DOCKET
SURNAME
Ruttledge
Martin
Selfridge
Chamberlin

APR 7 1954

Mr. Mel Lewis
Crescent Mines
1445 West Spokane Street
Seattle 4, Washington

Re: Docket No. DMEA 2928 - Manganese
Crescent mine
Clallam County, Washington

Dear Mr. Lewis:

On September 8, 1953, a proposed contract was forwarded through Mr. A. E. Weissenborn, Executive Officer, DMEA Field Team, Region II, for execution. Execution of the proposed contract was subject to acquisition by the Operator of a 1/4th interest in the property, a lease on the remaining 3/4th's interest, and an Owner's Consent to Lien for the 3/4th's interest.

We were informed by a Field Team memorandum of October 13, 1953, that the partnership of Lewis and Hopper had been dissolved, but that you were still interested in an exploration project at the Crescent mine. On October 27, 1953, we requested the Field Team to return the proposed contract to Washington until the Applicant had reorganized his business entity.

No further data were received, and on November 25, 1953, you were advised that the subject application for exploration assistance would be removed from the active file if the requested data had not been received by December 28, 1953.

On December 21, 1953, you stated that, while unable to complete the reorganization and furnish these data by that date, you were still interested in an exploration program and requested a ninety day extension. Therefore on January 4, 1954, we advised you that we would hold the subject file open until March 28, 1954.

To date, the requested data have not been received. Under these circumstances, the referenced application is being removed from the active files and the matter closed.

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

Sincerely yours,

E. O. Mittendorf (for)

Administrator

RCRuttledge:fac 3-29-54
cc: Docket
Code 400
Adm. Reading File
Operating Comm.
FT. Reg. II
Mr. DeHuff, Rm. 3523
Mr. Pavlides, GSA

R.C.R.

MF-200 (A)
(February 1952)

DOCKET NO. DMEA 2928

COMMODITY Manganese

Docket Copy

IDM-E 596

UNITED STATES OF AMERICA
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

EXPLORATION PROJECT CONTRACT[1]

(Short Form)

IT IS AGREED this 8th day of September, 195 3, between the United States of America, acting through the Department of the Interior, Defense Minerals Exploration Administration, hereinafter called the "Government," and[2] Crescent Mines, Star Route #1, Box 22A, Port Angeles, Washington, (address correspondence to: Crescent Mines, 17321 33rd Street South Seattle 88, Washington) A partnership comprised of: Mel Lewis, 404 3rd Street South, Kent, Washington, and K. E. Hopper, 17321 33rd Street South, Seattle 88, Washington hereinafter called the "Operator," as follows: and as set forth in Annex I and Annex II, attached hereto and made a part hereof.

ARTICLE 1. *Authority for contract.*—This agreement is entered into under the authority of the Defense Production Act of 1950, as amended, pursuant to DMEA Order 1 entitled "Government Aid in Defense Exploration Projects."

ARTICLE 2. *Operator's property rights.*—With respect to that certain land situated in the State of Washington, County of Clallam, described as ~~xxxxx~~ set forth in Annex I

the Operator represents and undertakes:[4] of the unpatented claims, and of a 1/4th interest in the patented claims

(*a*) That the Operator is the owner, in possession and entitled to possession, and that the property is subject only to the following claims, liens, or encumbrances as to each of which the subordination agreement of the holder is attached:

of a 3/4th's interest in the patented claims of the 3/4th's interest

(*b*) That the Operator is a lessee, in possession and entitled to possession, and the Owner's Consent to Lien is attached.

The Operator shall devote the land and all existing improvements, facilities, buildings, installations, and appurtenances to the purposes of the exploration project without any allowance for the use, rental value, depreciation, depletion, or other cost of acquiring, owning, or holding possession thereof.

ARTICLE 3. *Exploration project.*—The Operator, within 30 days from the date of this contract shall commence work on a project of exploration for[5] manganese

in or upon the described land; and shall bring the project to completion within a period of 12 months from the date of this contract. The work to be performed is more fully described in Exhibit "A" attached hereto, which, with any maps or drawings thereto attached, are made a part of this contract. The Government will contribute to the cost of this work as hereafter provided. The work shall be performed by the Operator or by independent contractor or contractors efficiently, expertly, in a workmanlike manner, in accordance with good mining standards and State regulations for health and safety and for workmen's compensation and employers' liability insurance, with suitable and adequate equipment, materials, and labor, to bring the project to completion within the time fixed. The Government shall have the right to enter and observe and inspect the work at all reasonable times, and the Operator shall provide the Government with all available means for doing so. The Government may consult with and advise the Operator on all phases of the work.

ARTICLE 4. *Costs of the project.*—The agreed, estimated costs of performing the work, expressed in terms of units of work to be performed (per foot of drifting, per foot of drilling, per cubic yard of material to be moved, etc.) are set forth in Exhibit "A," attached hereto. The Government will pay 75 percent of these agreed, estimated costs, as they accrue, for units of work actually performed that conform with the description or specifications for the work set forth in this contract, in an aggregate total amount not in excess of $30,000.00 which is 75 percent of $40,000.00 the agreed, estimated total cost of the project in which the Government will participate: *Provided,* That until the Operator's final report and final accounting have been rendered to the Government and any final check or auditing required by the Government has been made, and a final settlement of the contract has been made, the Government may withhold from the last voucher or vouchers such sums as it sees fit not in excess of ten (10) percent of the maximum total which the Government might have been called upon to pay under the terms of the contract. The Government may, as it sees fit, make payments direct to the Operator's independent contractors, if any, for the account of the Operator, rather than to the Operator.

ARTICLE 5. *Reports, accounts, audits.*—(*a*) *Progress reports.* The Operator shall provide the Government with monthly reports of units of work performed under the contract, in quintuplicate (five copies), upon forms provided by the Government. These progress reports shall be certified by the Operator, and shall constitute both the Operator's invoice of units of work performed on the project during the period covered by the report and his voucher for repayment by the Government, unless the Government requires the use of a standard voucher form with invoice attached. Progress reports shall include surface and/or underground engineering-geological maps or sketches showing the progress of the exploration, with assay-reports on samples taken concurrently with the advance in mineralized ground.

[1] If sufficient space is not provided in any blank, use an extra sheet of paper and refer to it in the blank.
[2] State name, address, and nature of organization if any.
[3] Give legal description or enough to identify the property, particularly excluding any land or interest therein to which the Government's lien is not to attach or the production from which is not to be subject to the Government's percentage royalty.
[4] Strike out the provision not applicable.
[5] Name of mineral or minerals.

(*b*) *Final report.*—Upon completion of the exploration work or termination of the contract the Operator shall provide the Government with an adequate geological and engineering report, in quintuplicate (five copies), including an estimate of ore reserves resulting from the exploration work.

(*c*) *Compliance with requirements.*—If, in the opinion of the Government, any of the Operator's reports are insufficient or incomplete, the Government may procure the making or completion of such reports and attachments as an expense of the exploration work; and the Government may withhold approval and payment of any vouchers depending upon insufficient or incomplete reports.

(*d*) *Accounts and audits.*—The Operator shall keep suitable records and accounts of the units of work performed, which the Government may inspect and audit at any time. The Government may at any time require a check of the work performed and an audit of the Operator's records and accounts, by a certified public accountant or otherwise, the cost thereof to be treated as a cost of the project. The Operator shall keep and preserve said records and accounts for at least 3 years after the completion of the project or the termination of this contract. Upon the completion of the project or termination of the contract the Operator shall render a final account and statement of work performed to accompany his final report.

ARTICLE 6. *Repayment by Operator.*—(*a*) If, at any time, the Government considers that a discovery or a development from which production may be made has resulted from the exploration work, the Government, at any time not later than 6 months after the Operator has rendered the required final report and final account, may so certify in writing to the Operator. The certification shall describe broadly or indicate the nature of the discovery or development. In the event of such certification, any minerals mined or produced from the land described in Article 2 within 10 years from the date of this contract, including any mined or produced before the certification, shall be subject to a percentage royalty which the Operator or his successor in interest shall pay to the Government, upon the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production, in whatever form disposed of, including ore, concentrates, or metal, until the total amount contributed by the Government, without interest, is fully repaid, or said 10 years have elapsed, whichever occurs first, as follows: **See Annex II, substituted for that part of 6(a) preceding the colon.**

(1) One and one-half (1½) percent of any such net amounts not in excess of eight dollars ($8.00) per ton.

(2) One and one-half (1½) percent of any such net amounts, plus one-half (½) percent of such net amounts for each additional full fifty cents ($0.50) by which such net amounts exceed eight dollars ($8.00) per ton, but not in excess of five (5) percent of such net amounts.

(For instance: The percentage royalty on a net amount of five dollars ($5.00) per ton, would be one and one-half (1½) percent; on a net amount of ten dollars ($10.00) per ton, three and one-half (3½) percent.)

(*b*) As here used, "net smelter returns," "net concentrator returns," and "other net amounts realized from the sale or other disposition," mean gross revenue from sales, or if not sold, the market value of the material after it is mined in the form in which and the place where it is held. In the case of integrated operations in which the material is not disposed of as such, these terms mean what is or would be the gross income from mining operations for percentage depletion purposes in income-tax determination.

(*c*) To secure the payment of its percentage royalty, the Government shall have and is hereby granted a lien upon the land described in Article 2 and upon any production of minerals therefrom, until the royalty claim is extinguished by lapse of time or is fully paid.

(*d*) This article is not to be construed as imposing any obligation on the Operator or the Operator's successor in interest to engage in any mining or production operations.

ARTICLE 7. *Assignment, transfer, or loss of Operator's interest.*—Without the written consent of the Government, the Operator shall not assign or otherwise transfer or hypothecate this contract or any rights thereunder. The Operator shall not make any voluntary nor permit any involuntary transfer or conveyance of the Operator's rights in the land described in Article 2, without making suitable provision for the preservation of the Government's right to a percentage royalty on production and lien for the payment thereof; *Provided,* that mere failure by the Operator to maintain the Operator's rights in the land, without any consideration running to the Operator other than relief from the cost of maintaining such rights (as by surrender of a leasehold, failure to perform assessment work, or failure to exercise an option), coupled with complete abandonment by the Operator of all interest in or operations on the land for a period of 10 years from the date of this contract, shall not constitute such a transfer or conveyance. Should the Operator make or permit any transfer or conveyance in violation of this provision, the Operator shall be and remain liable for payment to the Government of the same amounts, at the same times, as would have been paid under the terms of the percentage royalty on production. If for any reason the net smelter returns, net concentrator returns, or other net amounts realized from the sale or other disposition of such production are not available as a means of measuring the amount of the Operator's liability, the amount thereof shall be estimated as well as may be, and in the event of dispute as to such estimates, the determination thereof by the Administrator of Defense Minerals Exploration Administration or by his successor shall be final and binding upon the Operator.

ARTICLE 8. *Termination and completion.*—The Government may, at any time, by written notice to the Operator, terminate this contract: (*a*) If the Operator fails to provide his share of the money necessary to prosecute operations pursuant to the terms of the contract; (*b*) if the Operator, in the opinion of the Government, fails to prosecute operations pursuant to the terms of the contract; or (*c*) if, in the opinion of the Government, operations up to the time of the notice have not indicated the probability of making any worth while discovery and in the opinion of the Government further operations are not justified.

ARTICLE 9. *Changes and added provisions* _____

Executed in sextuplicate the day and year first above written.

CRESCENT MINES

Nel Lewis - ~~Xxxx~~ Partner

By _____

X

K. E. Hopper - Partner

THE UNITED STATES OF AMERICA

By C. D. Mitteudorf

Butler
Hoffland
Chamles

Administrator, Defense Minerals Exploration Administration

I, _____, certify that I am the _____ secretary of the corporation named as Operator herein; that _____, who signed this contract on behalf of the Operator, was then _____ of said corporation; that said contract was duly signed for and in behalf of said corporation by authority of its governing body, and is within the scope of its corporate powers.

_____ [CORPORATE SEAL]

U. S. GOVERNMENT PRINTING OFFICE 16—66329-1

EXPLORATION PROJECT CONTRACT
CRESCENT MINES
DOCKET NO. DMEA-2928

ANNEX I

The following land is included under Article 2 of the contract:

1. The Crescent Group of claims, consisting of three patented lode mining claims, known as the Peggy, Bairholm and Sol Duc, located in Secs. 23 and 24, T. 30 N., R. 10 W., Willamette Meridian, Clallam County, Washington. The Operator owns a 1/4th interest in this group and holds a lease of the other 3/4th's interest. These claims are shown on map No. 4 attached to and made a part of the contract and entitled "Claim Map - Crescent Mine."

2. Three unpatented claims, owned by the Operator, recorded in Clallam County Court House, Port Angeles, Washington, as follows:

Name	Book No.	Page No.
Pean	9	250
Falls	9	252
Mona	9	254

EXPLORATION PROJECT CONTRACT
CRESCENT MINES
DOCKET NO. DMEA-292

ANNEX II

The following provisions are in lieu of all of paragraph (a) of Article 6 which precedes the colon:

If the Government considers that a discovery or development from which production may be made has resulted from the exploration work, the Government, at any time not later than six months after a sufficient, complete, final report and final account referred to in the contract has been rendered, may so certify in writing to the Operator. Such certification shall describe broadly or indicate the nature of the discovery or development, The Operator, or his successor in interest, shall pay to the Government a royalty on all minerals mined or produced from the land described in Article 2, as follows: (1) Regardless of any certification of discovery or development, from the date of the contract until the lapse of the time within which the Government may make such certification of discovery or development, or until the total net amount contributed by the Government, without interest, is fully repaid, whichever occurs first, unless the Government waives its right to a royalty; or (2) if the Government makes a certification of discovery or development, for a period of ten years from the date of the contract, or until the total net amount contributed by the Government, without interest, is fully repaid, whichever occurs first. Said royalty shall be a percentage of the net smelter returns, the net concentrator returns, or other net amounts realized from the sale or other disposition of any such production (including any bonuses), in whatever form disposed of, including ore, concentrates, or metal, as follows:

EXPLORATION PROJECT CONTRACT
CRESCENT MINES
DOCKET NO. DMEA-2928

EXHIBIT A

Description of the Work

The work is shown on the following attached maps:

Map No. 1 entitled "Composite Plan and Proposed New Exploration - Crescent Mine."

Map No. 2 entitled "Vertical Section Y-Y' Showing Proposed Diamond Drill Holes - Crescent Mine."

Map No. 3 entitled "Vertical Section D-D Showing Proposed Exploration - Crescent Mine."

All drilling shall be a minimum size of AX.

TRENCHING

Surface trench (four trenches) with a D-7 bulldozer, or equivalent, to uncover outcrops, not to exceed 200 hours. The trenches shall be located as shown on Map No. 1. The length and depth of the trenches will be determined by the mineralization showing in the trenches.

UNDERGROUND DIAMOND DRILLING

No. 5 tunnel. Two diamond drill holes (A_1 & A_2) shall be drilled, each approximately 200 feet in length. These holes are located as shown on Map No. 1, with the dip and courses of the holes shown on Map No. 2.

No. 1 crosscut (St. Johns). Four diamond drill holes (A_3, A_4, A_5 and A_6) shall be drilled, with an approximate aggregate total length of 800 feet. These holes are located as shown on Map No. 1, with the dip and courses of the holes shown on Map No. 2.

No. 3 tunnel. One diamond drill hole (A_7) shall be drilled, approximately 250 feet in length. This hole is located as shown on Map No. 1, with dip and course of the hole shown on Map No. 2.

Stope above No. 4 tunnel. One diamond drill (A_8) shall be drilled, approximately 120 feet in . This hole is located as shown on Map No. 1, with and course of the hole shown on Map No. 2.

An aggregate total length of approximately 1,380 feet of diamond drill holes shall be drilled at locations dependent upon the results obtained from preceding holes. The holes shall be located with dips, courses and lengths approved in advance by the Government.

SURFACE DIAMOND DRILLING

Peggy claim. A minimum of three diamond drill holes, with an approximate aggregate total length of 800 feet, shall be drilled at or near the Peggy tunnel and cut, as shown on Map No. 1. These holes shall be located with dips, courses and lengths approved in advance by the Government.

Fairholm claim. A minimum of three diamond drill holes with an approximate aggregate total length of 700 feet, shall be drilled to determine the downward extension of the outcrop. These holes shall be located with dips, courses and lengths approved in advance by the Government.

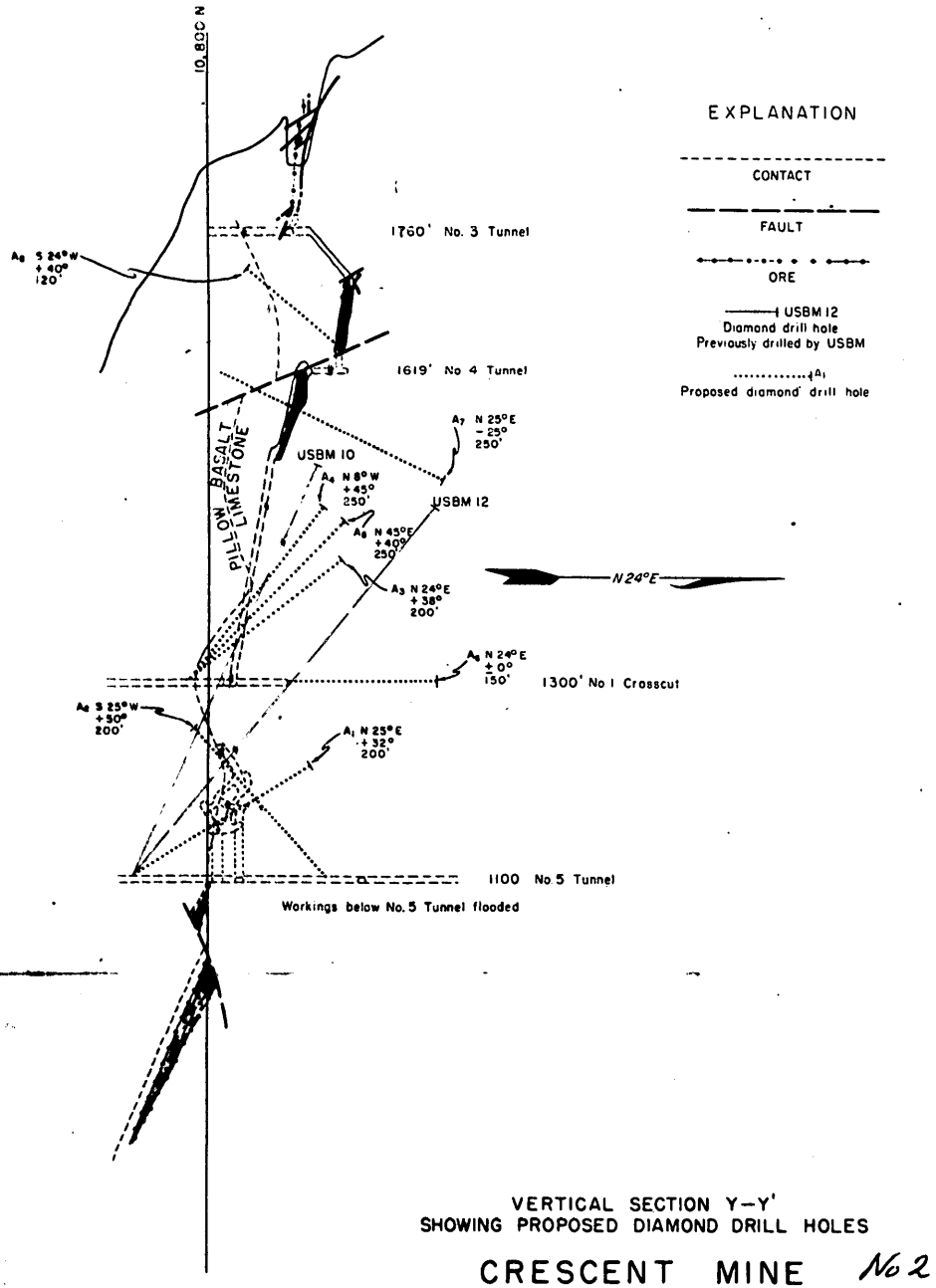
The aggregate total length of all surface diamond drilling shall not exceed a maximum of 1,500 feet.

Estimated Costs of the Project

Agreed Unit Costs

TRENCHING		
Bulldozing, 200 hours @ $20.00/hr. 1/	$ 4,000.00	
DIAMOND DRILLING		
Diamond drill holes, 4,500 feet @ $8.00/ft.	36,000.00	
Total Agreed Unit Costs		$40,000.00
Government Participation @ 75%		$30,000.00

1/ The unit cost includes all costs of sampling and assaying.

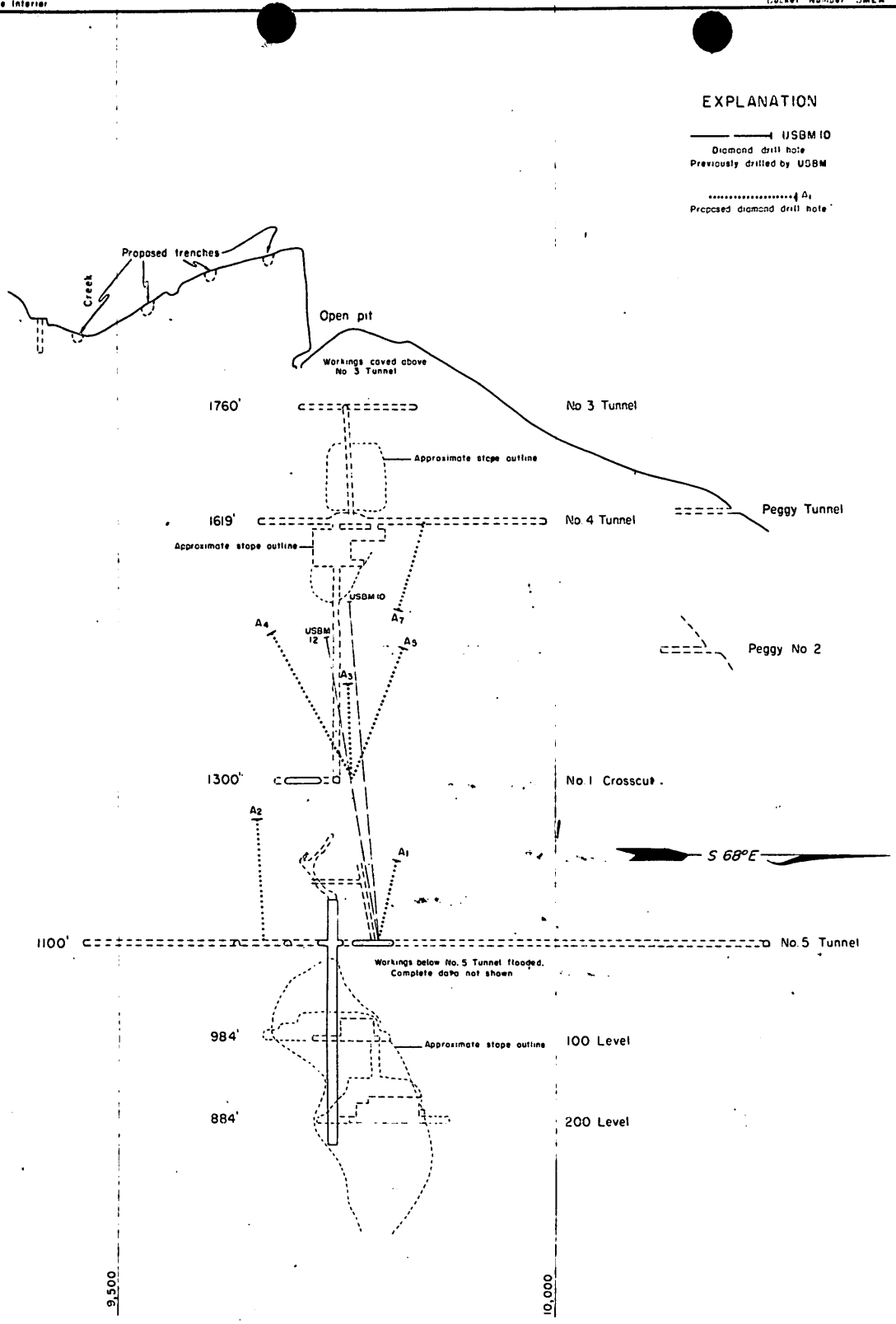


VERTICAL SECTION Y–Y'
SHOWING PROPOSED DIAMOND DRILL HOLES

CRESCENT MINE No 2

CLALLAM COUNTY, WASHINGTON

Modified from section prepared by
[illegible] Gilbertson, USGS



VERTICAL SECTION D–D
SHOWING PROPOSED EXPLORATION

CRESCENT MINE

No. 3

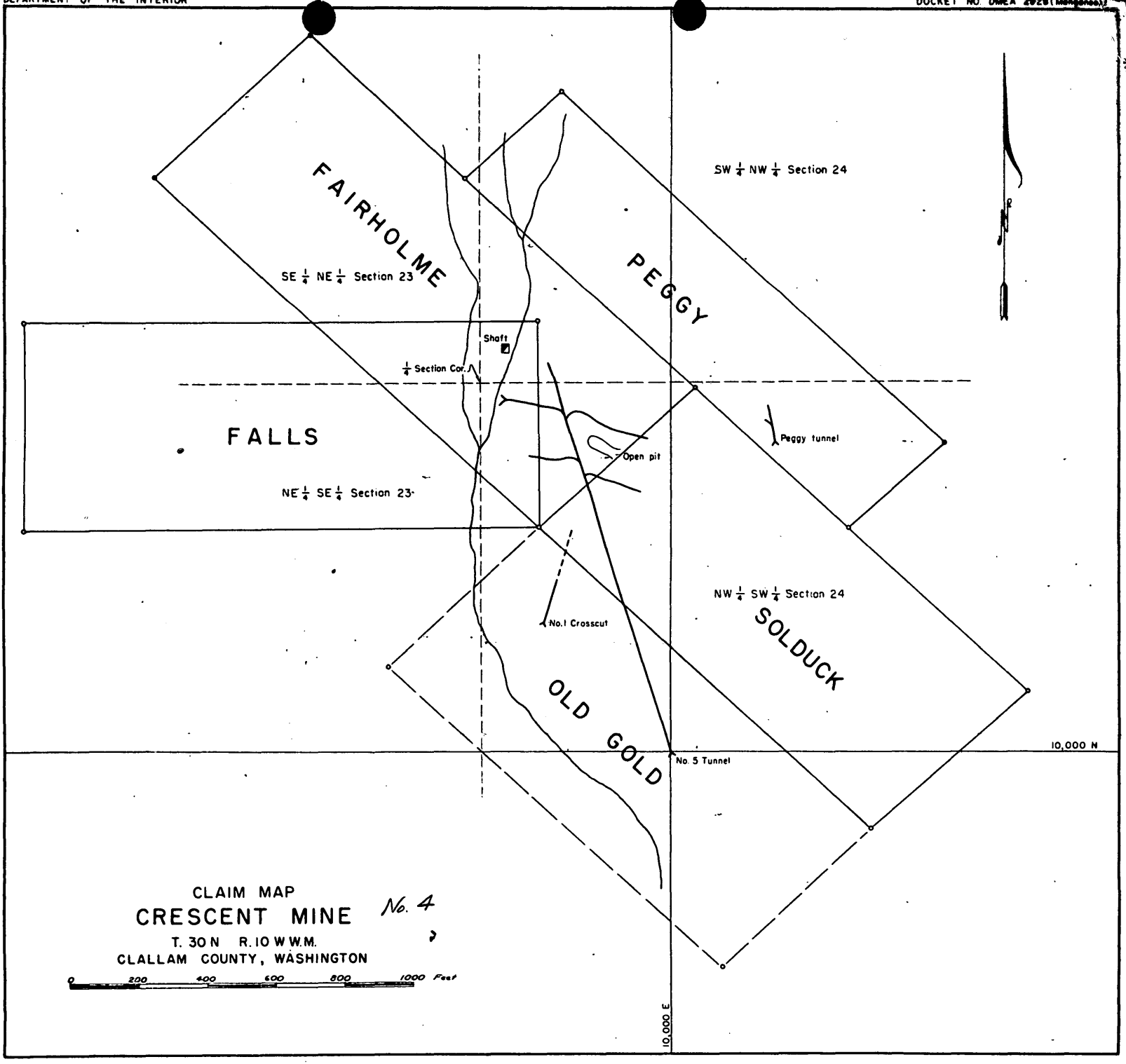
CLALLAM COUNTY, WASHINGTON

0 100 200 300 400 500 FEET

Modified from section prepared by Sunshine Mining Company

UNITED STATES GEOLOGICAL SURVEY
DEPARTMENT OF THE INTERIOR

DOCKET NO. DMEA 2928 (Manganese)



CLAIM MAP
CRESCENT MINE No. 4
T. 30 N R. 10 W W.M.
CLALLAM COUNTY, WASHINGTON

DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 2928

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

EXPLORATION LOAN

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.

One copy to USBM. and to USGS. Copy retained in Region II.

Routing Slip

To:	Code 400, Room 3538	Date	3/17/53
To:	Oper Com	Date	4-1-53
To:	Oper Com	Date	2-3-53
To:	Code 400	Date	7-6-53
To:	Oper Com	Date	2-29-53
To:	Code 400	Date	7-30-53
To:	Oper Com	Date	[illegible]
To:	Code 400	Date	9/8-53
To:	Oper Com	Date	10-26-53
To:	400	Date	10-27-53
To:	Oper Com	Date	11-25-53
To:	Code 400	Date	11/27/53
To:	Code 400	Date	1/5/54
To:		Date	
To:		Date	

DO NOT DETACH

CONTROLLED DOCUMENT

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

December 14, 1954

Mr. George C. Selfridge, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA-2928 (manganese)
Crescent Mines
Clallam County, Washington

Dear Mr. Selfridge:

Enclosed is a memorandum dated November 8, 1954, from E. A. Magill, mining engineer, Bureau of Mines, concerning recent activities at the Crescent mine. This information will not be needed unless a new application for a contract is received; nevertheless, it was thought that you would wish to have this in your files both for your general information and for possible future use in case the application is revived.

Sincerely yours,

A. E. Weissenborn

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

Enclosure

cc: USBM (2)
Puffett

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D.C.~~

1201 N.Division St.
Spokane 2, Washington
November 8, 1954

MEMORANDUM

To: DMEA Field Team, Region II

From: E. A. Magill, Mining Engineer, Bureau of Mines

Subject: Docket No. DMEA 2928 (manganese), Crescent Mines, Clallam County, Washington

This memorandum is written to record the activities at the Crescent Mine since the autumn of 1953.

Messrs. Mel Lewis and K. E. Hopper were forwarded a DMEA contract (No. Idm-E596) on September 8, 1953. Execution of this contract was dependent upon their obtaining an Owner's Consent to Lien on the property which they were unable to do. At about this same time their partnership was also dissolved. Financial difficulties closed down the operation of the property. It remained idle until in July 1954, tied up in litigation over the Lewis and Hopper lease. A court decision at that time revoked Lewis and Hopper's lease and put them in receivership.

As soon as the property was cleared, Mr. Dan C. Peacock leased the property. Mr. Peacock is a member of the firm of Peacock and Jamison who formerly operated the property so successfully from 1923 to 1926.

Mr. Peacock started a diamond drill program from the No. 3 level in an attempt to pick up the faulted segment of the orebody which he had mined years ago about the No. 2 level. Unfortunately, someone had mined out the faulted portion of the orebody which he had believed was still there. Six holes totaling 398.4 linear feet were drilled (see core log data attached). Although this drilling was successful in locating some ore, it was not of sufficient width or grade to be considered commercial.

Mr. Peacock plans to submit an application for an exploration project contract in the near future. The program that he plans to propose is very similar to the one which was drawn up for Lewis and Hopper. The six holes which Mr. Peacock has just finished drilling were not directed toward the target areas proposed in the previous contract except possibly the area to the east of stope above No. 4 level. It would appear that Peacock's No. 5 and 6 holes may have proven the ore lens has pinched down in that area.

Drill Hole Logs

The following are the logs supplied by D. C. Peacock for the diamond drill holes drilled at the Crescent Mine, Clallam County, Washington, in September and October 1954. The drilling was under contract to Lynch Bros. Diamond Drill Contractors, Seattle, Washington. Core size was EX; recovery was generally good, although some difficulty was experienced with caving ground. Six holes were completed for a combined footage of 398.4 feet, all holes being drilled from underground stations on No. 3 level (see attached map).

Hole No. 1 - Length: 54.0 feet; dip - horizontal

0 - 8.0'	Basalt
8.0 - 12.0'	Limestone. At 10.0' 1" disseminated manganese.
12.0 - 20.0'	Purple limestone.
20.0 - 30.0'	Purple limestone. Calcium carbonate veinlets, some chlorites.
30.0 - 45.0'	Limestone. Specks of manganese at 43.0'
45.0 - 54.0'	Basalt.

Hole No. 2 - Length: 47.0 feet; dip - minus 30 degrees

0 - 3.0'	Basalt. Contact at right angles to core.
3.0 - 34.0'	Limestone
34.0 - 37.0'	Limestone. Fault zone.
37.0 - 39.0'	Limestone.
39.0 - 42.0'	Ore zone. Split core assay 8" from hanging wall and 4" footwall. Manganese 20.4% Silica 31.5% Alumina 12.6% Split core assay from center of ore zone 12" core recovered. Manganese 40.2% Silica 18.4% Alumina 5.88%
42.0 - 47.0'	Basalt.

Hole No. 3 - Length: 90.2 feet; dip - plus 20 degrees

0 - 3.0'	Basalt.
3.0 - 30.5'	Limestone.
30.5 - 85.0'	Limestone. Disseminated manganese at 30.5
85.0 - 88.5'	Limestone with stringers of manganese.
89.5 - 90.2'	Basalt no faulting on contact.

Hole No. 4 - Length: 75.0 feet; dip - minus 20 degrees

0	-	4.0'	Basalt
4.0	-	58.0'	Limestone
58.0	-	59.2'	Manganese. Assay 36.6% Mn
59.2	-	67.5'	Limestone
67.5	-	75.0'	Greenstone

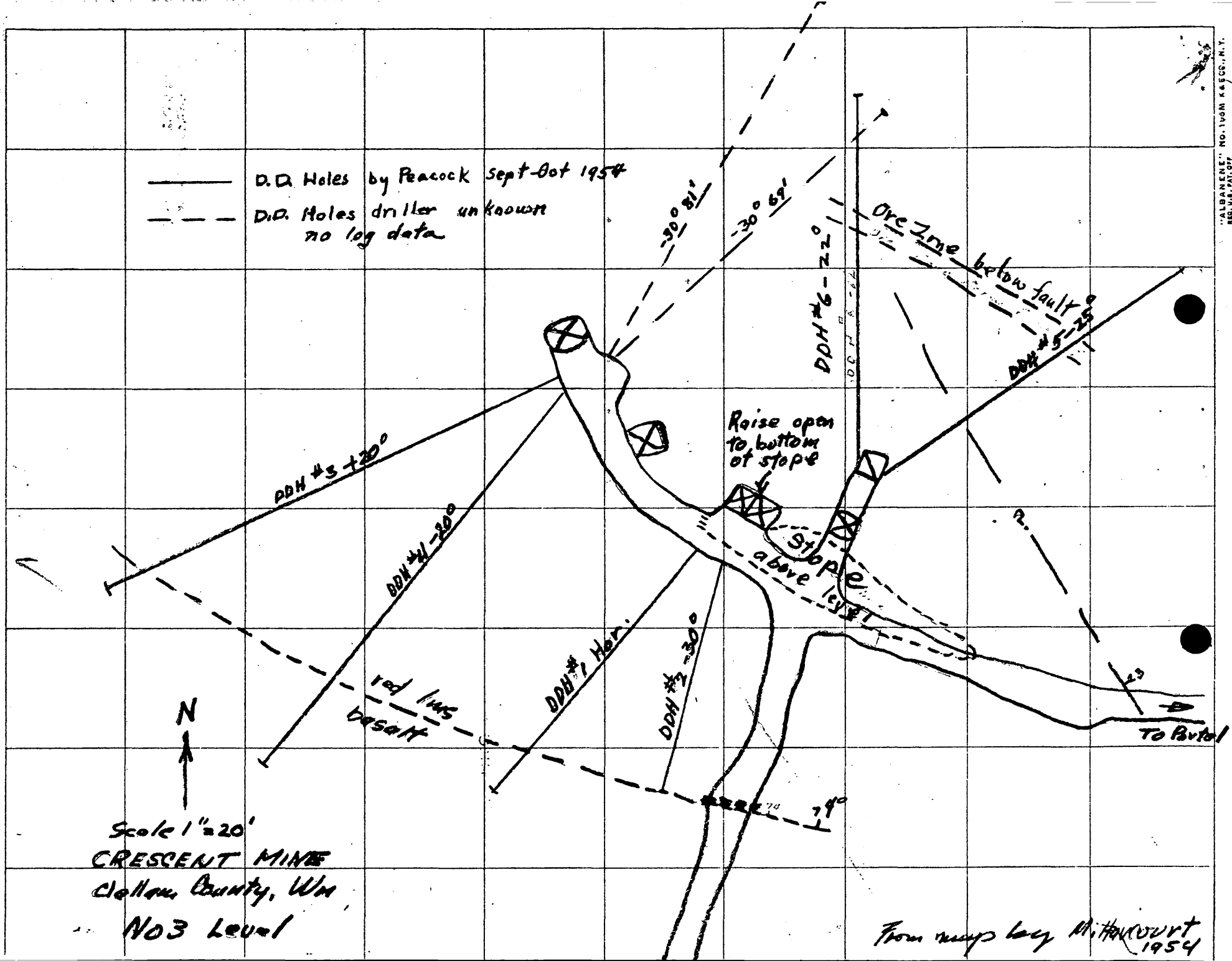
Hole No. 5 - Length: 63.9 feet; dip - minus 25 degrees

0	-	35.0'	Basalt
35.0	-	36.0'	Limestone
36.0	-	39.0'	Basalt
39.0	-	43.6'	Contact with limestone and ore zone. Ore zone 2 feet.
43.6	-	51.0'	Limestone
51.0	-	53.9'	Greenstone
53.9	-	57.6'	Limestone
57.6	-	61.0'	Greenstone
61.0	-	63.9'	Limestone

Hole No. 6 - Length: 68.3 feet; dip - minus 22 degrees.

0.0	-	34.0'	Greenstone
34.0	-	42.6'	Limestone
42.6	-	45.0'	Ore zone
45.0	-	60.0'	Limestone
60.0	-	68.3'	Limestone and tuff intermixed.

Orig. & 3 cys - Wash.
USGS (2)
DMEA
M/D
EAM/he


D.D. Holes by Peacock Sept-Oct 1954
D.D. Holes driller unknown
no log data
-30° 81'
-30° 69'
DDH #6 -22°
Ore Zone below fault
DDH #5 -25°
DDH #3 +20°
DDH #4 -20°
Raise open to bottom of stope
Stope above level
DDH #1 Hor.
DDH #2 -30°
red lus basalt
To Portal
N
Scale 1" = 20'
CRESCENT MINE
Clallam County, Wn
No3 Level
From maps by M. Hancourt 1954

FILE COPY
SURNAME:

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

Rewritten by

Chapman
Rubin
Hofflund
Martin
Chapman

JAN - 4 1954

Mr. Mel Lewis
Crescent Mines
1045 West Spokane Street
Seattle 4, Washington

Re: Docket No. DMEA-2928
(Manganese)
Crescent Mines
Clallam County, Washington

Dear Mr. Lewis:

Reference is made to your letter of December 21, 1953, which advised us of your efforts to obtain Owners' Consents to Lien for the subject property.

As you requested, we shall keep your application active for one additional 90-day period from December 28, 1953, or until March 28, 1954.

Your letter inquires whether an exploration project contract would be entered into with you without Owners' Consents to Lien from the owners of the outstanding interests in the land. In a few instances, we have made contracts without the Owners' Consents to Lien, but in those cases the Operators held leases of the interests in land which they did not own and, in addition, furnished acceptable guaranty of the Government's percentage royalty. Your proposal is quite different in that, apart from the question of guaranty of royalty, you do not have a lease of the outstanding interests in the land, and, therefore, it is unacceptable.

We shall be pleased to cooperate with you as soon as your difficulties concerning the land are resolved.

Sincerely yours,

G. O. Mittendorf (fw)

Administrator

TLChapman:HCR:ep 12-30-53

Copy to: Docket
Admr. Reading File
Operating Committee
Mr. Gilbert DeHuff, B/M
Mr. Louis Pavlides, USGS
Mr. Martin
Mr. Hofflund
Mr. Rubin
Chron.
Pending
DMEA Field Team, Reg. II

R.C.B. 1-4-54

SAWDUST SUPPLY CO.

1045 WEST SPOKANE STREET
SEATTLE 4, WASHINGTON
MAIN 4321

DMEQ - 2928

SAWDUST
HOGGED FUEL
SMOKING DUST
SOIL CONDITIONERS

Bureau of Mines Information Division
Received
DEC 28 1953

December 21, 1953

WSM

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

Dear Sir:

Re: Crescent Mines (Mel Lewis) D. M. E. A. loan.

Mr. Magil of the Bureau of Mines office in Seattle, suggested I write you and explain the long delay in furnishing your office with the consent's of lein from the property owners.

Due to a misunderstanding between the owners and myself, I have been unable to secure their signatures, although, since I have sale for the ore I now have on hand to G. S. A. and am going to start mining again I believe our grievances will be settled.

I am still interested in the loan and if you would grant me a ninety day extension before closing the file, I feel sure I can furnish the necessary papers.

I am purchasing a one-fourth interest in the mine and understand that in some cases a loan has been made to an owner-operator without the other owners consent. If this is possible, will you please let me know.

Please address all further correspondance to:
Mel Lewis, 1045 West Spokane St., Seattle, 4, Wash.

Sincerely Yours
Mel Lewis
Mel Lewis

Mde

FILE COPY
SURNAME:

Rutledge
Martin
Farrar
Hodges
Johnson

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

400

NOV 25 1953

Messrs. Mal Lewis and K. E. Hopper
Crescent Mines
17321 - 33d South
Seattle 88, Washington

Re: Docket No. DMEA 2928 - Manganese
Crescent mine
Clallam County, Washington

Gentlemen:

On September 8, 1953, a proposed contract was forwarded through Mr. A. E. Weissenborn, Executive Officer, DMEA Field Team, Region II, for your signatures. Execution of the proposed contract was subject to acquisition by the Operator of a 1/4th interest in the three patented claims and a lease of the remaining 3/4th's interest; and subject to obtaining an Owner's Consent to Lien for the 3/4th's interest.

We were informed by a Field Team memorandum of October 13, 1953, that the partnership of Lewis and Hopper had been dissolved, but that Mr. Lewis was still interested in an exploration project at the Crescent mine. On October 27, 1953, we requested the Field Team to return the proposed contract to Washington until the Applicant had reorganized his business entity.

The Defense Minerals Exploration Administration wishes to cooperate fully in the matter of allowing ample time for the submission of the data necessary for the preparation of a contract, but if the required information has not been received by December 28, 1953, we will then remove the application from the active file and consider the matter closed.

The closing of the subject docket, however, will be made without prejudice to the property. If at some future date the present difficulties are resolved, we will be glad to consider a revised application for exploration assistance on the subject property. The revised application should contain all of the necessary data and refer to the present docket.

Sincerely yours,

C. O. Mittendorf (fw)

Administrator

FARutledge:foc
11-18-53
cc: Docket
Code 400
Admr. Reading File
Operating Comm.
FT. Reg. 2
Gilbert DeHuff, USBM
Louis Pavlides, USGS

11-25-53

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
NOV 5 1953

November 3, 1953

WSM

Mr. George C. Selfridge, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA-2928 (Manganese)
Crescent Mines
Lewis and Hopper
Clallam County, Washington
Contract Idm-E596

Dear Mr. Selfridge:

In compliance with the request contained in your letter dated October 27, enclosed are all copies of the subject contract.

Sincerely yours,

Thor H. Kiilsgaard

Thor H. Kiilsgaard,
Acting Member,
DMEA Field Team, Region II

Enclosure

cc: USBM (2)
Puffett

11-9

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

[illegible]
[illegible]
[illegible]

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
[illegible] 1953

[illegible]

Mr. [illegible], Chairman
Operating Committee [illegible]
Department of the Interior
Washington 25, D. C.

Re: Contract No. [illegible] (Manganese)
Gibraltar Mines
Lewis and Rogers
Clallam County, Washington
Contract Ian-[illegible]

Dear Mr. Collbrigge:

In compliance with the request contained in your letter dated October [illegible], enclosed are all copies of the subject contract.

Sincerely yours,

Thor H. Kalloguard,
Acting Member,
DMEA Field Team, Region [illegible]

Enclosure

cc: [illegible] (w)
[illegible]

FILE COPY
SURNAME:

40

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

OCT 27 1953

Mr. A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II
South 157 Howard Street
Spokane 4, Washington

Re: Docket No. DMEA-292
(Manganese)
Crescent Mines
Lewis and Hopper
Clallam County, Wash.
Contract Idm-2530

Dear Mr. Weissenborn:

This responds to your letter dated October 15 requesting that the contract which has been prepared for the above-identified project, but not signed by the applicant, be not withdrawn for a while in order to permit the applicant to reorganize his business entity and to refinance.

Please return all copies of the contract, and we shall hold it open for a reasonable period of time. When the applicant has completed reorganization of his business entity, has refinanced his business, and has completed his negotiations with the General Services Administration, the information concerning these matters should be sent to us for reconsideration of the status of the contract.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee

Approved:

J. H. Hedges
Member, Bureau of Mines

T. P. Thayer
Member, Geological Survey

HCRubin:ep 10-23-53

Copy to: Mails & Files
Adm. Reading File
Operating Comm.
Mr. Gilbert DeHuff, B/M
Mrs. Martha S. Carr, USGS

Mr. Martin
Mr. Hofflund
Mr. Rubin
Chron.
Pending

R.C.S. 10-27-53

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

October 15, 1953

Mr. George C. Selfridge, Chairman
DMEA Operating Committee
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA-2928 (manganese)
Crescent Mines, Lewis and Hopper
Clallam County, Washington
Contract No. Idm-E596

Dear Mr. Selfridge:

Enclosed is a memorandum of October 13 from E. A. Magill of the U. S. Bureau of Mines outlining the situation at the Crescent manganese mine on the Olympic peninsula. Because of a number of difficulties, which Mr. Magill discusses, work has not started on the contract.

Because, in our opinion, the possibilities of finding ore on the property are quite favorable and because there appears to be a chance the difficulties that have delayed the start of work can be resolved within a reasonable time, we request that the contract be held open for awhile. We are holding the contract here, unsigned, until such time as the conditions laid down in the Operating Committee's letter of September 8 can be met and other difficulties solved.

Sincerely yours,

A. E. Weissenborn

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

Enclosure - 1 (in quad.)

cc: USBM (2)
Puffett

RECEIVED
OCT 23 1953
GENERAL COUNSEL
DEFENSE MINERALS
ADMINISTRATION

Copy retained 400

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

1201 N. Division St.
Spokane 2, Washington
October 13, 1953

MEMORANDUM

To: DMEA Field Team, Region II

From: E. A. Magill, Mining Engineer, Bureau of Mines

Subject: Crescent Mine, Lewis and Hopper, Clallam County, Wash.
Docket No. DMEA 2928 (manganese)

Mr. Mel Lewis was contacted on October 12, 1953 regarding plans for further work at the subject property. The property has been inactive since early summer. This has been due to at least three reasons:

1. Partnership of Lewis and Hopper has broken up.

2. Applicants had financial difficulties because they were unable to sell 300 tons of high silica ore which they had mined and stockpiled at Port Angeles.

3. Easily available high grade ore has been mined out.

Mr. Hopper is now apparently more or less out of the picture with Mr. Lewis attempting to bring the property back into production.

Lewis has been unable to obtain Owner's Consent to Lien from the various owners of the property. He owns (or is buying) a quarter interest in the property himself and can apparently obtain the necessary consent on another quarter interest. He has been unsuccessful in obtaining the necessary papers on the other half interest.

Financial difficulties have also plagued the operators. This matter is apparently being solved by a purchase contract which Lewis has entered into with the General Services Administration for the sale of 500 tons of (manganese 40 percent plus) ore with no restrictions on the silica content. If this contract can be consummated the financial situation should be clarified for the time being at least.

Mr. Lewis is very anxious to enter into the exploration project contract as soon as he can resolve his difficulties. He requested that he be given another month or until November 8, 1953 to obtain the necessary consents to lien.

It is recommended that the exploration project contract be held in abeyance until the applicant resolves his difficulties or until someone else takes over the property, inasmuch as the Crescent mine is one of the better potential sources of high grade manganese oxide in the United States.

E. A. Magill

Orig. & 3 cys - Wash.
USGS (2)
DMEA
M/D
EAM/he

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

1201 N. Division St.
Spokane 2, Washington
October 13, 1953

MEMORANDUM

To: DMEA Field Team, Region II

From: E. A. Magill, Mining Engineer, Bureau of Mines

Subject: Crescent Mine, Lewis and Hopper, Clallam County, Wash.
Docket No. DMEA 2928 (manganese)

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Mr. Louis is very anxious to enter into the exploration project contract as soon as he can resolve his difficulties. He requested that he be given another month or until November 8, 1953 to obtain the necessary consents to lien.

It is recommended that the exploration project contract be held in abeyance until the applicant resolves his difficulties or until someone else takes over the property, inasmuch as the Crescent mine is one of the better potential sources of high grade manganese oxide in the United States.

Orig. & 3 cys - Wash.
USGS (2)
BMRA
M/D
EAM/he

E. A. Magill

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

1201 N. Division St.
Spokane 2, Washington
October 13, 1953

MEMORANDUM

To: DMEA Field Team, Region II

From: E. A. Magill, Mining Engineer, Bureau of Mines

Subject: Crescent Mine, Lewis and Hopper, Clallam County, Wash.
Docket No. DMEA 2928 (manganese)

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2. Applicants had financial difficulties because they were unable to sell 300 tons of high silica ore which they had mined and stockpiled at Port Angeles.

3. Easily available high grade ore has been mined out.

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Lewis has been unable to obtain Owner's Consent to Lien from the various owners of the property. He owns (or is buying) a quarter interest in the property himself and can apparently obtain the necessary consent on another quarter interest. He has been unsuccessful in obtaining the necessary papers on the other half interest.

Financial difficulties have also plagued the operators. This matter is apparently being solved by a purchase contract which Lewis has entered into with the General Services Administration for the sale of 300 tons of (manganese 40 percent plus) ore with no restrictions on the silica content. If this contract can be consummated the financial situation should be clarified for the time being at least.

Mr. Lewis is very anxious to enter into the exploration project contract as soon as he can resolve his difficulties. He requested that he be given another month or until November 8, 1953 to obtain the necessary consents to lien.

It is recommended that the exploration project contract be held in abeyance until the applicant resolves his difficulties or until someone else takes over the property, inasmuch as the Crescent mine is one of the better potential sources of high grade manganese oxide in the United States.

Orig. & 3 cys - Mank. ✓ E. A. Nagill
USGS (2)
BMRA
N/D
NAN/ms

Docket 53

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

September 11, 1953

Registered Mail
Return Receipt Requested

Messrs. Mel Lewis and K. E. Hopper
Crescent Mines
17321 - 33d So.
Seattle 88, Washington

Re: Docket No. DMEA-2928 (Manganese)
Crescent Mines
Clallam County, Washington

Gentlemen:

Today, we received copies of an exploration project contract for which you applied earlier this year. Execution of this contract is subject to your acquisition of a 1/4th interest in the three patented claims, Fairholm, Peggy, and Sol Duc, and a lease of the remaining 3/4th's interest; and subject to your obtaining an Owner's Consent to Lien for the 3/4th's interest. We have requested this information from you previously but as yet have had no reply to our letters.

It is our information that your partnership may no longer exist as such. Please let us know at the earliest possible date as to the true state of affairs concerning the present operation of the Crescent mine as the present contract is made out to the partnership.

The contract is dated September 8, 1953, and the contract stipulates that work is to commence within 30 days from that date. Consequently, if we do not receive a satisfactory answer from you or the provisions to which the contract are subject are not fulfilled by 30 days from September 8, 1953, we will have to return the contract to the Washington office for cancellation.

Very truly yours,

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

cc: [illegible] (2)
[illegible] (2)
Duffett

9/22/53

MEMORANDUM FOR THE FILE:

Bill Freeman of the Emergency Procurement Service phoned September 22, regarding Crescent Mines, Docket No. DMEA 2928.

He says Crescent has 500 tons of high silica material. He intends to recommend that G.S.A. make an exception and take that tonnage. When Crescent receives the money, the owner will then give Crescent an Owner's Consent to Lien so that Crescent can pick up our contract which was sent to Spokane on September 8, 1953.

W. S. Martin

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D. C.~~
So. 157 Howard Street
Spokane 4, Washington

DOCKET

September 9, 1953

WSM

Mr. Mel Lewis
Crescent Mines
17321 - 33d So.
Seattle 88, Washington

Re: Docket No. DMEA-2928 (Manganese)
Crescent Mine
Clallam County, Washington

Dear Mr. Lewis:

Your attention is directed to letters from this office dated May 29 and August 13, 1953, both of which requested copies of Consent to Lien Agreements for your Crescent mine application. To date, we have not received these agreements nor have we received letters from you concerning this subject.

We must now advise that unless we receive the Consent to Lien Agreements within thirty days of this date, we will assume that you are no longer interested in the DMEA contract and will recommend to the Washington office that your application docket be closed.

Very truly yours,

Thor H. Kiilsgaard
for A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

cc: (2)
DMEA (2)
Puffett

Copy retained 400

FILE COPY
SURNAME:

Burton Hofflund

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

140

MSmRR August 20, 1953

Memorandum

To: The Administrator

Through: W. S. Martin

From: Chief Counsel

Subject: Crescent Mines - Docket No. DMEA-2928

There is attached, in satisfactory legal form for execution, a contract covering the above-described project, subject to acquisition by the Operator of a 1/4th interest in and a lease of the remaining 3/4th interest in the three patented claims; subject to obtaining an Owner's Consent to Lien for the 3/4th's interest; and subject to attachment of the maps referred to in the contract.

J. L. Hofflund

J. L. Hofflund
Chief Counsel

Attachments

HCRubin/ema
cc: Mails & Files
J. L. Hofflund
H. C. Rubin
W. S. Martin
Chron.

8-21-53

Docket

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

So. 157 Howard Street
Spokane 4, Washington

L.A.R.

August 13, 1953

Messrs. Mel Lewis and
K. E. Hopper
Crescent Mines
17321 - 33rd South
Seattle 88, Washington

Re: Docket No. DMEA-2928 (Manganese)
Crescent Group of claims
Clallam County, Washington

Gentlemen:

On May 29 this office wrote to you enclosing Owner's Consent to Lien forms and requesting copies of each of your leasing agreements. To date we have not received them.

You will appreciate that the Washington office cannot proceed with the consideration of your application until these documents are received. If it is impossible for you to obtain the necessary signatures for the Owner's Consent to Lien, we would like to be so informed.

Very truly yours,

Thor H. Kiilsgaard
For: A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

cc: DMEA (2)
USBM (2)
Puffett

emr

FILE COPY
SURNAME:

400

Chapman
Rutledge
Gray for DeHuff
Carr
Ellis
Selfridge

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

SEP 8 1953

Mr. A. E. Weissenborn, Executive Officer
DMEA Field Team, Region II
South 157 Howard Street
Spokane 4, Washington

Re: Docket No. DMEA 2928 - Manganese
Crescent Mines
Clallam County, Washington

Dear Mr. Weissenborn:

We are enclosing the original and five copies of the above-referenced exploration contract signed by the Administrator for the Government, together with Exhibit "A" (2 pages), Annex I (1 page), Annex II (1 page), and 4 maps showing plan of workings, two sections, and claim map.

If any part of this contract does not have either your approval or that of the Operator and cannot be altered within your delegated authority, the original and all copies of the contract are to be returned to this office, together with the proposed changes for consideration.

Execution of the proposed contract will be subject to acquisition by the Operator of a 1/4th interest in the three patented claims and a lease of the remaining 3/4th's interest; and subject to obtaining an Owner's Consent to Lien for the 3/4th's interest.

Sincerely yours,

Ernest Wm. Ellis
EST

ACTING Chairman, Operating Committee

APPROVED:

J. H. Hedges
EST
Member, Bureau of Mines

A. R. Kinkel, Jr.
Member, Geological Survey

TLChapman:foc 9-3-53
cc: Docket
Code 400
FT. Reg. 2
Operating Comm.
Adm. Reading File
Gilbert DeHuff, USBM
Mrs. Martha Carr, USGS

Enclosures

HHK 9-8-53

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

August 20, 1953

WSM

Memorandum

To: The Administrator

Through: W. S. Martin

From: Chief Counsel

Subject: Crescent Mines - Docket No. DMEA-2928

There is attached, in satisfactory legal form for execution, a contract covering the above-described project, subject to acquisition by the Operator of a 1/4th interest in and a lease of the remaining 3/4th interest in the three patented claims; subject to obtaining an Owner's Consent to Lien for the 3/4th's interest; and subject to attachment of the maps referred to in the contract.

J. L. Hoffland
Chief Counsel

Attachments

Docket

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

No. 157 Howard Street
Spokane 4, Washington

August 6, 1953

Messrs. Neal Louis and
K. H. Hopper
Crescent Mine
17321 - 33rd South
Seattle 88, Washington

Re: Docket No. DMA-2723 (manganese)
Crescent Mine
Clallam County, Washington

Gentlemen:

We have received word from our Washington office that your application for an exploration contract at the Crescent Mine is being held up awaiting receipt of the Owner's Consent to Lease form. Our records show that the blank forms we sent to you on May 27 for completion have not yet been returned.

Would you kindly return these completed forms at your earliest convenience so that we may finish with the processing of your application?

Very truly yours,

A. . Glenborn
Executive Officer, DMA
Field Team, Region II

cc: USBM (2)
DMA (2)
Buffett

FILE COPY
SURNAME:

RC
Martin
Selfridge
Wilson
Mattesey

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

JUL 30 1953

Mr. A. E. Weissenborn, Executive Officer
DMEA Field Team, Region II
South 157 Howard Street
Spokane 4, Washington

Re: Docket No. DMEA 2928 - Manganese
Crescent Mines
Mel Levie and K. B. Hopper
Crescent Group and Crescent Mines Group
Clallam County, Washington

Dear Mr. Weissenborn:

In reference to the subject docket, we find that we have not received the lease and Owner's Consent to Lien. Will you please check on this and, if possible, have the applicant expedite the forwarding of same to us so that we may proceed with the application.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (JB)

APPROVED:

TLChapman/ls 7/27/53

J. M. Hedges

Member, Bureau of Mines (JB)

A. R. Kinkel, Jr.

Member, Geological Survey (JB)

cc: DOCKET
FIELD TEAM, REG. II
ADM. READ. FILE
CODE 400
EDGAR GEALY, USBM
MARTHA CARR, USGS
OPER. COMMITTEE

R.C.G.
7-29-53

This can wait till some of the hotter things now on hand have been taken care of. Then it should be analyzed carefully to see whether the quality of the reply is at all proportional to its quantity

7/22/53 WSM

Docket

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

So. 157 Howard Street
Spokane 4, Washington

July 17, 1953

WSM

Mr. George C. Selfridge, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA 2928 (manganese)
Crescent Mine
Clallam County, Washington

Dear Mr. Selfridge:

Enclosed are memorandums by Willard P. Puffett, U. S. Geological Survey, and E. A. Magill, U. S. Bureau of Mines, concerning the Crescent Mine. These memorandums have been prepared as a result of your inquiry of July 6 with which you enclosed a map on which was outlined diamond drill data obtained in a Bureau of Mines program at the mine in 1939 and 1940.

In the enclosed memorandums an attempt has been made to explain the reasons for the proposed exploration project and to explain why no underground work such as drifting, crosscutting, raising, or sinking was specified in the program. It is hoped the memorandums will satisfactorily provide the answer to your inquiry.

It is noted that as yet no completed copies of Owner's Consent to Lien have been submitted by the applicant. The applicant states that he will present them within a few days.

By Field Team, Region II

Thomas E. Howard
Thomas E. Howard, Acting Exec. Officer
U. S. Bureau of Mines

J. J. Quinlan
J. J. Quinlan, Acting Member
U. S. Geological Survey

Enclosures

cc: USBM (2)
Puffett

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

1201 N. Division St.
Spokane 2, Washington
July 17, 1953

MEMORANDUM

To: DMEA Field Team, Region II

From: E. A. Magill, Mining Engineer, Bureau of Mines

Subject: Crescent Mines, Clallam County, Washington
Docket No. DMEA 2928 (manganese)

In reply to a letter from the Operating Committee on the subject application, dated July 6, 1953, the following comments are offered to supplement those of Mr. Puffett's reply to the same letter.

In regard to the suggestion of the Operating Committee that sinking be continued in the shaft and winze, I believe that much more information can be obtained in this instance at less cost by diamond drilling. The ground is well suited to diamond drilling and core recovery has been excellent in past drilling. In both the shaft and winze areas if ore is discovered it would be more economical to develop and mine by means other than through the shaft or winze.

In the case of the shaft it would appear to be more feasible to develop it by drifting along the limestone bed from the No. 3 or No. 4 levels to reach the downward extension of an ore lens. A 300-foot drift from the No. 3 level would come in 110 feet below the collar of the shaft, or the same amount of drifting from the No. 4 level would come in 250 feet below the collar.

In the case of an ore discovery in the winze area it could be developed through the stope below the No. 4 level or from the raise from the No. 1 crosscut.

Therefore, it appears that diamond drilling in these two areas would be much more economical either from an exploration or development standpoint.

E. A. Magill

Orig. & 3 cys - Wash.
USGS (2)
DMEA
M/D
EAM/he

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

July 13, 1953

Memorandum

To: DMEA Field Team, Region II

From: Willard P. Puffett, Geologist, U. S. Geological Survey

Subject: Docket No. DMEA-2928 (Manganese), Crescent Mines, Clallam County, Washington.

On July 9, 1953, a letter was received from the Operating Committee confirming a conference between Mr. M. E. Volin, U. S. Bureau of Mines, and the staff of the Iron and Ferro-Alloys Division of the DMEA. In the letter were listed certain other possibilities for exploration than those specified in the field examination report and attached to the letter was a map on which were shown diamond drill data obtained by a Bureau of Mines drilling program at the Crescent Mine in 1939-1940.

It is fortunate that we could be supplied with this map on which is shown some data which had heretofore been unavailable. In preparing the field examination and examination report, an attempt was made to obtain all information possible that had been previously gathered by various agencies at the Crescent Mine. Probably the most significant data were those from the Bureau of Mines plus those from the records of Sunshine Mining Company who mined a large ore body from beneath the No. 5 level, subsequent to the Bureau of Mines drilling program.

The maps accompanying the field examination report show the locations of all but hole No. 4, and those inclined holes drilled beneath the No. 5 level. Although our records show that hole No. 4 was planned, they did not show that it had been drilled. The maps with the field examination report show the ore intersections in holes 10 and 12, but the data on the ore intersections in holes 4 and 5 were not available to us. The diamond drill holes drilled beneath the No. 5 level were not plotted inasmuch as the proposed exploration did not concern that area. The outline of the ore zone beneath the No. 5 level was shown on the section maps in an effort to emphasize the relatively restricted horizontal area in which the known ore bodies have been found.

The suggestion is made in the letter from the Operating Committee that the shallow winze on the No. 4 level, and the short shaft northwest of the main mine workings, be unwatered and further sinking done on the ore which is reported to exist in the bottom of these two workings. The suggestion is also submitted that perhaps some of the drilling outlined in the proposed exploration project duplicates drilling previously completed at the property.

It was emphasized in the field examination report that at the Crescent Mine the exploration targets are relatively small. Thus, in outlining a drilling program it was necessary to plan the location of the holes so that not more than 100 feet, horizontally or vertically, would separate the points of intersections of these holes with the assumed favorable ore zone. Insofar as is known at present this zone is near the lower stratigraphic portions of the limestone stratum which traverses the Crescent Mines property.

Diamond Drill holes A_1 and A_2, to be drilled upward from locations on the No. 5 level, are expected to intersect the ore zone approximately 80 feet above the level. In the raise above the shaft, and in the raise to the east of the shaft, narrow showings of ore have been exposed. These ore locations are shown on the map showing vertical section Y-Y', the other dimensions of the two raises being shown on vertical section D-D'. Although these ore showings are relatively narrow it is not known if they represent the narrow extensions of a thicker lens of ore either to the east or to the west. Thus holes A_1 and A_2 are to intersect an area within fifty feet to the east and west of both ore showings. If these small lenses of ore represent end portions of a minable ore lens either to the east or to the west, the two diamond drill holes should definitely establish this fact. If these two holes intersect only barren rock, it is quite probable that an ore zone does not exist in the area between the No. 5 tunnel and the No. 1 crosscut.

Apparently it is believed by members of the Ferro-Alloys Division that holes A_3, A_4, and A_5, will duplicate in part that accomplished by USBM holes 10 and 12. It should be pointed out that the two USBM holes were drilled in the very central portion of the assumed productive zone and explored only a very narrow horizontal extent of this zone. Also USBM 10 was drilled at too steep an angle to make a favorable angle of intersection with the ore zone. These two facts can be seen by studying the two vertical section maps on which the two holes are located. Holes A_3, A_4, and A_5, were not planned to point toward any particular target but were outlined to explore the width of the assumed promising ore zone at an elevation eighty to 100 feet above the No. 1 crosscut level. Hole A_6 was specified to insure that no ore zone would

be missed should one occur at a location much farther from the limestone-basalt contact than other ore shoots have been found. These four holes are planned for exploration of a more general nature but it is believed that their completion will establish if more minable ore exists between the No. 1 crosscut and the stope beneath No. 4 level.

The reasons for the locations of holes A_7 and A_8 are explained in the field examination report. These two holes are outlined to search for possible ore lenses parallel to those from which considerable ore has been produced.

In the second paragraph, under Discussion of Proposed Application, on page 10 of the field examination report, the possibility of accomplishing the exploration at the Crescent Mine by drifting, crosscutting, and other underground openings is discussed. It was attempted in this paragraph to explain the reason no such type exploration had been outlined, as for instance the continued sinking and the shallow winze on No. 4 level, and the short shaft northwest of the mine workings.

Although advancing underground workings on exposed ore is probably one of the most positive ways for exploration of ore bodies, it is believed that this type of exploration at the Crescent Mine should not be planned until prior information is gained concerning the possible size of the exposed ore lenses. If the diamond drilling proves that these now-exposed ore lenses persist on strike or dip, then underground work such as sinking, drifting, or raising can be planned. It is known that at the Crescent Mine, numerous very small lenses of ore occur and should sinking be started on one such lense, two rounds of advance may intersect only barren ground and thus the project would of necessity come to a halt or be recessed until evaluation could be made of the information obtained from the completed work.

The diamond drilling program as outlined is in accordance with that work for which the applicant applied. There was no request for assistance in carrying out underground work in the form of advancing man-sized openings. The program appears feasible and for a very moderate cost, diamond drilling can insure whether another minable ore lens still exists in the area of the main workings of the Crescent Mine. The program as outlined appears to be the minimum necessary to accomplish the purpose of the project. Sufficient elasticity is allowed in the drilling as only fifty percent is definitely outlined, the rest of the drilling being contingent upon previous results, so that problems of administration can be kept to the minimum.

It is re-emphasized that at the Crescent Mine, the ore lenses are relatively small but the ore is of sufficient grade to command premium prices. A great amount of underground workings had been driven in an unsuccessful attempt to intersect minable ore lens prior to the U. S. Bureau of Mines drilling program which outlined a very promising ore body with only a very few drill holes.

Distribution:

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

Hopkins
Rutledge
Martin
Rutledge
Mitchell

JUL 6 1953

Mr. A.E. Weissenborn, Executive Officer
DMEA Field Team, Region II
South 157 Howard Street
Spokane 4, Washington

Re: Docket No. DMEA 2928 - Manganese
Crescent Mines
Clallam County, Washington

Dear Mr. Weissenborn:

This will confirm a conversation in Washington, D. C., between Mr. M. E. Volin, member of the DMEA Field Team, Region II, and the staff of the Iron and Ferro Alloys Division, regarding the exploration work recommended by the Field Team for the cited project. This work consists of diamond drilling and a limited amount of surface trenching.

The above mentioned Division, had obtained a map from the Bureau of Mines' files that purportedly showed more details of the diamond drilling performed on the property by the Bureau in 1939-1940, than is shown on maps accompanying the Field Team's Report. With this additional information available, it was believed that some of the exploratory drilling recommended by the Field Team might be a partial duplication of the drilling which had been completed. The surface trenching is considered both worthwhile and an important phase of the exploration work.

It was noted on maps accompanying the report that there apparently were two ore showings on the property, one in a shallow shaft on the surface and the other in a shallow winze on the fourth level, that offer possibilities of significant discoveries. Both might be unwatered and opened up so that the ore could be followed by sinking operations.

After a thorough discussion of the various phases of the recommended exploration, it was agreed that the Report be referred back to the Field Team for review, giving consideration to the foregoing, and then resubmitted with any supplementary or amended recommendations.

R.G.H.
7-6-53

Complying with Mr. Volin's request, a copy of the above-noted Bureau of Mines map is herewith enclosed.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee
(JHO)

APPROVED:

J. H. Hedges
Member, Bureau of Mines (JHO)

A. R. Kinkel, Jr.
Member, Geological Survey (JHO)

JHOPKINS:FOC
6-30-53

cc: Docket
Code 400
FT. Reg. II
Operating Comm.
Adm. Reading File
N. B. Melcher, USBM
Mrs. Martha Carr, USGS

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

June 30, 1953

MEMORANDUM

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

From: James Hopkins

Subject: Map showing diamond drill holes by U. S. B. M.
Crescent Mines Property, Clallum County, Washington
Docket No. DMEA-2928 - Manganese

The map from which this photostat was taken comes from the Bureau of Mines files, is unidentified as to date or author and appears to be an incomplete working map. It is very probable that the base map is not a Bureau of Mines map but rather that the Bureau engineer has taken an available map and placed his drilling data upon it. Some of the level intervals on the section do not agree with those on published U. S. G. S. sections. This questions whether the composite plan is itself correct in all respects.

The map is not for distribution outside the Department.

You will note that it is not a true map, but instead the drift outlines are generalized in straight lines.

James Hopkins

Attachment

FILE COPY
SURNAME:

400

Martin
Rutledge

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

June 30, 1953

MEMORANDUM

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

From: James Hopkins

Subject: Map showing diamond drill holes by U. S. B. M.
Crescent Mines Property, Clallam County, Washington
Docket No. DMEA-2928 - Manganese

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James Hopkins

Attachment

JHopkins:foc
6-30-53
cc: Docket
Code 400
Field Team, Reg. 2
Mr. DeHuff, Bur. Mines

Docket

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

Gal 7/2/53

June 9, 1953

WSM

Mr. George C. Selfridge, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA 2928 (Manganese)
Crescent Mines, Clallam County,
Washington

Dear Mr. Selfridge:

Enclosed are four copies of the field examination report with four attached maps on the subject mine by E. A. Magill, Mining Engineer, U. S. Bureau of Mines, and Willard P. Puffett, Geologist, U. S. Geological Survey.

The field team concurs with the recommendation of the examining team that a DMEA exploration project contract be entered into for work at the Crescent Mine to explore for manganese (hausmannite) ore containing approximately fifty percent manganese.

By DMEA Field Team, Region II

A. E. Weissenborn

A. E. Weissenborn, Exec. Officer
(U. S. Geological Survey)

M. E. Volin

M. E. Volin, Member
(U. S. Bureau of Mines)

Enclosures as indicated
Distribution:
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USBM(2)
Puffett

Cleared OC-6-19-53

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

MEMORANDUM May 25, 1953

To: DMEA Field Team, Region II

From: E. A. Magill, Mining Engineer, U. S. Bureau of Mines
Willard P. Puffett, Geologist, U. S. Geological Survey

Subject: Examination report on Docket No. DMEA 2928 (Manganese)
Crescent Mines, Clallam County, Washington

RECOMMENDATION

It is recommended that a DMEA exploration project contract be entered into for work at the Crescent Mine to explore for manganese (hausmannite) ore containing approximately fifty percent manganese. Current price for this ore under the government-buying program is about $115.00 per ton. ($2.30 per unit) Past production from the Crescent Mine has yielded more than 50,000 tons of ore containing over 50 percent manganese.

EXAMINATION

The examination was made by Harold Kirkemo and Willard Puffett, USGS, and Elvin Magill and Louis Chichester, USBM, on May 12 to 14. Messrs. Mel Lewis and K. E. Hopper, applicants, accompanied the examining team. About seven hours were spent at the property each day.

LOCATION OF PROPERTY

The property is known as the Crescent mine and is located in secs. 23 and 24, T. 30 N., R. 10 W., W.M., Clallam County, Washington. The mine is located about one-half mile by dirt road from U. S. Highway 101, some 35 miles west of Port Angeles. During previous operations the property was serviced by a standard gauge logging railroad which had a spur to the mine; however, this railroad went into bankruptcy several years ago and is not now in use.

The property may be worked all year round with little interference from the weather although the yearly rainfall is approximately 80 inches. Snowfall is negligible most years.

Reviewed by
DMEA OPERATING COMMITTEE
6-19-53
(date)

COMPETENCE OF APPLICANT

The applicant is competent to carry out the proposed work as demonstrated by the work which they have carried out at the property during the last two years.

APPLICANT'S PROPERTY RIGHTS

All work proposed is on three patented mining claims (Peggy, Fairholme and Solduck). The applicants are leasing and purchasing a quarter interest in these claims. To date copies of the lease agreement have not been furnished by the applicant. They have been requested to furnish these documents.

The applicants have also included three unpatented claims known as the Falls, Mona and Pean adjoining the patented claims. Pean claim is recorded in Volume 9, page 250; Falls claim is recorded in Volume 9, page 252; Mona claim is recorded in Volume 9, page 254, in the records of the County Recorder at the Clallam County Court House, Port Angeles, Wash.

A check of the Clallam County records indicates that the three patented claims (Peggy, Fairholme and Solduck) are owned by Rotary Mills, Inc.

DESCRIPTION OF PROPERTY

The Crescent Mine is about one mile west of Lake Crescent on the south slope of a steep-sided east-west trending ridge. The mine has been developed by 5 adits, an open pit, and four levels off a winze. The open pit is at an altitude of approximately 1850 feet, whereas the lowest level is at an altitude of 783 feet. All workings below the 1100 foot level are flooded and workings between the floor of the open pit and the 1760 foot level are caved.

A 35-foot shaft has been sunk on an ore lens approximately 300 feet northwest of the open pit. To the east of the open pit, 2 short adits have been driven and an open pit has been excavated.

On maps accompanying this report, the plan and section of underground workings and claim boundaries are outlined.

GEOLOGY

Reports concerning the geology of the manganese deposits of the Olympic Peninsula have been published in U. S. Geological Survey Bulletins 795-A and 931-R, and in the Washington State Division of Mines and Mining Reports of Investigations No. 7.

Bounding the north, east and south margins of the central portion of the Olympic Penninsula is a belt of volcanic rocks, assigned by Weaver 1/ to the Metchosin Volcanics of Eocene Age. Within this

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1/ Weaver, C. E. Tertiary stratigraphy of western Washington and northwestern Oregon: Washington Univ. (Seattle) Publ. in Geology, Vol. 4, pp 26-29, 1937

series of volcanic rocks occur thin strata of limestone in which small pods and lenses of manganese minerals have been found. For the most part these bodies of manganese minerals are composed almost entirely of manganese silicates, most notable of which are bementite and neotocite, but at the Crescent Mine commercial quantities of hausmannite, an oxide of manganese, have been mined. This deposit at the Crescent Mine is the only manganese deposit on the peninsula from which any important quantity of manganese ore has been produced.

At the Crescent Mine the strata of the volcanic series strike slightly north of west and are overturned at a steep angle to the south. On the surface a band of limestone has been mapped for a strike length exceeding 2000 feet, and over a width exceeding 200 feet. Stratigraphically lower than this band of limestone is a thick stratum of pillow basalts, whereas above the limestone are interlayered chloritic tuffs, agglomerates, and basalts. The contact between the basalt and limestone, where observed in the mine workings, is generally quite sharp, the limestone in places filling in around the edges of the pillowy structure marking the tops of the basalt stratum. The contact between the limestone and the overlying rocks is generally gradational.

The limestone is very fine-grained, relatively massive, and reddish brown to chocolate brown in color. It effervesces quite readily with dilute acid, can generally be scratched quite easily, but locally there are more argillaceous or more siliceous variants. Insofar as is presently known, deposits of manganese ore have been confined solely within the limestone horizons.

The most important ore mineral is hausmannite, with some admixed silicates and carbonates of manganese. As seen in the mine workings, the ore is generally massive and occurs in very definitely outlined lenses. Some lenses are small, averaging not more than a few inches thick or more than a few feet long. Lenses of ore that have been mined have exceeded ten feet in thickness and more than 75 feet long. In the main zone from which ore has been produced, ore has been found intermittently over a vertical distance exceeding 1100 feet. The ore is generally reddish brown to reddish black in color, but some rather large specimens were seen that were composed of blue-gray crystalline hausmannite. In some instances because of its color the ore is distinguishable from the enclosing rock only by the marked difference in specific gravity. According to the applicants, when the ore lenses exceed three feet in thickness, the manganese content is very high and the combined silica and alumina content is correspondingly low. If the ore lenses are less than three feet thick, the manganese content falls to around 40 percent and the combined silica and alumina generally exceeds the maximum of fifteen percent as allowed by the government buying agency.

Very few controls for the location of the ore have been discovered and thus there are not many guides to follow in exploring for more ore. It is known that the most important ore lenses have been found in the limestone within 100 feet from its footwall. Some of the margins of the ore lenses are marked by definite faults but as these are probably post-mineral features, no definite fault structures can be explored further

with any reasonable expectation of finding more ore lenses. Probably one of the better methods for exploration is to follow by drifting any exposed lens, even though small, to ascertain if it will widen to one of minable proportions.

On the section and plan maps accompanying this report it can be seen that the known ore lenses in the main zone are restricted to a very small horizontal area, even though the vertical extension of this zone exceeds 1100 feet. Within this zone, no lenses of manganese ore of mineable proportions have been found between 1100 feet and 1530 feet altitudes. Some prospecting has been done by crosscutting and raising in this "blank" area, and two diamond drill holes have penetrated it, but only very narrow showings of ore have resulted. There still remains a large area between the 1100 and 1530 altitude levels in which it can reasonably be anticipated that a minable ore zone may exist.

In the raise above the shaft station on the No. 5 level, the area near and on the limestone-basalt contact has been explored. Three small lenses of manganese ore are exposed at various locations in this raise. In a short crosscut at the head of the short raise to the east of the shaft station, a three-foot wide intersection of ore is exposed. According to the applicants, a sample taken across this ore showing yielded an assay result of 46.7% manganese and 12.4% silica. This particular ore showing is 80 feet above the No. 5 level. Both this ore occurrence and the various small lenses in the raise above the shaft station occur in the projected locations of the downward or upward extensions of known ore lenses. On the No. 5 level, below the short crosscut where the 36-inch width of ore is found, a small lens of manganese occurs beneath a flat fault. There is the possibility that this lens represents the downward extension of the ore in the crosscut, and has been offset by the flat fault which limits its upper extension. Although the two raises explore a local area above the lower main ore zone, it is possible that a minable ore lens exists to the east or west of these raises. This possibility can be explored by proposed holes A_1 and A_2 as shown on the accompanying maps.

A stope 79 feet long, nearly 80 feet high and averaging 8 to 15 feet wide occurs above the northern extension of level No. 4. The ore apparently terminated at the bottom of the stope on a fault dipping flatly to the southwest. Another large stope occurs beneath No. 4 level, and indications are that the ore in this stope terminated upwardly on this same flat fault. It may be that the two stopes were on what was once originally a continuous ore zone that had been offset along the fault. If this is true the main component of movement is down dip, with very little, if any, strike slip along the fault. The maximum apparent horizontal movement along the fault is slightly more than thirty feet. On the No. 4 level, beneath the upper stope, some manganese ore has been found in the sill. A short winze has followed this for five feet, and the applicants state the ore is nearly four feet wide in the bottom of the winze.

The winze was flooded at the time of the examination and thus no confirmation of the width of this ore could be obtained. According to a map supplied by M. D. Crittenden, U. S. Geological Survey, a sample 36 inches wide across this ore showing yielded an assay result of 31 percent manganese. Thus there is a possibility that this represents

a downward continuation of the ore which was stoped above, and instead of there being only one main ore lens, two parallel lenses exist. Insofar as is known, this possibility has not been completely tested. A relatively simple method to check the possibility of the existence of parallel lenses is by diamond drilling to the south from the stope above level No. 4, and by diamond drilling negatively inclined holes from Level No. 4. Possible locations of these proposed holes A7 and A8 are shown on the accompanying map.

Approximately 350 feet northwest from the open pit on top of the main ore zone, a shaft has been sunk 35 feet on an ore showing. This shaft is now flooded but according to the applicants, who sank the shaft, the ore is three to four feet wide in the shaft bottom. Eight tons of ore taken from the shaft were shipped to the government buying station at Deming, New Mexico. This ore averaged 44.7 percent manganese and 16.7 percent combined alumina and silica. The location of this shaft is near the upper contact of the main limestone band. This in itself is interesting for it attests to the fact that fair manganese ore has been found far removed from the lower contact of the limestone band. The topography is favorable for trenching between the open pit and this short shaft and it is believed that exploration by trenching between the two locations can be justified to check as to whether there is a continuous band of manganese ore crossing the limestone band at a low angle, or whether there may exist a number of lenses arranged in a somewhat en echelon pattern across the limestone stratum. Diamond drilling seems justified to check for lower extensions of the ore below the shaft and other ore that may be found by trenching.

The applicants have excavated an 85-foot deep open pit on the Peggy Claim, approximately 150 feet slightly north of east of the main open pit. Presumably they were exploring for the offset segment of an ore lens which was exposed near the surface. According to Pardee's report in U. S. G. S. Bulletin No. 795-A, that which was considered to be the offset segment of this lens was picked up by diamond drill some 60 feet below the upper lens. No additional ore has been found by the applicants in the pit. Exploration by diamond drilling from the floor of the pit appears justifiable to explore further for the offset segment of this ore lens and the possibility exists of course that other lenses of minable grade and size may be found by such drilling. Inasmuch as there is no specific geologic guide to follow, it is believed the holes can be spaced quite close together and extend completely through the limestone band. Exploration here is somewhat in the nature of wild-catting but nonetheless, ore occurred near the surface, and there is no reason to believe that ore will not exist at a lower elevation similar to that in the main workings of the Crescent Mine.

Although the presently known ore lenses are of modest tonnage, the manganese content of the ore is sufficient to command a premium price under the current government buying program. Thus considerable more prospect of the manganese-containing-limestone band at the Crescent Mine by trenching and diamond drilling appears justified in view of the high manganese content of the ore that will be obtained if the exploration is successful in finding a minable ore body.

PAST OPERATION

The Crescent deposit was discovered in September 1923 and development work was begun a few months later by Jamison and Peacock of Duluth, Minn.

Production from the property under various operators has been as follows:

Year	Tonnage	Percent Mn	Percent SiO_2	Operator
1924	5,000	52.88	8.80	Jamison and Peacock
1925	8,113	51.64		" "
1926	3,162	50.[illegible]		" "
1941	1,588	49.34		Sunshine Mining Company
1942	10,660	52.12		" " "
1943	7,731	50.05		" " "
1944	5,199	51.79	9.50	" " "
1945	6,994	51.71	9.52	" " "
1946	1,424	47.6		" " "
1952	268	45.7		Lewis and Hopper
1953*	468	47.5		" "

* Through April 1953

This gives a total production of 50,607 tons which averaged over 50 percent manganese. Under present prices it would have a gross value of nearly $6,000,000.

MANPOWER AND SUPPLIES

Manpower and supplies to carry out the work are available in the area. Wage scales in the area are high, the principal industry being logging; in this industry the average wage scale is $2.50 per hour.

Power is furnished by gasoline or diesel power units.

APPLICANT'S PROPOSAL

The applicant proposes to explore for new lenses of hausmanite ore by:

1. 3000 feet of diamond drilling off the No. 5 level to prospect for ore bodies above the level.

2. 800 feet of diamond drilling on the Peggy claim in an attempt to relocate the ore body previously drilled by Jamieson and Peacock in about 1926.

3. 600 feet of diamond drilling on the outcrop which lies on the Fairholme claim northwest from the glory hole.

4. 200 hours of bulldozer trenching on three separate outcrops on the Peggy and Fairholme claims.

The examining team believes that this proposal is essentially sound after an examination of the property and discussion with the Operator. However, instead of doing all the underground drilling from the No. 5 level it is deemed more practical to divide the drilling between the No. 5 level, No. 1 crosscut (St. Johns) and the No. 4 level.

There remain a number of areas within the ore producing zone of the limestone bed which have not been prospected. It is proposed to test these areas by diamond drilling (see map attached).

OPERATOR'S PROPERTY RIGHTS

All production from the six claims involved in the exploration program are to be subject to royalty payments.

EXPLORATION PROJECT

It is expected that work would be started on an exploration project within 30 days and completed within one year.

PROPOSED PROJECT

<u>Underground drilling</u>

1. No. 5 level, diamond drill two 200-ft. holes as shown on attached map. Holes A_1 and A_2.

2. No. 1 crosscut (St. Johns), diamond drill 4 holes, total footage 850 feet (see map). Holes A_3, A_4, A_5 and A_6.

Underground drilling (Continued)

3. No. 4 level, diamond drill one 250-ft. Hole A_7.

4. Stope above #4 level. One hole 120 feet. Hole A_8.

5. 1380 feet of diamond drilling to be used if preliminary holes find ore and with the prior approval of the Field Team. Total underground drilling 3,000 feet.

Surface drilling

6. Peggy claim, 800 feet of drilling in minimum of 3 holes to find downward extension of Peggy outcrop.

7. Fairholme claim, 600 feet of drilling in minimum of 3 holes to determine downward extension of outcrop.

Trenching

8. A series of trenches at about 100-ft. intervals (see map) to prospect area between glory hole and exposure on Fairholme claim and about 400 feet to west of exposure.

COSTS OF PROJECT

(a) Independent contracts - none

(b) Labor, supervision and consultants
All labor and supervision included in unit costs.
Consultants $ 500.00

(c) Operating materials and supplies
Included in unit costs.

(d) Operating equipment
Included in unit costs.

(e) Rehabilitation and repairs
Repair of building for living quarters 500.00

(f) Improvements
None.

(g) Miscellaneous
None.

(h) Contingency 2,000.00

Summary

Unit cost in lieu of actual costs.**
Diamond drill 4400 feet @ $7.50/ft. 33,000.00

Trenching with D7 or equivalent, 200 hrs. @ $20/hr.* 4,000.00

Actual Costs
Consultant 500.00
Contingencies 2,000.00
Rehabilitation and repairs 500.00

Total $40,000.00

* Includes supervision, supplies and labor necessary to expose bedrock and move machine on and off job. Rental on the bulldozer with operator is $15.00 per hour.

** Unit Costs is proposed on these items because the applicants will be carrying on concurrent mining operations.

DISCUSSION OF PROPOSED APPLICATION

Underground exploration under the proposed program is to explore for manganese ore in a zone in which ore has been found over a great vertical distance but in which a large heretofore unproductive area exists. The major part of the underground work will be to test this "blank" area for possible ore lenses. Some drilling will be done also to test for possible parallel ore lenses in an area where faults have apparently offset the main ore body. As the known ore lenses are somewhat restricted in outline, it is necessary to plan the drilling so that not more than 100 feet vertically or horizontally will separate the drill hole intersections in the favorable zones. Thus the holes as shown on the accompanying maps are quite concentrated in what is believed to be a favorable area for the location of an ore body. If any one hole should be successful in intersecting ore of promising character, additional drilling will be necessary to satisfactorily delineate the lens to ascertain if it is of sufficient size and grade to be mineable. Thus only slightly more than one-half of the proposed drilling is specifically outlined on the maps. It is believed that if the outlined underground program is completed it will establish quite definitely whether or not a minable ore body exists in that part of the main zone which to date has not been productive.

It should be pointed out that, if closely supervised by men who have had much experience with these particular type of deposits and who possessed a good understanding of geologic structures, the same general underground target areas could be explored by short drifts and crosscuts from existing underground workings. If this type of exploration were approved though, it is possible that much lost work would be accomplished by drifting "blindly" when the workings entered barren ground. The great amount of unproductive work that has been done previously on the No. 5 level attests to this fact.

A feature in favor of the underground exploration is that if any ore body is discovered, little additional mine development will be necessary before actual mining of the ore can be started.

The surface trenching and drilling will more fully explore other favorable showings and if successful will extend the known productive portions of the limestone band considerably. Specific locations of the diamond drilling cannot be designated until more study can be made of prospective drill locations. These studies can take place during routine visits to the property to examine progress of the underground drilling and trenching.

Inasmuch as the ore that has been produced at the Crescent Mine is of such high manganese content, it is believed that the property merits further exploration as herein outlined.

Enclosures - 4
Distribution:
DMEA (4)
USBM (5)✓
Docket
USGS (SRO)
Puffett

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

April 24, 1953

Mr. George Selfridge, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

Re: Docket No. DMEA-2928 (Manganese)
Lewis and Hopper
Crescent Mine
Clallam County, Washington

Dear Mr. Selfridge:

This will acknowledge your letter of April 2 regarding the Crescent mine together with memoranda from DeHuff, Bureau of Mines, and Crittenden, U. S. Geological Survey. We are very glad to have the information and suggestions in the two memoranda.

A field examination has been scheduled for early May. It is essential that a very careful examination be made and a thorough compilation is made of information on the extensive exploration work that has been done on the property so as to be certain, insofar as we are able, that the proposed exploration will not duplicate work already done. The report will be forthcoming as soon as possible after the examination.

Sincerely yours

Harold Kirkemo

for A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

cc: USBM (2)
Puffett

Copy retained

400

FILE COPY
SURNAME:

Rutledge
Martin
Selfridge
H. Johnson

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS ADMINISTRATION
WASHINGTON 25, D. C.

APR 2 1953

Mr. K. E. Hopper
Crescent Mines
17321 - 33rd South
Seattle 88, Washington

Re: Docket No. DMEA 2928 - Manganese
Crescent Mines
(Mel Lewis and K. E. Hopper)
Crescent Group and Crescent Mines Group
Challum County, Washington

J.C. 4/1/53

Dear Mr. Hopper:

This will acknowledge receipt of your application for assistance in exploring manganese occurrences on the Crescent Group of Claims. After a review by the Iron and Ferro-Alloys Division of the Defense Minerals Exploration Administration, the subject application has been referred to Mr. A. E. Weissenborn, Executive Officer, DMEA Field Team, Region II, South 157 Howard Street, Spokane 4, Washington, for a field examination.

The Regional Office will contact you at an early date with regard to an examination of your property. Any assistance that you can render the members of the field team during the examination will be appreciated.

Sincerely yours,

C. O. Mittendorf (fw)

Administrator

cc: Docket
Field Team, Region 2
Code 400
Admn. Read. File
N. B. Melcher, USBM
M. D. Crittenden, USGS

FARutledge/hhb
3/31/53

400 FILE COPY
SURNAME:

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

Rutledge
Martin
Selfridge
Hedges

April 2, 1953 (?)

Air Mail

Mr. A. E. Weissenborn, Executive Officer
DMEA Field Team, Region II
South 157 Howard Street
Spokane 4, Washington

J.C. 4/1/53

Re: Docket No. DMEA 2928 - Manganese
Crescent Mines
(Mel Lewis and K. E. Hopper)
Crescent Group and Crescent Mines Group
Challum County, Washington

Dear Mr. Weissenborn:

This will acknowledge receipt of the subject docket and your letter of March 10, 1953, in which you state that a field examination has been tentatively scheduled. We will, therefore, hold this application in abeyance until the report and recommendations by the field team are received.

A memorandum dated March 24, 1953, by M. D. Crittenden, Jr., U. S. Geological Survey, has been prepared and is enclosed for your information.

Sincerely yours,

Source C. Selfridge (HB)

Chairman, Operating Committee

Enclosures

Approved:

J. H. Hedges (HB)

Member, Bureau of Mines

A. R. Kinkel, Jr. (HB)

Member, Geological Survey

cc: Docket
Field Team, Region 2
Operating Committee
Admn. Read. File
Code 400
N. B. Melcher, USBM
M. D. Crittenden, USGS

FARutledge/hhb
3/31/53

P. S. - A memorandum of March 30, 1953, by Gilbert L. DeHuff, Jr., U. S. Bureau of Mines, is also enclosed.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 30 1953

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

March 30, 1953

Memorandum

To: Mr. W. S. Martin, Acting Chief, Iron & Ferro-Alloy Branch, DMEA

From: Gilbert L. DeHuff, Jr., Commodity Specialist

Subject: DMEA-2928 - Manganese, Crescent Mines, Clallum County, Washington

Application is made for aid to explore the Crescent Mine, located in the Olympic Peninsula, by means of 4400 feet of diamond drilling and 200 hours of "dozer work." Total cost is estimated by the applicant to be $45,802.50.

The Crescent ore consists essentially of hausmannite, occurring as widely spaced tabular lenses associated with shearing in red limestone close to its contact with basalt. Dip of the ore is steep.

The discovery ore body, found in 1923, was mined out in 1924-26 during which time mine shipments amounted to 18,228 short tons, averaging more than 50% Mn. This included a small amount mined at that time from a lens extending a short distance above and below No.4 level. The discovery lens was 6 to 14 feet thick, 120 feet long, and 180 feet deep. According to Pardee (U. S. G. S. Bulletin 795), as quoted by Park (U. S. G. S. Bulletin 931-R), "it pitched steeply westward and was cut off at the bottom by a fault." Development of the mine has been by adits.

In 1939-40, the Bureau of Mines drilled 14 diamond drill holes totalling 4013 feet. This work developed an orebody below the bottom (No. 5) Level, approximately 500 feet below the nearest other known ore, that of the No. 4 Level. The Sunshine Mining Company secured a lease in 1941 and by the time mining stopped in 1946 had shipped from this lens 33,596 short tons, according to the Bureau's Yearbooks. Shipments in 1944-45 averaged 51.7% Mn, 1.7% Fe, 9.5% SiO_2 and 0.055% P, which is in line with earlier analyses for both this and the discovery lens. A Bureau of Mines engineer stated that a large part of the silica content of Sunshine's shipments was due to dilution by wall rock "that is not easy to keep out." State of Washington, Division of Mines and Mining, Report of Investigations No. 7, described this lens as 6 to 28 feet thick, with a lateral length of 50-60 feet, a proven depth of 180 feet, and nearly vertical. The report, published in 1945, continues, "Recent drilling operations by the company have discovered another, still deeper, lens, which is reported to be as large as the one now being mined. This is of

particular interest, as it not only shows that in this property ore extends to approximately 1150 feet below the surface exposure, but indicates what may be expected at depth in other places where manganese lenses occur." No other reference to a new, deeper, lens, or to Sunshine drilling, has been found, and it is probable that this was mined out in 1945-46. The workings below No. 5 Level are now flooded.

Applicant has recently shipped about 400 tons, possibly more, to General Services Administration, some of which was too high in silica plus alumina to be acceptable. This ore was probably obtained from clean-up operations at the No. 4 Level and from prospecting on surface.

Applicant believes that the Bureau's drilling above and at the No. 5 Level did not fully explore the possibilities for ore, and proposes further drilling here. Considering the nature of the ore occurrences at this property, and the large amount of untested ground involved here, their proposal could have some merit.

Applicant also proposes 800 feet of drilling on the Peggy claim. Pardee stated that the Peggy ore outcrop pinched out at a depth of 15 feet, but a drill hole cut ore at 60 feet. Some ore shows in the Peggy tunnel, but there is nothing to show its location with respect to either drill hole or outcrop. The Bureau drilled one hole to cut under the Peggy tunnel at the No. 5 Level. This obtained no ore, but there is a 600 foot vertical interval between the two levels.

Applicant proposes three holes under an outcrop of ore 400 feet northwest of the Glory Hole of the Fairholm claim. This appears to be the same outcrop under which the Bureau drilled three holes at the No. 5 Level without cutting any ore. Again must be noted the large vertical interval between ore showing and drill holes.

Applicant further proposes "dozer" trenching of three separate outcrops.

Although applicant has not presented any maps or other detailed information, the application appears to be a bona fide one and suggests that applicant knows something about manganese ore mining and has an intelligent approach.

It is noted that a Field Team will consider this application and will make an examination of the property. This is obviously necessary in order to properly evaluate the proposed program. Ore occurs in widely spaced lenses, a situation which makes exploration difficult and costly. However, any ore to be found will be direct shipping ore of good quality. The decisions as to whether this property deserves exploration aid, and to what extent, are dependent upon whether the quantity of ore likely to

be found can be sufficient to exceed in worth the cost of finding it. Any exploration program to be undertaken here must be carefully conceived and executed.

Gilbert L. DeHuff Jr.

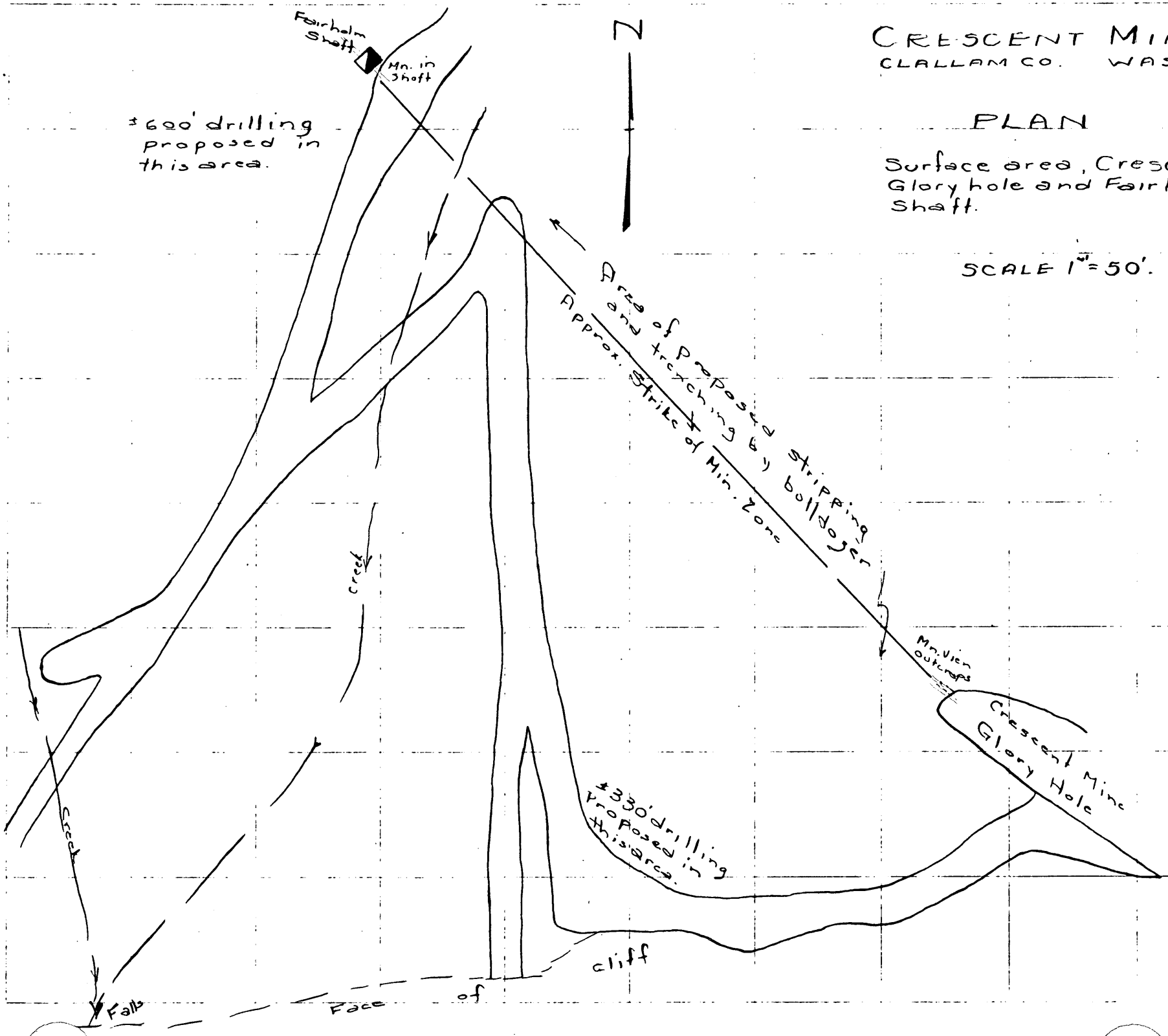
Gilbert DeHuff

CRESCENT MINE
CLALLAM CO. WASH.

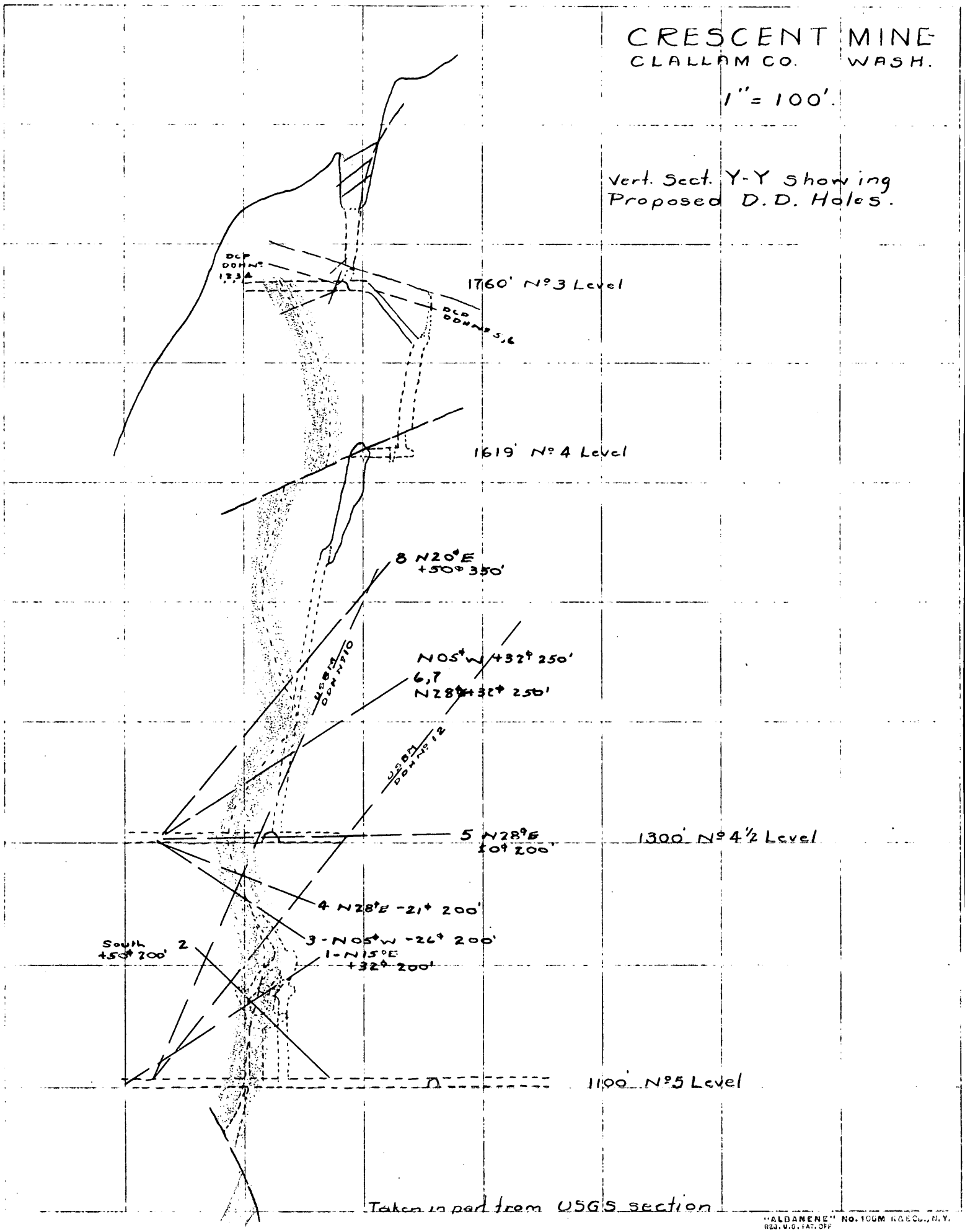
PLAN

Surface area, Crescent Glory hole and Fairholm Shaft.

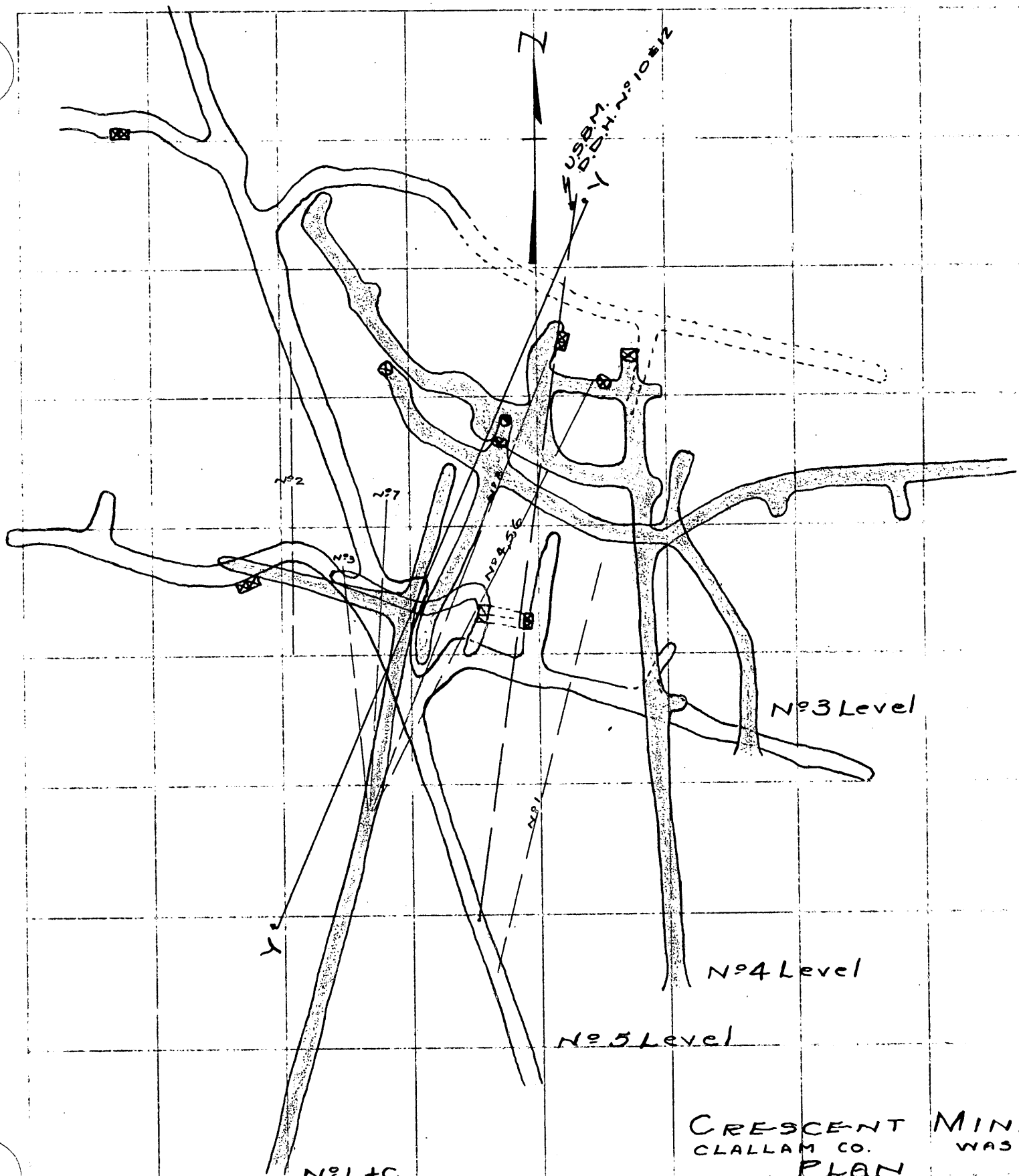
SCALE 1" = 50'.



"ALDARENE" No. 1003 TRACO, N.Y. REG. U.S. PAT. OFF.



"ALBANENE" No. 100M K&E CO., N.Y.
REG. U.S. PAT. OFF.



CRESCENT MINE
CLALLAM CO. WASH.
PLAN
Showing Proposed
Drill Holes
SCALE 1" = 50'.

"ALBANENE" No. 195M

IN REPLY REFER TO:

G-MD-CF

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

March 24, 1953

Memorandum

To: W. S. Martin

WSM

From: M. D. Crittenden, Jr.

Subject: DMEA-2928, Manganese
Crescent Mines
Star Route 1, Box 22A
Port Angeles, Washington

The applicants are purchasers and lesses of the Crescent group of claims (Peggy, Fairholme, Sol Duc) and the Crescent mines group (Falls, Mona, Pean), all surrounding the Crescent mine, Clallum County, Washington. They propose to explore certain of these claims for high-grade hausmannite ore as follows:

"(1) We propose to put in 3000 ft. of drill holes off No. 5 level on three definite leads of hausmannite into heretofore unprospected portions of ore-bearing lime beds.

It is our opinion that the positive angle diamond drill holes by the Bureau of Mines from No. 5 Level missed the possible downward continuation of the main ore zone in which we are now mining on the No. 4 Level. This opinion is based on the fact that the maps of the old workings are incorrect and they do not project the true dip and pitch of the ore zone in relation to the ore in No. 5 Level. We believe that possibly the ore zone exposed on and below No. 4 Level continues downward in the area to the west of that explored by previous diamond drill holes. There are also several structures exposed on and above the No. 5 Level which have an appearance similar to the edges of the lenses which have been found previously. It is proposed that these showings be explored by drilling.

"(2) We propose 800 ft. of drilling on the Peggy Claim to relocate the ore body which was previously drilled by Jamieson and Peacock, as referred to in the State of Washington Department of Conservation and Development Bulletin No. 7, Page 31, Article 20.

Copy retained MDC

"(3) We propose three 200 ft. drill holes, totalling 600 ft., on an outcropping which lies 400 ft. N.W. of the Glory Hole on the Fairholm Claim, on which we have sunk a short shaft that seems to be on the southeast end of the exposure. This outcropping lies in a wide lime bed and shows good possibilities. The 12 ton of ore that was mined as we sunk this shaft was predominately hausmannite.

"(4) We propose 200 hours of dozer work trenching on three separate outcroppings, which are strategically located in the large lime beds in these two groups of claims."

The above information is inadequate to support the proposed program. Inasmuch as it is based on geologic interpretation of ore projections, etc., it cannot be evaluated without being supported by maps and sections.

Inasmuch as Weissenborn has scheduled a field examination to obtain such data, I have sent all the available information to him, and suggest we await their report before attempting further evaluation.

M. D. Crittenden, Jr.

M. D. Crittenden, Jr.

March 19, 1953

Mr. Mel Lewis
Crescent Mines
17321 - 33rd South
Seattle 88, Washington

Subject: DMEA-2928
Re: Exploration Assistance
The Peggy Claim, etc.

My dear Mr. Lewis:

The receipt of your application dated February 28, 1953 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-2928 and referred to the Iron and Ferro-Alloys Division.

Kindly refer to DMEA-2928 in any future correspondence relating to your application.

Sincerely yours,

ROBERT E. ADAMS
Robert E. Adams
Chief, Operations Control
and Statistics Division

March 17, 1953

Mr. Mel Lewis
Crescent Mines
Star Route #1, Box 22A
Port Angeles, Washington

Subject: DMEA-2928
Re: Exploration Assistance
The Peggy Claim, etc.

My dear Mr. Lewis:

The receipt of your application dated February 28, 1953 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-2928 and referred to the Iron and Ferro-Alloys Division.

Kindly refer to DMEA-2928 in any future correspondence relating to your application.

Sincerely yours,

ROBERT E. ADAMS

Robert E. Adams
Chief, Operations Control
and Statistics Division

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

March 17, 1953

Memorandum

To: Executive Officer, DMEA Field Team, Region II

From: Chief, Operation's Control and Statistics Division

Subject: Assignment of Docket Number

There is listed below the assigned docket number to an application recently received from Region II.

DMEA- 2928 Crescent Mines

ROBERT E. ADAMS

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

33980

dmea 2928

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.
So. 157 Howard Street
Spokane 4, Washington

March 10, 1953

Mr. George Selfridge, Chairman
Operating Committee, DMEA
Department of the Interior
Washington 25, D. C.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 16 1953

Dear Mr. Selfridge:

Attached are the original and two copies of an application submitted by the Crescent Mines for the exploration of a manganese property on the Olympic Peninsula. Considerable information on the Crescent property is available in the files of both the Bureau of Mines and the Geological Survey. However, consideration of this application can well require a consultation with the Operators and a field examination to find out more precisely where the proposed work is to be done and to determine what recent work has been done on the property. Such an examination will be arranged for in the near future.

Sincerely yours

A. E. Weissenborn

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region II

Enclosure 1 (in trip.)
cc: USBM (2)
Kirkemo
Puffett

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED
MAR 7 1953
U. S. G. S.
SPOKANE, WASH.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 16 1953

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

Not to be filled in by applicant

Docket No. dmea 21928
Metal or Mineral
Date Received 3-16-53
Estimated Cost
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: Crescent Mines, Star Rt. #1, Box 22A, Port Angeles, Wash.
Address all correspondence to Crescent Mines,
Partnership of Mel Lewis, 17321 - 33rd So., Seattle 88, Wn.
404 - 3rd So., Kent, Wn., & K. E. Hopper, 17321 33rd Sol., Seattle 88, Wn.

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

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

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

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

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract

(*b*) State any mine name by which the property is known.

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise

(*d*) If you are not the owner, submit with this application a copy of the lease, contract, or other document under which you control the property.

(*e*) If you own the land, describe any liens or encumbrances on it

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice.

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

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

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

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

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

5. *The exploration project.*—(*a*) [illegible]te the mineral or minerals for which you wi[illegible] explore .....

.....

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

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

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

6. *Estimate of costs.*—Furnish a detailed estimate of the costs of the proposed work (you will have to use a separate sheet), under the following headings. Add the totals under all headings to give the estimated total cost of the project:

(*a*) *Independent contracts.*—(Note.—If the applicant does not intend to let any of the work to contractors, write "none" after this item. To the extent that the work is to be contracted, do not repeat the cost of the contract-work in subsequent items.) State the cost of any proposed independent contracts for the performance of all or any part of the work, expressed in terms of units of work (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved, etc.).

(*b*) *Labor, supervision, consultants.*—Include an itemized schedule of numbers, classes and rates of wages, salaries or fees for necessary labor, supervision and engineering and geological consultants.

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel.

(*d*) *Operating equipment.*—Furnish an itemized list of any operating equipment to be rented, purchased, or which is owned and will be furnished by the Operator, with the estimated rental, purchase price, or suggested use-allowance based on present value, as the case may be.

(*e*) *Rehabilitation and repairs.*—Furnish a detailed list showing the cost of any necessary initial rehabilitation or repairs of existing buildings, installations, fixtures, and movable operating equipment, now owned by the Operator and which will be devoted to the exploration project.

(*f*) *New buildings, improvements, installations.*—Furnish a detailed list showing the cost of any necessary buildings, fixed improvements, or installations to be purchased, installed or constructed for the benefit of the exploration project.

(*g*) *Miscellaneous.*—Furnish a detailed list showing the cost of repairs to and maintenance of operating equipment (not including initial rehabilitation or repairs of the Operator's equipment), analytical work, accounting, workmen's compensation and employers' liability insurance, and payroll taxes.

(*h*) *Contingencies.*—Give an estimate of any necessary allowances for contingencies not included in the costs stated above.

NOTE.—No items of general overhead, corporate management, interest, taxes (other than payroll and sales taxes), or any other indirect costs, or work performed or costs incurred before the date of the contract, should be included in the estimate of costs.

7. (*a*) Are you prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation (Sec. 7, DMEA No. 1)?

(*b*) How do you propose to furnish your share of the costs?

☐ Money ☐ Use of equipment owned by you ☐ Other

Explain in detail on acompanying paper.

CERTIFICATION

The undersigned, whether as an individual, corporate officer, partner, or otherwise, both in his own behalf and acting for the applicant, certifies that the information set forth in this form and accompanying papers is correct and complete, to the best of his knowledge and belief.

Dated Feb. 28, 1953, 195...

Crescent Mines
(Applicant)

By Joel Ferris partner

R. C. Hopper

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

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

CRESCENT MINES

Star Rt. #1, Box 22A
Port Angeles, Wn.

1. Name of applicant - Crescent Mines, Star Rt. #1, Box 22A, Pt. Angeles, Wn.
(d) Partnership of Mel Lewis, 404 - 3rd So., Kent, Wash.
K. E. Hopper, 17321 - 33rd So., Seattle 88, Wn.
Address all correspondence to Crescent Mines, 17321 - 33rd So., Seattle 88, Wn.

3. Applicant's property rights -
(a) Crescent group consisting of three (3) patented claims: The Peggy; The Fairholm; and Sol Duc located in Township 30 N., Range 10 W.W.M., Section 23 and 24 of Clallum County, Washington. Crescent Mines Group consisting of three (3) claims known as the Falls, Mona and Pean located in Township 30 N., Range 10 W.W.M., Sections 23 and 24 of Clallum County, Washington, immediately adjacent to the Crescent Group.

(c) We are purchasing lease and 1/4 interest in Crescent Group under production contract, and are claim holders of the Crescent Mines Group.

(d) Additional copies of our contracts and leases are being drawn. We will forward them immediately.

(e) None.

(f) Pean Claim recorded in Volume 9, Page 250
Falls Claim recorded in Volume 9, Page 252.
Mona Claim recorded in Volume 9, Page 254
Clallum County Court House,
Port Angeles, Washington.

4. Physical description -
(a) Refer to Bureau of Mines records in Spokane, Washington, as to past operation and workings on the Crescent Group. We are now mining in Level No. 4 of the old workings. All the upper workings of the mine are open, but the workings below No. 5 Level are flooded.

(b) Past production approximately 50,000 tons hausmanite ore running about 50 to 53% Manganese, with SiO_2 and Al_2O_3 combined about 12%. Present production 600 tons of 47 to 50% MnO_2, and silica plus alumina 14 to 15%.
Reserve, 750 to 1000 tons of this same grade ore.

(c) Refer to U. S. Geological Survey Bulletin #931R, and State of Washington Dept. of Conservation & Development Bulletin No. 7 by Stephen W. Green.
Our reason for wanting to explore is to locate additional commercial lenses of hausmanite.

(d) The property is all accessible by good roads. Shipping, supply and residence point is Port Angeles, Washington, which is 35 miles from the mine.

4. (c) Manpower, materials, supplies, equipment and water are readily available, and power lines are now being constructed to within 1/2 mile of the mine. Power is presently supplied by gasoline and diesel units.

5. The exploration project -
(a) We wish to explore for high-grade Manganese ore of the hausmanite type.

(b) 1. We propose to put in 3000 ft. of drill holes off No. 5 Level on three definite leads of hausmanite into heretofore unprospected portions of ore-bearing lime beds.

It is our opinion that the positive angle diamond drill holes by the Bureau of Mines from No. 5 Level missed the possible downward continuation of the main ore zone in which we are now mining on the No. 4 Level. This opinion is based on the fact that the maps of the old workings are incorrect and they do not project the true dip and pitch of the ore zone in relation to the ore in No. 5 level. We believe that possibly the ore zone exposed on and below No. 4 Level continues downward in the area to the west of that explored by previous diamond drill holes. There are also several structures exposed on and above the No. 5 Level which have an appearance similar to the edges of the lenses which have been found previously. It is proposed that these showings be explored by drilling.

2. We propose 800 ft. of drilling on the Peggy Claim to re-locate the ore body which was previously drilled by Jamieson & Peacock as referred to in the State of Washington Department of Conservation & Development Bulletin No. 7, Page 31, Article 20.

3. We propose three 200 ft. drill holes, totalling 600 ft., on an outcropping which lies 400 ft. N.W. of the Glory Hole on the Fairholm Claim, on which we have sunk a short shaft that seems to be on the southeast end of the exposure. This outcropping lies in a wide lime bed and shows good possibilities. The 12 ton of ore that was mined as we sunk this shaft was predominately hausmanite.

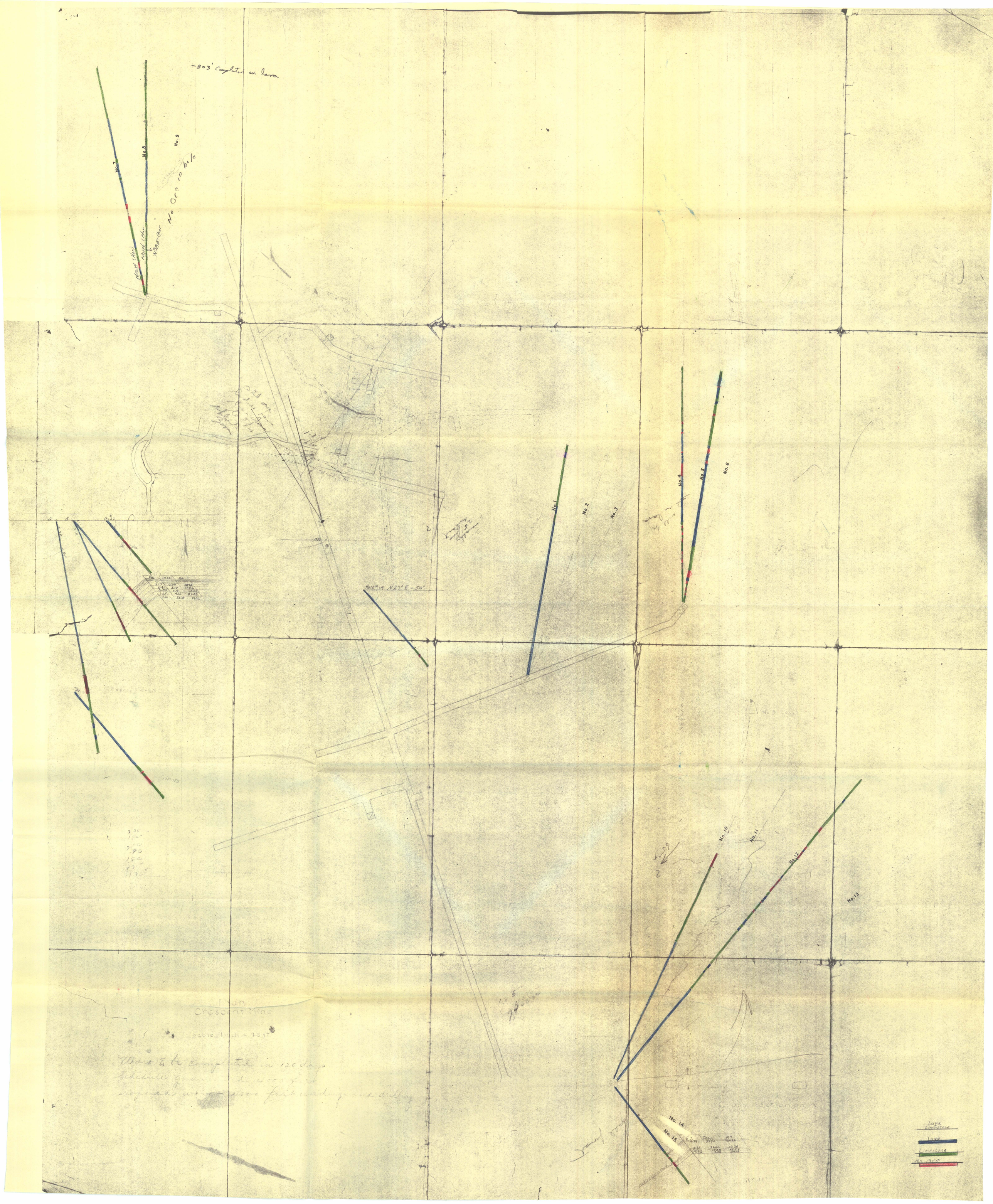
4. We propose 200 hours of dozer work trenching on three separate outcroppings, which are strategically located in the large lime beds in these two groups of claims.

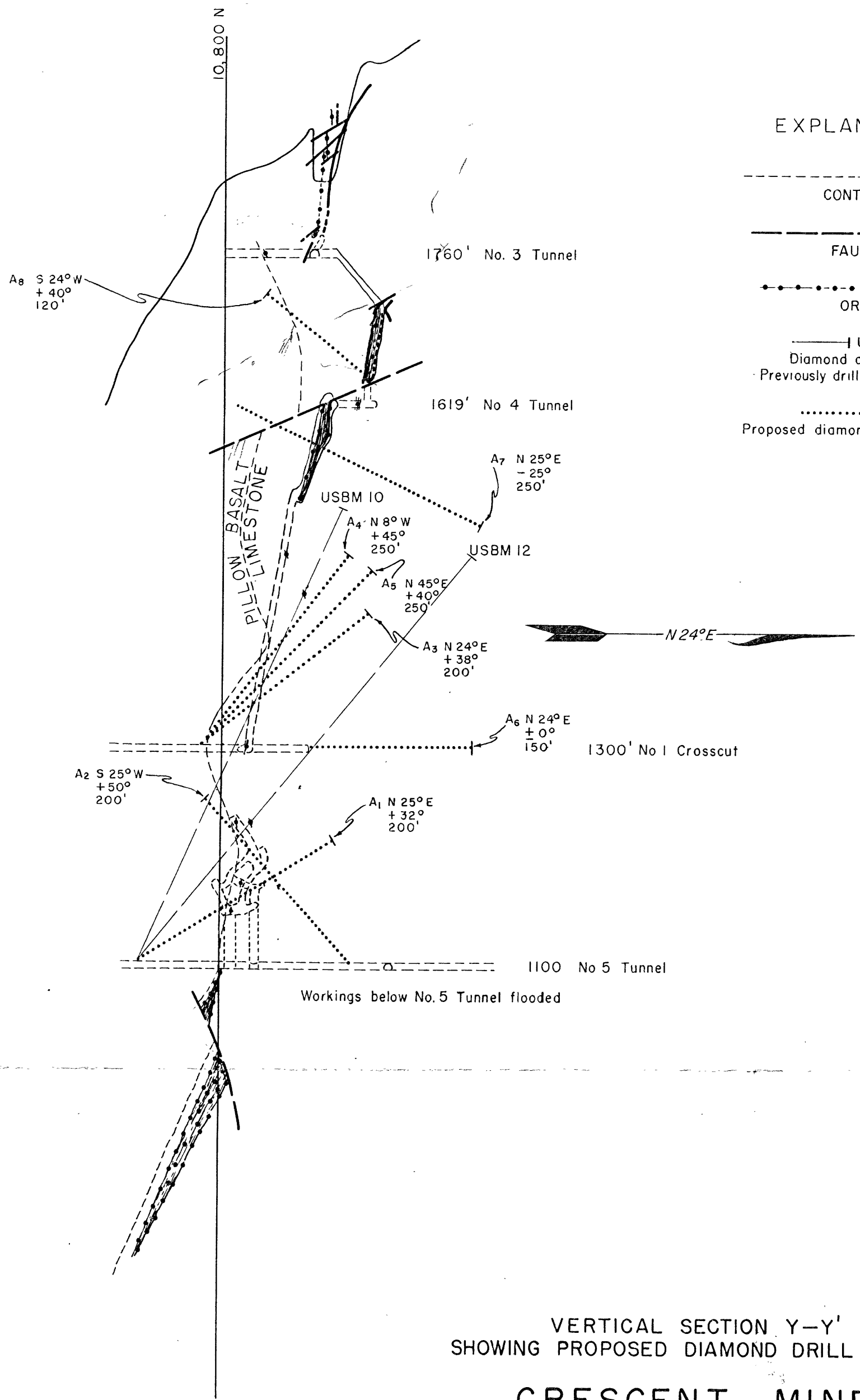
(c) Work to start within 30 days, and be completed within 9 months.

(d) We have been actively engaged in the development and mining of manganese on several properties in the immediate vicinity for the past two years, and we have qualified geologists and engineers to carry out this exploration project.

6. Estimate of costs -

(a)	Independent contracts	
	4400 ft. Diamond drilling - @ $7.00 ft.	$ 30,800.00
	200 hours Bulldozing - @ $15.00 hour	3,000.00
(b)	Labor, supervision and consultants -	
	9 months supervisor $500/ month, part time $250.	2,250.00
	9 months bookkeeper part time $125.00	1,125.00
	200 hours labor @ $2.50 per hour	500.00
	Consulting Engineer or Geologist	500.00
(c)	Included under other items.	
(d)	Operating Equipment -	
	To be rented	
	315 ft. Air Compressor 6 months @ $500.00	3,000.00
	To be purchased -	
	None	
	Furnished by Operator	
	Truck 4-wheel drive 9 months @ $14.00	126.00
(e)	Rehabilitation & Repairs -	
	Repair camp building for living quarters, including labor and material	1,500.00
	Install air line for diamond drill No. 5 Level - 1000 ft. @ $.60 ft.	600.00
(f)	New buildings -	
	None	
(g)	Miscellaneous -	
	Construction of roads or trails to drill sites and cutting diamond drill stations underground	1,500.00
(h)	10% Contingency	4,177.50
	Total	$ 45,802.50


-303' Completed in lava
No. 7
No. 8
No. 9
No 7 (Hor)
No 8 (Hor)
No 8 E (Hor)
No Ore in hole
No. 1
No. 2
No. 3
No. 4
No. 5
No. 6
Hole No 19 N 27° E - 50°
No. 10
No. 11
No. 12
No. 13
No. 14
No. 15
Cross section A-A
Lava
Limestone
Mn. Ore
Crescent Mine
Work to be completed in 120 days



EXPLANATION

CONTACT

FAULT

ORE

USBM 12
Diamond drill hole
Previously drilled by USBM

A1
Proposed diamond drill hole

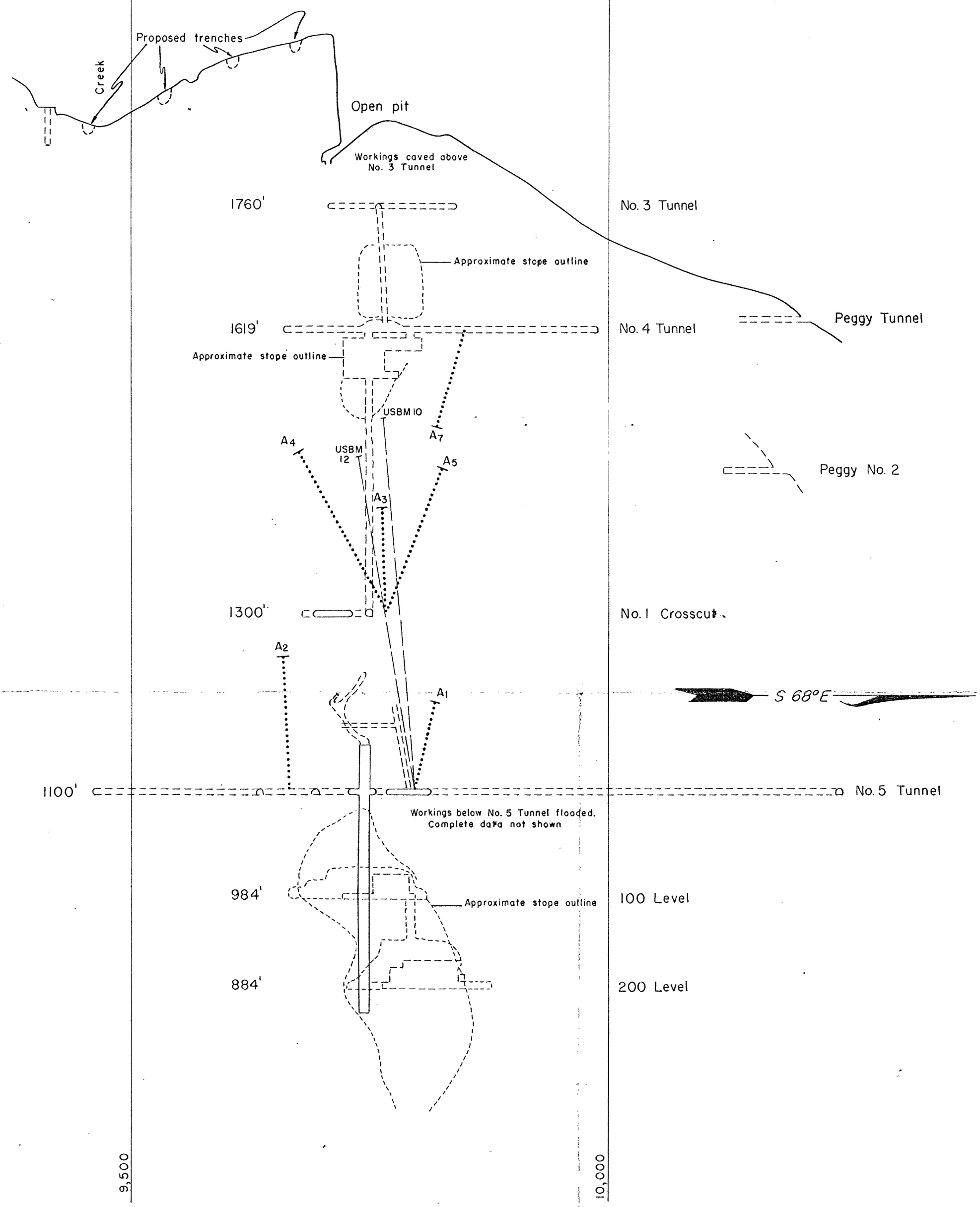
VERTICAL SECTION Y–Y'
SHOWING PROPOSED DIAMOND DRILL HOLES

CRESCENT MINE No. 2

CLALLAM COUNTY, WASHINGTON

0 100 200 300 400 500 FEET

Modified from section prepared by
M. D. Crittenden, USGS



VERTICAL SECTION D–D
SHOWING PROPOSED EXPLORATION

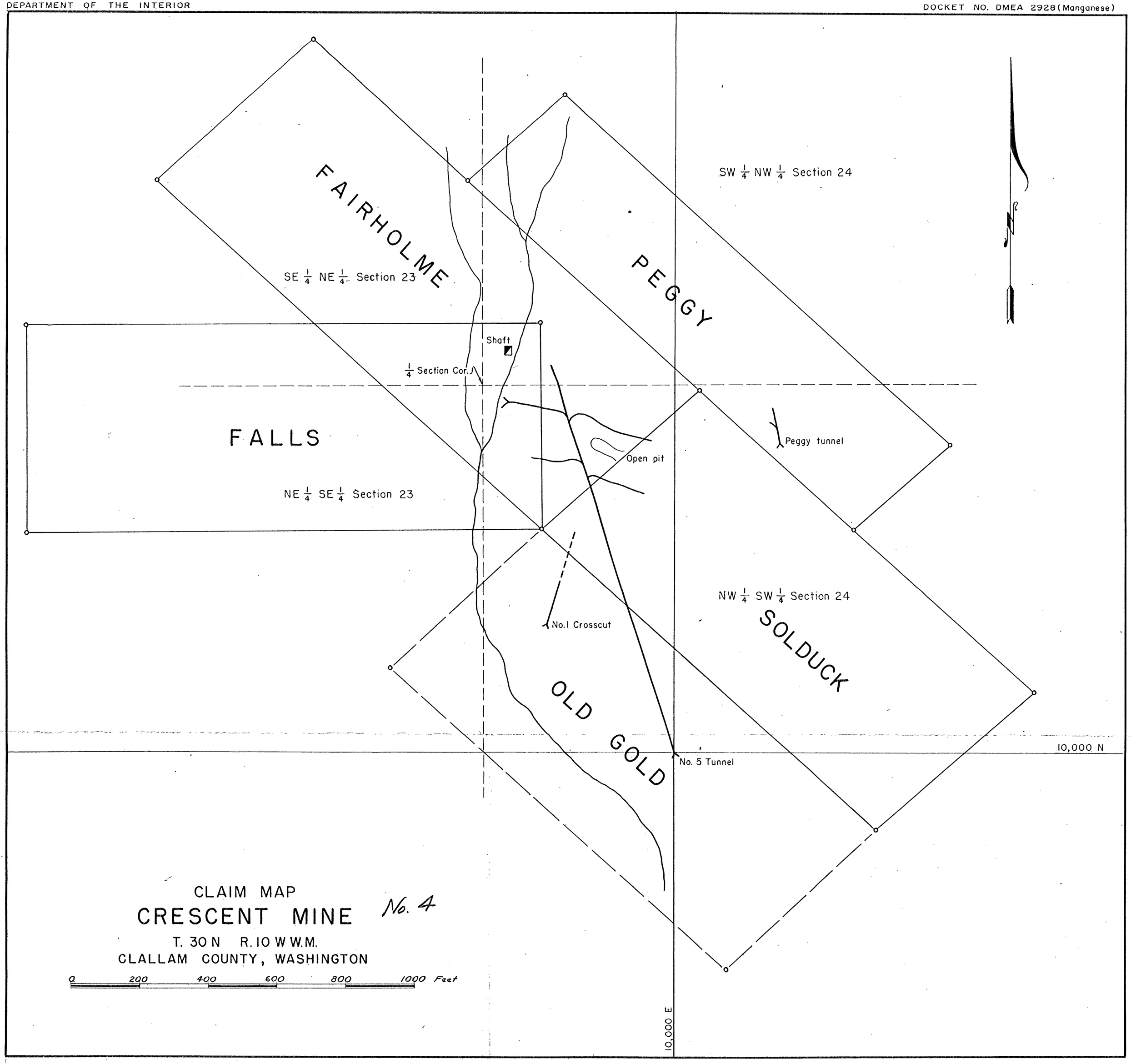
CRESCENT MINE

No. 3

CLALLAM COUNTY, WASHINGTON

0 100 200 300 400 500 FEET

Modified from section prepared by Sunshine Mining Company



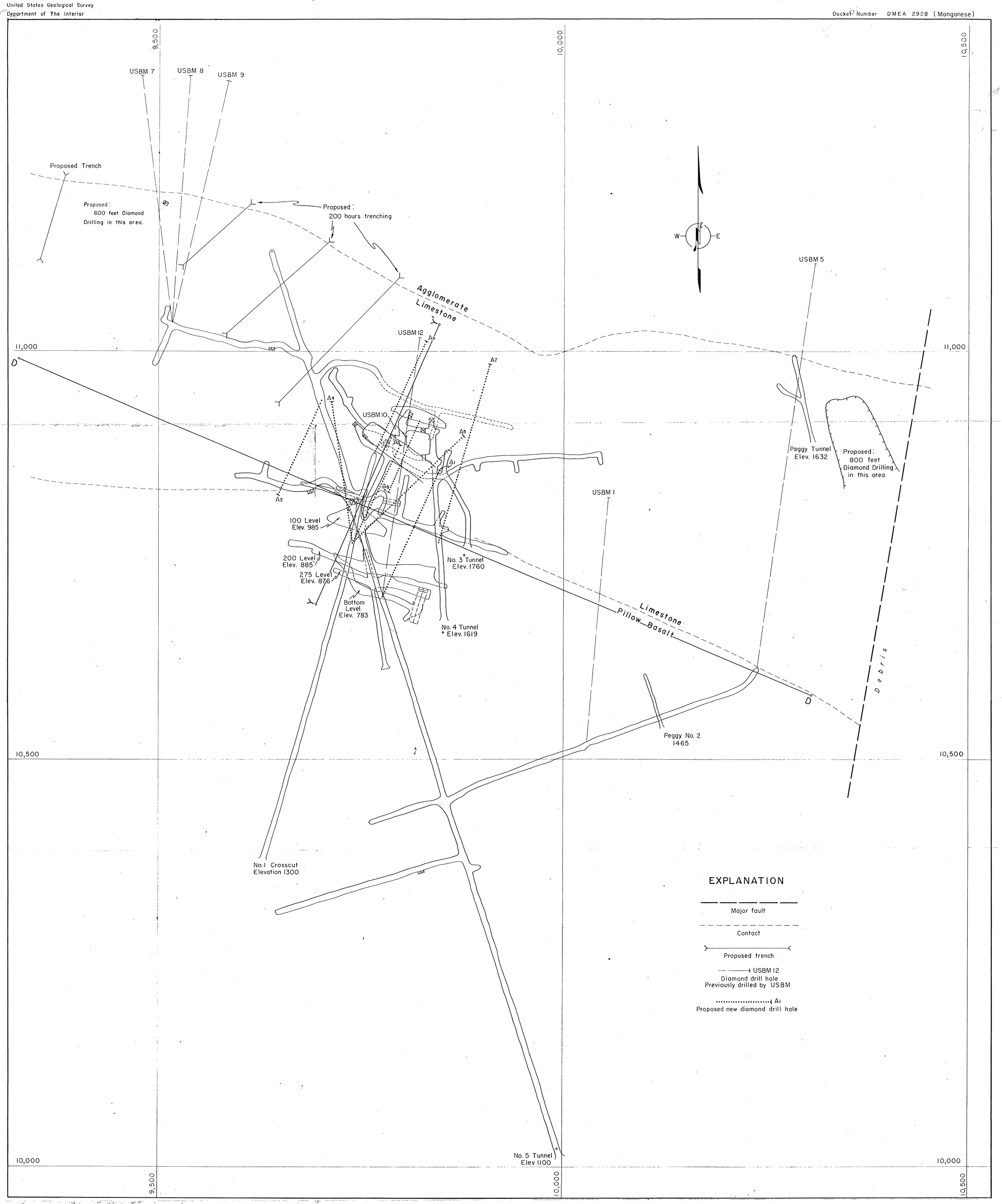
CLAIM MAP

CRESCENT MINE

No. 4

T. 30 N R. 10 W W.M.

CLALLAM COUNTY, WASHINGTON



No. 1 Crosscut, Peggy No. 2, Peggy Tunnels by tape and compass survey, May 14, 1953.

Shaft at surface and open pit near Peggy Tunnel located approximately. All other workings from Sunshine Mining Company map.

Raise above shaft on No. 5 level not shown.

Outline of limestone band from USGS bulletin, 931-R. pl. 68

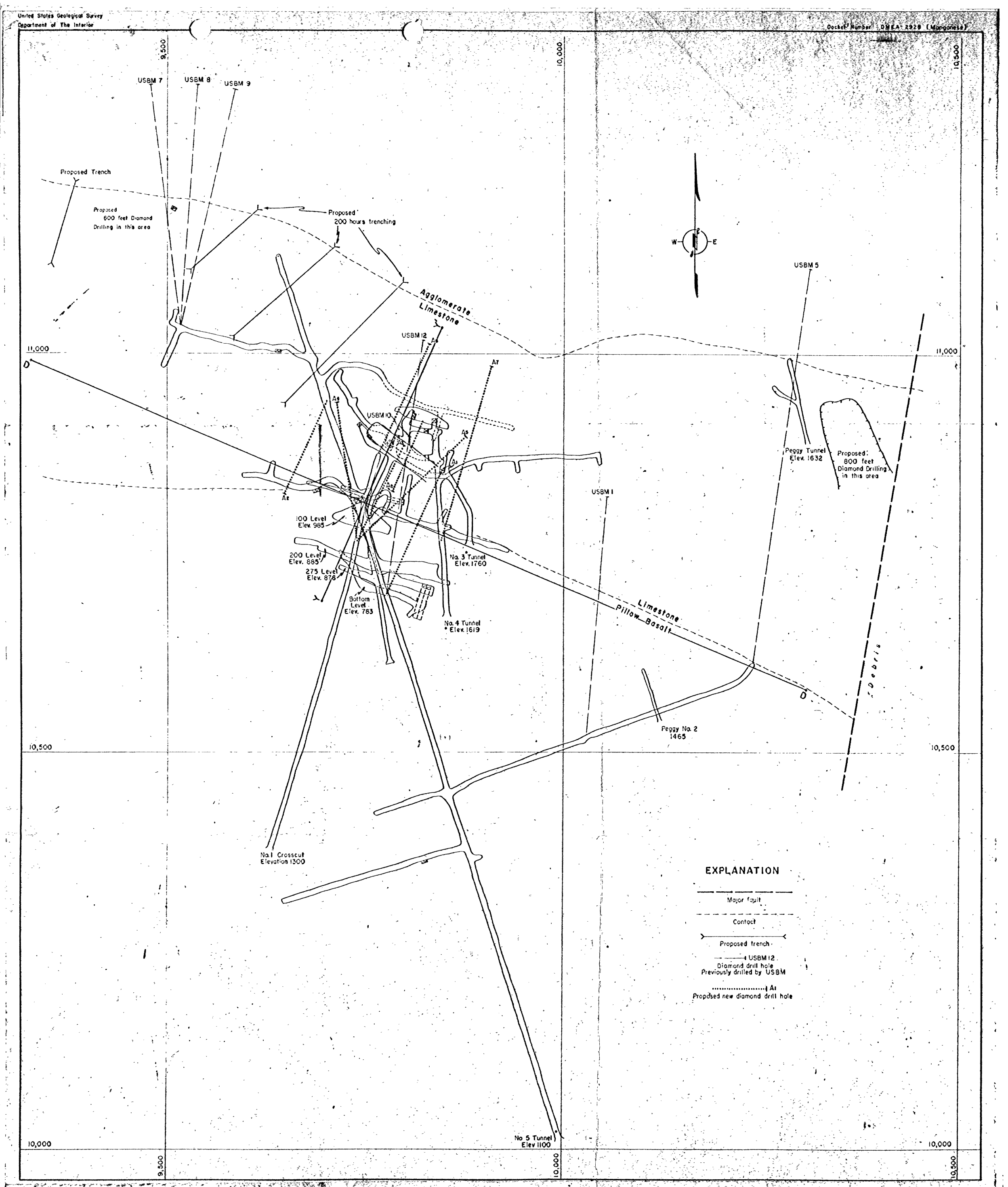
COMPOSITE PLAN AND PROPOSED NEW EXPLORATION

CRESCENT MINE

No. 1

CLALLAM COUNTY, WASHINGTON

0 50 100 150 200 250 Feet



No. 1 Crosscut, Peggy No 2, Peggy Tunnels by tape and compass survey, May 14, 1953.

Shaft at surface and open pit near Peggy Tunnel located approximately. All other workings from Sunshine Mining Company map.

Raise above shaft on No. 5 level not shown.

Outline of limestone band from USGS bulletin, 931-A, pl. 6B

COMPOSITE PLAN AND PROPOSED NEW EXPLORATION

CRESCENT MINE

No. 1

CLALLAM COUNTY, WASHINGTON

0 50 100 150 200 250 Feet