician age (fig. 2). Past production was mainly from the lower part of the Galena with a small amount possibly having been mined from the upper part of the Decorah. At present a small amount of lead ore (containing sphalerite) is being mined from the lower Galena (pl. 1, Rowe lead mine). Drilling in 1946 and 1947 by the Puritan Mining Co.

and in 1947 by the U. S. Bureau of Mines showed zinc and lead ore in the Decorah formation and the upper part of the Platteville formation as well as in the lower part of the Galena.

Miners' terms, subdividing the formations into members, are used in this report (fig. 2). The oldest member of the Galena formation is the "drab". The Decorah formation is divided, from top to bottom, into the "gray", "blue", "oil rock", and "clay bed". The Platteville formation consists of the "glass rock" and the underlying "Trenton".

Geologic structure

Geologic structure at the top of the oil rock as mapped from drill records shows a syncline trending southeasterly through drill holes 22, 38, 45, and 50. The old Rowe zinc mine possibly is on a parallel anticline although information here is meager (pl. 1).

In the southwestern Wisconsin mining district the limbs of synclines may contain steeply inclined mineralized fractures, called "pitches", and are favorable areas for prospecting. The pitches are steeply dipping reverse faults roughly paralleling the trend of the synclines, are inclined away from each other, may develop on both limbs of the synclines, and may extend from the lower "drab" into the top of the "Trenton". Usually there is a major outside pitch with minor parallel inside pitches. The pitches may terminate in and be offset by flats, which are nearly horizontal mineralized bedding-plane openings on the syncline side of the major pitch. Individual pitches and flats range in thickness from

a fraction of an inch to several feet. Thin pitches and flats may be closely spaced, constituting a mineable ore body. Nearly vertical mineralized fractures, called "crevices", may develop in the "drab" and the upper members of the Decorah formation. They are similar to the pitches except that they may overlie either synclines or anticlines. They commonly trend north-south, east-west, northeast, or northwest. Several relatively closely spaced and parallel crevices constitute a "range".

The old Rowe zinc mine is reported to have been on an east-west crevice in the bottom of the "drab" and the top of the "gray". Zinc mineralization was largely in horizontal flats and bedding disseminations out from the crevices. Ore is reported in the south and east headings (pl. 1). The shape of the south workings suggests a second crevice parallel to the main Rowe crevice. Lead mineralization was largely in the east-west crevice and associated small oblique crevices.

Production from the Rowe zinc mine has not been large; but the Rodham mine, about half a mile northwest of the Rowe, is one of the past important producers in the district. The Rodham ore body was similar to that of the Rowe, being confined to the lower "drab" and upper "gray" and consisting of numerous major east-west and minor associated oblique lead-bearing crevices with horizontal zinc-bearing flats and disseminations extending as much as 25 feet from crevices.

The Rowe lead mine, now being operated by the applicant, is open to about the base of the "drab". A flooded winze, with some drifting, extends into the "blue". The north stope exposes the intersection of

a strong east-west crevice dipping about 85° S. and a minor northeast vertical crevice. The south stope shows a rather strong pitch striking about N. 65° W. and dipping about 65° SW. The area between the north and south stopes contains several minor pitches and flats not more than one inch in thickness.

Character of the ore

Ore mineralization in the crevices and pitches down to the upper part of the "gray" is chiefly coarse-grained galena with minor medium- to coarse-grained sphalerite. Ore mineralization in the associated flats and disseminations is chiefly medium to coarse sphalerite with some galena. Above the water table the sphalerite has been largely converted to smithsonite. The gangue, other than rock, is marcasite, pyrite, and calcite below the water table and ocherous clay above the water table. Thus, beneficiation of the ore is a rather simple process.

Exploration

Exploration for ore in this district is customarily done by churn drilling. Considerable drilling has been done on the Rowe property. Plate 1 shows the approximate locations of known drill holes and whether or not they encountered ore.

The applicant primarily desires to explore for the extension of the ore indicated by the drilling south and southeast of the Rowe zinc mine (pl. 1). His drilling proposal is:

Plan 1. Hole A (pl. 1) will be drilled. If this hole indicates ore, the drill will be moved about 400 feet southeast, and holes B, C, and D will be drilled about 50 feet apart as a cross section. More holes may be required on this cross section, depending on information obtained from B, C, and D. If this cross section indicates ore, then holes E, F, and G will be drilled on the ore trend at about 100-foot intervals; another cross section will be drilled where it is necessary in the opinion of the operator and the DMEA field team. This system of drilling will be continued to the southeast so long as it is possible to follow the ore.

Plan 2. Holes H and I (pl. 1) will be drilled if plan 1 does not find ore. If either of these holes indicates ore, an attempt will be made to determine the extent of the ore body by following a plan of drilling similar to that outlined in plan 1.

Plan 3. Holes J and K (pl. 1) will be drilled if plan 2 does not find ore. If either of these holes indicates ore, the trend will be prospected to the northwest by following a plan of drilling similar to that outlined in plan 1.

Plan 4. Holes L, M, and N (pl. 1) will be drilled if plan 3 does not find ore. Ore is reported to have been left in the south and east faces of the Rowe zinc mine, and if these holes indicate such ore, an attempt will be made to find the extent of the ore to the south or east by following a plan of drilling similar to that outlined in plan 1.

Plan 5. Holes O, P, Q, and R, S, T (pl. 1) will be drilled as two cross sections if plan 4 does not find ore. These sections cross the east-west crevice trend between the Rowe zinc mine and the present Rowe lead mine. These cross sections are located approximately where ore indications have been reported by the land owner. Any ore indicated by these holes will be traced out by a plan of drilling similar to that outlined in plan 1.

Plan 6. Proposed holes U, V, and W (pl. 1) are chiefly for structural information. However, an attempt will be made to trace out any ore that they might indicate.

If the exploration program is carried through plan 6, any additional holes should be located with the approval of the DMEA field team after all accumulated information has been evaluated. All holes should be drilled into the top of the "Trenton" inasmuch as the earlier drilling in this area indicated favorable ore conditions at this horizon.

Recommendations

It is recommended that the above proposed drilling be executed. If the applicant receives DMEA financial assistance, he should be required to furnish adequate technical supervision for carrying out an intelligent exploration program. At present he is not known to have anyone in his employ capable of doing this.

The original map submitted by the applicant is inaccurate. Plate 1 of this report was made up by compiling data from the Puritan Mining Company, the U. S. Geological Survey, and the U. S. Bureau of Mines. It is probably the most accurate map of the area now available, but it should not be used as a base for an exploration or development program because drill holes are not located with sufficient accuracy. The applicant should not be permitted to begin DMEA supported drilling until he has accurately mapped ground locations of old drill holes with reference to shafts, fences, and roads.

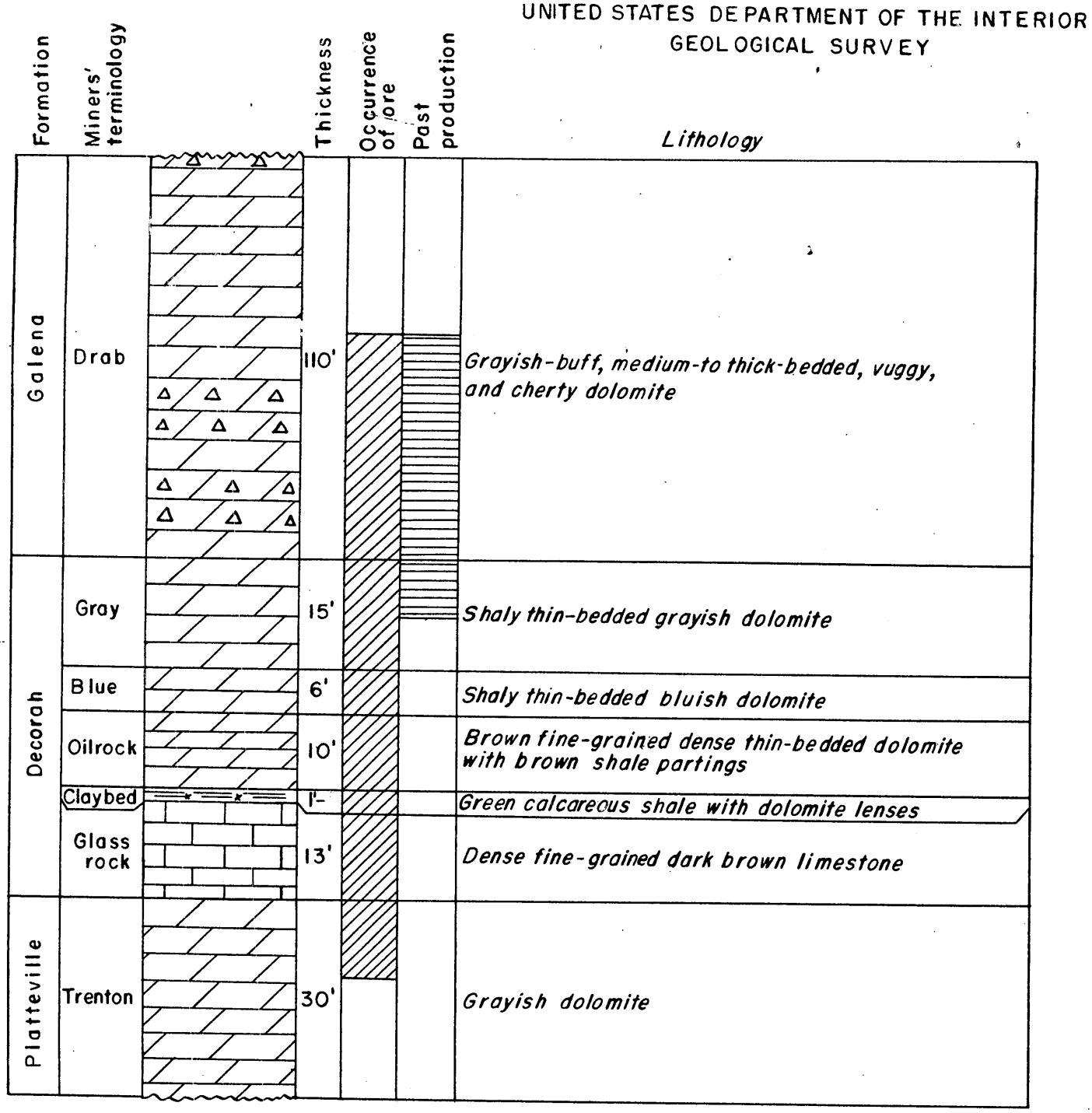
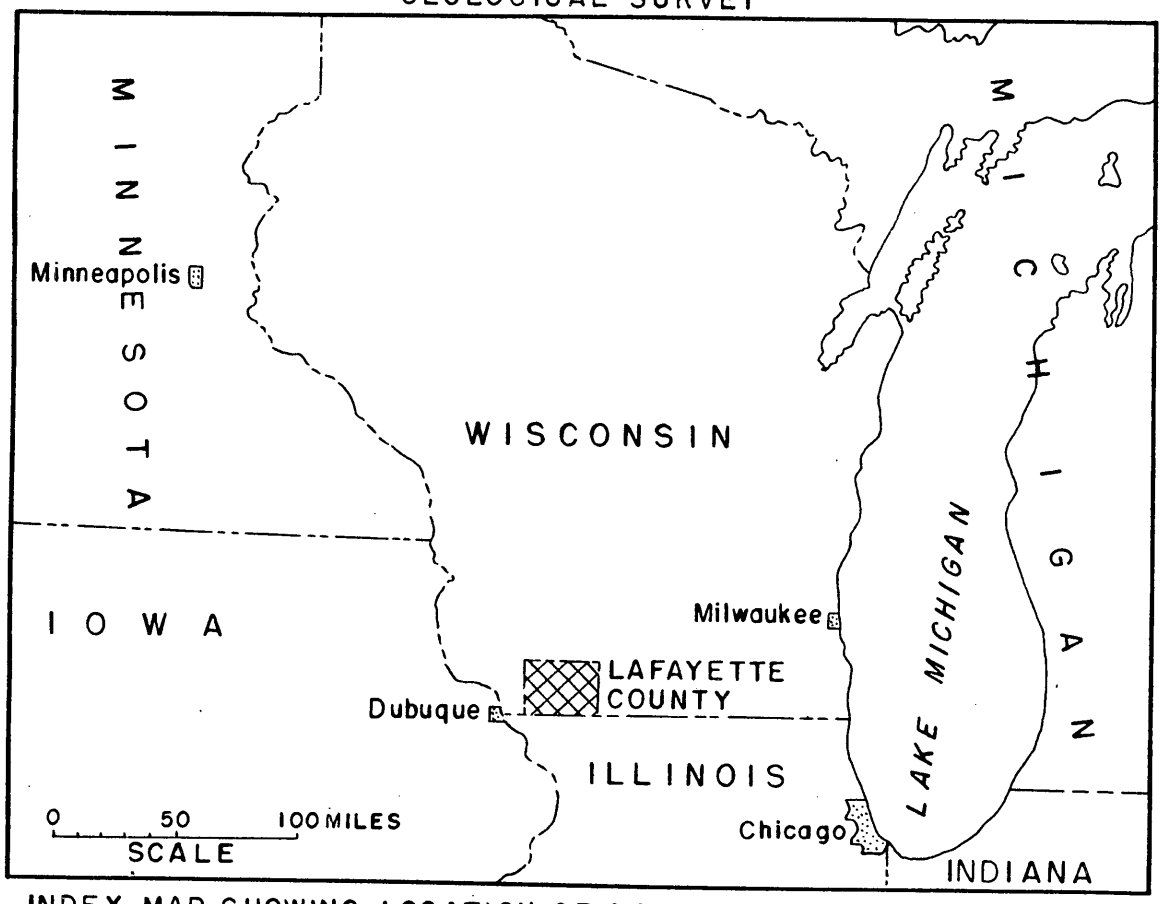


Figure 2. Stratigraphic section of the Rowe mine area, Lafayette County, Wisconsin, showing indicated ore zone and zone of past production.

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



INDEX MAP SHOWING LOCATION OF LAFAYETTE COUNTY, WISCONSIN

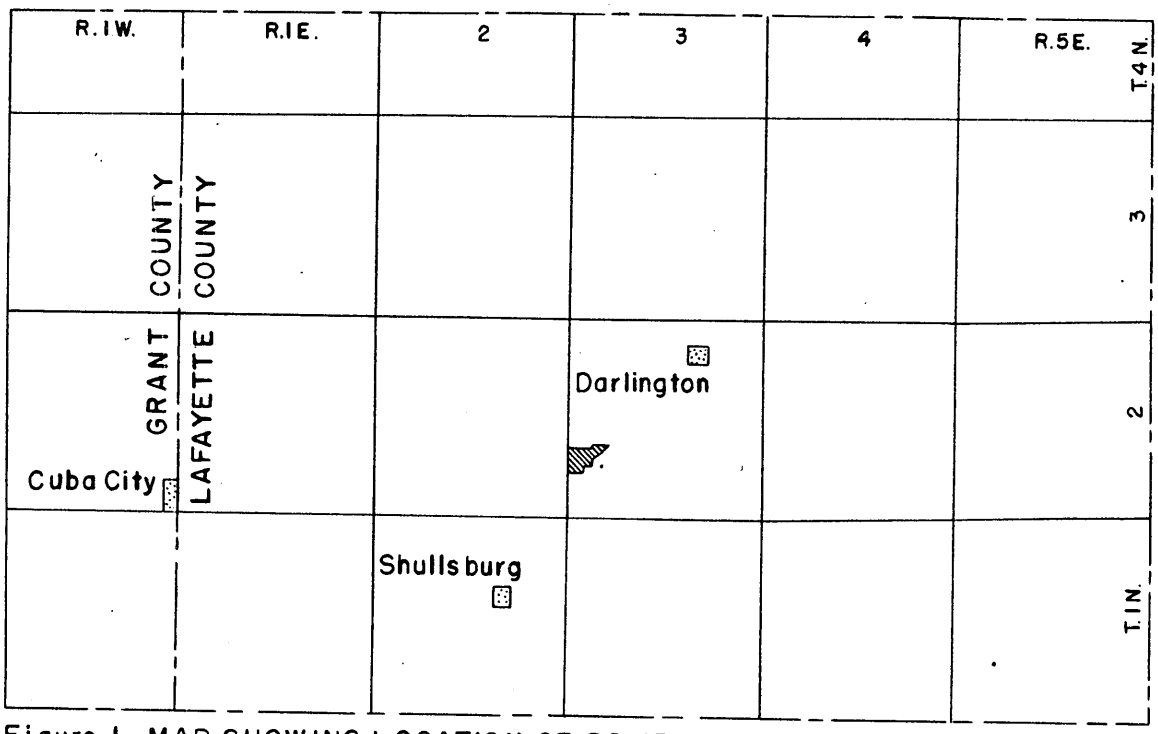


Figure 1. MAP SHOWING LOCATION OF ROWE MINE AREA

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
Region V
2908 Colfax Avenue South
Minneapolis 8, Minnesota

November 2, 1953

Memorandum

To: Operating Committee, Defense Minerals Exploration Administration, Washington, D. C.

From: Executive Officer, Field Team, Region V

Subject: Docket 2184, Contract Idm-8-342, Mayer and Thiede Mining Co.

Mutual termination documents were sent you on November 2.

Following are the financial data on the project:

Total amount of contract	$10,000.00
Government's share	5,000.00
Total amount spent on project.	2,700.48
Government's share	1,350.24
Balance to general fund.	3,649.76

Final reports are yet to come.

A. B. NEEDHAM

cc Dutton
Grosh
Broughton

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D. C.~~
Region V
2908 Colfax Avenue South
Minneapolis 8, Minnesota

October 20, 1953

Mr. James L. Mayer
Mayer & Thiede Mining Company
Room 625
37 W. Van Buren Street
Chicago 5, Illinois

Dear Mr. Mayer:

Reference is made to your DMEA Contract Idm E-342.

As you know, this contract was initiated June 13, 1952. No work was done during the period it should have begun, and the starting date was extended to March 1, 1953. No attempt was made to pursue the work, and our intentions then were to terminate the contract. However, on the advice of your attorney, Mr. H. K. Geyer, Platteville, Wis., further extension was granted and work actually got under way in June 1953.

A total of 10 holes, aggregating 1,562 1/2 feet, were drilled during June and July 1953, and the project has been idle since that time.

Although amendment 3 extended the completion date to June 1, 1954, we do feel the work has not progressed efficiently; and we would appreciate being advised as to your intention of completing the work proposed by the contract.

Attached are 6 copies of a mutual termination of the project, which we believe you should consider if your intentions are not to pursue the work any further. In that event, please sign all copies, retain a carbon, and return all others to this office.

Very truly yours,

A. B. Needham
Executive Officer
Field Team, Region V

cc: Dutton Grosh
Broughton
DMEA, Washington
H. K. Geyer

Enclosures - 6

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D.C.~~
Region V
2908 Lolfax Avenue South
Minneapolis 6, Minnesota

June 3, 1953

Memorandum

To: Operating Committee, Defense Minerals Exploration Administration, Interior Building, Washington 25, D. C.

From: Executive Officer, Field Team, Region V

Subject: Docket DMA-2184, Contract Idm 1-312, Mayer A Thiede Mining Co.

Here are the original and two copies of Amendment No. 3 to the subject contract extending the completion date.

One copy has been retained by the Operator, one by this office, and one transmitted to the Regional Fiscal Section.

The reason for extending the date is because the Operator has had a very difficult time engaging a drilling company to drill for him. He now has a driller, and a copy of the subcontract is also enclosed.

A. B. Needham
Executive Officer, Field Team
Region V

Attachments
CC to: C. E. Dutton
W. A. Grosh (att)
W. A. Broughton
L. A. Hill (att)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D.C.~~
Region V
2908 Colfax Avenue South
Minneapolis 8, Minnesota

June 3, 1953

Mr. H. K. Geyer
1st National Bank Building
Platteville, Wisconsin

Dear Mr. Geyer:

Reference is made to your transmittal of a drill contract on June 2, 1953.

This is to advise the subcontract is approved.

Very truly yours,

A. B. Needham
Executive Officer, Field Team
Region V

ABNeedham:vb

cc C. E. Dutton
W. A. Grosh
W. A. Broughton
Operating Committee, DMEA
Washington, D. C.

Copy to Broughton

xxxxxxxxxxxxxxxxxx
Region V
2908 Colfax Avenue South
Minneapolis 8, Minnesota

May 20, 1953

Mr. H. K. Geyer
c/o Kopp and McKichan
First National Bank Building
Platteville, Wisconsin

Dear Mr. Geyer:

Reference is made to your letter of May 15, 1953, requesting reconsideration of Mayer & Thiede Mining Company's exploration contract Idm E-342 notification to terminate.

Attached are seven copies of Amendment No. 3 extending the starting date of the contract to June 1, 1953. Have the company sign all copies, retain a carbon, and return the rest to this office. They may disregard the termination forms transmitted on May 11, 1953.

It should be pointed out that the original contract was dated June 13, 1953, nearly a year ago and that an extention of starting was granted February 16, 1953. During that time no attempt was made to pursue the proposed work. Government exploration contracts are not solely for the benefit of the individual or operator, but rather the Government as well. The attached amendment will grant the operator 10 days on which to begin operation.

If the work is to be done by subcontract, we will want a copy of the proposed contract with the drilling company.

For your information, there is enclosed a press release indicating zinc and lead minerals are no longer classed as commodities exploration for which the Government will participate.

Very truly yours,

A. B. Needham
Executive Officer, Field Team
Region V

Enclosures

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D. C.~~
Region V
2908 Colfax Avenue South
Minneapolis 8, Minnesota

May 11, 1953

Mr. J. L. Mayer
Mayer and Thiede Mining Co.
Room 625
37 W. Van Buren Street
Chicago 5, Illinois

Dear Mr. Mayer:

Reference is made to your Defense Minerals Exploration contract Idn E-342, dated June 13, 1952, which was to be for exploration of zinc-lead at the Rowe Mines, but on which no work has been done thus far.

The Government believes that it is to the best of their interests to cancel the contract. Accordingly, please sign the attached forms, retain your copy, and return the original and other copies to this office for further processing.

Very truly yours,

A. B. Needham
Executive Officer, Field Team
Region V

Enclosures

ABNeedham:vb
cc Region V
Dutton
Grosh
Broughton
files
df

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
Region V
2908 Colfax Avenue South
Minneapolis 8, Minnesota

April 23, 1953

Memorandum

To: Operating Committee, Defense Minerals Exploration Administration, Interior Building, Washington 25, D. C.

From: Executive Officer, Field Team, Region V

Subject: Docket DMEA-2184, Contract Idm-434P, Mayer & Thiede Mining Co.

Pursuant to the Operating Committee's Memorandum No. 18, dated March 9, 1953, that terminations of contracts should first have approval of the Washington office, please be advised that it is our intention to advise the operator that his contract is terminated.

The reason for this is that the contract dated June 13, 1952 has never been put in force. Amendment No. 1 extended the completion date to March 1. The operator was notified several times that work should be started but he has never done so to date. We feel that it should not be carried any further and that termination should be made.

A. B. Needham
Executive Officer, Field Team
Region V

cc - Broughton

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
Region V
2908 Colfax Avenue South
Minneapolis 6, Minnesota

February 20, 1953

Memorandum

To: Operating Committee, Defense Minerals Exploration Administration, Interior Building, Washington 25, D. C.

From: Executive Officer, Field Team, Region V

Subject: Docket [illegible]-2184, Contract Idm-5342, Mayer & Thiede Mining Co.

Here are the original and two copies of Amendment No. 2 extending the starting and completion date. The reason that this contract has been delayed in getting started is because (1) the company had considerable difficulty in obtaining a company to do the contract drilling for them. Drillers in this particular area are few, and they simply had to wait their turn (2) during the beginning of this period of waiting for drillers their options ran out, and they have had difficulty in realigning themselves.

The company indicates now that they will begin to drill shortly.

One copy of the amendment has been transmitted to the Regional Fiscal section, and a copy has been retained by the Operator, the Latteville office, and this office.

[illegible]. B. Needham
Executive Officer
Field Team, Region V

Attachments

cc - Broughton

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D.C.~~
Region V
2908 Colfax Avenue South
Minneapolis 8, Minnesota

February 16, 1953

J. L. Mayer
Mayer and Thiede Mining Company
37 West Van Buren Street
Chicago 5, Illinois

Dear Mr. Mayer:

Pursuant to your request of February 12, 1953, there are enclosed seven copies of Amendment No. 2 to your Defense Minerals Exploration contract E-342 extending the time to begin work to March 1, 1953 with completion date, March 1, 1954.

We have been advised by Mr. Roe that the lease pertinent to this work is no longer valid because the royalty payments are in arrears; therefore, it will be necessary that the lease be valid before progressing work in connection with the D.M.E.A. contract.

Please sign all seven copies of the enclosed amendment, retain one carbon, and return all the rest to this office.

A. B. Needham
Executive Officer, Field Team
Region V

Attachments - 7

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.
~~[illegible]~~
Region V
2908 Colfax Avenue South
Minneapolis 8, Minnesota

November 13, 1952

Memorandum

To: Operating Committee, Defense Minerals Exploration Administration, Interior Building, Washington 25, D. C.

From: Executive Officer, Field Team, Region V

Subject: Docket DMEA-2184, Contract Idm-E342, Mayer & Thiede Mining Company

Here are the original and two copies of Amendment No. 1 to the subject contract extending the starting date.

The company's reason for not starting until now was given that they have been unable to obtain drillers and now they state the project is ready to start.

One copy of the amendment has been retained by the operator, one by the Regional fiscal section, one by this office, and one is being sent our Platteville field office.

A. B. Needham
Executive Officer
Field Team, Region V

Attachments

ABNeedham:dg
cc Dutton
Grosh (At.)
Broughton
Hill (Att.)
Region V
files
df

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

WAS[redacted]
Region V
2906 Calfax Avenue South
Minneapolis 8, Minnesota

July 25, 1952

Memorandum

To: Operating Committee, Defense Minerals Exploration Administration, Interior Building, Washington 25, D. C.

From: Executive Officer, Field Team, Region V

Subject: Docket IM A-21[illegible], Contract Idm-[illegible]342, Mayer & Thiede Mining Co.

Returned are the original and two copies of the duly executed subject contract.

One copy has been retained by the operator, one by this office, and one transmitted to the Regional fiscal section.

In answer to your transmittal of June 16, 1952, there is attached to each copy of the contract an affidavit signed by N. W. Judd, one of the partners of J. F. Judd & Son, showing J. D. Judd & Son have no further interest in the property; and this should suffice in lieu of the requested owner's consent to lien form.

A. B. Needham
Executive Officer
Field Team, Region V

Attachments

ABNeedham:dg
cc Dutton
Grosh
Broughton
Hill
Region V
files
df

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D.C.
Region V
2908 Colfax Avenue South
Minneapolis 8, Minnesota

June 18, 1952

Memorandum

To: W. A. Grosh, Bureau of Mines, Box 261, Platteville, Wisconsin

From: Executive Officer, Field Team, Region V

Subject: Docket DMEA-2184, Contract Idm-E342
Mayer & Thiede Mining Co.

Here are six copies of the subject contract, with government signature, to be transmitted to the company official for signature.

Copies of transmittal to this office and from the Chief Counsel to the Administrator are attached for your information. You will note Owner's Consent to Lien signed by the original lessee, J. D. Judd and Son, is necessary for attachment to the contract prior to signing by officials of Mayer and Thiede Mining Co. You will further note the P.S. as to starting time for the work.

If the contract meets with you people and if the operator is satisfied with all conditions, please have them sign all copies, retain the one marked for them, and return all others to this office for further distribution.

You will note there are only six copies, therefore, you will have to make a copy for your files.

A. B. Needham
Executive Officer
Field Team, Region V

Attachments

ABNeedham:mg

cc: Dutton
Broughton
Region V
Files
df

Brongkim

500

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

Jun 16 1952

C O P Y

Mr. A. B. Needham
Executive Officer, Region V
DMEA Field Team
2908 Colfax Avenue, South
Minneapolis 8, Minnesota

Re: Docket No. DMEA 2184
Mayer and Thiede Mining Co.
Lead-Zinc

Dear Mr. Needham:

We are transmitting herewith the original and five copies of a contract covering the drilling to be done on the Rowe Lead and Zinc Area by the Mayer and Thiede Mining Company. This contract has been drawn up in accord with your recommendations of April 10, 1952 after consultation with the applicant.

The applicant does not hold the land under a lease but under a contract with the lessee, J. D. Judd and Son, to transfer the leasehold to the applicant upon the payment of the costs set forth in the contract. Under these circumstances, it is necessary to have the Owner's Consent to Lien signed by the original lessee, J. D. Judd and Son, and attached to the contract prior to signing by the operator.

If this contract is satisfactory to you and the Owner's Consent to Lien is obtained, kindly present to the operator for signature and distribute in the usual manner.

Sincerely yours,

/s/ Frank E. Johnson
Chairman, Operating Committee
Defense Minerals Exploration
Administration

Enclosures-6

APPROVED:

/s/ J. H. Hedges
Member, Bureau of Mines

/s/ D. M. Lemmon
Member, Geological Survey

P. S. It will be necessary to insert in the contract in the space provided under Article 3 the number of days from the date of the contract in which work shall commence.

UNITED STATES 140
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

June 9, 1952

C O P Y

Memorandum

To: Acting Administrator
Through: D. E. Moulds

From: Chief Counsel

Subject: Mayer and Thiede Mining Company - Docket No. DMEA-2184

The above contract has been drafted from notes supplied by Mr. Moulds, and is approved as to legal form and sufficiency, subject to procuring and adding to the contract an Owner's Consent to Lien signed J. D. Judd & Son by J. D. Judd, Partner, N. W. Judd, Partner.

The applicant in this case does not hold the land under a lease, but under a contract with the lessee, J. D. Judd & Son, to transfer the leasehold to the applicant upon the payment of the consideration set forth in the contract. Under these circumstances it is necessary to have the Owner's Consent to Lien signed by the original lessee, J. D. Judd & Son, as indicated in Circular 20, Supplement 1.

The rough draft of the contract submitted to this office indicated that payments to the Operator would be made on the basis of agreed unit prices rather than actual costs. After discussion with Mr. Moulds I discovered that this is not the intention, but the intention is rather that all payments will be made on the basis of actual costs, with the unit allowances stated merely to fix allowable maximums. Therefore, the unit allowances have been indicated as allowable maximums to conform with Mr. Moulds' instructions.

/s/ J. L. Hofflund
J. L. Hofflund
Chief Counsel

Attachments

Mayer + Thiede

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D. C.~~
Region V
2908 Colfax Avenue South
Minneapolis 8, Minnesota

April 10, 1952

Memorandum

To: Frank E. Johnson, Chairman, Operating Committee, DMEA, Interior Building, Washington 25, D. C.

From: Executive Officer, Field Team, Region V

Subject: Docket DMEA-2184
Mayer and Thiede Mining Co.

Reference is made to your letter of March 25, 1952, in reference to a revised proposal of drilling pertinent to the subject docket.

As you can see from the attached correspondence from our field representatives at Platteville, Wis., and from the operator, your recommendations as to the modified program have been approved with certain additions. The contract recommended by the field then would be:

1. Drill 5 holes in the Rowe lead mine area as indicated in green on the returned map.

2. Drill 6 holes in the Rowe zinc mine area (a section of 3 holes east of the workings and a section of 3 holes south of the workings) as indicated in red on the map and pursuant to your recommendations.

3. Drill 4 holes in the general area south of the Rowe zinc mine as shown in red on the map and pursuant to your recommendations. Operator to provide more accurate map of this area before these 4 holes are drilled.

4. Should the above work prove nothing encouraging, remaining footage as originally proposed to be used to explore SE and NW extensions of the area south of Rowe zinc mine (Item 3 above). These holes to be located by mutual agreement between field representatives and operator.

5. If initial drilling, that is, items 1, 2, and 3, prove encouraging, further drilling of unused footage to determine the mineralization will be mutually agreed on as to location and extent.

A. B. Needham

Enclosures: 3

ABNeedham:mg

cc: Dutton
Brosh
Broughton
Region V
Files
df

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

Platteville, Wisconsin

TO : Dorothy M. Riemann

DATE: March 1, 1954

FROM : W. A. Broughton

SUBJECT: DMEA Final Report Docket 2184 Contract Idm-E342.

Enclosed is your commended copy of the above report. I agree with all of your suggestions, especially the method of handling the amendments to the contract.

The DMPA report that you refer to as being an ozalid print I believe is the Davis Mining Enterprises report. This was primarily a Bureau job, and although we had typed copies of our report for incorporation, they ran ozalid prints and compiled the report. This is not the usual procedure and I dare say will never happen again. We will continue to present our report materials as we have in the past.

Thanks for the comments and suggestions.

WAB:mcw

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

TO : W. A. Broughton

DATE: Feb. 25, 1954

FROM : D. M. Riemann

SUBJECT: DMEA final report, Docket 2184, contract Idm-E342

Mr. Dutton will be in the office next week and I presume he will read the report from a technical angle. In the meantime Reta will do the maps--usually questions on them do not turn up until they are worked on.

During reading I thot perhaps listing of dates was extraneous but understood your point at the Recommendations. However, to make sentences one would have to insert "On" before each date, which would get tiresome in reading. I wonder if it would be a good idea to set up side headings under part on Exploration as suggested in copy enclosed, arranging the dates in sort of a tabular system? Would this stress the significance of the dates?

Last DMA (DMPA report) report sent us was Ozalid printed. Is this to be the rule or didn't we make sufficient copies? If this is to be the rule I would suggest that we prepare only an original but back each sheet with carbon for better prints. Let me know the number of copies you desire.

Dorothy R.

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

TO : Dorothy M. Riemann DATE: Feb. 22, 1954

FROM : W. A. Broughton

SUBJECT: Final report on Meyer and Thiede drilling in Rowe Property DMEA Docket 2184

Enclosed are two copies of the above report and three illustrations to be processed as usual. As usual there is a time limit on this. I suppose that Mr. Dutton will want to edit this report, but it may save some time if we can have it ready for him when he gets back. If you have any questions about it just yell.

Mayer + thiede

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.
Region V
2908 Colfax Avenue South
Minneapolis 8, Minnesota

March 31, 1952

Memorandum

To: Wesley A. Grosh, Engineer-in-charge, Bureau of Mines, Box 261, Platteville, Wisconsin

From: Executive Officer, Field Team, Region V

Subject: Exploration application - Docket DMEA-2184
Mayer & Thiede Mining Co.

Here is correspondence pertaining to the subject docket from which you can see that a new discussion of ultimate objectives is necessary.

Will you please contact the company and discuss the case; then, send your recommendations here.

A. B. Needham
Executive Officer
Field Team, Region V

Attachments

ABNeedham:dt

cc Hutton
Broughton
Region V
files
df

Copied for Dutton
Broughton
ABNeedham:dt-3/31/52

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

March 27, 1952

Mr. A. B. Needham
Executive Officer, Region V
DMEA Field Team
2908 Colfax Avenue South
Minneapolis, Minnesota

Re: Docket No. DMEA 2184 (Lead, Zinc)
Mayer and Thiede Mining Co.

Dear Mr. Needham:

With reference to the exploration project submitted by the Mayer and Thiede Mining Company covering the Rowe Lease in Lafayette County, Wisconsin; the recommendation of your office for a project involving alternative plans of drilling has been reviewed.

The previous drilling accomplished by the Puritan Mining Company and the Bureau of Mines appears from the map, "Plate I", to have thoroughly explored the area south of the Rowe Zinc Mine so far as the possible extensions northwest of holes 23, 26, 28 and southeast of hole 46 is concerned. However, exploratory drilling to connect the four indicated ore blocks appears warranted as does exploratory drilling to determine the extension of the Rowe Zinc Mine to the east and south.

Accordingly, the following recommendations were made:

(1) That the recommended field program of holes A through K be modified to the drilling of four initial holes as indicated in red on Plate I.

(2) That two cross sections of 3 holes each be drilled, one at the approximate position of hole L, the other at the position of holes M and N. If commercial ore is encountered in any of these 6 holes, further drilling is to extend out from such holes; if no commercial ore is found in any of the holes, the project should be abandoned.

(3) That holes O through W be eliminated from the program.

(4) That the program be approved for the amount suggested by the field team, in order that Steps 1 and 2 above may be fully carried out, if warranted.

It was noted in the geological report submitted by your office that the original map submitted by the applicant was inaccurate, and that the map, "Plate I", accompanying the report should not be used as a basis for an exploration or development program because drill holes are not located with sufficient accuracy. "The applicant should not be permitted to begin to touch DMEA supported drilling until he has accurately mapped ground locations of old drill holes with reference to shafts, winzes, and roads."

In view of this, Mr. Mayer was advised by letter, a copy of which you have in your files, to survey the area and submit a map accurately locating all drill holes. Mr. Mayer has replied by letter under date of March 17, 1952, a copy of which is enclosed, advising that the map accompanying report R. I. 4446 indicates the drilling in the Rodham Mine area and that they also had the complete map of the drilling in the lead mine. He also advises that they now believe exploration should be carried on in the lead area to a deeper level.

As it appears that the project has been modified both in comparison to the initial application and to the recommended project, and now by the applicant, we are advising the applicant to discuss this project again with your Platteville field office. We are transmitting the information and map indicating the drill holes recommended by this office, so that it can be thoroughly considered along with the applicant's new proposal, and, also, the matter of a map on which to base the project should be determined.

Please transmit your comment and recommendation relative to an exploration project as soon as convenient after consideration of the above suggestions and discussion with the applicant of the indicated modifications.

Sincerely yours,

/s/ Frank E. Johnson
Chairman, Operating Committee
Defense Minerals Exploration
Administration

APPROVED:
/s/ J. H. Hedges
Member, Bureau of Mines

/s/ H. P. Thayer
Member, Geological Survey

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

Copied for Dutton
Broughton
ABNeedham:dt-3/31/52

March 27, 1952

Mr. J. L. Mayer
Mayer and Thiede Mining Co.
Room 625
37 W. Van Buren Street
Chicago 5, Illinois

Re: Docket No. DMEA 2184

Dear Mr. Mayer:

With reference to your letter of March 17, 1952, we note that you suggest exploration in the lead area to a deeper level and that work be done on both the Rodham and Rowe Mines. As this is a modification of the exploration project as now understood, we agree that this matter should be taken up with the Platteville Office. At the same time, the matter of a map of the area can be discussed.

We are advising Mr. Needham, Executive Officer of the Minneapolis Branch, of your desire to discuss this matter and have transmitted to him all material pertinent to your proposal.

Sincerely yours,

/s/ D. E. Moulds

D. E. Moulds, Chief
Base Metals Division
Defense Minerals Exploration
Administration

Copied for Grosh
Dutton
Broughton
ABNeedham:dt-3/31/52

MAYER & THIEDE - MINING CO.
Shullsburg, Wisconsin

March 17, 1952

United States Dept. of Interior
Defense Minerals Administration
Washington 25, D. C.

Subject: Docket No. DMEA 2184

Attention: Mr. E. E. Moulds, Chief
Base Metals Division

Dear Mr. Moulds:

I have your letter of March 3rd requesting the reworking of the preliminary map that we sent to you.

Originally we had intended this map simply as a consolidation of the lead and the zinc mine.

Referring to Report R.I. 4446 of April, 1949, that shows the location of drilling in the Rodham Mine area and we also had a very complete map showing the drilling of the lead mine.

Would it not be possible that these two would suffice for the preliminary exploration which we had originally estimated in our request of May 29, 1951 as a total of $10,000.00 and after we had filed our original request we decided to expand this lead operation to include zinc and it now looks from the work we have done so far, that we should carry the exploration on in the lead area to a deeper level, and work both the Rodham mine and the Rowe mine for both zinc and lead.

I would like to discuss this matter with your Chicago office or at Platteville because I feel that the zinc ore body stems under our lead mine and I would like to get this drilling done as quickly as I can.

Very truly yours,

MAYER - T IEDE - MINING CO.

/s/ J. L. Mayer

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

DEFENSE MINERALS EXPLORATION ADMINISTRATION

DMA-DOCKET 2184 - Mayer and Thiele Mining Company

Lafayette County, Wisconsin

Wesley A. Grosh, Mining Engineer
Harold J. Schroeder, Mining Engineer
U. S. Bureau of Mines

Geology by W. A. Broughton, Geologist
U. S. Geological Survey

January 16, 1952

Following are the findings of the field team investigation of the Mayer and Thiede Mining Company's exploratory loan application on the Rowe Lease. Subjects are numbered to correspond to the deficiencies noted by the review of application.

4d. The logs of the Bureau of Mines holes were checked and the following table taken from Report of Investigation 4446 shows the significant mineralization that was encountered.

Samples from hole number	Sample interval, feet 1/ From	To	Length	Analysis, percent Zinc	Lead	Iron
1	168.3	169.6	1.3	0.70	Trace	1.10
	170.7	172.7	2.0	.70	Trace	1.50
	172.7	174.6	1.9	.80	Trace	2.90
	174.6	176.7	2.1	7.09	1.70	9.50
	176.7	178.3	1.6	1.60	.10	6.60
	178.3	179.0	.7	.10	.10	1.80
	179.0	180.0	1.0	1.70	1.45	.90
	180.0	185.0	5.0	Trace	Trace	1.40
	189.5	192.7	3.2	.40	.25	3.30
	199.6	200.9	1.3	1.30	.70	3.30
	200.9	204.2	3.3	Trace	Trace	3.20
	204.2	207.0	2.8	Trace	.65	2.30
	233.4	235.0	1.6	Trace	Trace	4.30
3	165.0	171.0	6.0	.15	Trace	1.00
4	155.0	161.0	6.0	Trace	.30	2.40
	170.0	172.0	2.0	.10	.80	1.00
	188.0	192.0	4.0	.15	.40	7.30
	195.0	196.5	1.5	.98	.10	4.00

1/ Drilling intervals are measured from the collar of the hole.

The logs of the J. D. Judd and Sam drilling are on file here. However, the depth of drilling is not to the horizon that shows the wide mineralization in the drilling south of the Rowe Zinc Mine.

Location of the proposed drill holes, together with a detailed description of the drilling plan and its feasability is to be found on the accompanying map and under the geologic portion of this report.

7b. To date the required subordination agreements have not been submitted. Mr. Thiele has very recently inquired as to some of the details regarding these agreements, and stated he would have them completed. We shall forward them as soon as they are received.

10a & b. Past drilling shows that holes will need to be drilled into the Trenton formation to penetrate to the ore horizon. Depths of holes is estimated at 195' so the application for $10,000 of participation drilling would allow only 26 holes rather than the forty as stated by the application. Locations of the proposed holes is covered under "4d" in this report.

10c. The estimated unit costs appear reasonable. The total cost would be based upon approximately 26 holes to 195 feet depth or 4 - 5160 ft. of hole for a total cost of $10,000.

General:

Although not applying directly to the conduct of the feasibility of the proposed exploration program, there are certain statements in the application of Myers and Thiele Mining Company that are misleading. It is felt these items should be pointed out as it would affect the exploitation of any ore deposit discovered.

The equipment described in the application is being used satisfactorily in mining and milling the sandy sized, easily separated lead crevice material. Mining any zinc ore body discovered would sooner or later require underground transportation equipment to replace the hand tramming now practiced. Additional pumping and ventilation facilities would probably be needed.

Concentration for shipment to a zinc by station mill could not be accomplished as there is no crusher or rolls and only three

cells in the jig. If direct shipment to a smelter is desired, grinding and flotation equipment would also be required. From the above it is obvious the answer to item 15 on their application is considerably in error.

Rowe

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

TO : W. A. Broughton

DATE: January 11, 1952

FROM : Carl E. Dutton CED

SUBJECT: D.M.A. report, Rowe property. DMA 2164

Copies of your report in the above instance, together with sets of prints, are enclosed herewith for distribution as follows. Original and four carbons of text for A. B. Needham; text and prints for your files, the Platteville Survey files, and the Platteville Bureau files. Tracings are for transmittal to Needham.

Will you please note on line 3, page 1 of this report, the description "S¼" and check this inasmuch as it is not a usual way of describing. Let us know if there is to be a correction on our copy.

In future cases it would be appreciated if you will use the DMA docket number in reference to your examinations. We sometimes have prior notice in the form of a copy of correspondence, but in this case we do not.

Rowe Property Broughton

ROWE LEASE

HOLE NO. R1
DATE STARTED: 6/1/53
DATE FINISHED: 6/6/53
WATER AT: 50'
TOTAL DEPTH: 138'
LOCATION: See Map
Driller: R. L. Weber

Collar Elev: 949.1

FOOTAGE	FORMATION	ESTIMATE ZN	ESTIMATE PB	ESTIMATE FE	ASSAY ZN	ASSAY PB	ASSAY FE
0-5	Soil & clay	-	-	-	-	-	-
5-15	Mud & boulders	-	-	-	-	-	-
15-50	Yellow lime, gray flint	-	-	-	-	-	-
50-70	Brown lime	-	-	-	-	-	-
70-100	Gray lime, white flint	-	-	Tr	-	-	-
100-115	Gray lime	-	-	lt	-	-	-
115-120	Blue Lime	-	-	lt	-	-	-
120-122½	Blue lime	tr	-	tr	-	-	-
122½-126	Oilrock	tr	tr	tr	-	-	-
126-135	Glassrock	-	tr	tr	-	-	
135-138	Trenton	-	-	-			

Remarks: Hole was hard from 126-138

ROWE LEASE

HOLE NO. D2
DATE STARTED: 6/6/53
DATE FINISHED: 6/10/53
WATER AT: 45'
TOTAL DEPTH: 140'
LOCATION: See Map
Driller: R. L. Weber

Collar Elev: 944.0

FOOTAGE	FORMATION	ESTIMATE ZN	ESTIMATE PB	ESTIMATE FE	ASSAY ZN	ASSAY PB	ASSAY FE
0-10	Soil & clay	-	-	-	-	-	-
10-15	Sandy lime	-	-	-	-	-	-
15-70	Yellow lime, white flint	-	-	-	-	-	-
70-75	Yellow lime, ocher	-	5%	-	-	4.15	-
75-77½	Yellow lime, white flint, caved lead	-	10%	-	-	13.70	-
77½-80	As above	-	5%	-	-	8.25	-
80-90	Lime, white flint, caved lead	-	5%	-	-	7.35	-
90-95	Gray lime	-	3%	-	-	4.95	-
95-100	As above	-	2%	-	-	2.60	-
100-105	As above, 25% recovery on cut	-	1%	-	-	2.30	-
105-113	Blue Lime	-	-	-	-	-	-
113-120	Oilrock	-	-	3%	-	-	-
120-136	Glassrock	-	-	-	-	-	-
136-140	Trenton	-	-	-	-	-	-

ROWE LEASE

HOLE NO: R 3
DATE STARTED: 6/10/53
DATE FINISHED: 6/12/53
WATER AT: 40'
TOTAL DEPTH: 135'
LOCATION: See Map
Driller: R. L. Weber

Collar Elev: 938.0

FOOTAGE	FORMATION	ESTIMATE ZN	ESTIMATE PB	ESTIMATE FE	ASSAY ZN	ASSAY PB	ASSAY FE
0-12	Soil & clay	-	-	-	-	-	-
12-25	Yellow lime, white flint	-	-	-	-	-	-
25-35	Yellow lime, gray flint	-	-	-	-	-	-
35-50	Gray lime, gray flint	-	-	-	-	-	-
50-86	Yellow lime, gray & white flint	-	-	-	-	-	-
86-101	Gray lime	-	-	-	-	-	-
101-110	Blue lime	-	tr	tr	-	-	-
110-115	Oilrock	-	tr	tr	-	-	-
115-120	As above	tr	-	tr	-	-	-
120-132	Glassrock	-	-	-	-	-	-
132-135	Trenton	-	-	-	-	-	-

Remarks: Strong water at 60-65 ft.

ROWE LEASE

HOLE NO: R 4
DATE STARTED: 6/12/53
DATE FINISHED: 6/16/53
WATER AT: 36'
TOTAL DEPTH: 142'
LOCATION: See Map
DRILLER: R. L. Weber

COLLAR ELEV: 949.3

FOOTAGE	FORMATION	ESTIMATE ZN	ESTIMATE PB	ESTIMATE FE	ASSAY ZN	ASSAY PB	ASSAY FE
0-10	Soil & clay						
10-80	Yellow & gray lime, white & gray flint	-	-	-	-	-	-
80-95	Yellow lime, white flint, open ground, 5% recovery on cut	-	tr	-	-	-	-
95-97½	Yellow lime, gray flint	-	2%	tr	-	1.05	-
97½-100	Yellow & gray lime, caved lead	-	sh	-	-	-	-
100-112½	Gray lime, caved lead	-	sh	tr	-	-	-
112½-115	Gray lime, caved lead	-	sh	-	-	-	-
115-125	Blue lime, caved lead	-	tr	tr	-	-	-
125-127½	Oilrock	-	-	-	-	-	-
127½-140	Glassrock	-	-	-	-	-	-
140-142	Trenton	-	-	-	-	-	-

Remarks: Very loose ground 80-97½

ROWE LEASE

HOLE NO: R 5
DATE STARTED: 6/16/53
DATE FINISHED: 6/18/53
WATER AT: 55'
TOTAL DEPTH: 150'
LOCATION: See Map
DRILLER: H. L. Weber

COLLAR ELEV: 952.7

FOOTAGE	FORMATION	ESTIMATE ZN	ESTIMATE PB	ESTIMATE FE	ASSAY ZN	ASSAY PB	ASSAY FE
0-10	Soil & clay	-	-	-	-	-	-
10-72	Yellow sand lime, white flint	-	-	-	-	-	-
72-100	Gray lime, gray flint	-	-	-	-	-	-
100-115	Gray & brown lime, brown & gray flint	-	tr	-	-	-	-
115-117	Gray lime	-	-	-	-	-	-
117-126	Blue lime	-	tr	-	-	-	-
126-130	Oilrock	-	-	-	-	-	-
130-132½	Glassrock	tr	sh	-	-	-	-
132½-147	Glassrock (hard)	-	-	-	-	-	-
147-150	Trenton	-	-	-	-	-	-

ROTE LEASE

HOLE NO. R 6
DATE STARTED: 6/20/53
DATE FINISHED: 6/23/53
WATER AT: 95'
TOTAL DEPTH: 182½
LOCATION: See Map
DRILLER: R. L. Weber

COLLAR ELEV: 996.1

FOOTAGE	FORMATION	ESTIMATE ZN	ESTIMATE PB	ESTIMATE FE	ASSAY ZN	ASSAY PB	ASSAY FE
0-4	Soil	-	-	-	-	-	-
4-35	Yellow lime	-	-	-	-	-	-
35-100	Yellow lime, white & brown flint	-	-	-	-	-	-
100-120	Gray & yellow lime, white flint	-	-	-	-	-	-
120-125	Brown & gray lime, gray flint	sh	sh	-	-	-	-
125-127½	As above	tr	tr	-	-	-	-
127½-135	Brown & gray lime	-	-	-	-	-	-
135-150	Gray lime	-	-	-	-	-	-
150-155	Blue lime, soft	-	-	-	-	-	-
155-157½	Oilrock	sh	-	lt	-	-	-
157½-165	As above	-	-	-	-	-	-
165-179	Glassrock	-	-	tr	-	-	-
179-182½	Trenton	-	-	-	-	-	-

Hole No. R-7
Dated Started: 7/8/53
Date Finished: 7/11/53
Water at: 95'
Total Depth: 180'
Location: See Map
Driller: R. L. Weber

Collar Elev. 9949

Footage	Formation	Estimate Zn	Estimate Pb	Estimate Fe	Assay Zn	Assay Pb	Assay Fe
0-4	Soil	-	-	-	-	-	-
4-35	Yellow buff	-	-	-	-	-	-
35-50	Yellow buff, white chert	-	-	-	-	-	-
50-55	" " "	-	Tr	-	-	-	-
55-100	" " "	-	-	-	-	-	-
100-120	Gray Lime, white chert	-	-	-	-	-	-
120-125	Brown lime, gray chert	Tr	-	-	-	-	-
124-134	" " "	-	-	-	-	-	-
134-149	Gray lime	-	-	-	-	-	-
149-154	Blue lime	-	Tr	-	-	-	-
154-155	Oilrock	-	-	-	-	-	-
155-157½	"	Sh	-	-	-	-	-
157½-163	"	Sh	Sh	-	-	-	-
163-177	Glass Rock (Hard)	-	-	-	-	-	-
177-180	Trenton lime	-	-	-	-	-	-

Hole No: R-8
Date Started: 7/11/53
Date Finished: 7/15/53
Water at: 94'
Total Depth: 175'
Location: See Map
Driller: R. L. Weber

Collar Elev.: 9932

Footage	Formation	Estimate Zn	Estimate Pb	Estimate Fe	Assay Zn	Assay Pb	Assay Fe
0-5	Soil						
5-33	Yellow buff						
33-100	Yellow buff, white chert						
100-115	Gray lime, white chert						
115-120	" " " "	1%	Tr	-	.40	.05	-
120-122½	" ", gray chert	1%	1%	-	.45	.35	-
122½-127½	Brown lime, " "	Sh	Sh	-	-	-	-
127½-130	" "						
130-145	Gray Lime	Tr					
145-149	Blue lime						
149-150	Oil rock						
150-157½	" "	Sh	Sh	1%			
157½-172½	Glass rock	Tr	-	3%			
172½-175	Trenton						

Hole No. R-9
Date Started: 7/15/53
Date Finsihed: 7/18/53
Water at: 75'
Total Depth: 160'
Location: See Map
Driller: R. L. Weber

Collar Elev.: 977.8

Footage	Formation	Estimate Zn	Estimate Pb	Estimate Fe	Assay Zn	Assay Pb	Assay Fe
0-10	Soil & clay						
10-20	Yellow buff						
20-25	" ", white chert						
25-35	" " " "	-	Tr	-			
35-70	" "						
70-95	Gray lime, gr y & white chert						
95-108	" ", white flint						
108-110	Oxidized lime (ocher) chert, loose	-	Tr	-			
110-120	Gray lime white chert	-	Tr	-			
120-127½	Gray	-	-	2%			
127½-132	Blue lime						
132-139	Oilrock	Tr	Tr	-			
139-155	Glass rock						
155-157½	" " (soft)						
157½-160	Trenton Lime						

Hole No.: R-10
Date Started: 7/21/53
Date Finished: 7/23/53
Water at: 80-85'
Total Depth: 160'
Location: See Map
Driller: R. L. Weber

Collar Elev. 979.1

Footage	Formation	Estimate Zn	Estimate Pb	Estimate Fe	Assay Zn	Assay Pb	Assay Fe
0-8	Soil & clay						
8-20	Yellow buff						
20-60	Yellow lime & grey chert						
60-100	Gray & yellow lime, gray & white chert						
100-119	Gray lime, gray chert	-		2%			
119-130	Gray lime						
130-135	Blue lime						
135-137½	Blue lime	Tr	Tr				
137½-142½	Oilrock						
142½-158	Glass rock, very hard						
158-160	Trenton						

May	15			74	gl		842
Blue	6						854
	10						[illegible]
	—						855
	13						834
							[illegible]
Hale							843
1	[illegible]	861					—
2 -	19' [illegible]	—			gl. gl.	oil gl.	841
3 -	6' [illegible]	—			oil	oil	837
4 -	Dark gl. ch.	859					839
5		861					
6	[illegible]	861 [illegible]					841
7 -	[illegible] oil	858					844
8 -	black	861					842
9 -	[illegible]	856					838
10 -	[illegible] oil	858 [illegible]			gl. gl		[illegible]
11 -	black oil	857			[illegible]		836
12	gl. gl.	859					847
13		857				gl.	838
14	[illegible]	[illegible]			[illegible]		835
15	m. t.	863					850
16	gl. gl.	854					839
17		858			oil	oil	837
18	gl. t.	859		7			834
19		[illegible]		4	Dark.	Dark oil	[illegible]
20		860					—
21	gl. t.	861					
22	[illegible]	gl. t. 837		51	Blue	Blue.	837
23	[illegible]	841			oil	oil.	842
				53		glass	845

		Zn	pb	Kupferbelag	81
●	251	ail		[illegible]	
O	" 2	—		841. —	
O	" 3	—		841. —	
◐	" 4	ailgl.h.	ailgl.h.	840. —	
O	" 5			813. —	

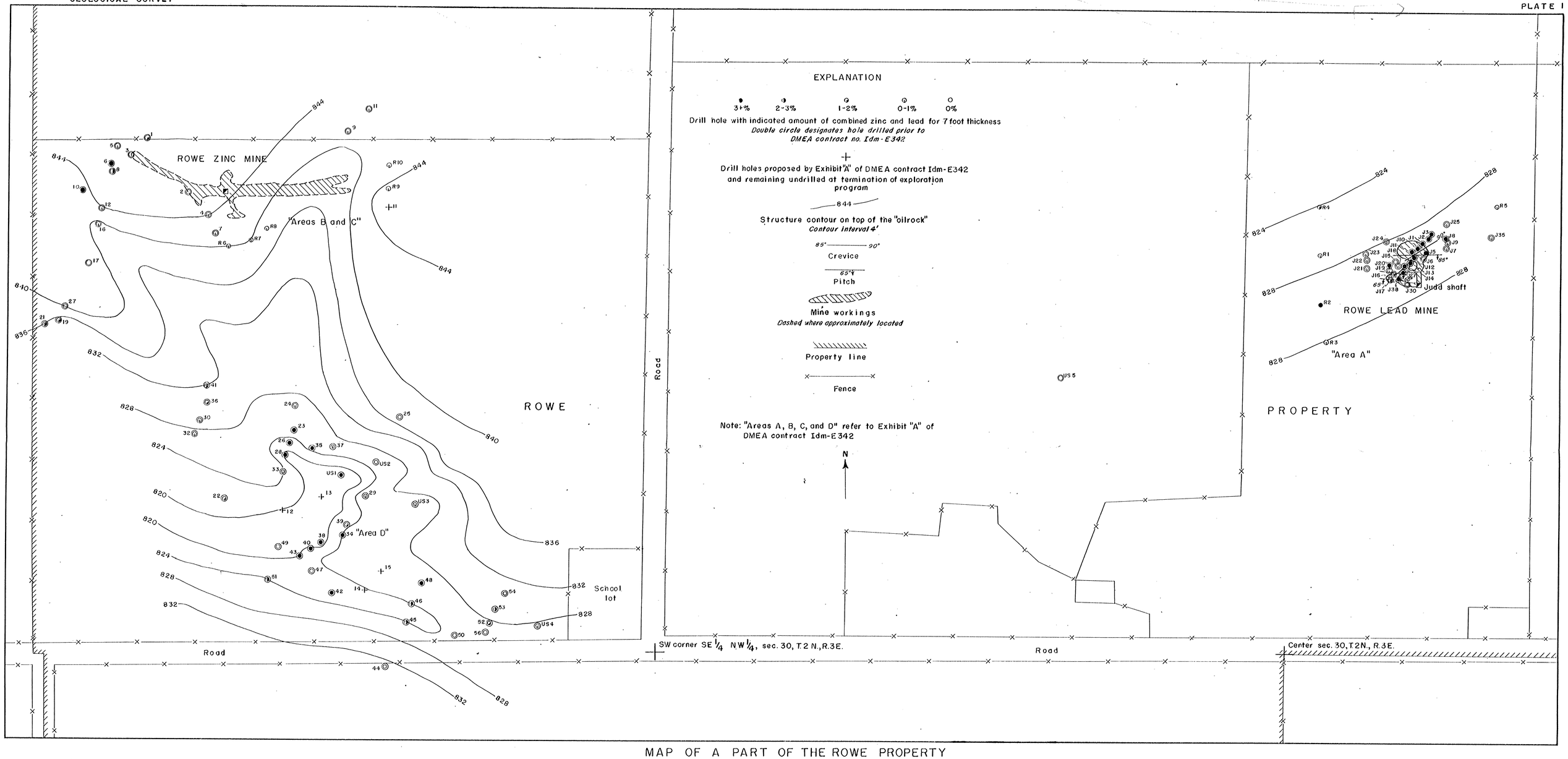
O	54	847
O	55	850
O	56	—

Jandlkhalz.

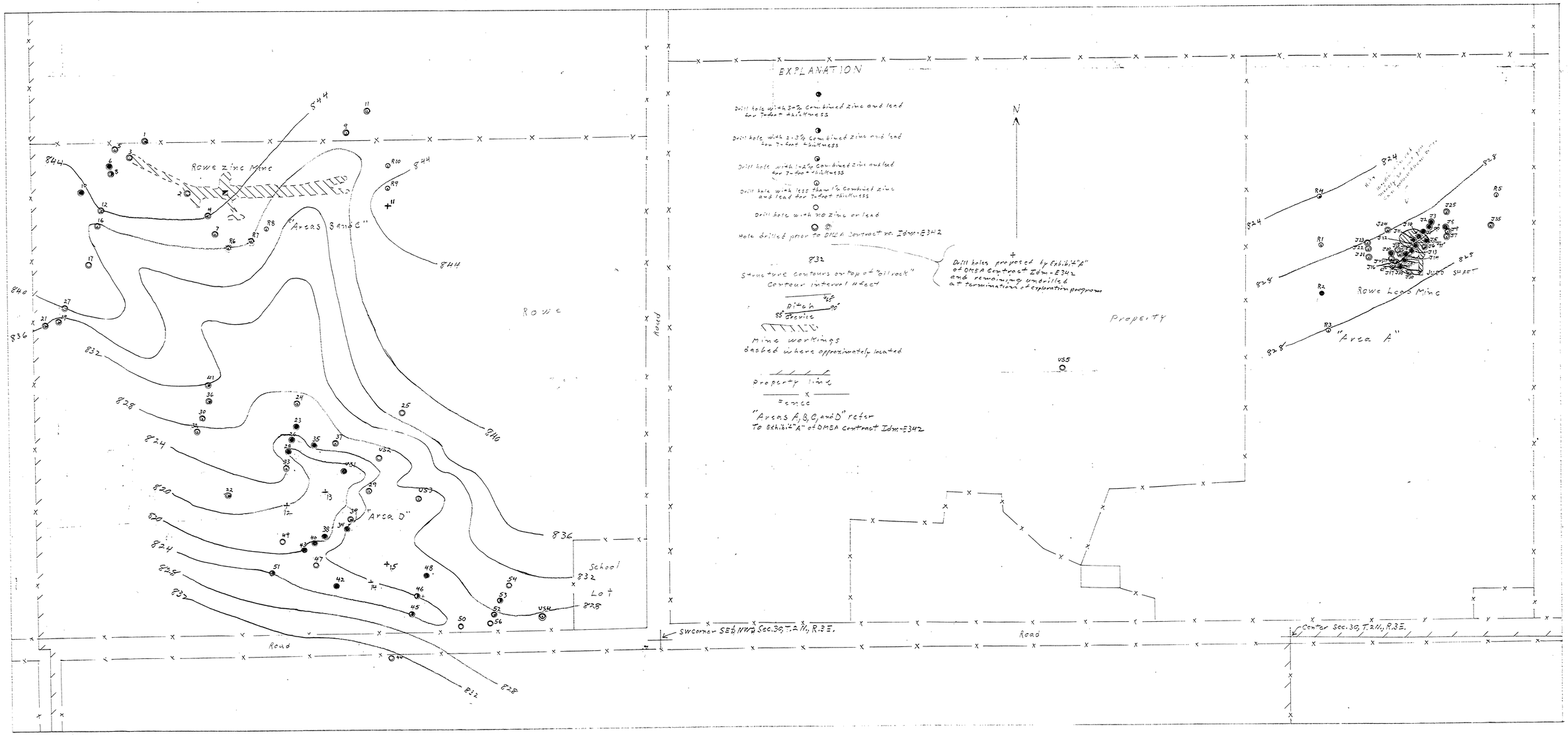
1	O	14	O	
2	O	15	O	
3	O	16	◐	—
4	?	17	◐	866
5	O	18	◐	860
6	◐	19	◐	—
7	O	20	O	
8	O	21	O	
9	◐	22	O	
10	O	23	O	
11	O	24	◐	
12	O	25	◐	
13	O	26	O	
		27	O	
		28	O	
		35	O	
		36	O	

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PLATE I

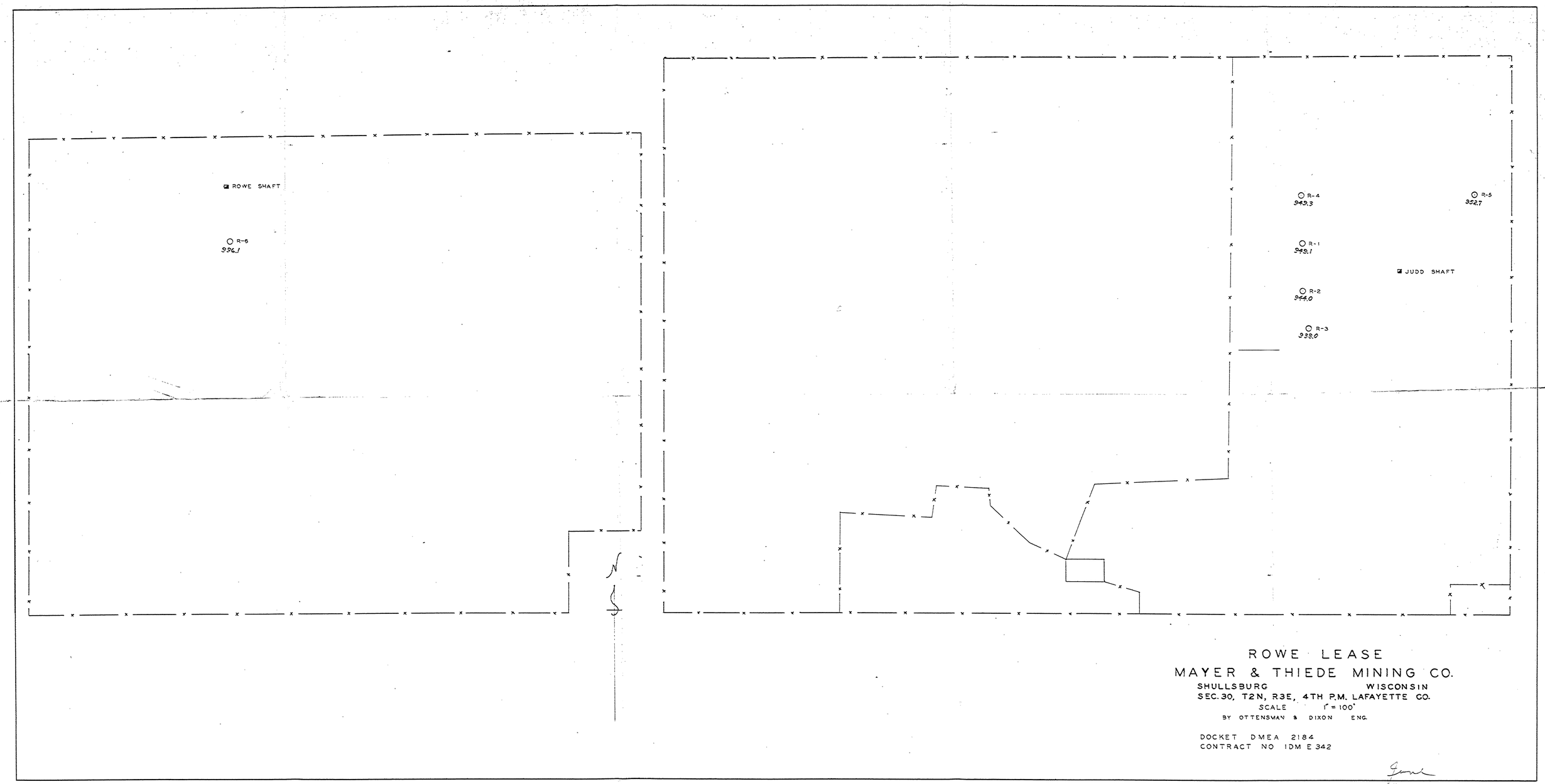


MAP OF A PART OF THE ROWE PROPERTY
SHOWING DRILL HOLES, STRUCTURE CONTOURS, AND MINE WORKINGS
LAFAYETTE COUNTY, WISCONSIN



MAP OF A PART OF THE ROWE PROPERTY
SHOWING DRILL HOLES, STRUCTURE CONTOURS, AND MINE WORKINGS
LAFAYETTE COUNTY, WISCONSIN

Pl. 1



ROWE LEASE

MAYER & THIEDE MINING CO.

SHULLSBURG WISCONSIN

SEC. 30, T2N, R3E, 4TH P.M. LAFAYETTE CO.

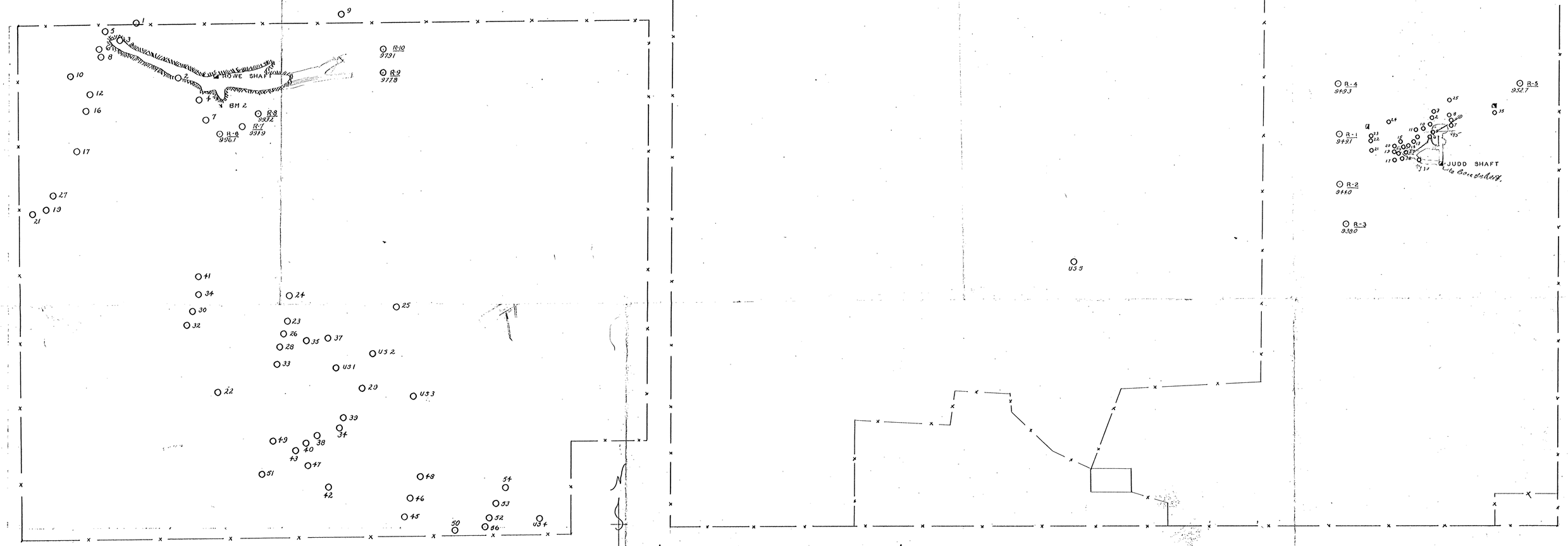
SCALE 1" = 100'

BY OTTENSMAN & DIXON ENG.

DOCKET DMEA 2184

CONTRACT NO IDM E 342

	Spotted	Number	
24 –	988.1	1020.32	– 33
41 –	997.6	1014.73	– 17
19 –	983.1		
27 –	979.6		
37 –	998.7	1013.13	– 15
34 –	1000.5	1015.7	– 15
43 –		1011.05	– 16
29 –	994.2		



ROWE LEASE

MAYER & THIEDE MINING CO.

SHULLSBURG WISCONSIN

SEC. 30, T2N, R3E, 4TH P.M. LAFAYETTE CO.

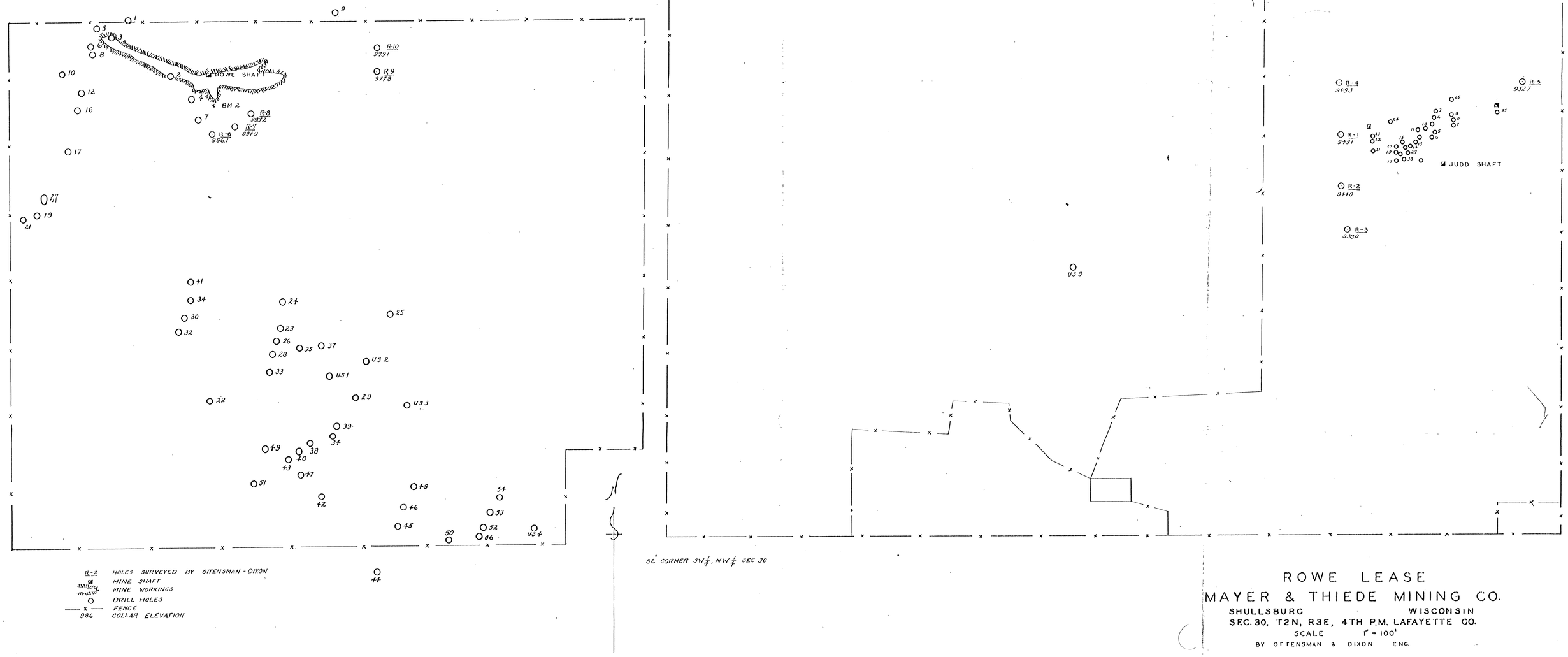
SCALE 1" = 100'

BY OTTENSMAN & DIXON ENG.

DOCKET DMEA 2184

CONTRACT NO IDM E 342

July 53



R-2 HOLES SURVEYED BY OTTENSMAN - DIXON
MINE SHAFT
MINE WORKINGS
DRILL HOLES
FENCE
986 COLLAR ELEVATION

ROWE LEASE

MAYER & THIEDE MINING CO.

SHULLSBURG WISCONSIN
SEC. 30, T2N, R3E, 4TH P.M. LAFAYETTE CO.
SCALE 1" = 100'
BY OTTENSMAN & DIXON ENG.

DOCKET DMEA 2184
CONTRACT NO IDM E 342

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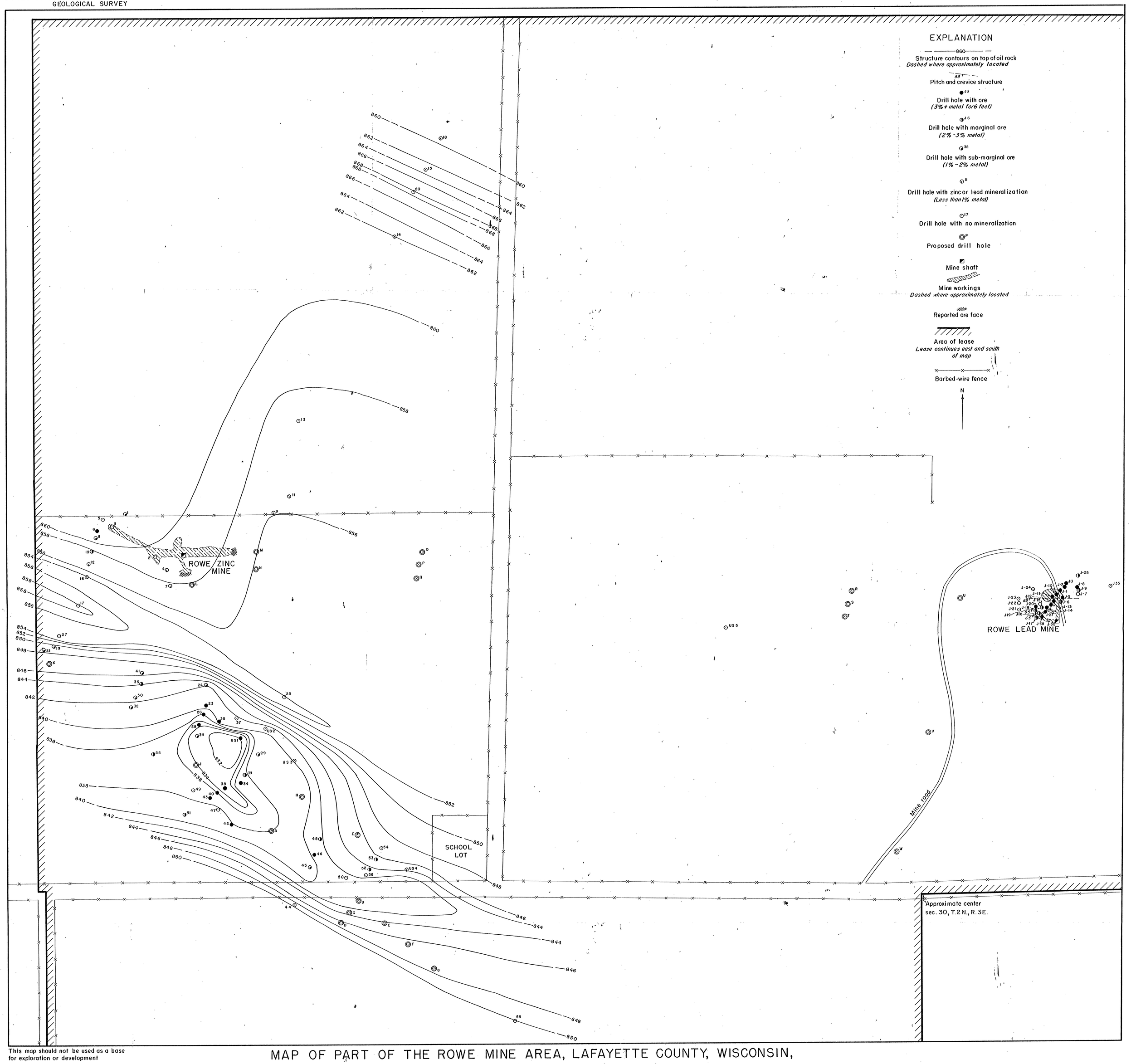
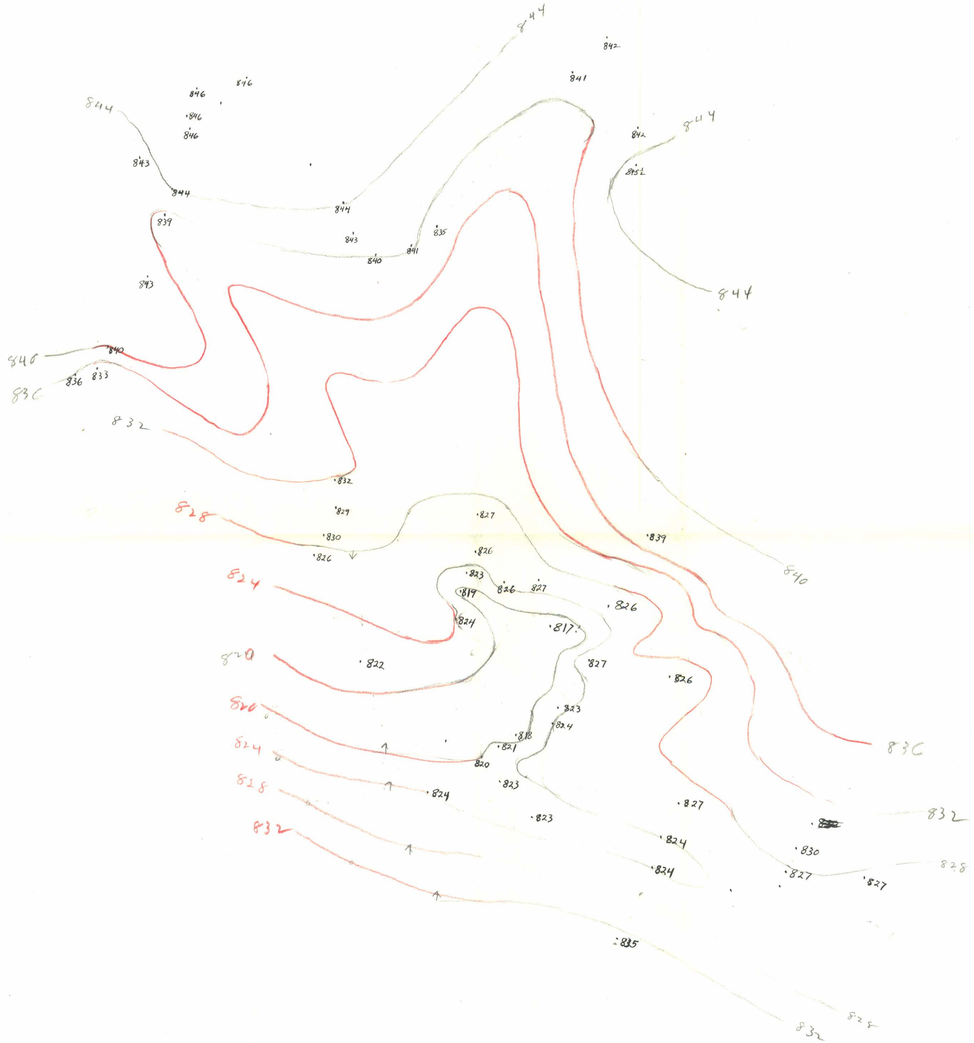


This map should not be used as a base for exploration or development

MAP OF PART OF THE ROWE MINE AREA, LAFAYETTE COUNTY, WISCONSIN, SHOWING THE PROPOSED LOCATIONS OF INITIAL DRILL HOLES

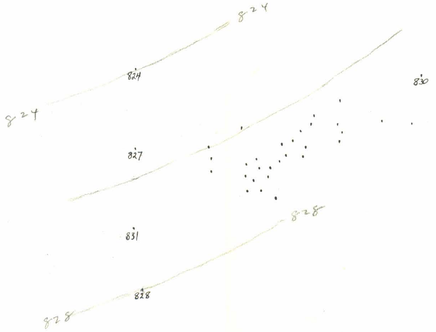
100 0 100 200 300 400 Feet

SCALE



Road Final

1" = 100'



Map of part of The Rowe Mine Area, Lafayette County, Wisconsin

Showing the Proposed Locations of Initial Drill Holes

~~(Lafayette County, Wisconsin)~~

(This map should not be used as a base for exploration or development)