DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 1162 X

DO NOT DETACH THIS SLIP

Action on this document is recorded and controlled in Reports and Records Branch. Any movement of this document between divisions or offices of DMA or movement outside DMA must be reported to the Reports and Records Branch. Actions taken that affect status of the case must also be reported.

This document has been recorded as

Any action taken to change the type of request for assistance must be promptly reported to the Reports and Records Branch. Use DMA Form 2 for submitting these reports.

Routing Slip

To:	Director, Supply Div. Production Expansion Division	Date	9/14/51
To:		Date	SEP 18 1951
To:	J.W. Alt	Date	9/20/51
To:	to Jens Allsop (by alt)	Date	1-5-52
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DO NOT DETACH

CONTROLLED DOCUMENT

DMA Form 2

DEFENSE MINERALS ADMINISTRATION
Status Change Notice

DMA Docket No. ~~1162~~X

To: Reports and Records Branch

From: Manganese Branch

Date: September 17, 1951

The following action has been taken this date on the above Controlled Document.

Forwarded to Production Expansion Division Through Supply Division

Type of request changed to:

Denied ☐ Withdrawn ☐

Approved in amount of $

Other action, specify:

Mr. Robert E. Adams, Administrative Officer
Attention: Docket and Control Section
Iron and Ferro-Alloy Division

April 1, 1952

Removal of applications from the active file

Early in March letters were sent to several applicants advising that, in order for their applications to be further processed, information which we had requested several times previously must be forthcoming by April 1, 1952, or we would remove the applications from our active file and thereby close the dockets.

The four applicants listed below failed to reply and their dockets are transmitted to you herewith to be placed in the inactive file:

C. H. Field and Theodore Haynes
Docket No. DMA 1162 - Manganese
The Graphite, Hermoine, et al., Claims
Utah County, Utah

J. N. Gardner & Associates
Docket No. DMA 1366 - Tungsten
San Bernardino County, California

Hidden Hills Company
Docket No. DMA 1579 - Tungsten
Desert View Claim
San Bernardino County, California

John G. Maxwell
Docket No. DMA 1587 - Tungsten
Kern County, California

George C. Selfridge

G. C. Selfridge, Chief
Iron and Ferro-Alloy Division

Attachments

L. Scott

Copy to: Admn. Reading File
Mails and Files
G. C. Selfridge -
DMA 1162, 1366, 1579 & 1587

400

1+7A

Messrs. Carl H. Field
and Theodore Haynes
Eureka, Utah

Re: Docket No. DMA 1162 - Manganese
The Graphite, Hermoine, et al., claims
Utah County, Utah

Gentlemen:

A review of your application of May 31, 1951, for a $24,000.00 exploration contract, reveals that a letter dated January 21, 1952, by Mr. G. C. Selfridge, Chief, Iron and Ferro-Alloy Division, Defense Minerals Exploration Administration, requests additional information necessary to process your application. We have not received an answer from you and we assume that you no longer desire to proceed with the application.

We wish to cooperate with you in the matter of allowing ample time, but if the needed data have not been received by April 1, 1952, we will then remove the application from the active file and consider the matter closed.

Sincerely yours,

C. O. Mittenderf

Acting Administrator
Defense Minerals Exploration
Administration

GGGentry:ls
2/29/52

cc: Docket
Adm. Reading File
Field Team, Region 4
N. R. Melcher, USBM
W. B. Crittenden, USGS
G. G. Gentry
G. C. Selfridge

147 A

George C. Selfridge

January 9, 1952

M. D. Crittenden

DMA 1162 I (Manganese) Fields-Haynes

Not included in the attached file is a letter of October 2, 1951 from Holderer to Fields, requesting a statement on availability of funds. When I was in Salt Lake City in October the Field Team reported that the applicant had no funds. Unless and until this situation changes, there is no point in considering the application further.

MDCrittenden:gt

Copies to: Director's read. file
Branch read. file

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

TO : Mr. Robert E. Adams, Administrative Officer DATE: April 1, 1952
Attention: Docket and Control Section

FROM : Iron and Ferro-Alloy Division

SUBJECT: Removal of applications from the active file

Early in March letters were sent to several applicants advising that, in order for their applications to be further processed, information which we had requested several times previously must be forthcoming by April 1, 1952, or we would remove the applications from our active file and thereby close the dockets.

The four applicants listed below failed to reply and their dockets are transmitted to you herewith to be placed in the inactive file:

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San Bernardino County, California

Hidden Hills Company
Docket No. DMA 1579 - Tungsten
Desert View Claim
San Bernardino County, California

John G. Maxwell
Docket No. DMA 1587 - Tungsten
Kern County, California

G. C. Selfridge

G. C. Selfridge, Chief
Iron and Ferro-Alloy Division

Attachments

400

FILE COPY
SURNAME:

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

MAR 3 1952

Messrs. Carl H. Field
and Theodore Haynes
Eureka, Utah

Re: Docket No. DMA 1162 - Manganese
The Graphite, Hermoine, et al., claims
Utah County, Utah

Gentlemen:

A review of your application of May 31, 1951, for a $24,000.00 exploration contract, reveals that a letter dated January 21, 1952, by Mr. G. C. Selfridge, Chief, Iron and Ferro-Alloy Division, Defense Minerals Exploration Administration, requests additional information necessary to process your application. We have not received an answer from you and we assume that you no longer desire to proceed with the application.

We wish to cooperate with you in the matter of allowing ample time, but if the needed data have not been received by April 1, 1952, we will then remove the application from the active file and consider the matter closed.

Sincerely yours,

3/3

C. O. Mittenderf (for)

Acting Administrator
Defense Minerals Exploration
Administration

GGGentry:ls
2/29/52

cc: Docket
Admn. ReadingFile
Field Team, Region 4
N. B. Melcher, USBM
M. D. Crittenden, USGS
G. G. Gentry
G. C. Selfridge

Excerpt from Monthly Report, Region IV, January 21, 1952 to February 20, 1952

DMEA 1162 - C. H. Field & Theodore Haynes (Manganese), Utah

Pending contract - Washington Office

FILE COPY
SURNAME:

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

Mr. Selfridge.

not stripped in R. R.

JAN 18 1952

Mr. Carl H. Fields
Mr. Theodore Haynes
Eureka, Utah

Re: Docket No. DMA 1162X - Manganese
The Graphite, Hermoine, et al claims
Utah County, Utah

Gentlemen:

We are unable to proceed with your application in the sum of $14,428.60, as revised by the Field Team from your original figure of $24,000.00, until we have your answer to our letter of October 2, 1951.

We note that your property is well located in respect to a local market which may be able to accept your ore as mined.

Please inform us whether or not you have had any success in making the financial arrangements necessary to cover your share of the proposed loan. If you find that it will be impossible to provide the required finances within the near future, we suggest that you withdraw your present application, without prejudice, and that you re-apply when funds are available, making reference to the present docket number.

Sincerely yours,

George C. Selfridge

G. C. Selfridge, Acting Chief
Iron and Ferro-Alloy Division

QLBrewer'lm
1/17/52

cc: Admn. Reading File
Docket
N. B. Melcher, USBM
M. D. Crittenden, USGS
Field Team Reg. IV
G. C. Selfridge
Q. L. Brewer

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

TO : George C. Selfridge DATE: January 9, 1952

FROM : M. D. Crittenden

SUBJECT: DMA 1162 X (Manganese) Fields-Haynes

Not included in the attached file is a letter of October 2, 1951 from Holderer to Fields, requesting a statement on availability of funds. When I was in Salt Lake City in October the Field Team reported that the applicant had no funds. Unless and until this situation changes, there is no point in considering the application further.

JAN 14 8 44 AM '52
DEFENSE MINERALS
ADMINISTRATION
WASHINGTON, D.C.

George C. Selfridge January 9, 1952

M. D. Crittenden

DMA 1162 X (Manganese) Fields-Haynes

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MDCrittenden:gt

Copies to: Director's read. file
Branch read. file

George C. Selfridge January 9, 1952

M. D. Crittenden

DMA 1162 X (Manganese) Fields-Haynes

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MDCrittenden:gt

Copies to: Director's read. file
Branch read. file

1/8

M. Crittenden G.S. - 5218 G.S.A. -

Hermita DMA 1162X - Mr. Fields + Haynes - Eureka Utah -

application M7103

Map - (only one in file)

Crittenden Report of 5/17

Letter to Eost 6/25

Field team Report 8/24

Holderness Memo 9/18

additional Field Team Report of 10/26

Please give us your summary at this time.

Geo Sedgwick

by PHB

DEFENSE MINERALS
ADMINISTRATION
WASHINGTON, D. C.

Oct 26 8 42 AM '51

FIELDS-HAYNES MANGANESE PROJECT

UTAH COUNTY, UTAH

DMA-1162

SUPPLEMENTARY INFORMATION

By M. H. Howes

TIME SCHEDULE

Project No. 1

250 feet trenching	2 days
Headframe construction	3 "
Hoisthouse (10 ft. by 12 ft. shed) construction	3 "
50 feet shaft sinking at 1-1/2 feet per day	34 days or 1-1/4 months
50 feet drifting at 3 feet per day	16 days or 3/4 "
Total	2-1/3 months

Project No. 2

50 feet shaft sinking at 1-1/2 feet per day	34 days or 1-1/4 months
100 feet drifting at 3 feet per day	34 days or 1-1/4 months
Total	2-1/2 months

Total time for both projects 5 months

ESTIMATED COSTS

Rental Costs Per Month

105 cu. ft. compressor (gasoline driven) with accessories	$ 131.00
Air driven Tugger hoist (2000 lb. capacity) with cable	75.00
Two sinking buckets at $10.00 each	20.00
45 lb.-jackhammer with drill steel	40.00
One mine car	15.00
Air pipe, mine rails, water pressure tank	18.00
Total	$299.00

Labor Costs

Three miners at $16.00 per day (includes overtime and insurance)	48.00
Supervision, sampling, bookkeeping, transportation, per day	4.00
Total	$ 52.00

Service on Gasoline-Driven Compressor

Fuel, lubrication, maintenance per day	$ 10.00

Tractor Bulldozer

Contract price per day	100.00

Costs Per Foot of Shaft Sinking and Drifting

Explosives	3.00
Shaft timber	6.00
Drift timber	1.00
Miscellaneous (drill bits, steel, etc.)	1.50

Project No. 1

Trenching (2 days)

Tractor bulldozer at $100.00 per day		$ 200.00

Headframe (3 days)

Material (timber, nails, etc.)	$ 125.60	
Labor - 3 men at $54.00 per day	162.00	290.60

Bunkhouse (10 ft. by 12 ft. shed) (3 days)

Material (lumber, roofing, nails, etc.	125.00	
Labor - 3 men at $54.00 per day	162.00	287.00

Shaft Sinking (50 ft.) (34 days or 1-1/4 months)

Labor - 34 days at $54.00 per day	1,836.00	
Rentals - 1-1/4 months at $350.00 per month	437.50	
Compressor service - 34 days at $10 per day	340.00	
Explosives - 50 ft. sinking at $3.00 per ft.	150.00	
Timber - 50 ft. shaft at $6.00 per ft.	300.00	
Miscellaneous - 50 ft. shaft at $1.50 per ft.	75.00	3,138.50

Drifting (50 ft) (16 days or 3/4 month)

Labor - 16 days at $54.00 per day	864.00	
Rentals - 3/4 mo. at $350.00 per month	262.50	
Compressor service - 16 days at $10 per day	160.00	
Explosives - 50 ft. drifting at $3.00 per ft.	150.00	
Timber - 50 ft. drift at $1.00 per ft.	50.00	
Miscellaneous - 50 ft. drift at $1.50 per ft.	75.00	1,561.50

Total cost, project 1		$5,477.60
Government participation (75 percent)	4,108.20	
Applicant participation (25 percent)	1,369.40	$5,477.60

Project No. 2

Shaft Sinking (50 ft.) (34 days or 1-1/4 months)

Labor - 34 days at $54.00 per day	$1,836.00	
Rentals - 1-1/4 mo. at $350.00 per month	437.50	
Compressor service - 34 days at $10 per day	340.00	
Explosives - 50 ft. sinking at $3.00 per ft.	150.00	
Timber - 50 ft. shaft at $6.00 per ft.	300.00	
Miscellaneous - 50 ft. shaft at $1.50 per ft.	75.00	$3,138.50

Drifting (100 ft.) (34 days or 1-1/4 months)

Labor - 34 days at $54.00 per day	1,836.00	
Rentals - 1-1/4 mo. at $350.00 per mo.	437.50	
Compressor service - 34 days at $10 per day	340.00	
Explosives - 100 ft. drifting at $3.00 per ft.	300.00	
Timber - 100 ft. drift at $1.00 per ft.	100.00	
Miscellaneous - 100 ft. drift at $1.50 per ft.	150.00	3,163.00

Total cost, project 2		$6,302.00
Government participation (75 percent)	4,726.50	
Applicant participation (25 percent)	1,575.50	6,302.00

Total cost both projects		$11,779.60
Government participation (75 percent)	$8,834.70	
Applicant participation (25 percent)	2,944.90	11,779.60

Mr. Alt

DEFENSE MINERALS ADMINISTRATION
WASHINGTON D. C.

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

Oct 26 8 42 AM '51

DEPARTMENT OF THE INTERIOR
RECEIVED
OCT 26 1951
Defense Minerals Administration,
Production Expansion Division.

224 New Customhouse
Denver 2, Colorado

October 22, 1951

Memorandum

To: Tom Lyon, Chairman, Coordinating Committee
Defense Minerals Administration

From: Executive Officer, DMA Field Team, Region IV

Subject: DMA Docket 1162, Fields-Haynes Manganese Deposit

Enclosed herewith are six copies of supplementary information prepared for the above report, as requested in your letter dated October 2, 1951.

Paul T. Allsman

P. T. Allsman, Alternate

Enclosures

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

224 New Customhouse
Denver 2, Colorado

October 22, 1951

Memorandum

To: Tom Lyon, Chairman, Coordinating Committee
Defense Minerals Administration

From: Executive Officer, DMA Field Team, Region IV

Subject: DMA Docket 1162, Fields-Haynes Manganese Deposit

Enclosed herewith are six copies of supplementary information prepared for the above report, as requested in your letter dated October 2, 1951.

F. T. Allsman, Alternate

Enclosures

JFS:LD

DEFENSE MINERALS
ADMINISTRATION
WASHINGTON, D. C.
OCT 26 8 42 AM '51

FIELDS-HAYNES MANGANESE DEPOSIT

UTAH COUNTY, UTAH

DMA-1162

SUPPLEMENTARY INFORMATION

By M. H. Howes

TIME SCHEDULE

Project No. 1

250 feet trenching	2 days
Headframe construction	3 "
Hoisthouse (10 ft. by 12 ft. shed) construction	3 "
50 feet shaft sinking at 1-1/2 feet per day	34 days or 1-1/4 months
50 feet drifting at 3 feet per day	16 days or 3/4 "
Total	2-1/3 months

Project No. 2

50 feet shaft sinking at 1-1/2 feet per day	34 days or 1-1/4 months
100 feet drifting at 3 feet per day	34 days or 1-1/4 months
Total	2-1/2 months
Total time for both projects	5 months

ESTIMATED COSTS

Rental Costs Per Month

105 cu. ft. compressor (gasoline driven) with accessories	$ 181.00
Air driven Tugger hoist (2000 lb. capacity) with cable	73.00
Two sinking buckets at $10.00 each	20.00
45 lb.-jackhammer with drill steel	40.00
One mine car	18.00
Air pipe, mine rails, water pressure tank	18.00
Total	$350.00

Labor Costs

Three miners at $16.00 per day (includes overtime and insurance)	48.00
Supervision, sampling, bookkeeping, transportation, per day	6.00
Total	$ 54.00

Service on Gasoline-Driven Compressor

Fuel, lubrication, maintenance per day	$ 10.00

Tractor Bulldozer

Contract price per day	100.00

Costs Per Foot of Shaft Sinking and Drifting

Explosives	3.00
Shaft timber	6.00
Drift timber	1.00
Miscellaneous (drill bits, steel, etc.)	1.50

Project No. 1

Trenching (2 days)		
Tractor bulldozer at $100.00 per day		$ 200.00
Headframe (3 days)		
Material (timber, nails, etc.)	$ 128.60	
Labor - 3 men at $54.00 per day	162.00	290.60
Hoisthouse (10 ft. by 12 ft. shed) (3 days)		
Material (lumber, roofing, nails, etc.	125.00	
Labor - 3 men at $54.00 per day	162.00	287.00
Shaft Sinking (50 ft.) (34 days or 1-1/4 months)		
Labor - 34 days at $54.00 per day	1,836.00	
Rentals - 1-1/4 months at $350.00 per month	437.50	
Compressor service - 34 days at $10 per day	340.00	
Explosives - 50 ft. sinking at $3.00 per ft.	150.00	
Timber - 50 ft. shaft at $6.00 per ft.	300.00	
Miscellaneous - 50 ft, sgaft at $1.50 per ft.	75.00	3,138.50
Drifting (50 ft) (16 days or 3/4 month)		
Labor - 16 days at $54.00 per day	864.00	
Rentals - 3/4 mo. at $350.00 per month	262.50	
Compressor service - 16 days at $10 per day	160.00	
Explosives - 50 ft. drifting at $3.00 per ft.	150.00	
Timber - 50 ft. drift at $1.00 per ft.	50.00	
Miscellaneous - 50 ft. drift at $1.50 per ft.	75.00	1,561.50
Total cost, project 1		$5,477.60
Government participation (75 percent)	4,108.20	
Applicant participation (25 percent)	1,369.40	$5,477.60

Project No. 2

Shaft Sinking (50 ft.) (34 days or 1-1/4 months)

Labor - 34 days at $54.00 per day	$1,836.00	
Rentals - 1-1/4 mo. at $350.00 per month	437.50	
Compressor service - 34 days at $10 per day	340.00	
Explosives - 50 ft. sinking at $3.00 per ft.	150.00	
Timber - 50 ft. shaft at $6.00 per ft.	300.00	
Miscellaneous - 50 ft. shaft at $1.50 per ft.	75.00	$3,138.50

Drifting (100 ft.) (34 days or 1-1/4 months)

Labor - 34 days at $54.00 per day	1,836.00	
Rentals - 1-1/4 mo. at $350.00 per mo.	437.50	
Compressor service - 34 days at $10 per day	340.00	
Explosives - 100 ft. drifting at $3.00 per ft.	300.00	
Timber - 100 ft. drift at $1.00 per ft.	100.00	
Miscellaneous - 100 ft. drift at $1.50 per ft.	150.00	3,163.00
Total cost, project 2		$6,302.00
Government participation (75 percent)	4,726.50	
Applicant participation (25 percent)	1,575.50	6,302.00

Total cost both projects		$11,779.60
Government participation (75 percent)	$8,834.70	
Applicant participation (25 percent)	2,944.90	11,779.60

DEFENSE MINERALS
ADMINISTRATION
WASHINGTON, D. C.

OCT 26 8 42 AM '51

FIELDS-HAYNES MANGANESE DEPOSIT

UTAH COUNTY, UTAH

DMA-1162

SUPPLEMENTARY INFORMATION

By M. H. Bowen

TIME SCHEDULE

Project No. 1

250 feet trenching	2 days
Headframe construction	3 "
Hoisthouse (10 ft. by 12 ft. shed) construction	3 "
50 feet shaft sinking at 1-1/2 feet per day	34 days or 1-1/4 months
50 feet drifting at 3 feet per day	16 days or 3/4 "
Total	2-1/3 months

Project No. 2

50 feet shaft sinking at 1-1/2 feet per day	34 days or 1-1/4 months
100 feet drifting at 3 feet per day	34 days or 1-1/4 months
Total	2-1/2 months

Total time for both projects 5 months

ESTIMATED COSTS

Rental Costs Per Month

105 cu. ft. compressor (gasoline driven) with accessories	$ 181.00
Air driven Tugger hoist (2000 lb. capacity) with cable	73.00
Two sinking buckets at $30.00 each	20.00
45 lb.-jackhammer with drill steel	40.00
One mine car	18.00
Air pipe, mine rails, water pressure tank	18.00
Total	$350.00

Labor Costs

Three miners at $16.00 per day (includes overtime and insurance)	48.00
Supervision, sampling, bookkeeping, transportation, per day	6.00
Total	$ 54.00

Service on Gasoline-Driven Compressor

Fuel, lubrication, maintenance per day	$ 10.00

Tractor Bulldozer

Contract price per day	100.00

Costs Per Foot of Shaft Sinking and Drifting

Explosives	3.00
Shaft timber	6.00
Drift timber	1.00
Miscellaneous (drill bits, steel, etc.)	1.50

Project No. 1

Trenching (2 days)

Tractor bulldozer at $100.00 per day		$ 200.00

Headframe (3 days)

Material (timber, nails, etc.)	$ 126.60	
Labor - 3 men at $54.00 per day	162.00	290.60

Hoisthouse (10 ft. by 12 ft. shed) (3 days)

Material (lumber, roofing, nails, etc.	125.00	
Labor - 3 men at $54.00 per day	162.00	287.00

Shaft Sinking (50 ft.) (34 days or 1-1/4 months)

Labor - 34 days at $54.00 per day	1,836.00	
Rentals - 1-1/4 months at $350.00 per month	437.50	
Compressor service - 34 days at $10 per day	340.00	
Explosives - 50 ft. sinking at $3.00 per ft.	150.00	
Timber - 50 ft. shaft at $6.00 per ft.	300.00	
Miscellaneous - 50 ft. sgaft at $1.50 per ft.	75.00	3,138.50

Drifting (50 ft) (16 days or 3/4 month)

Labor - 16 days at $54.00 per day	864.00	
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Explosives - 50 ft. drifting at $3.00 per ft.	150.00	
Timber - 50 ft. drift at $1.00 per ft.	50.00	
Miscellaneous - 50 ft. drift at $1.50 per ft.	75.00	1,561.50

Total cost, project 1		$5,477.60
Government participation (75 percent)	4,108.20	
Applicant participation (25 percent)	1,369.40	$5,477.60

Project No. 2

Shaft Sinking (50 ft.) (34 days or 1-1/4 months)

Labor - 34 days at $54.00 per day	$1,836.00	
Rentals - 1-1/4 mo. at $350.00 per month	437.50	
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Explosives - 50 ft. sinking at $3.00 per ft.	150.00	
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Miscellaneous - 50 ft. shaft at $1.50 per ft.	75.00	$3,138.50

Drifting (100 ft.) (34 days or 1-1/4 months)

Labor - 34 days at $54.00 per day	1,836.00	
Rentals - 1-1/4 mo. at $350.00 per mo.	437.50	
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Government participation (75 percent)	4,726.50	
Applicant participation (25 percent)	1,575.50	6,302.00

Total cost both projects		$11,779.60
Government participation (75 percent)	$8,834.70	
Applicant participation (25 percent)	2,944.90	11,779.60

DEFENSE MINERALS
ADMINISTRATION
WASHINGTON, D. C.

OCT 26 8 42 AM '51

FIELDS-HAYNES MANGANESE DEPOSIT

UTAH COUNTY, UTAH

DMA-1162

SUPPLEMENTARY INFORMATION

By M. H. Howes

TIME SCHEDULE

Project No. 1

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ESTIMATED COSTS

Rental Costs Per Month

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Air driven Tugger hoist (2000 lb. capacity) with cable	73.00
Two sinking buckets at $10.00 each	20.00
45 lb.-jackhammer with drill steel	40.00
One mine car	18.00
Air pipe, mine rails, water pressure tank	18.00
Total	$350.00

Labor Costs

Three miners at $16.00 per day (includes overtime and insurance)	48.00
Supervision, sampling, bookkeeping, transportation, per day	6.00
Total	$ 54.00

Service on Gasoline-Driven Compressor

Fuel, lubrication, maintenance per day	$ 10.00

Tractor Bulldozer

Contract price per day	100.00

Costs Per Foot of Shaft Sinking and Drifting

Explosives	3.00
Shaft timber	6.00
Drift timber	1.00
Miscellaneous (drill bits, steel, etc.)	1.50

Project No. 1

Trenching (2 days)

Tractor bulldozer at $200.00 per day		$ 200.00

Headframe (3 days)

Material (timber, nails, etc.)	$ 128.60	
Labor - 3 men at $54.00 per day	162.00	290.60

Boilerhouse (10 ft. by 12 ft. shed) (3 days)

Material (lumber, roofing, nails, etc.	125.00	
Labor - 3 men at $54.00 per day	162.00	287.00

Shaft Sinking (50 ft.) (3½ days or 1-1/4 months)

Labor - 3½ days at $54.00 per day	1,836.00	
Rentals - 1-1/4 months at $350.00 per month	437.50	
Compressor service - 3½ days at $10 per day	140.00	
Explosives - 50 ft. sinking at $3.00 per ft.	150.00	
Timber - 50 ft. shaft at $6.00 per ft.	300.00	
Miscellaneous - 50 ft. shaft at $1.50 per ft.	75.00	3,138.50

Drifting (50 ft) (16 days or 3/4 month)

Labor - 16 days at $54.00 per day	864.00	
Rentals - 3/4 mo. at $350.00 per month	262.50	
Compressor service - 16 days at $10 per day	160.00	
Explosives - 50 ft. drifting at $3.00 per ft.	150.00	
Timber - 50 ft. drift at $1.00 per ft.	50.00	
Miscellaneous - 50 ft. drift at $1.50 per ft.	75.00	1,561.50

Total cost, project 1		$5,477.60
Government participation (75 percent)	4,108.20	
Applicant participation (25 percent)	1,369.40	$5,477.60

Project No. 2

Shaft Sinking (50 ft.) (34 days or 1-1/4 months)

Labor - 34 days at $54.00 per day	$1,836.00	
Rentals - 1-1/4 mo. at $350.00 per month	437.50	
Compressor service - 34 days at $10 per day	340.00	
Explosives - 50 ft. sinking at $3.00 per ft.	150.00	
Timber - 50 ft. shaft at $6.00 per ft.	300.00	
Miscellaneous - 50 ft. shaft at $1.50 per ft.	75.00	$3,138.50

Drifting (100 ft.) (34 days or 1-1/4 months)

Labor - 34 days at $54.00 per day	1,836.00	
Rentals - 1-1/4 mo. at $350.00 per mo.	437.50	
Compressor service - 34 days at $10 per day	340.00	
Explosives - 100 ft. drifting at $3.00 per ft.	300.00	
Timber - 100 ft. drift at $1.00 per ft.	100.00	
Miscellaneous - 100 ft. drift at $1.50 per ft.	150.00	3,163.00

Total cost, project 2		$6,302.00
Government participation (75 percent)	4,726.50	
Applicant participation (25 percent)	1,575.50	6,302.00

Total cost both projects		$11,779.60
Government participation (75 percent)	$8,834.70	
Applicant participation (25 percent)	2,944.90	11,779.60

DEFENSE MINERALS
ADMINISTRATION
WASHINGTON, D. C.
OCT 26 8 42 AM '51

FIELDS-HAYNES MANGANESE DEPOSIT

UTAH COUNTY, UTAH

DMA-1162

SUPPLEMENTARY INFORMATION

By M. H. Howes

TIME SCHEDULE

Project No. 1

600 feet trenching	2 days
Headframe construction	3 "
Hoisthouse (10 ft. by 12 ft. shed) construction	3 "
50 feet shaft sinking at 1-1/2 feet per day	34 days or 1-1/4 months
50 feet drifting at 3 feet per day	16 days or 3/4 "
Total	2-1/3 months

Project No. 2

50 feet shaft sinking at 1-1/2 feet per day	34 days or 1-1/4 months
100 feet drifting at 3 feet per day	34 days or 1-1/4 months
Total	2-1/2 months

Total time for both projects 5 months

ESTIMATED COSTS

Rental Costs Per Month

105 cu. ft. compressor (gasoline driven) with accessories	$ 181.00
Air driven Tugger hoist (2000 lb. capacity) with cable	73.00
Two sinking buckets at $10.00 each	20.00
45 lb.-jackhammer with drill steel	40.00
One mine car	18.00
Air pipe, mine rails, water pressure tank	18.00
Total	$350.00

Labor Costs

Three miners at $16.00 per day (includes overtime and insurance)	48.00
Supervision, sampling, bookkeeping, transportation, per day	6.00
Total	$ 54.00

Service on Gasoline-Driven Compressor

Fuel, lubrication, maintenance per day	$ 10.00

Tractor Bulldozer

Contract price per day	100.00

Costs Per Foot of Shaft Sinking and Drifting

Explosives	3.00
Shaft timber	6.00
Drift timber	1.00
Miscellaneous (drill bits, steel, etc.)	1.50

Project No. 1

Trenching (2 days)

Tractor bulldozer at $100.00 per day		$ 200.00

Headframe (3 days)

Material (timber, nails, etc.)	$ 128.60	
Labor - 3 men at $54.00 per day	162.00	290.60

Hoisthouse (10 ft by 12 ft. shed) (3 days)

Material (lumber, roofing, nails, etc.	125.00	
Labor - 3 men at $54.00 per day	162.00	287.00

Shaft Sinking (50 ft.) (34 days or 1-1/4 months)

Labor - 34 days at $54.00 per day	1,836.00	
Rentals - 1-1/4 months at $350.00 per month	437.50	
Compressor service - 34 days at $10 per day	340.00	
Explosives - 50 ft. sinking at $3.00 per ft.	150.00	
Timber - 50 ft. shaft at $6.00 per ft.	300.00	
Miscellaneous - 50 ft, sgaft at $1.50 per ft.	75.00	3,138.50

Drifting (50 ft) (16 days or 3/4 month)

Labor - 16 days at $54.00 per day	864.00	
Rentals - 3/4 mo. at $350.00 per month	262.50	
Compressor service - 16 days at $10 per day	160.00	
Explosives - 50 ft. drifting at $3.00 per ft.	150.00	
Timber - 50 ft. drift at $1.00 per ft.	50.00	
Miscellaneous - 50 ft. drift at $1.50 per ft.	75.00	1,561.50
Total cost, project 1		$5,477.60
Government participation (75 percent)	4,108.20	
Applicant participation (25 percent)	1,369.40	$5,477.60

Project No. 2

Shaft Sinking (50 ft.) (34 days or 1-1/4 months)

Labor - 34 days at $54.00 per day	$1,836.00	
Rentals - 1-1/4 mo. at $350.00 per month	437.50	
Compressor service - 34 days at $10 per day	340.00	
Explosives - 50 ft. sinking at $3.00 per ft.	150.00	
Timber - 50 ft. shaft at $6.00 per ft.	300.00	
Miscellaneous - 50 ft. shaft at $1.50 per ft.	75.00	$3,138.50

Drifting (100 ft.) (34 days or 1-1/4 months)

Labor - 34 days at $54.00 per day	1,836.00	
Rentals - 1-1/4 mo. at $350.00 per mo.	437.50	
Compressor service - 34 days at $10 per day	340.00	
Explosives - 100 ft. drifting at $3.00 per ft.	300.00	
Timber - 100 ft. drift at $1.00 per ft.	100.00	
Miscellaneous - 100 ft. drift at $1.50 per ft.	150.00	3,163.00

Total cost, project 2		$6,302.00
Government participation (75 percent)	4,726.50	
Applicant participation (25 percent)	1,575.50	6,302.00

Total cost both projects		$11,779.60
Government participation (75 percent)	$8,834.70	
Applicant participation (25 percent)	2,944.90	11,779.60

DEFENSE MINERALS
ADMINISTRATION
WASHINGTON, D. C.

OCT 26 8 42 AM '51

FIELDS-HAYNES MANGANESE DEPOSIT

UTAH COUNTY, UTAH

DMA-1162

SUPPLEMENTARY INFORMATION

By M. H. Howes

TIME SCHEDULE

Project No. 1

250 feet trenching	2 days
Headframe construction	3 "
Hoisthouse (10 ft. by 12 ft. shed) construction	3 "
90 feet shaft sinking at 1-1/2 feet per day	14 days or 1-1/4 months
50 feet drifting at 3 feet per day	16 days or 3/4 "
Total	2-1/3 months

Project No. 2

90 feet shaft sinking at 1-1/2 feet per day	14 days or 1-1/4 months
100 feet drifting at 3 feet per day	14 days or 1-1/4 months
Total	2-1/2 months
Total time for both projects	5 months

ESTIMATED COSTS

Rental Costs Per Month

105 cu. ft. compressor (gasoline driven) with accessories	$ 181.00
Air driven Tugger hoist (2000 lb. capacity) with cable	73.00
Two sinking buckets at $10.00 each	20.00
45 lb.-jackhammer with drill steel	40.00
One mine car	18.00
Air pipe, mine rails, water pressure tank	18.00
Total	$350.00

Labor Costs

Three miners at $16.00 per day (includes overtime and insurance)	48.00
Supervision, sampling, bookkeeping, transportation, per day	6.00
Total	$ 54.00

Service on Gasoline-Driven Compressor

Fuel, lubrication, maintenance per day	$ 10.00

Tractor Bulldozer

Contract price per day	100.00

Costs Per Foot of Shaft Sinking and Drifting

Explosives	3.00
Shaft timber	6.00
Drift timber	1.00
Miscellaneous (drill bits, steel, etc.)	1.50

Project No. 1

Trenching (2 days)

Tractor bulldozer at $100.00 per day		$ 200.00

Headframe (3 days)

Material (timber, nails, etc.)	$ 128.60	
Labor - 3 men at $54.00 per day	162.00	290.60

Bathhouse (10 ft. by 12 ft. hipped) (3 days)

Material (lumber, roofing, nails, etc.	125.00	
Labor - 3 men at $54.00 per day	162.00	287.00

Shaft Sinking (50 ft.) (34 days or 1-1/4 months)

Labor - 34 days at $54.00 per day	1,836.00	
Rentals - 1-1/4 months at $350.00 per month	437.50	
Compressor service - 34 days at $10 per day	340.00	
Explosives - 50 ft. sinking at $3.00 per ft.	150.00	
Timber - 50 ft. shaft at $6.00 per ft.	300.00	
Miscellaneous - 50 ft. shaft at $1.50 per ft.	75.00	3,138.50

Drifting (50 ft) (16 days or 3/4 month)

Labor - 16 days at $54.00 per day	864.00	
Rentals - 3/4 mo. at $350.00 per month	262.50	
Compressor service - 16 days at $10 per day	160.00	
Explosives - 50 ft. drifting at $3.00 per ft.	150.00	
Timber - 50 ft. drift at $1.00 per ft.	50.00	
Miscellaneous - 50 ft. drift at $1.50 per ft.	75.00	1,561.50

Total cost, project 1		$5,477.60
Government participation (75 percent)	4,108.20	
Applicant participation (25 percent)	1,369.40	$5,477.60

Project No. 2

Shaft Sinking (50 ft.) (34 days or 1-1/4 months)

Labor - 34 days at $54.00 per day	$1,836.00	
Rentals - 1-1/4 mo. at $350.00 per month	437.50	
Compressor service - 34 days at $10 per day	340.00	
Explosives - 50 ft. sinking at $3.00 per ft.	150.00	
Timber - 50 ft. shaft at $6.00 per ft.	300.00	
Miscellaneous - 50 ft. shaft at $1.50 per ft.	75.00	$3,138.50

Drifting (100 ft.) (34 days or 1-1/4 months)

Labor - 34 days at $54.00 per day	1,836.00	
Rentals - 1-1/4 mo. at $350.00 per mo.	437.50	
Compressor service - 34 days at $10 per day	340.00	
Explosives - 100 ft. drifting at $3.00 per ft.	300.00	
Timber - 100 ft. drift at $1.00 per ft.	100.00	
Miscellaneous - 100 ft. drift at $1.50 per ft.	150.00	3,163.00

Total cost, project 2		$6,302.00
Government participation (75 percent)	4,726.50	
Applicant participation (25 percent)	1,575.50	6,302.00

Total cost both projects		$11,779.60
Government participation (75 percent)	$8,834.70	
Applicant participation (25 percent)	2,944.90	11,779.60

FILE COPY
SURNAME:

Holderer
Hayes

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

OCT 2 1951

Mr. Carl W. Fields
Eureka, Utah

In reply please refer to
DMA-1162

Dear Mr. Fields:

In answer to your letter of September 17, 1951, we have in our files a letter stating that you are unable to pay your portion of the proposed project. Unless you are able to participate in some manner, it will be impossible for us to approve the loan. Enclosed is a copy of MO-5, detailing various ways in which you may contribute your 25% to the project. Towards from four to six weeks may elapse before payments on your first vouchers can be expected. Therefore, it will be necessary for you to finance the program for this period.

We would like to have a detailed list of all equipment which you have on hand for use in the exploration. It is also necessary that you submit a list of the equipment that you intend to rent and the rental to be paid for each item.

The figures you have submitted give no cost estimates for the proposed work. An itemized accounting of these costs, giving classifications of labor, wages of each, prices of supplies and timber, is required.

Your application cannot be fully approved until we have received this information.

Very truly yours,

George B. Holderer

George B. Holderer
Chief, Manganese Branch

Enclosure

CHJacoby:ec
9/28/51

CC: Adm. Reading File
DMA Docket File
Mr. Holderer
Field Team Region IV
Mr. Crittenden
Mr. Melcher

FILE COPY
SURNAME:

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

Holderer
McAlles
Thayer

OCT 2 1951

O.C.C.

Mr. J. W. East, Jr. Executive Officer
DMA Field Team, Region IV
224 New Customhouse Building
Denver, Colorado

Subject: DMA-1162 Manganese
Earl H. Fields and Theodore Hayne
Eureka, Utah - Property-The Graphite
Hermoine, Lexington and other claims
in the Eureka district.

Dear Mr. East:

We would like a breakdown of cost figures recently submitted by the Field Team on this property. A figure of $72 per foot for shaft sinking, $30 per foot for drifting, and $350 per month rental on necessary equipment was given in the Field Team Report. An itemization of equipment and rentals, together with a classification of labor and wages, is desired.

Very truly yours,

Tom Lyon
Tom Lyon, Chairman
Coordinating Committee

Enclosure

Lowell B. Moon

Bureau of Mines

Thayer

Geological Survey

~~TYPXXXXXXXX~~
CHJacoby:ec
9/28/51

CC: Adm. Reading File
DMA Docket File
Coord. Comm.
Mr. Holderer
Mr. Melcher
Mr. Crittenden

9 f 10-2

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

SEP 1 8 1951

Memorandum

To: Production Expansion Division

Through: Director, Supply Division

From: Chief, Manganese Branch

Subject: Carl H. Fields and Theodore Haynes
DMA-1162X, Manganese
Eureka, Utah
Exploration Loan: Government Participation - ~~$16,785~~. $15,750.00 75%

Property: Fields-Haynes Manganese Deposit
Utah County, Utah

Conclusions:

The small size of the outcrop does not warrant the proposed amount of exploration. The need of the nearby Geneva Steel plant does justify some exploration on the property.

The ore thus far tested, assays 22.2% manganese, 2.1% iron, and 19.6% silica-dioxide. Metallurgical tests show that concentration to a high grade material involves excessive losses. The Geneva Steel plant will accept material of this manganese content.

Transportation is readily available and the deposit is approximately 30 miles from the Geneva Steel plant.

The Mangamese Branch recommends that a two-phase loan program be approved. This would include the following:

Phase # 1

Sinking a 5' x 7' shaft in ore 50' or less if the manganese bed pinches out. Drifting 50' in ore in each direction or until the ore pinches out. The approximate costs are estimated as follows:

Surface trenches		$200.00	
Shaft sinking 5'x 7'x 50' @ $70/ft.		$3,500.00	
Drifting 5'x7'x 100' @ $30/ft.		$3,000.00	(?) $6,700.00
		$7,700.00	
4 months rental @ $350/mo.	$1,400.00		
Timber costs	195.00		
	$1,595.00	$1,595.00	
		$9,295.00	
Bookeeping, Engineering and Assaying		705.00	(?) $9,000.00
Total Costs of Phase # 1		$10,000.00	

If the first phase of the project is succesful, the Manganese Branch recommends that the second phase be started. The second phase will consist of deepening the shaft to 100' overall depth and drifting 100 feet in each direction on the 100 foot level. The cost of this second phase is estimated as follows:

Deepening of shaft 5'x 7'x 50' @ $70/ft.		3,500.00	
Drifting 200' at $30/ft.		6,000.00	
Cost		$9,500.00	
4 mo. rental @ $350/mo	$1,400.00		
Timber	1,000.00		
	$ 2,400.00	$2,400.00	
		$11,900.00	
Bookeeping, Engineering and Assaying		600.00	
Total cost of phase # 2		$12,500.00	
Total cost of phase # 1		$10,000.00	(?) $9,000.00
Project total cost - - - - - - - -		$22,500.00	(?) $21,500.00

If at anytime shafts or drifts run out of the ore, exploration should be discontinued. With this foregoing understanding, the Manganese Branch approves a loan of ~~$22,500.00~~. $21,500.00

George B. Holderer
Chief, Manganese Branch

Approved:

Director, Supply Division

DMA Docket file

340
FILE COPY
SURNAME:

Holden Fencing

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

SEP 18 1951

Memorandum

To: Production Expansion Division

Through: Director, Supply Division

From: Chief, Manganese Branch

Subject: Carl H. Fields and Theodore Haynes
DMA-1162X, Manganese
Eureka, Utah
Exploration Loan: Government Participation - $16,785.

Property: Fields-Haynes Manganese Deposit
Utah County, Utah

Conclusions:

The small size of the outcrop does not warrant the proposed amount of exploration. The need of the nearby Geneva Steel plant does justify some exploration on the property.

The ore thus far tested, assays 22.2% manganese, 2.1% iron, and 19.6% silica-dioxide. Metallurgical tests show that concentration to a high grade material involves excessive losses. The Geneva Steel plant will accept material of this manganese content.

Transportation is readily available and the deposit is approximately 30 miles from the Geneva Steel plant.

The Manganese Branch recommends that a two-phase loan program be approved. This would include the following:

Phase # 1

Sinking a 5' x 7' shaft in ore 50' or less if the manganese bed pinches out. Drifting 50' in ore in each direction or until the ore pinches out. The approximate costs are estimated as follows:

Surface trenches		$200.00
Shaft sinking 5'x 7'x 50' @ $70/ft.		$3,500.00
Drifting 5'x7'x 100' @ $30/ft.		$3,000.00
		$7,700.00
4 months rental @ $350/mo.	$1,400.00	
Timber costs	195.00	
	$1,595.00	$1,595.00
		$9,295.00
Bookeeping, Engineering and Assaying		705.00
Total Costs of Phase # 1		$10,000.00

If the first phase of the project is successful, the Manganese Branch recommends that the second phase be started. The second phase will consist of deepening the shaft to 100' overall depth and drifting 100 feet in each direction on the 100 foot level. The cost of this second phase is estimated as follows:

Deepening of shaft 5'x 7'x 50' @ $70/ft.		3,500.00
Drifting 200' at $30/ft.		6,000.00
Cost		$9,500.00
4 mo. rental @ $350/mo	$1,400.00	
Timber	1,000.00	
	$ 2,400.00	$2,400.00
		$11,900.00
Bookeeping, Engineering and Assaying		600.00
Total cost of phase # 2		$12,500.00
Total cost of phase # 1		$10,000.00
Project total cost - - - - - - - -		$22,500.00

If at anytime shafts or drifts run out of the ore, exploration should be discontinued. With this foregoing understanding, the Manganese Branch approves a loan of $22,500.00.

George B. Holderer

George B. Holderer
Chief, Manganese Branch

not stripped in FAR

Approved:

Tom Lyon

Director, Supply Division

CH Jacoby:ll 9/17/51
CC: DMA Docket File
Adm. Reading File
Mr. Holderer

Mr. Alt

DEPARTMENT OF THE INTERIOR
RECEIVED
SEP 21 1951
Defense Minerals Administration,
Production Expansion Division.

Eureka, Utah

OFFICIAL FILE COPY

September 17, 1951

To	Init.	Date
700	a SC	9-21
210		

Dr. James Boyd
Administrator
Defense Minerals Administration
Department of the Interior
Washington 25, D.C.

Dear Dr. Boyd:

Nearly two months ago the field team of the United States Geological Survey made an examination and report on our mining property on which we are attempting to secure a loan and is numbered DMA-1162.

We are quite anxious to know what disposition you are going to make on this case and would appreciate a letter from you giving such information as you could.

Yours very truly,

Carl H. Fields
Carl H. Fields

Theodore Haynes
Theodore Haynes

DEFENSE MINERALS ADMINISTRATION WASHINGTON, D.C.
SEP 20 3 23 PM '51

9/21/51 — Reply by Jacoby of Manganese Branch.

Eureka, Utah

September 17, 1951

Mr. Tom Lyon
Director Supply Division
Defense Minerals Administration
Department of the Interior
Washington 25, D. C.

Dear Mr. Lyon:

Nearly two months ago the field team of the United States Geological Survey made an examination and report on our mining property on which we are attempting to secure a loan and is numbered DMA-1162.

We are quite anxious to know what disposition you are going to make on this case and would appreciate a letter from you giving such information as you could.

Yours very truly,

Carl H. Fields

Carl H. Fields

Theodore Haynes

Theodore Haynes

9/21/51
Answered to your letter of 9/17/51
cmj

MF-500

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

REFERENCE SLIP

DATE 9-20

REFERRED TO:

SEP 21 1951
Rec'd by
Mr. Shedeker

1. Mr Halderer
2.
3.
4.

FOR:

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

REMARKS: ----------

Check (X) before the items needing attention.

J Lyon
Initials of sender.

GPO 16—63815-1

UNITED STATES
DEPARTMENT OF THE INTERIOR

BUREAU OF MINES
DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 27 1951

OFFICE OF
REGIONAL DIRECTOR

224 NEW CUSTOMHOUSE
DENVER 2, COLORADO

August 24, 1951

Gave Max C. a copy
8/27/51

Memorandum

To: Executive Secretary, Defense Minerals Administration

From: DMA Field Team, Region IV

Subject: DMA Docket 1162, Fields_Haynes Manganese Deposit, Utah County, Utah

Enclosed herewith are original and two copies of the geological and mining report on the above application.

We agree with the examining team that Project No. 1 be approved and that the recommendations regarding Project No. 2 be dependent upon the results of Project No. 1.

J. H. East, Jr.

A. H. Koschmann

Enclosures

See "Supplementary Report" - of Oct 22 in file

Mining Division
Region IV

August 24, 1951

Memorandum

To: DMA Field Team, Region IV

From: Chief, Mining Division, Region IV

Subject: DMA Docket 1162, Fields-Haynes Manganese Deposit, Utah County, Utah

The engineering features of the attached report have been reviewed by the Mining Division and we concur with the recommendation that Project No. 1 be approved, and that recommendations regarding Project No. 2 be dependent upon the results of Project No. 1.

P. T. Allman

bd

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Defense Minerals Administration
200 New Customhouse
Denver 2, Colorado

August 22, 1951

Memorandum

To: DMA Field Team, Region IV

From: A. H. Koschmann

Subject: DMA Docket 1162, Fields-Haynes Manganese Deposit, Utah County, Utah

Enclosed are eight copies of the geologic and mining report by Paul Dean Proctor of the U. S. Geological Survey and M. H. Howes of the U. S. Bureau of Mines covering the above docket.

A. H. Koschmann
A. H. Koschmann
Supervising Geologist
Colorado-Wyoming

Enclosures (9)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Room 307, 320 South Main
Salt Lake City 1, Utah
20 August 1951

Memorandum

To: A. H. Koschmann, Field Team, Region IV

From: Ralph J. Roberts

Subject: Docket DMA 1162, Fields-Haynes Manganese Deposit, Utah County, Utah

Enclosed are 8 copies of a geological and mining report of the Field-Haynes Manganese Deposit, Utah County, Utah made in response to a field examination request to Field Team IV with respect to an application loan for $24,000 to explore a manganese deposit.

The manganese deposit occurs on a replacement of limestone and jasperoid at a limestone and dolomite contact. Metallurgical tests run by the U. S. Bureau of Mines, shows the ore as not being amenable to metallurgical treatment and still remain of commercial grade. However, the need of Manganese by the nearby Geneva Steel Company may justify the modified exploration program presented herein.

It is recommended that the Defense Minerals Administration enter into a contract with the Field-Haynes Manganese Company for exploration work herein outlined at a total cost of $14,428.60.

I concur with the recommendation of the examining geologists and engineer that the loan of $14,428.60 be granted.

/s/ Bonnie M. Stagg

for - Ralph J. Roberts

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

DEFENSE MINERALS ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

Docket DMA 1162, Fields-Haynes Manganese Deposit, Utah County, Utah

M. H. Howes, Mining Engineer
U. S. Bureau of Mines

Paul Dean Proctor, Geologist
U. S. Geological Survey

August 20, 1951

Docket DMA 1162, Fields-Haynes Manganese Deposit

Utah County, Utah

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

Mr. Carl H. Fields and Theodore Haynes of Eureka, Utah, have applied for a loan of $24,000 to explore and develop a manganese deposit north of Eureka, Utah. The applicants propose an exploratory drift, at a total cost of $14,750.00, to undercut the deposit at a depth of 250 feet. The remainder of the proposed loan to be applied to the purchase of equipment and margin.

On June 16, 1951, the deposit was examined by geologists of the U. S. Geological Survey to determine the merit of the proposed exploration project. A preliminary examination had previously been made by an engineer of the Bureau of Mines. The manganese deposit occurs as a replacement of limestone and jasperoid at a limestone and dolomite contact. The deposit measures approximately 18 by 25 feet in plan, and is exposed by an open cut 15 feet deep. No commercial production has been made from the deposit.

Two tons of ore assaying 22 percent manganese was shipped to the Metallurgical Division of the Bureau of Mines in Salt Lake City, for concentration tests. A product containing 51.2 percent manganese was made, but the recovery was only 34.7 percent. It appears that the ore cannot be economically concentrated to metallurgical grade.

The examining geologists do not believe the deposit warrants a program as extensive as that suggested by the applicants. However, the need of manganese by the nearby Geneva Steel plant may justify a small scale exploration program. It is recommended that two projects be considered: the first project consists of surface trenching of an alluvial area containing manganese float, shaft sinking in the deposit to a depth of 50 feet, and

drifting 50 feet from the shaft. Total cost of this project is estimated to be $6,378.60. If the first project is successful, a second project consisting of deepening the shaft to 100 feet, and then drifting 100 feet from the shaft is recommended. The second project is estimated to cost $8,050.00. The total estimated cost of both projects is $14,428.60. If, however, at the conclusion of the first project the ore deposit does not appear to justify further exploration, it is recommended that the exploratory work be discontinued.

Docket DMA 1162, Fields-Haynes Manganese Deposit, Eureka, Utah

INTRODUCTION

Docket DMA 1162, Fields-Haynes manganese deposit, Utah County, Utah, proposes a 500-foot drift to explore a manganese deposit north of Eureka, Utah. At the request of the Field Team Region IV, Paul Dean Proctor and C. T. Wrucke visited the property July 14, and 16, 1951, to evaluate the proposed exploration project. M. H. Howes of the Bureau of Mines made a previous preliminary examination.

Location and accessibility

The Fields-Haynes manganese deposit is in Utah County, Utah, approximately 3.2 miles northwest of Eureka, Utah, at an altitude of 7,200 feet (see fig. 1). The property is accessible by a poorly graded dirt road. In winter the road may be impassable when the area is covered by deep snow. Further road work will be necessary if year around access is required.

History and Ownership

The main Tintic district to the south of the property has been one of the most productive mining areas in Utah. Approximately $500,000,000 in silver-lead-zinc-gold-copper has been produced from the district since its discovery. The manganese prospect lies on the fringe of this mining district.

The deposit was discovered by Carl H. Fields in 1940. The property consists of four patented and six unpatented claims which are jointly owned by Carl H. Fields, Heber Fields, and Theodore Haynes, all of Eureka, Utah. The deposit occurs on the Graphite No. 2 claim.

The property was examined during World War II by the U. S. Bureau of Mines, and in 1946 by the U. S. Geological Survey. Two tons of ore were

shipped to the Bureau of Mines for Metallurgical tests, but no other production is reported from the deposit. The test ore averaged 22.2 percent Mn, 2.1 percent Fe, 19.6 percent SIO_2, 23.7 percent insol., 0.68 percent P, and 0.2 percent Zn. After flotation and sintering, 34.7 percent of the manganese was recovered, in a product assaying 51.2 percent Mn. Complete details of the tests are given in the attached Bureau of Mines report[1].

---

[1] Ipsen, A. O., Snedden, H. D., and Gibbs, H. L., Concentration of Oxide Manganese Ores from the Tintic District, Eureka, Juab County, Utah; Bur. of Mines, Rpt. of Inves. 4545, 1949.

GEOLOGY

Sedimentary rocks of Ordovician to Devonian age crop out in the vicinity of the manganese prospect (see fig. 2). Recognizable formations include the Opohonga argillaceous blue limestone of Lower Ordovician age, and the Bluebell mottled gray dolomite of Devonian age. These formations trend N. 5°-20° W. and dip from 35° to 75° NE. One hundred feet south of the open cut pit, an inferred fault appears to offset the Opohonga limestone eastward 35 feet. No other faults were recognized.

Jasperoid replaces parts of the Bluebell dolomite south of the manganese deposit. These silicified zones trend generally northwestward and form prominent reddish-brown to dark red outcrops. Most of the jasperoid shows breccia-like characteristics, and is locally manganese stained and cut by veinlets of conspicuous manganese oxides. Almost all outcrops of the Bluebell dolomite north and west of the jasperoid are altered to calcareous dolomite. Near the silicified zones the rock is vuggy and locally brecciated. Manganese oxides occur in a few places as veinlets and stains on the low outcrops of the Bluebell formation.

Dark gray to tan jasperoid northwest of the manganese deposit is cut by manganese oxide veinlets. Float of Opohonga limestone stained by red iron oxides is intermixed with the siliceous rock.

Ore deposits

The manganese deposit is localized at the contact of the Opohonga and Bluebell formations and replaces both rocks (see figs. 2 and 3). The deposit is as much as 18 feet wide and 25 feet long.

Manganese replaces both the Opohonga limestone and silicified Bluebell dolomite. Pyrolusite and psilomelane are the ore minerals, and form soft and hard ores. The soft ore contains tan to brown clayey streaks and is considered to replace the Opohonga formation. The hard ore appears to replace jasperoid in both formations. Gradations from jasperoid to siliceous manganese ore were noted near the open cut.

The deposit is exposed in shallow workings. A partly caved winze in the open cut contains siliceous manganese to a depth of 12 feet from the original surface. A trench 2 1/2 feet deep in the open cut and 7 feet south of the winze exposes a white, clayey zone veined by manganese oxides. The zone appears to dip northward about 30 degrees. The west side of the deposit shows a layer of iron stained clay 13 feet thick that contains a little manganese oxide. Bulldozer trenches southwest of the open cut show only a little manganese oxide and abundant float of Opohonga limestone. The east and north cuts expose some manganese oxide. Extensive manganese showings, other than stains and small veinlets, are not visible beyond the open cut, but some of the jasperoid and alluvium may cover manganese-bearing rock.

Ore reserves

Approximately 300 tons of low-grade manganese ore is indicated in the

open cut. If the deposit retains its surface dimensions in depth, 40 tons of ore would be developed per foot of depth. It is therefore inferred that 2,000 tons may be present to a depth of 50 feet.

This estimate does not include any ore in the alluvial covered area to the north. As there is no basis for calculation of ore reserves in this area, no estimate will be made until exploration work is completed.

PROPOSED EXPLORATION

The applicants, Messrs. Fields and Haynes, originally proposed a 500-foot drift to explore the deposit at depth. Such a drift would undercut the deposit approximately 250 feet vertically. The small size of the surface showings does not warrant such an extensive development program at present. However, the need for manganese at the nearby Geneva Steel plant may justify some exploratory work.

The examining geologists propose that two exploration projects be undertaken in cooperation with the applicants: (1) surface trenching of showings of manganese upslope from the main deposit, and a shaft and drift in the main deposit to determine the depth and lateral extent of the manganese ore. (2) If Project No. 1 indicates that the deposit has potentialities of a fair tonnage, then continued deepening of the shaft, and crosscutting is recommended.

The total amount of surface trenching required should approximate 250 feet. This work could be done by a large bulldozer in two or three days. The shaft should be sunk to 50 feet in the deposit and should take about 2 months to complete. A 50-foot drift from the bottom of the shaft would be completed in about a month. If good showings of manganese were found in the shaft and crosscut, more extensive exploration of this deposit would

be justified. The second project should then follow: deepen the shaft to 100 feet and drift 100 feet from the shaft bottom to outline the ore deposit. The time requirement would be approximately 3 months for this latter project.

Costs

It was suggested to the owners that rather than an outright purchase of equipment during the exploratory part of the project, rental of the following items is possible at considerable saving: Compressor, tugger, bucket, cable, jackhammer.....$350.00 a month. Direct purchase of timber supplies itemized below is also necessary:

Collar set, headframe, lagging..... $128.60
10 8" x 8" x 14' @ $7.51
50 lagging sets @ $1.07

The following labor and supply costs are estimated by Field and Haynes who are familiar with these costs in the Eureka area:

Project No. 1

Surface trenches--across alluvium area.....		$ 200.00
Shaft sinking, 5' x 7' x 50' deep @ $70.00 a foot.....		3,500.00
Drift, 5' x 7' x 50' @ $30.00 a foot.....		1,500.00
Cost		$5,200.00
3 mo. rental @ $350.00 per mo.	$1,050.00	
Timber cost	128.60	
Equipment-Rental and Timber Cost		1,178.60
Total Cost Project No. 1		$6,378.60

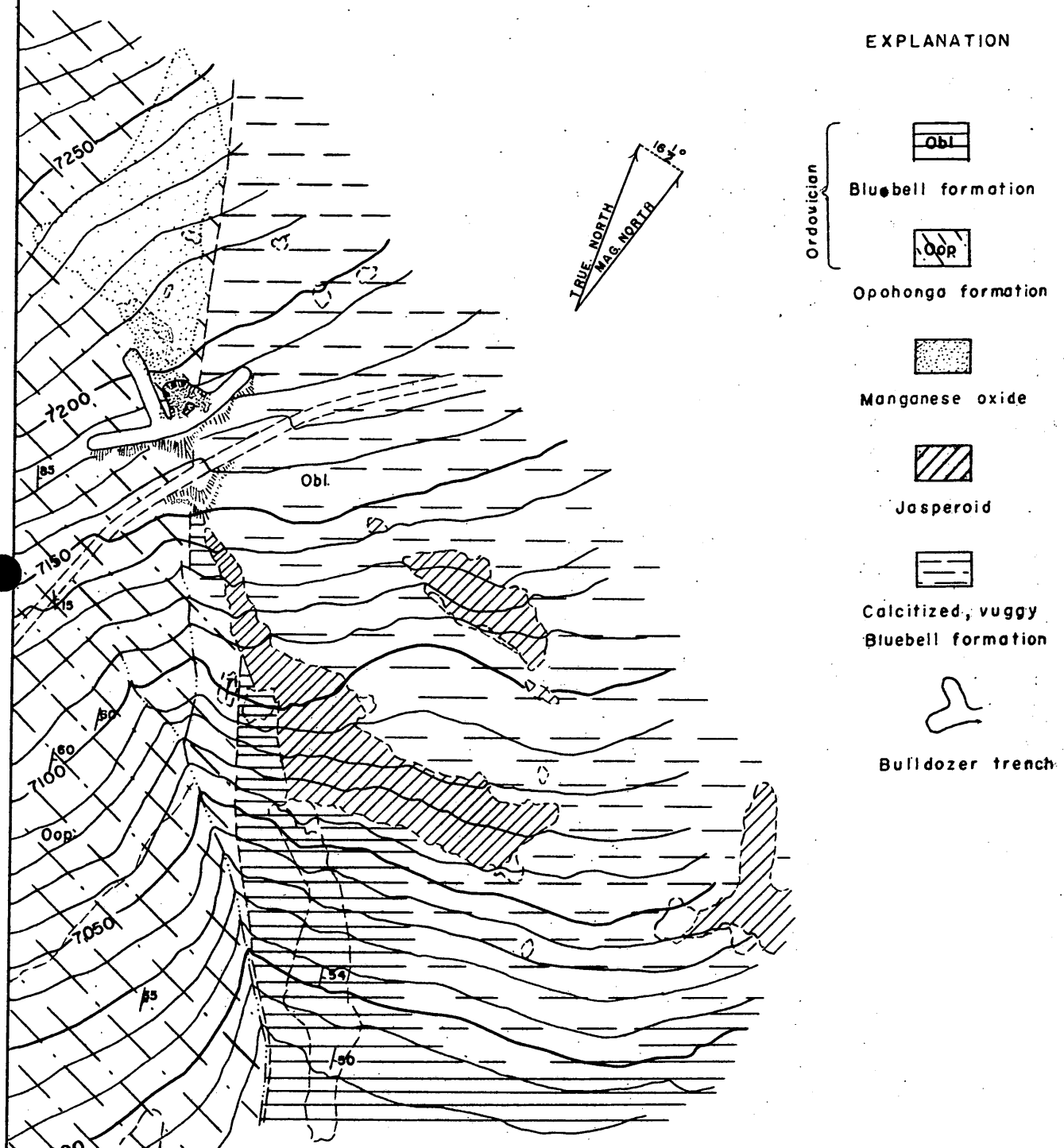
If at the conclusion of the above exploration program the deposit shows a sufficient grade of ore and continuity at depth, the second project can be undertaken:

Project No. 2

Deepen shaft 5' x 7' to 100' @ $70.00 a foot.....	$3,500.00
Drifting 100' @ $30.00 a foot.....	3,000.00
Cost	$6,500.00
3 mo. rental @ $350.00 per mo.	1,050.00
Margin for possible timbering, etc.	500.00
Total Cost Project No. 2	$8,050.00

Total costs for both the first and second projects exploration $14,428.60.

If at the end of the first exploration project, the deposit does not justify further exploration, it is recommended that the second project not be considered.



MAP OF THE FIELD – HAYNES MANGANESE DEPOSIT

EUREKA, UTAH

Contour Interval 10 Feet

0 50 100 150
Scale

FIG. 2 JULY 16, 1951 P. D. PROCTOR, C. T. WRUCKE

Eureka, Utah
July 2, 1951

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
JUL 9 - 1951
LANDON F. STROBEL
Executive Secretary

Mr. Tom Lyon
Director Supply Division
Department of the Interior
Defense Minerals Administration
Washington 25, D.C.

Dear Mr. Lyon:

We are in receipt of your kind letter of June 25, 1951 in regards to application DMA-1162.

In accordance with your instructions we have notified Mr. J. H. East who he is to contact in Eureka for a field examination of our property. Inclosed find a copy of our letter to him.

Respectfully yours,

Carl H. Fields

Carl H. Fields

Theodore Haynes

Theodore Haynes

Eureka, Utah,
July 2, 1951

Mr . J. H. East Jr.
Executive Officer
DMA Field Team, Region 1V
New Customhouse Building
Denver 2, Colorado

Dear Mr. East:

We are in receipt of a letter from Mr. Tom Lyon, Director Supply Division, Defense Minerals Administration, in which he advises us to contact you in regards to whom should be contacted for a field examination of our property. This field examination is in reference to an application for a loan and is numbered DMA-1162.

When you or your representatives are ready to make this field examination please contact Mr. Fields. He can be contacted at the following address:

Mr. Carl H. Fields
Deputy Sheriff's Office
Juab County Court House
Lower end of Main Street
Eureka, Utah

COPY

Mr. Fields will be available at your convenience and we would suggest that the examination take place as soon as possible so that the work could get started before the inclement fall weather sets in.

Respectfully yours,

Carl H. Fields
Carl H. Fields

Theodore Haynes
Theodore Haynes

FILE COPY
SURNAME:

Crittenden
Holderer
Walker

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

Copies mailed
JUN 25 1951

Mr. J. R. East, Jr., Executive Officer
DMA Field Team, Region IV
244 New Customhouse Building
Denver 2, Colorado

Subject: DMA-1162 Carl H. Fields and Theodore Barnes
Eureka, Utah, Property-the Graphite,
Hermaine, Lexington and other claims
in the Eureka district.

Dear Mr. East:

We are attaching the application of the subject parties for an exploration loan of $25,000. The following is a summary of our information on the property:

The property was examined by the Geological Survey in 1946. The mine workings consist of a shallow open-cut on a large outcrop of jasperoid around which the limestone country rock has been partly replaced by manganese oxides. The grade of the material that can be obtained is probably 15 to 20 percent manganese and is suitable for use by the Geneva Steel Company and the Columbia Steel Company at Provo for the manufacture of high-manganese pig iron.

The exposures examined in 1946 gave no indication that extensive development such as that proposed, is warranted. However, a limited exploration program appears reasonable. The simplest method would be sinking a shaft in the mineralized outcrop, which should not cost over several thousand dollars.

Please have your field engineers examine the property and discuss with the applicants an exploration program more in line with the probable reserves. It appears that our suggestion of a shaft with some drifting should be less expensive and much faster than the 500-foot drift proposed by the applicants.

Very truly yours,

Tom Lyon

Tom Lyon, Chairman
Coordinating Committee

Enclosure

CC: Adm. Reading File
Field Team Region IV
Files
Mr. Strobel
Mr. Holderer(2)
Coordinating Committee
Mr. Crittenden

DCrittenden:jan

Lowell B. Moon
For Bureau of Mines

For Geological Survey

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

JUN 23 '51

Mr. Carl H. Fields
Mr. Theodore Haynes
Eureka, Utah

In reply please refer to
DMA-1162

Gentlemen:

Your application for an exploration loan has been referred to Mr. J. H. East, Jr., Executive Officer, DMA Field Team, Region IV, 224 New Customhouse Building, Denver 2, Colorado, for a field examination.

Please advise Mr. East who should be contacted to show the property to his engineers.

Very truly yours,

Tom Lyon
Director, Supply Division

TJBallard:ec

CC: Adm. Reading File
Mr. Strobel
Mr. Lyon
Mr. Bradley
Mr. Moon
Regional Field Team
Files

FILE COPY
SURNAME:

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

Mallard
Bradley
Attridge
Hodson
McKnight for Rose
Moon

JUN 25 1951

Mr. Carl H. Fields
Mr. Theodore Haynes
Eureka, Utah

In reply please refer to
DMA-1162

Gentlemen:

Your application for an exploration loan has been referred to Mr. J. H. East, Jr., Executive Officer, DMA Field Team, Region IV, 224 New Customhouse Building, Denver 2, Colorado, for a field examination.

Please advise Mr. East who should be contacted to show the property to his engineers.

Very truly yours,

Tom Lyon
Director Supply Division

TJBallard:ec

CC: Adm. Reading File
Mr. Strobel
Mr. Lyon
Mr. Bradley
Mr. Moon
Regional Field Team
Files

June 22, 1951

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 27 1951

TO FIELD TEAM

DMA-1162
Carl H. Fields and Theodore Haynes
Eureka, Utah

1. Copy application form-146

1 Copy claim may

1 Copy letter Fields & Haynes 6/10/51

2 Copy form MF-103

1 Copy claim map

dma-1162 X

Eureka, Utah

June 10, 1951

Mr. George B. Holderer
Acting Chief, Manganese Branch
Defense Minerals Administration
Department of Interior
Washington 25, D. C.

Dear Mr. Holderer:

In answer to your letter of May 23, 1951, in regards to application DMA-1162, we wish to make the following statements:

We are inclosing four signed copies of MF-103. All information asked for in MF-103 was filed in your office on form NSRB-146. If any additional information is required we shall be delighted to submit the same.

In regards to our putting up 25% of the cost, we wish to state that we have spent all of our money in building roads, doing assessment work, etc. on this property. While we are still willing to do work on the property, we do not have the resources to support outselves without holding our regular positions, but we are perfectly willing to let the 25% come out of production which we feel is certain as soon as we secure enough money to buy the equipment and do the necessary exploration work to open up our body of manganese ore.

We trust this is the information you desire and if we can be of any further assistance do not fail to call upon us.

Respectfully yours,

Carl H Fields
CARL H. FIELDS

Theodore Haynes
THEODORE HAYNES

FILE COPY
SURNAME:

Ballard
Holderer

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

May 23, 1951

Mr. Carl H. Fields
Mr. Theodore Haynes
Eureka, Utah

In reply please refer to
DMA-1162

Gentlemen:

Your application for an exploration loan which you submitted is being held for a referral to our field engineers, and this can not go forward until you have signified your willingness to share in the cost.

Exploration loans on manganese can be made for only 75 percent of the total cost of the work, and the applicant must provide the balance. We are enclosing five copies of the exploration form MF-103 and explanation sheet MO-5. Please complete the MF-103 and file with this office.

A review of your application indicates that a shaft in the mineralized outcrop may be the best method of accomplishing your exploration.

Very truly yours,

George B. Holderer

George B. Holderer, Acting
Chief, Manganese Branch

Enclosure

TJBallard:ec

CC: Adm. Reading File
Mr. Strobel
Mr. Bradley
Files

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

TO : P. R. Bradley DATE: May 17, 1951

FROM : M. D. Crittenden

SUBJECT: DMA 1162 - Carl H. Fields and Theodore Haynes, Eureka, Utah

The attached application for a loan of $24,000 for exploration of the Graphite, Hermoine, Lexington and adjoining claims in the Eureka district, Utah, should be regarded as a request for an exploration project. It is suggested that the accompanying letter from Mrs. Bosone be dealt with by sending her a copy of a letter to Fields & Haines suggesting that they fill out forms MF-103 to be enclosed. The property in question was examined by the Geological Survey in 1946. The workings consist of a shallow open-cut on a large outcrop of jasperoid around which the limestone country rock has been partly replaced by manganese oxides. The grade of the material that can be obtained is probably on the order of 15-20%, and is suitable for use by Geneva Steel and the Columbia Steel Co. at Provo, for the manufacture of high-manganese pig iron. Exposures examined in 1946 gave no indication that extensive development, such as that proposed, is warranted. However, limited development does seem reasonable. The simplest method of exploration would consist of a shaft on the mineralized outcrop, and the cost of such work should not amount to more than a few thousand dollars.

Enclosure

FILE COPY
SURNAME:

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

May 16, 1951

Mr. Carl H. Fields
Eureka
Utah

Subject: DMA-1162
Re: Loan

My dear Mr. Fields:

Receipt is acknowledged of your application and attachments of May 1, 1951 for a Government loan under the Defense Production Act of 1950.

The application was assigned Docket Number DMA-1162 and referred to Mr. P. R. Bradley, Chief, Manganese Branch on May 14, 1951.

In the future correspondence relating to your application, kindly refer to DMA-1162.

Sincerely yours,

LANDON F. STROBEL

Landon F. Strobel
Executive Secretary

LFSTROBEL:mab
cc: Strobel-2
Files
Bradley
Lyon
Hon. Reva Beck Bosone, MC.

Maximum
$ 24000 =

Dma
1162

Applications transmitted by Member of Congress Bosone 7/9/58
Crittenden (G.S.) - 5/17 O.K's generally
Holderer 5/23 - says - are you willing to show in cost?
Fields + Hoynes - 6/10 - says "we are broke"!
To Field Team - Ca 6/15
Field Team Report 8/24
Fields + Hoynes 9/17 - what is the result of exam?
Memo - Recommending 2-phase loan
9/18 Ph I = $10,000
Ph II 12,000 (holderer)
total 22,000

Lyon to Eost 10/2 asking for certain cost breakdown

9/28 (typed) - Holderer to Fields + Hoynes - asking for statement as to participation, and other data
10/26 - Rec'd supplemental Report from Field Team as to costs -

showing Project I - Govt 4,108.20
App 1,369.40
Total 5,477.60

Proj II G 4,726.50
A 1575.50
6,302.00

Totals G 8,834.70
A 2,944.90
Grand total 11,779.60

PMB 1/58

DMA-1162X

Held this application
needs attorney from
the applicant regarding
the desirability of the
15 Do / the Co-Op / the
Insurance branch to
write the applicant. Sam
Jacoby 9/21/51

Work up contract & exhibits
10/22/51 - talked again to Jacoby - has yet
no reply.

No description of property

4 patented Mining Claims in Utah County. Claims are known as Graphite #2, Hermione and the Kensington.

6 Unpatented Claims. These unpatented Claims are north of and contiguous to the four patented claims. | I.T. Report. The ulegoit occurs on the Graphite No. 2 Claim

Here about Supervision. No COP allowed.

Why allow 4 months period of equipment in Phase I and the same amount in Phase II - Were working in Phase II.

Project No. 1 — DMA-1162

Surface trenches approximately 250 feet -	$200.00
Shaft Sinking 5'x7'x50' @ $70/ft. -	3,500.00
Drifting 5'x7'x100' @ $30/ft. -	3,000.00
	$6,700.00
4 months rental of compressors, tugger, hoist, cable, jackhammers and all necessary equipment @ $350/month	$1,400.00
Incidentals	195.00
Bookkeeping, Engineering and Assaying	705.00
Total Cost	$9,000.00

Proposed Program No. 2

Deepening of shaft 5'x7'x50' @ $70/ft. -	$3,500.00
Drifting 200' @ $30/ft. —	6,000.00
4 months rental @ $350/ft. -	1,400.00
Incidentals -	1,000.00
Bookkeeping, Engineering and Assaying	600.00
	$12,500.00

See

Total Project 1 and Project 2 $21,500.00

Grand total — 11,799.60

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

APPLICATION FOR AID FOR AN EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5, UNDER DEFENSE PRODUCTION ACT OF 1950

DO NOT FILL IN THIS BLOCK

Docket No. DMA-1162 X

Date received 6/14/51

Participation

Carl H. Fields &
Theodore Haynes
Eureka, Utah

Name and address of applicant

Date May 31, 1951

FILL IN THIS BLOCK

Date of application

Estimated cost $24,000.00

Mineral or metal Manganese

Percentage of Government participation 75%

Location of mine Utah County, Utah

Date of filing MF-100

DMA Docket Number, if available DMA-1162 X

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four signed copies of the application to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive officer thereof, with your name and address on each sheet of the application and all accompanying papers. If any question is inapplicable, or if you cannot answer it, so state on the form. Where the space provided for answer is insufficient, answer on a separate sheet, annex it to the application form, and refer to it in space for answer. If the application is approved, you will be presented with an exploration project contract on Form MF-200, for your signature.

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation?
*2. If a partnership, state names and addresses of partners.
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.
*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project.
*5. Are you the owner or the lessee of the property?
6. If owner, state what claims, liens, or encumbrances, if any, are against the property.
7. If lessee, attach a copy of the lease and state if it is in good standing.

NOTE.—It will be necessary to procure and attach to the exploration project contract agreements of claimants, lienors, encumbrances and lessors subordinating their interests in the property to the interest of the Government under the contract.

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.
9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)?

*If you have already answered these questions on MF-100, you are not required to answer the questions for this application.

16—64067-1

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.
    (*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

    NOTE.—If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*b*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area.

*11. State the present and former names of the property, if any.
*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.
*13. State source and quantity of water available for operations and its sufficiency at all seasons.
State amount of power to be used, rate per hour or other cost, and source.
*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.
15. State in detail how the ore could be shipped and how and where milled.
*16. History:
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
    (*b*) State briefly the known history and production of adjoining and neighboring properties.
    (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.
*17. Production:
    (*a*) If mine is in production, furnish the following information:

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
(1) Mining				
(2) Milling				
(3) Shipped or sold				

*18. Ore or mineral reserves: (If property is or has been operating.)
    (*a*) Describe the ore or mineral deposits briefly.
    (*b*) Submit available maps and assay data.
    (*c*) Give estimated tonnage and grade of each class of ore reserves.
19. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?
21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.

    NOTE.—The Government will not participate in a project that will require more than 2 years to complete.
22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data.

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:
    (*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.
    (*b*) Supervisors, by numbers and positions, with salaries of each.
    (*c*) Cost of necessary repairs to existing facilities, structures, and buildings.
    (*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.
    (*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.
    (*f*) Cost of rental for equipment which the operator proposes to rent.
    (*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.
    (*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.
    (*i*) Cost of power, water, utilities, and any other items not provided for above.
24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent.

CERTIFICATION

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(Name of company)	By Carl H. Fields Owners (Signature of authorized official)
June 11 1951 (Date)	Theodore Haynes (Title)

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

*Same as footnote on page 1.

16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

Budget Bureau No. 42-R1035.
Approval expires 6-30-51.

APPLICATION FOR AID FOR AN EXPLORATION PROJECT PURSUANT TO MINERAL ORDER 5, UNDER DEFENSE PRODUCTION ACT OF 1950

DO NOT FILL IN THIS BLOCK

Docket No. DMA-1162 X

Date received 6/14/51

Participation

Carl H. Fields &
Theodore Haynes
Eureka, Utah

Name and address of applicant

Date May 31, 1951

FILL IN THIS BLOCK

Date of application

Estimated cost $24,000.00

Mineral or metal Manganese

Percentage of Government participation 75%

Location of mine Utah County, Utah

Date of filing MF-100

DMA Docket Number, if available DMA-1162 X

INSTRUCTIONS

Read Mineral Order 5, Regulations Governing Government Aid in Defense Projects, before completing this application. Submit four signed copies of the application to Defense Minerals Administration, Department of the Interior, Washington 25, D. C., or to the nearest field executive officer thereof, with your name and address on each sheet of the application and all accompanying papers. If any question is inapplicable, or if you cannot answer it, so state on the form. Where the space provided for answer is insufficient, answer on a separate sheet, annex it to the application form, and refer to it in space for answer. If the application is approved, you will be presented with an exploration project contract on Form MF-200, for your signature.

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation?
*2. If a partnership, state names and addresses of partners.
*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders.
*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project.
*5. Are you the owner or the lessee of the property?
6. If owner, state what claims, liens, or encumbrances, if any, are against the property.
7. If lessee, attach a copy of the lease and state if it is in good standing.

NOTE.—It will be necessary to procure and attach to the exploration project contract agreements of claimants, lienors, encumbrances and lessors subordinating their interests in the property to the interest of the Government under the contract.

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement.
9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)?

*If you have already answered these questions on MF-100, you are not required to answer the questions for this application.

16—64067-1

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.
    (*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

    NOTE.—If both areas are the same, so state. The only obligation to repay the Government is from the net earnings from any commercial discovery made in the area specified in (*b*) above in which the exploration is to be conducted, and the expenditure of funds which may be charged as costs of the project must be limited to that area or to work necessary to perform the exploration in that area.

*11. State the present and former names of the property, if any.
*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.
*13. State source and quantity of water available for operations and its sufficiency at all seasons.
State amount of power to be used, rate per hour or other cost, and source.
*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.
15. State in detail how the ore could be shipped and how and where milled.
*16. History:
    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.
    (*b*) State briefly the known history and production of adjoining and neighboring properties.
    (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.
*17. Production:
    (*a*) If mine is in production, furnish the following information:

	Tons per day	*Grade or analysis*	*Cost per ton*	*Net value per ton*
(1) Mining				
(2) Milling				
(3) Shipped or sold				

*18. Ore or mineral reserves: (If property is or has been operating.)
    (*a*) Describe the ore or mineral deposits briefly.
    (*b*) Submit available maps and assay data.
    (*c*) Give estimated tonnage and grade of each class of ore reserves.
19. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?
21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.

    NOTE.—The Government will not participate in a project that will require more than 2 years to complete.
22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data.

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:
    (*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.
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    (*f*) Cost of rental for equipment which the operator proposes to rent.
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24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent.

CERTIFICATION

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Owners

(Name of company)

By Carl H. Fields
(Signature of authorized official)

June 11 1951
(Date)

Theodore Haynes
(Title)

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(April 195[illegible])

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DO NOT FILL IN THIS BLOCK

Docket No. DMA-1162 X

Date received 6/14/51

Participation

Carl H. Fields &
Theodore Haynes
Eureka, Utah

Name and address of applicant

Date May 31, 1951

FILL IN THIS BLOCK

Date of application

Estimated cost $24,000.00

Mineral or metal Manganese

Percentage of Government participation 75%

Location of mine Utah County, Utah

Date of filing MF-100

DMA Docket Number, if available DMA-1162 X

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June 11 1951
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(Name of company)	By Carl H. Fields OW 7315 (Signature of authorized official)
June 11 1951 (Date)	Theodore Haynes (Title)

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16—64067-1 U. S. GOVERNMENT PRINTING OFFICE

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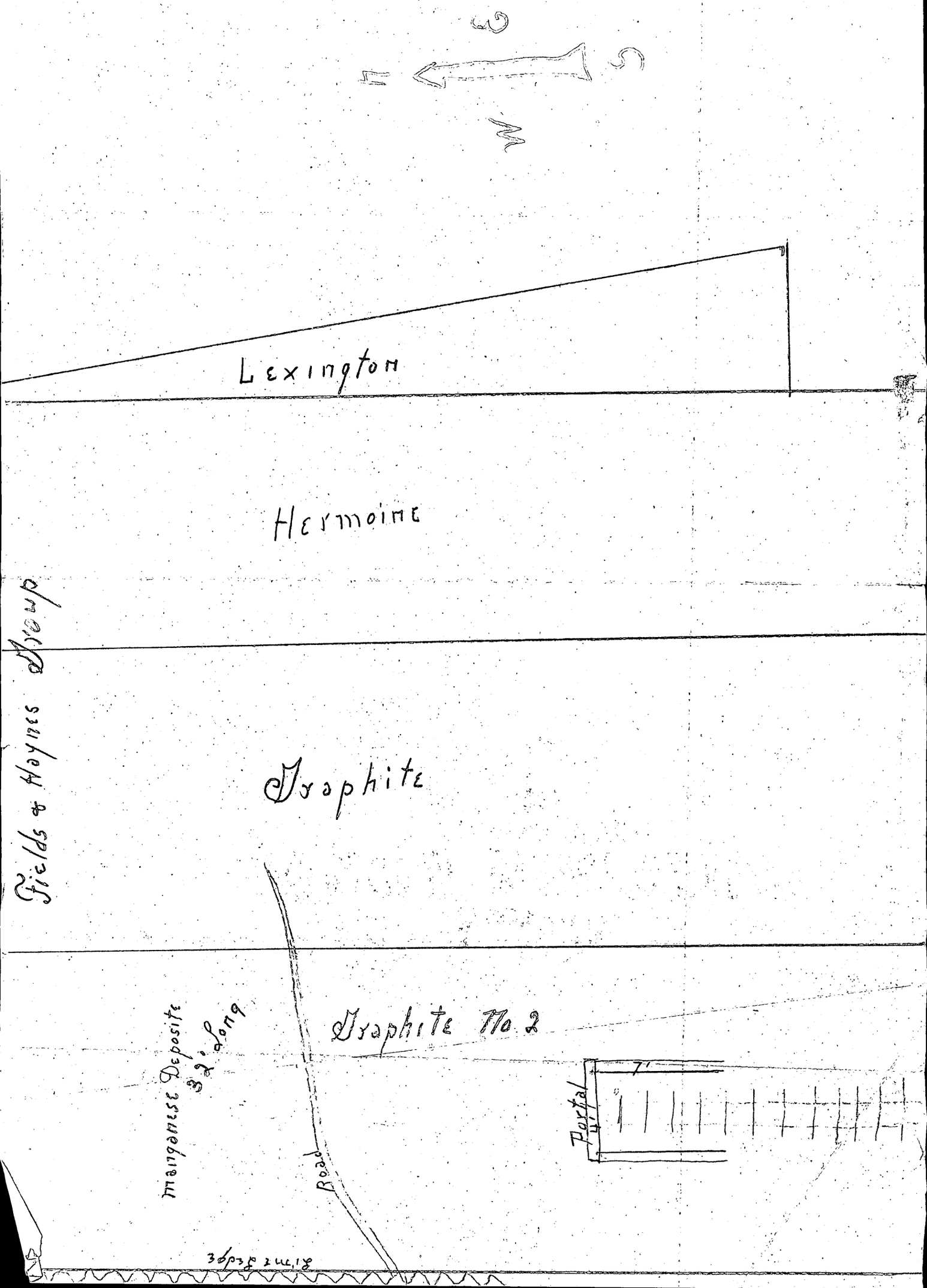
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Lexington
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SNOWFLAKE 6632
LINK 6632
GOLDIE EXTENSION 6632
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GOODENOUGH EXTENSION
GOODENOUGH 6632
LARK 6723
6723
VALLEY
K.V. FRACTION 6723
6723
HARDING 6884
6889
6569
KATIE 6889
VALLEY FRACTION 6569
BLUE BIRD
BLUE BIRD FRACTION 6889
6889
IRON SIDES
WILD BILL 6889
ADMIRAL FARRAGUT FRACTION 6889
ADMIRAL FARRAGUT 6889
BELCHER FRACTION 6889
BELCHER
6569
6724
SLOCUM
NORTH HALF GRAND PRIZE 6889
GRAND PRIZE MINING CLAIM 6724
GRAND PRIZE FRACTION 6889
PLYMOUTH 37
LAKE VIEW FRACTION 6889
LYNX 6889
LYNX FRACTION 6889
HOVE 6889
RED HILL FRACTION 6889
LAKE VIEW
BRIGHTON
FRANKLIN 37
LEXINGTON 37
EUREKA No2
MINNIE MINING 6724
EUREKA No
HERMIONE 37
GRAPHITE 37
GRAPHITE No 2 37
EUREKA MI
BRA
RED HILL EXTENSION 6889
RED HILL 6889
HILL FRACTION 6889
HILL 6889
SUMMIT FRACTION 6889
SUMMIT 6889
CONTACT FRACTION 6888
H. & F. No. 1
H. & F. No. 2
H. & F. No. 3
H. & F. No. 4
H. & F. No. 5
H. & F.
B1 6866
B 6866
B3 6866
B2 6866
B5 6866
B4 6866
ELLA 264
TINTIC 264
ANNA MARGARET 264
GET THERE ELI 265
MABEL 264
LOUISE 264
KID 265
ONNIE GAGAN 265
JUMBO 264
SI TAM 264
SILVER BILL 265
C.S.D. 265
DROP 264
N.E. 38
KO KO 265
N.A.R. 265
CINCH 264
N.W. 38
6783
SHERMAN 265
MAE E.A. 265
HYMICKYMUCK 264
3746
HOBBS 265
EIGHTH OF AUGUST 265
BLACK ROCK 3746
3746
DAISY OWEN 37
RED ROCK
MARY V.H. 3746