DMEA Form 1

DEFENSE MINERALS EXPLORATION ADMINISTRATION
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DMEA Docket No. 4440

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

February 8, 1957

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

Re: Docket No. DMEA-4440 (Mercury)
Jack Horner, et al
Ontario & Pearl Groups
Malheur County, Oregon

Dear Mr. Selfridge:

Enclosed are four copies of a letter dated January 30, 1957 from Arthur E. Granger, Manager of AEC Salt Lake Area Office, Salt Lake City, Utah.

Mr. Granger states that this property has not been examined by the AEC but that a denial appears justified on the basis of Alvord's supplemental examination report.

Sincerely yours,

A. E. Weissenborn

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I, NW District

Enclosures

cc: USBM (2)
Alvord

2/13/57
Recommended by letter dated 1/8/57

OFFICIAL FILE COPY
DMEA
RECEIVED FEB 11 1957

DATE	INITIALS	CODE
2-12	C	220
2/13	WSM	400
		225

ATOMIC ENERGY COMMISSION

[illegible] 2196

[illegible]

[illegible]
SLC:[illegible]:mkc

January [illegible], 1957

Mr. [illegible] Weissenborn
Executive Officer, DMEA
Field Team Region 1 NW District
South 157 Howard Street
Spokane 4, Washington

Re: Docket No. DMEA-4440 (Mercury)
Jack Horner, et al.
Ontario and Pearl Groups
Malheur County, Oregon

Dear Mr. Weissenborn:

We are sorry but an evaluation of the property concerned in Mr. Jack Horner's application cannot be offered, since a field examination by Salt Lake Area Office personnel has not been made.

However, the decision of denial appears justified from Donald C. Alvord's supplemental examination report.

Sincerely yours,

Arthur E. Granger, Manager
Salt Lake Area Office

DMEA

OFFICIAL FILE COPY
D M E A
RECEIVED JAN 7 1957

DATE	INITIALS	CODE
1-7	C	220

xxxxxxxxxxxxxxxxxx
So. 157 Howard Street
Spokane 4, Washington

January 3, 1957

Mr. Arthur E. Granger, Chief
U. S. Atomic Energy Commission
P. O. Box 2196
Salt Lake City, Utah

Re: Docket No. DMEA-4440 (Mercury)
Jack Horner, et al.
Ontario & Pearl Groups
Malheur County, Oregon

Dear Mr. Granger:

Enclosed is a copy of an application received from Mr. Jack Horner of Ontario, Oregon to explore the Ontario and Pearl Groups of Claims in Malheur County, Oregon. Enclosed also is a copy of the field men's examination report of November 8, 1956, dealing with mercury and a copy of Donald C. Alvord's supplementary examination report dated December 17, 1956 regarding the likelihood of significant uranium occurrences on these claims.

The property was not examined for uranium for reasons set forth in Alvord's memorandum of December 17. The Field Team recommended denial of an exploration contract for both mercury and uranium. However, it would be appreciated if we could have the benefit of your evaluation.

Sincerely yours,

Donald R. MacLaren

D. R. MacLaren
for: A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I, NW District

Enclosures

cc: DMEA (2)
USBM (2)
Alvord

400

DOCKET
SURNAME
Chapman
Martin
Kilsgaard
Labuf
Selfridge

Mr. Jack Horner, et al.
1193 Fortner Street
Ontario, Oregon

Re: Docket No. DMEA 4440 - Mercury
Ontario Group & Pearl Group claims
Malheur County, Oregon

Gentlemen:

Your application for aid for an exploration project and your letter of December 10, 1956 concerning the above referenced property have been reviewed.

Projects approved by the Defense Minerals Exploration Administration must, in its judgement, show definite promise of yielding materials of acceptable grade in quantities that will significantly improve the mineral supply position for the National Defense Program.

Careful study of our information indicates that the probability of disclosing minable ore reserves of mercury or uranium is not sufficiently promising to justify Government participation. Under these circumstances, we regret to advise you that your application is denied.

There will be no need for you to provide the information suggested in our letter to you of September 10, 1956, as sufficient data were obtained during our field examination.

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

Sincerely yours,

C. O. Mittendorf

Administrator

ADMcMahon:am 12-28-56-TLChapmanEam 1-2-57
cc to: Docket
Code 400
Adm. Read. File
Oper. Comm.
FT REG I, NWDist
Messrs. J. W. Pennington, USBM
T. H. Kiilsgaard, USGS

400
DOCKET
SURNAME
Chapman
Martin
Yorty
Kiilsgaard

Mr. Jack Horner, et al.
1193 Fortner Street
Ontario, Oregon

Re: Docket No. DMEA 4440 - Mercury
Ontario Group & Pearl Group claims
Malheur County, Oregon

Gentlemen:

Your application for aid for an exploration project and your letter of December 10, 1956 concerning the above referenced property have been reviewed.

Projects approved by the Defense Minerals Exploration Administration must, in its judgement, show definite promise of yielding materials of acceptable grade in quantities that will significantly improve the mineral supply position for the National Defense Program.

Careful study of our information indicates that, although mercury and uranium mineralization occurs on the property, the probability of disclosing minable ore reserves is not sufficiently promising to justify Government participation. Under these circumstances, we regret to advise you that your application is denied.

There will be no need for you to provide the information suggested in our letter to you of September 10, 1956, as sufficient data were obtained during our field examination.

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

Sincerely yours,

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

RECEIVED
DEC 31 1956
D.M.E.A.

December 28, 1956

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

Re: Docket No. DMEA-4440 (Mercury)
Jack Horner, et al.
Ontario & Pearl Groups
Malheur County, Oregon

Dear Mr. Selfridge:

Enclosed are four copies of a Supplementary Report on the referenced property dated December 17, 1956, by D. C. Alvord, geologist, Geological Survey, covering the possibility of a significant uranium occurrence on the property. This was requested in your letter of November 30, 1956.

Alvord concludes that there is no evidence to suggest the presence of uranium ore bodies on the Ontario and Pearl groups of claims and recommends that the application for assistance to explore for uranium be denied.

The Field Team concurs with this recommendation.

Copies of Alvord's examination report of November 8, and supplementary report of December 17, 1956, together with a copy of the application are being mailed to Mr. Art Granger of the Salt Lake City AEC Office for his comments. As soon as they are received, we will forward them to you.

By Field Team, Region I, NW District

Stephen W. Zoldok
for Wing G. Agnew, Acting Exec. Officer
U. S. Bureau of Mines

Donald R. MacLaren
Donald R. MacLaren, Acting Member
U. S. Geological Survey

Enclosures

cc: USBM (2)
USGS (SRO)
AEC, SLC
Alvord

xxxxxxxxxxxxxxxxxx
So. 157 Howard Street
Spokane 4, Washington

December 28, 1956

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

Re: Docket No. DMEA-4440 (Mercury)
Jack Horner, et al.
Ontario & Pearl Groups
Malheur County, Oregon

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The Field Team concurs with this recommendation.

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By Field Team, Region I, NW District

Wing G. Agnew, Acting Exec. Officer
U. S. Bureau of Mines

Donald R. MacLaren, Acting Member
U. S. Geological Survey

Enclosures

cc: USBM (2)
USGS (SRO)
AEC, SLC
Alvord

xxxxxxxxxxxxxxxx
So. 157 Howard Street
Spokane 4, Washington

December 20, 1956

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

Re: Docket No. DMEA-4440 (Mercury)
Jack Horner, et al.
Ontario & Pearl Groups
Malheur County, Oregon

Dear Mr. Selfridge:

Enclosed are four copies of a Supplementary Report on the referenced property dated December 17, 1956, by D. C. Alvord, geologist, Geological Survey, covering the possibility of a significant uranium occurrence on the property. This was requested in your letter of November 30, 1956.

Alvord concludes that there is no evidence to suggest the presence of uranium ore bodies on the Ontario and Pearl groups of claims and recommends that the application for assistance to explore for uranium be denied.

The Field Team concurs with this recommendation.

Copies of Alvord's examination report of November [illegible], and supplementary report of December 17, 1956, together with a copy of the application are being mailed to Mr. Art Granger of the Salt Lake City AEC Office for his comments. As soon as they are received, we will forward them to you.

By Field Team, Region I, NW District

Wing G. Agnew, Acting Exec. Officer
U. S. Bureau of Mines

Donald R. MacLaren, Acting Member
U. S. Geological Survey

Enclosures

cc: USBM (2)
USGS (SRO)
AEC, SLC
Alvord

xxxxxxxxxxxxxxxxx
So. 157 Howard Street
Spokane 4, Washington

December 2[illegible], 1956

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

Re: Docket No. DMEA-4[illegible]0 (Mercury)
Jack Horner, et al.
Ontario & Pearl Groups
Malheur County, Oregon

Dear Mr. Selfridge:

Enclosed are four copies of a Supplementary Report on the referenced property dated December 17, 1956, by D. C. Alvord, geologist, Geological Survey, covering the possibility of a significant uranium occurrence on the property. This was requested in your letter of November 30, 1956.

Alvord concludes that there is no evidence to suggest the presence of uranium ore bodies on the Ontario and Pearl groups of claims and recommends that the application for assistance to explore for uranium be denied.

The Field Team concurs with this recommendation.

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By Field Team, Region I, NW District

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U. S. Bureau of Mines

Donald R. Maclaren, Acting Member
U. S. Geological Survey

Enclosures

cc: USBM (2)
USGS (SRO)
AEC, SLC
Alvord

RECEIVED
DEC 31 1956
D.M.E.A.

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

December 17, 1956

MEMORANDUM

To: DMEA Field Team, Region I, Northwest District

From: D. C. Alvord, Geologist, U. S. Geological Survey

Subject: Supplementary Examination Report, Docket No. DMEA-440 (Mercury), regarding the likelihood of significant uranium occurrences on the Ontario and Pearl Groups of Claims, Jack Horner, et al., Malheur County, Oregon

The above property was examined on September 19, 1956, and as no evidence of mercury was found, the examination report, dated November 8, 1956, recommended that the application be denied. Subsequently, the Operating Committee, in its letter of November 30, 1956, pointed out that the applicant also desired to explore for uranium, as well as mercury, and requested a supplementary report on the possibility of a significant uranium occurrence on the property.

The uranium possibilities of the property were not investigated during the original examination. In a general discussion of the property with the applicants prior to the examination, the uranium and vanadium occurrences on the property were mentioned, and it became apparent that the applicants' interest in the property as a potential uranium-vanadium producer had waned since exploration by the Uranium Strategic Minerals Corporation on West Vale Butte had proved unsuccessful (see p. 3, para. 4, examination report). They appeared to be concerned with the property for its mercury potential only. On questioning we could not clarify the location of the 64 samples assayed for uranium and mentioned on page 3, paragraph 2 of the application. It is possible these assays refer to samples from the exploration operations at West Vale Butte. It is to be noted that the wording in the application does not tie the 64 assays to samples taken from the applicants' property. In any event, the property was examined for mercury only and we neglected to use a Geiger counter.

In response to the Operating Committee's request for additional information, the pulps of the four samples taken during the examination of September 19 were assayed for uranium and vanadium with the following results:

Sample No.	$\%U_3O_8$	$\%V_2O_5$*
292B	0.017	Tr
293B	0.010	Tr
294B	0.010	Tr
295B	0.009	Tr

*Values less than 0.01 percent.

The assayer, Peter Mack, of Wallace, Idaho, is approved by the AEC as an umpire for uranium and vanadium ores.

Also, while in the vicinity of Vale, Oregon, pursuant to other DMEA duties, I visited the property on December 12, 1956. Recent thawing and rains made the road from the highway to the south end of the East Vale Butte impassable. I therefore climbed the Butte from the north end, traversed the target structure to its south end, and descended the Butte off its west slope (see fig. 1 of examination report). Radioactive intensity at the highway (U. S. 20 and 26) was 0.035 MR/hr. As I ascended and descended the Butte I measured the radioactivity of float rock at several localities and, where exposed, the bedrock, particularly along lithologic contacts. Radioactivity ranged from background (0.035 MR/hr) to a maximum of 0.08 MR/hr, most of the higher readings coming from float and bedrock of the silicified sandstones and pebble conglomerates, the tuffaceous beds and soils generally equalling background. Along the fracture zone I made readings at about 25-foot intervals. Readings were also made at other localities along the structure and near it, that appeared to be possible localizers of uranium. Most readings were at about background, although a few reached 0.08 MR/hr and one, in a crevice, showed radioactivity approaching 0.1 MR/hr.

No place found on the property was sufficiently radioactive to warrant sampling.

East and West Vale Buttes are made up of kaolinized tuffaceous sandstones interbedded with lenses of silicified and opalized sandstone and pebble conglomerate. Presumably percolating ground waters, locally intermixed with juvenile waters, devitrified the tuffaceous sandstones and redeposited the silica in the sandstones and pebble conglomerates. As felsic volcanic ashese not infrequently contain from 5 to 10 parts per million uranium, weak concentrations of uranium might be expected and commonly are found

in environments such as those at Vale Buttes, and in places may form commercial ore bodies. However, there is no evidence to date pointing to the presence of uranium in commercial quantities on the Ontario and Pearl groups of claims. It is recommended, therefore, that the application for Government aid to explore for uranium on the property be denied.

Distribution:
DMEA (4)
USBM (5)
USGS(SRO)
Docket
Alvord
AEC, Salt Lake

RECEIVED
DEC 31 1956
D.M.E.A.

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

December 17, 1956

MEMORANDUM

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From: D. C. Alvord, Geologist, U. S. Geological Survey

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Distribution:
DMEA (4)
USBM (5)
USGS(SRO)
Docket
Alvord
AEC, Salt Lake

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

December 17, 1956

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in environments such as those at Vale Buttes, and in places may form commercial ore bodies. However, there is no evidence to date pointing to the presence of uranium in commercial quantities on the Ontario and Pearl groups of claims. It is recommended, therefore, that the application for Government aid to explore for uranium on the property be denied.

Distribution:
DMEA (4)
USBM (5)
USGS(SRO)
Docket
Alvord
AEC, Salt Lake

RECEIVED
DEC 31 1956
D.M.E.A.

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

December 17, 1956

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To: DMEA Field Team, Region I, Northwest District

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USGS(SRO)
Docket
Alvord
AEC, Salt Lake

400

DOCKET
SURNAME
Chapman
Martin
Yogo

December 28, 1956

MEMORANDUM

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division, DMEA

Subject: Denial of request for exploration assistance
in the amount of $62,727.33
Docket No. DMEA 4440 - Mercury and Uranium
Jack Horner, et al
Ontario Group and Pearl Group claims
Malheur County, Oregon

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

(1) The applicant, Jack Horner, et al., a partnership, requested exploration assistance in the amount of $62,727.33 for a bull-dozing and core-drilling exploration program. The partners are:

Mr. Jack Horner, 1193 Fortner St., Ontario, Oregon
Mr. William E. Roney, Vale, Oregon
Mr. David V. Black, New Orleans, Louisiana

(2) The applicants control by right of location 20 mineral claims in secs. 27, 28, 33 and 34, T. 18 S., R. 45 E., W.P.M. The Ontario Group consists of 14 claims and 6 claims make up the Pearl Group. The location certificates are recorded at the County Clerk's Office, Vale, Oregon, in Book 1, Pages 76 - 95, inclusive.

(3) The applicants did not present an exploration program other than to state that, "The proposed work consists of exploring the area by core-drilling to determine the extent of the ore-bodies, with additional exploration by bulldozer and power shovel." In a letter, dated September 10, 1956, the applicants were requested to submit considerable additional information with respect to a definite exploration program, assays of the best showings, maps, and realistic estimates of costs. However, the field examiners made an examination of the property on September 19th, because of their schedule to visit other properties in that general area and were not aware of the request for additional information. Their examination revealed that the chances of making a significant discovery of mercury ore were almost nonexistent and therefore, an exploration project or program was not discussed with the applicants. A letter dated December 10, 1956, from Jack Horner indicated that the applicants expected to receive assistance from the field examiners in revising their application but evidently they did not ask for such help.

(4) The Pearl Group of claims is underlain by a series of interstratified sandstones, tuffs and conglomerate beds which have been altered and recemented by silica, calcite and iron oxides. A fracture zone, varying from 3 to 10 feet in width, strikes northerly through the property and has been explored by a few closely spaced bulldozer cuts and hand-dug trenches. This zone, believed by the applicants to bear mercury is the only known exploration target on the property. However, four samples cut along this zone by the field examiners were barren of mercury. These samples were also assayed for uranium and the highest ran 0.017 percent U_3O_8. Also, the property was checked with a Geiger Counter on December 12, 1956, without finding significant radioactivity.

(5) The field examiners conclude that the exposures considered most favorable by the applicants are barren of mercury; there is no evidence that mercury will be present at depth; the structure is poorly developed and mineralized; and the chances of making a significant discovery of either mercury or uranium are almost nonexistent. Accordingly, they recommend that this application be denied. The Field Team and the Commodity Divisions of the Geological Survey and the Bureau of Mines concur in this recommendation.

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

ADMcMahon:am 12-28-56
cc to: Docket
Code 400
Admr. Read. File
Oper. Comm.

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

December 28, 1956

MEMORANDUM

To: Administrator, DMEA

From: Iron and Ferro-Alloys Division, DMEA

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W S Martin

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

XDXXXXXX-195K

YWB191 WAF SP 29 I-GSG

SPOKANE WASH 12-18-56 505P

W S MARTIN

DMEA DEPT. OF INTERIOR WA

REFONE CONVERSATION. DOCKET DMEA 4440 ONTARIO & PEARL PROPERTY WAS CHECKED WITH GEIGER COUNTER DEC 12 WITHOUT FINDING SIGNIFICANT RADIOACTIVITY. FOUR SAMPLES FROM FIRST EXAMINATION WERE ASSAYED. HIGHEST RAN .017 PERCENT U THREE O EIGHT. SUPPLEMENTARY REPORT WILL BE FORWARDED SOON

A E WEISSENBORN

4440 12 .017 U O

EP 515P

RECEIVED DEC 19 1956 D.M.E.A.

WSM

RECEIVED
DEC 17 1956
J.M.E.A.

Ontario, Oregon.

Dec. 10, 1956.

United States.
Department of the Interior
Defense Minerals Exploration Administration.
Washington D.C. 25.

Re: Docket No. MTH-4440, Mercury
Ontario & Ideal Group Claims
Malheur County, Oregon.

Ernest E. Johnson.
Active Ind Exploration.

Dear Sir.

Nearly 3 months has passed since your Field Team came and looked over our Property that we requested or made application for Government Assessistance on and when they left they informed us that we would hear from them any where from 30 to 60 days and we were of the opinion that they would assist us in correcting our application as this is our very first time of making an application for Government Assestance. and I know that we are likely all out of reason in our demands. However we would(if it is possible) like to have help as we dont have the ready cash to develope the Property and we feel sure within our selves that we dont only have a good possibility of Mercury but also Uranium. We have had several assays sent over on surface rock and sandstone and every one come back showing 1300 but of a low grade. and we feel that if we have the Help that we need that we can recover good deposits of both Uranium and Mercury. as well as Vanadium.

Now with reference to question and Answer # 3. The 4 Partners are and have all the interest . and we feel that we have the best possibilities for not one but several of the Eligible minerals. We are the Partners are we recorded in the Records in Vale. Malheur County Oregon.

Now with Question and answer to #4. We are the Partners and we are all going to do our part in the Exploration work or hire our part done and Pay that one who representatives us ourselves.

This has all been cleared up since the Field Team has returned with their Report and findings.
I am sure that we are eligible for the Loan if we can find the right person to assist us in making it out properly.
The Field Team was here and knows the possibilities . Would it be possible for them to check our application and send us the necessary corrections to be made. We would appreciate any assistance that could be offered.

We were informed that after the Field Team had went over the Property and taken Samples that other Samples taken from the same Property were not acceptable and would not be acknowledged. But if you still want me to take a sample fromthe Properties and have them assayed I will and send in the assay report.

Sincerely Yours.

Jack Horner.

Write denial upon receipt of Wein[illegible] teletype re: appraisal of property on uranium possibilities 12/19/50 [illegible]

Rewrite leaving off last ¶

Docket No. DMEA 4440 - McKenny
Jack Horner, et al.
Ontario & Rand Groups of Claims
Malheur County, Oregon

Note: When this application is denied the following should be included in the denial letter to take care of our letter of 9/10/50 asking for additional information.

Review of all our available information including a field examination made [illegible], subsequently to our letter to you of [illegible] indicates to us the

dlocket

IN REPLY REFER TO:

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

November 29, 1956

Re: DMEA 4440
Jack Horner, et al.
Ontario and Pearl Groups
Malheur C., Oregon
$62,727.33 - Mercury

Memorandum

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

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

WSM

Subject: Review of Field Team Report.

The applicants requested assistance in doing a large amount of work in search of inferred mercury-bearing sandstones and conglomerate.

As the application implied, there was little reason for expecting to find mercury-bearing rocks. The examiners could find no evidence of mercury in the exposures considered most promising by the applicants and recommend that the application be denied.

I concur with that recommendation.

N. E. Nelson

N. E. Nelson

Copy retained 400

Docket

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

November 28, 1956

W 509

Memorandum

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

From: Assistant Chief, Branch of Base Metals

Subject: Review of Field Team Examination Report, Docket No. DMEA 440 (mercury), Jack Horner et al., Ontario and Pearl Groups, Malheur County, Oregon. $62,727.33

The applicant proposed to explore for mercury on the Ontario and Pearl Group of Claims by bulldozing and drilling at an estimated total cost of $62,727.33.

Examination and sampling of the most favorable zone did not detect any mercury mineralization. Moreover, there was little evidence to indicate greater mercury mineralization on the property.

The examiners concluded that there was little chance for a significant discovery of mercury and recommend that the application for exploration assistance be denied.

I concur with this recommendation.

J. W. Pennington

J. W. Pennington

Copy to: Division of Minerals
Branch of Base Metals (2)
Thor Kiilsgaard, U.S.G.S.
F. D. Lamb
F i l e s

Copy retained 400

400
DOCKET
SURNAME
McMahon
Mentzer
Selfridge
Fishman
Mitkenday

NOV 30 1956

Mr. A. B. Weissenborn, Executive Officer
DMEA Field Team, Region I - NW District
South 157 Howard Street
Spokane 4, Washington

Re: Docket No. DMEA 4240 - Mercury
Jack Horner, et al.
Ontario and Pearl Groups of Claims
Malheur County, Oregon

Dear Mr. Weissenborn:

Reference is made to your letter of November 20, 1956, transmitting the Field Examination Report which recommended denial of the subject application because no evidence of mercury was found or indicated in the most favorable structure on the property.

On page three of the application, the third paragraph indicates that the applicant desires to explore the property for uranium as well as for mercury and in the second paragraph on that same page it is stated that: "A total of 64 assays for uranium indicate the presence of low-grade uranium running from .01% to .062%." As the examiners made no comment thereon in their report we would appreciate your furnishing us with a supplementary report, commenting on the possibility of a significant uranium occurrence on the property.

Sincerely yours,

George H. Fisher
(Eyes)
Chairman, Operating Committee

APPROVED:

Frank M. Bowen
(Eyes)
Member, Bureau of Mines

Thomas B. Nolan
(Eyes)
Member, Geological Survey

ADMcMahon:am:am 11-30-56
cc to: Docket
Code 400
Admr. Read. File
Oper. Comm.
FT. REG. I - NWDist
Messrs. J. W. Pennington, USBM
T. H. Kiilsgaard, USGS

R.G.F.

Docket

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
[redacted]
So. 157 Howard Street
Spokane 4, Washington

RECEIVED
NOV 23 1956
D.M.E.A.

November 20, 1956

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

WSM

Re: Docket No. DMEA-4440 (Mercury)
Jack Horner, et al.
Ontario & Pearl Groups
Malheur County, Oregon

Dear Mr. Selfridge:

Enclosed are four copies of a field examination report on the referenced property by R. D. Sample and D. C. Alvord, Geologists, U. S. Geological Survey, and E. W. Parsons, Mining Engineer, U. S. Bureau of Mines.

The property was examined without waiting for a field referral because of the late season and the fact that our field examiners were passing right by the property. After they had left for the field the Operating Committee's letter of September 10 to the applicant was received asking for additional information but it was not possible to reach our field men and they made the examination as scheduled.

The examiners could find no evidence of mercury in the exposures considered by the applicant to be on the most favorable structure on the property, nor could they find any evidence to indicate that mercury might exist at depth. They therefore recommend that this application be denied.

The Field Team concurs with this recommendation.

By Field Team Region I, NW Dist.

Reviewed by
DMEA OPERATING COMMITTEE
11-28-56
(date)

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

Wing G. Agnew
Wing G. Agnew, Member
U. S. Bureau of Mines

cc: USBM (2)
Alvord

DMEA (4)

RECEIVED
NOV 23 1956
D.M.E.A.

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

November 8, 1956

MEMORANDUM

To: DMEA Field Team, Region I, Northwest District

From: R. D. Sample and D. C. Alvord, Geologists, U. S. Geological Survey and E. W. Parsons, Mining Engineer, U. S. Bureau of Mines

Subject: Field Examination Report, Docket No. DMEA-440 (Mercury), Ontario and Pearl Groups of Claims, Secs. 27, 28, 33, and 34, T. 18 S., R. 45 E., W. P.M., Malheur County, Oregon

INTRODUCTION AND SUMMARY

An application from Jack Horner, et al., for Government aid to explore for mercury on the Ontario and Pearl Groups of claims was received on August 27, 1956. The applicants propose a bulldozing and drilling exploration program for mercury at an estimated cost of $62,727.33. The Government participation would be $47,045.50.

The property was examined on September 19, 1956. Jack Horner and William E. Roney, two of the applicants, were guides to the property. They lead the examiners to a few dozer cuts and hand-dug pits which, according to the applicants, had the best ore showings on the property. A rough sketch map was made of the property showing approximately where samples were taken.

The Pearl group is underlain by a series of interstratified sandstones, tuffs, and conglomerate beds which have been altered and recemented by silica, calcite, and iron oxides. The beds strike about N. 20° W. and dip 15°-20° to the east. A fracture zone, varying from 3 to 10 feet in width, which in general is strongly altered and recemented by silica, strikes northerly through the property. This zone, believed by the applicants to bear mercury is the only known exploration target on the property. Four samples cut along this zone, in bulldozer cuts and hand-dug pits were barren of mercury.

RECOMMENDATION

It is recommended that the application be denied.

Reviewed by
DMEA OPERATING COMMITTEE
11-28-56
(date)

APPLICANTS

This is a partnership venture. The partners being:

Mr. Jack Horner, 1193 Fortner St., Ontario, Oregon
Mr. William E. Roney, Vale, Oregon
Mr. David V. Black, New Orleans, Louisiana

Mr. Black was not present at the time of the examination. Mr. Horner is an excavation contractor and has practical experience in the use of heavy machinery over a period of 25 years. Mr. Roney has prospected in western United States for many years and has had about 25 years of practical mining experience in eastern Oregon and Nevada.

Applicants are prepared to meet their share of the cost of the exploration ($15,681.83) by personally furnishing labor and supervision, by furnishing the heavy equipment and trucking as required, and by cash.

LOCATION AND ACCESSIBILITY

The Ontario and Pearl groups of lode claims are in the northern part of Malheur County, Oregon in secs. 27, 28, 33 and 34, T. 18 S., R. 45 E., W. P. M. They are about 2½ miles southeast of Vale, the county seat. The claims may be reached from Vale by traveling eastward for 1 mile on U. S. highways Nos. 20 and 26; thence southerly over a rough, dirt road for 1½ miles to the southern slope of East Vale Butte (fig. 1). No roads lead to the upper limits of the Butte, which is almost 1000 feet above the valley floor to the north.

PROPERTY RIGHTS

The applicants hold title to the property, which comprises 20 mineral claims on the Public Domain by right of discovery and location. They have staked 14 claims of the Ontario group and 6 claims of the Pearl group, all contiguous (fig. 1). The location certificates are recorded at the County Clerk's Office, Vale, Oregon in Book 1, Pages 76-95, inclusive. Assessment work is recorded in Book 2, Page 274. No adverse claims to this property are known to exist.

DESCRIPTION OF THE PROPERTY

The applicants' mineral claims cover the top and the southern and western slopes of a prominent conglomerate-capped butte locally known as East Vale Butte. From the summit at an altitude of 3,167 feet the butte slopes steeply northward for about half a mile to the Malheur River valley with an altitude of about 2,200 feet.

The southern slope is the most gentle and grades into rolling hills and a broad valley. Outcrops of conglomerate and sandstone are common on the upper slopes of the butte but the lower slopes are generally covered with overburden. Vegetation on the buttes and surrounding rolling hills consists of scattered bunches of sage brush, bunch grass, and sparse scrub cedars. To the north the irrigated Malheur Valley supports lush growth of cultivated crops.

The area is hot and dry during the late summer and fall months with only an occasional shower of rain; the winter and spring months are cooler and wetter but with little snowfall. Exploration and mining in the area can be done on a year-round basis. An all-weather road could easily be maintained between the property and the paved highway. The nearest shipping and rail center is at Vale, Oregon.

No equipment or facilities for exploration and mining are on the property. The only workings consist of a few bulldozer cuts and prospect pits along the principal shear zone. These cuts are from a few feet to 30 feet in length and from 2 to 5 feet in depth, depending upon the overburden. Due to steep gullies and sandy areas, a jeep or other 4-wheel drive vehicle is necessary to reach the workings from the access road at the south of the property.

HISTORY AND PRODUCTION

No production of metallic minerals is known from this general area. The applicants report that the hill about half a mile to the west (West Vale Butte) has been extensively drilled and explored for uranium by the Uranium Strategic Minerals Corporation of Boise, Idaho. No records of this drilling are available. The applicants also report the presence of uranium, vanadium, and traces of mercury from their assayed samples. Drilling for oil in the vicinity has produced light flows of gas and hot water. Hot springs on the north slopes of West Vale Butte produce warm water for a swimming pool at Vale.

GEOLOGY

Chester W. Washburne in a report entitled, "Gas and Oil Prospects near Vale, Oregon, and Payette, Idaho," U. S. Geol. Survey Bull. 431, p. 26, 1906, discusses the general geology in the vicinity of Vale, but makes no report on metallic minerals. Robert G. Yates, in his report entitled, "Quicksilver deposits of the Opalite district, Malheur County, Oregon, and Humboldt County, Nevada," U. S. Geol. Survey Bull. 931-N, p. 319, 1942, discusses an area geologically similar to the Vale district. The Mitchell Butte 30-minute quadrangle, edition of July 1906, covers the Vale Butte area.

The Vale Butte district is underlain by lake and stream deposits of sand and gravel interbedded with rhyolite and volcanic ash. The cementing materials are silica, calcite, gypsum, and iron oxides. These lake deposits are referred to in the literature as the Payette-Idaho formations of early to late Tertiary age. Over broad areas the beds are flat lying to gently dipping but locally the geology is complicated by folding and faulting and by moderate to intense chemical alterations.

The sandstone and conglomerates of the Vale Butte district are in general strongly silicified and locally opalized, whereas the interbedded tuffs are often devitrified and kaolinized. It is believed that percolating ground waters and hot spring waters devitrified the tuff beds and redeposited the silica in the sandstones and conglomerates. East Vale Butte is capped by a sandstone-pebble conglomerate unit which strikes about N 20° W. and dips 10°-15° to the east. It is well cemented by silica, calcite, and gypsum with many blebs and streaks of iron oxide. Small lenses of rhyolitic ash usually kaolinized and strongly stained by diffusion banding of hematite and limonite are locally interbedded with the conglomerate. Near the western edge of the Butte this sandstone-pebble conglomerate cap rock appears to stand vertically, and from a distance looks like a dike. Upon examination, however, it can be shown that here the conglomerate beds have merely been more intensely jointed, altered, and silicified to form a zone of vertical fractures.

This fracture zone, though concealed in place, can be traced southward from the top of the butte down to dominantly tuffaceous sandstones that underlie the conglomeratic cap rock. The structure ranges in width from 3 to 10 feet, strikes about N 20° W. and ranges in dip from about vertical near the top of the butte to 70° W. on the gentle southern slopes of the butte. It has been explored in the tuffaceous sandstones underlying the southern slopes by a few closely spaced bulldozer cuts and hand-dug trenches from 3 to 8 feet deep. Where it is exposed, the structure has been stained and altered to a brick red color. At the lowest cut on the southwest slope, the zone of greatest alteration and staining is about 3 feet wide. Irregular veinlets filled with gypsum and/or calcite are locally abundant. Vugs containing euhedral crystals of gypsum were noted in one cut.

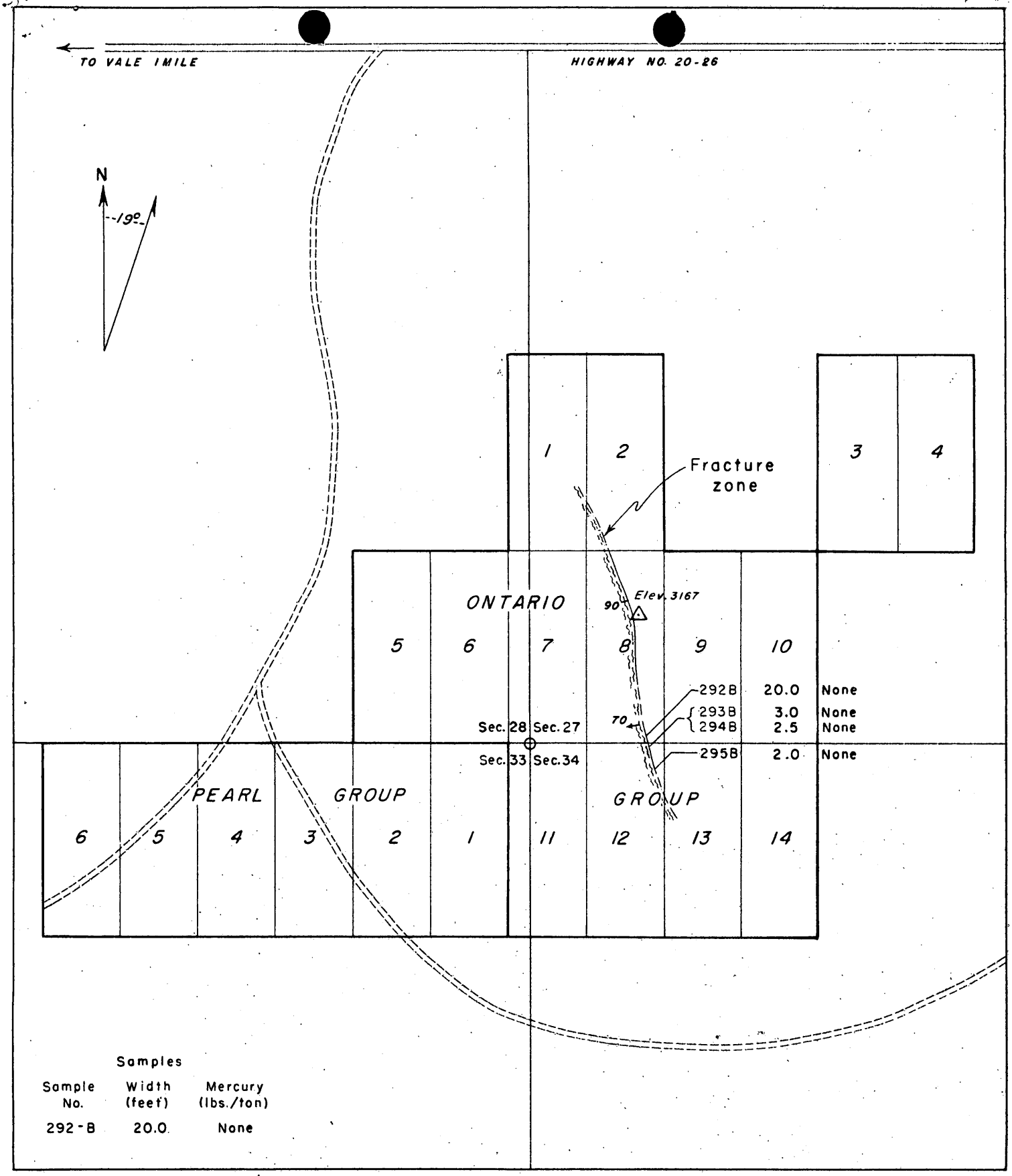
Cinnabar was not observed anywhere along the shear zone. Four samples were taken, three of the brick red fracture zone and one of the bleached wall rock. All four samples were barren of mercury.

CONCLUSIONS

The samples taken from exposures considered most favorable by the applicant were barren and indicate that the shear zone is barren of mercury. There is no evidence to show that mercury will be present at depth. The structure is poorly developed and shows little evidence of having been much more mineralized than the kaolinized and silicified country rock. It is therefore concluded that the chances of making a significant discovery are almost nonexistent, and it is recommended that this application be denied.

Attachment 1

Distribution:
DMEA (4)
USBM (5)
USGS(SRO)
Docket
Alvord



Samples

Sample No.	Width (feet)	Mercury (lbs./ton)
292-B	20.0	None

Claim boundaries from Applicant's map

Compiled by R. D. Sample, 1956

Fig. 1

SKETCH MAP OF THE ONTARIO AND PEARL GROUPS OF CLAIMS, T. 18 S., R. 45 E., W.P.M.
VALE BUTTES, MALHEUR COUNTY, OREGON

1000 0 1000 2000 FEET

400

Docket
McMahon
Martin

SEP 2 0 1956

Mr. Jack Horner, et al.
1193 Fortner Street
Ontario, Oregon

Re: Docket No. DMEA-4440, Mercury
Ontario Group & Pearl Group claims
Malheur County, Oregon

Gentlemen:

Your application for assistance in exploring for mercury on the above-cited claims has been carefully reviewed by the Washington office of the Defense Minerals Exploration Administration.

Our review indicates that your proposed work program, as presented, includes more prospecting than exploration and, therefore, would not be qualified for exploration aid from the Government. In this connection your attention is directed to "Sec. 4 - Scope of application" of DMEA Order-1 Amended and to the questions and answers under headings III and IV in the "Questions & Answers" booklet, copies of which are enclosed.

Possibly our Field Team could assist you in preparing a revised application for an appropriate exploration project, if an examination of the property indicated that the potential tonnage and grade of material warranted Government assistance. However, to request an examination we would need evidence beyond the visual and qualitative suggestions referred to in your application that sufficient mercury mineralization is present to indicate the possibility of finding concentrations that could properly be classed as ore bodies.

Therefore, if you are interested in proceeding with your application, it is suggested that you submit representative samples from the most highly mineralized area to a competent laboratory for quantitative determinations. In the event the analyses show significant percentages of mercury, a sample map of the most promising area should be submitted to show the locations where the samples were taken and their assays. Please note that any costs incurred prior to the date of a contract cannot be charged to that project.

R.C.S.

If the assays are encouraging, a definite exploration program can be submitted fully describing the type, size, and depth of drilling, trenching, or other exploration operations anticipated. The locations of such proposed operations should also be shown on the sample map or another accompanying map.

Since your application implies that all work will be done by the partnership, the costs should be broken down by categories of estimated expenditures and the totals resolved into costs per units of work.

Your application states that you are prepared to furnish your share of the cost of the proposed project by use of equipment owned by you. Credit for use of operator-owned equipment is calculated on an amortization or depreciation basis over the contract term and not at an hourly or daily rate. Therefore, you should submit estimates of the present fair market prices in your area for those items of "Applicant-Owned Equipment," listed under 6(d) of your application, which are essential for the exploration project. According to our experience with similar projects, there appears to be little justification for the use of so much earth-moving equipment and the number of trucks and pick-ups shown in your application for the type of exploration indicated. Also, as payment of the Government's share of the exploration costs takes from three to four weeks after the operator submits a properly supported voucher, an applicant should have sufficient funds to finance at least two months' exploration work.

You have listed as exploration costs the salaries of all equipment operators at $25.00 per day, powder man at $30.00 per day, and a geological engineer at $150.00 per day. Such rates would not be allowable for the type of work contemplated, and we suggest that you furnish us with more realistic estimates of the necessary expenditures to provide a sound basis for further consideration of your application.

Your application will, therefore, be held in abeyance for a reasonable time to allow you to submit a supplement providing the above-requested additional information and indicated adjustments.

Sincerely yours,

Frank E. Johnson

ACTING Administrator

Enclosures

TLChapman/ls 9/10/56

cc: Field Team, Reg. I-NW Dist.

cc: Docket
Code 400
Adm. Read. File
Thor Kilsgaard, USGS
J. W. Pennington, USBM

Docket

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

August 29, 1956

Copy retained 400

WSM

Memorandum

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

From: Commodity Specialist, Branch of Base Metals

Subject: Review of application, Docket No. DMEA 4440 (mercury), Jack Horner et al, Ontario and Pearl Group of Claims, Malheur County, Oregon. $62,727.33.

The applicant proposes to explore for cinnabar mineralization by an unstated amount of core-drilling and surface work at an estimated cost of $62,727.33.

Additional information, namely, a definite program and justification, is required before this application can be evaluated. It also appears that the estimated costs are excessive and include superfluous items.

It is stated in the application that exploration work is being conducted by the applicant. Therefore, I recommend that the applicant be requested to submit the results of the current exploration and any other data necessary to appraise the present application.

J. W. Pennington

J. W. Pennington

Copy to: Division of Minerals
Branch of Base Metals (2)
Thor Kiilsgaard, U.S.G.S.
R. W. Geehan
F i l e s

RECEIVED
AUG 2 9 1956

August 2y, 1956

Memorandum

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

From: Commodity Specialist, Branch of Base Metals

Subject: Review of application, Docket No. DMEA 4440 (mercury), Jack Marner et al, Ontario and Pearl Group of Claims, Malheur County, Oregon. $62,727.33.

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It is stated in the application that exploration work is being conducted by the applicant. Therefore, I recommend that the applicant be requested to submit the results of the current exploration and any other data necessary to appraise the present application.

J. W. Pennington

JWPennington/vr

J. W. Pennington

Copy to: Division of Minerals
Branch of Base Metals (2)
Thor Hillegaard, U.S.G.S.
R. W. Gochen
F i l e s

August 29, 1956

Memorandum

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

From: Commodity Specialist, Branch of Base Metals

Subject: Review of application, Docket No. DMEA 4440 (mercury), John Harper et al, Ontario and Denali Group of Claims, Malheur County, Oregon. $60,747.33.

The applicant proposes to explore for cinnabar mineralization by an unstated amount of core-drilling and surface work at an estimated cost of $60,747.33.

Additional information, namely, a definite program and justification, is required before this application can be evaluated. It also appears that the estimated costs are excessive and include extraneous items.

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J. W. Pennington

J. W. Pennington

JWPennington/vr

Copy to: Division of Minerals
Branch of Base Metals (2)
Thor Hillegard, U.S.G.S.
R. W. Gaskin
Files

RECEIVED

Docket

IN REPLY REFER TO:

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

August 29, 1956

Re: DMEA 4440
Jack Horner, et al.
Ontario Group
Malheur County, Oregon
$62,727.33 - Mercury

Copy retained 400

WSM

Memorandum

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

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

Subject: Review of application

The applicants request assistance in exploring by bulldozer, power shovel and diamond drilling, flat lying beds of sandstone and conglomerate that contain noncommercial amounts of uranium and vanadium and indications of mercury.

The object of the proposed work is to find concentrations of cinnabar, believed to exist somewhere in the mountain. No work program is outlined. Because no defined targets are known, the project, as set up, is prospecting. Perhaps the numerous, but low grade, showings warrant an examination.

Referral of the application to the Field Team is recommended.

N. E. Nelson

N. E. Nelson

IN REPLY REFER TO:

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

August 29, 1956

Re: DMEA 4440
Jack Barner, et al.
Ontario Group
Malheur County, Oregon
$62,727.33 - Mercury

Memorandum

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

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

Subject: Review of application

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H. E. Nelson

H. E. Nelson

HENelson:jsh
S-8/29/56
cc: Director's reading 4212
Branch reading 4212
DMEA (3)
Docket file
J. W. Pennington, 3623

IN REPLY REFER TO:

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

August 29, 1956

Re: DMEA 4440
Jack Barner, et al.
Ontario Group
Malheur County, Oregon
468,787.33 - Mercury

Memorandum

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

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

Subject: Review of application

The applicants request assistance in exploring by bulldozer, power shovel and diamond drilling, flat lying beds of sandstone and conglomerate that contain noncommercial amounts of uranium and vanadium and indications of mercury.

The object of the proposed work is to find concentrations of cinnabar, believed to exist somewhere in the mountain. No work program is outlined. Because no defined targets are known, the project, as set up, is prospecting. Perhaps the numerous, but low grade, showings warrant an examination.

Referral of the application to the Field Team is recommended.

H. E. Nelson

H. E. Nelson

HENelson:jch
G-8/29/56
cc: Director's reading 4212
Branch reading 4212
DMEA (3)
Docket file
J. W. Pennington, 3623

August 28, 1956

Subject: DMEA-4440
Re: Exploration Assistance

Mr. Jack Horner, et al.
1193 Fortner Street
Ontario, Oregon

Dear Mr. Horner

The receipt of your application dated August 22, 1956 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA-4440 and referred to the Iron & Ferro-Alloy Division.

Kindly identify all future correspondence relating to your application by this docket number.

Sincerely yours,

Allen S. Dakan
~~Robert E. Adams~~, Chief
Operations Control and
Statistics Division

1193 Fortner St.
Ontario, Oregon

August 22, 1956

Defense Minerals Exploration Administration
U.S. Dept. of the Interior
Washington 25, D.C.

Gentlemen:

There is enclosed herewith Application for Aid in an Exploration Project, under the D.M.E.A., in quadruplicate.

Very truly yours,

Jack Horner

Jack Horner

Encls.
Quadruplicate Application

RECEIVED
AUG 27 1956

1193 Fortner St.
Ontario, Oregon

August 22, 1956

Defense Minerals Exploration Administration
U.S. Dept. of the Interior
Washington 25, D.C.

Gentlemen:

There is enclosed herewith Application for Aid in an Exploration Project, under the D.M.E.A., in quadruplicate.

Very truly yours,

Jack Horner

Encls.
Quadruplicate Application

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

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. 4440
Metal or Mineral Mercury
Date Received 8-28-56
Estimated Cost $62,727.33
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: Jack Horner, et al.,1193 Fortner St., Ontario, Oregon

(*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. Co-partnership State of Oregon

(*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 Part of W. 1/2 of Sec. 27; Part of W. 1/2 of E. 1/2 of Sec. 27; Part of E. 1/2 of Sec. 28; Part of N. 1/2 of Sec. 33; Part of N.W. 1/4 of Sec. 34; T. 18 S., R. 45 E., W.P.M. See accompanying map.

(*b*) State any mine name by which the property is known. None

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

(*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.

RECEIVED AUG 27 1956

5. *The exploration project.*—(*a*) State the mineral or minerals for which you wish to explore Mercury, Uranium,

(*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 1 days and be completed within 6 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)? Yes

(*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 August 22, 1956

Jack Horner
(Applicant)

By William E. Porter
David V. Black Jr.

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

1. (d) Jack Horner, 1193 Fortner St., Ontario, Oregon
William E. Roney, 577 Fortner St., Ontario, Oregon
David V. Black, 8033 Chef Menteur Hwy., New Orleans, La.

3. (f) The land consists of unpatented claims, recorded in the County Courthouse ~~office of the Bureau of Land Management, Dept. of the Interior~~, at Vale, Oregon. Book and Page numbers are: Book 1, Pages: 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95.

These are two groups of claims known as the Ontario group and the Pearl group, contiguous to each other.

Assessment work is recorded in the County Courthouse ~~office of the Bureau of Land Management~~ at Vale, Oregon, as follows: Book 2, Page 274.

4. Physical description. -

(a) No mining operations have been conducted or are now being conducted upon the land. Exploration operations have been and are now being conducted upon the land, consisting of close examination of the surface of the land for mineral showing; digging for samples for test and assay; bulldozing of roads; and bulldozing of cuts and overburden for the securing of samples. This work is being done and has been carried on by the claim locators. There are no existing mine workings, though the whole area is readily accessible for examination purposes.

(b) There is no past or current production, and exact ore reserves are not known.

(c) The geologic features of the property consist of Vale Butte with its high point of 3167 feet above sea level, containing an outcrop and massive capping of conglomerate and breccia material, stained pink; gradually diminishing to low foothills in an easterly direction, and on the south and southeast bordered by level valleys and low rises.

4 (c) (con.)

The general geologic formation consists of sandstone with level interspersed layers of conglomerate, the main underlying beds being practically 100% sandstone. The Cinnabar mineralization can be easily seen on the surface, where it has infiltrated in a long vein-like deposit, running in a northwesterly and southeasterly direction for several thousand feet, with the width varying from 4 to 20 feet. The Cinnabar most likely made its way to the surface by way of vertical fracturing in the horizontal bedding planes of sandstone and conglomerate.

A total of 64 assays made for Uranium indicate the presence of low-grade Uranium running from .01% to .082%.
Assays by the U.S. Vanadium Corporation show the presence of .10% Vanadium on the surface.
Assays for Mercury show the presence of traces on the surface over the major portion of the mountain outcrop, and low hills surrounding the higher elevations also contain outcrops that gives showing of Mercury. These have been supplemented with tests using an ultra-violet light and a willemite screen, to show that surface indications of Mercury are very promising and indicate strong possibilities of commercial Mercury orebodies in the form of Cinnabar.

We wish to explore these claims, as we feel that the possibilities of uncovering good commercial deposits of Cinnabar are very good. We also feel that deeper exploration may very well uncover Uranium ore of high enough grade to be considered commercial. This also applies to Vanadium.

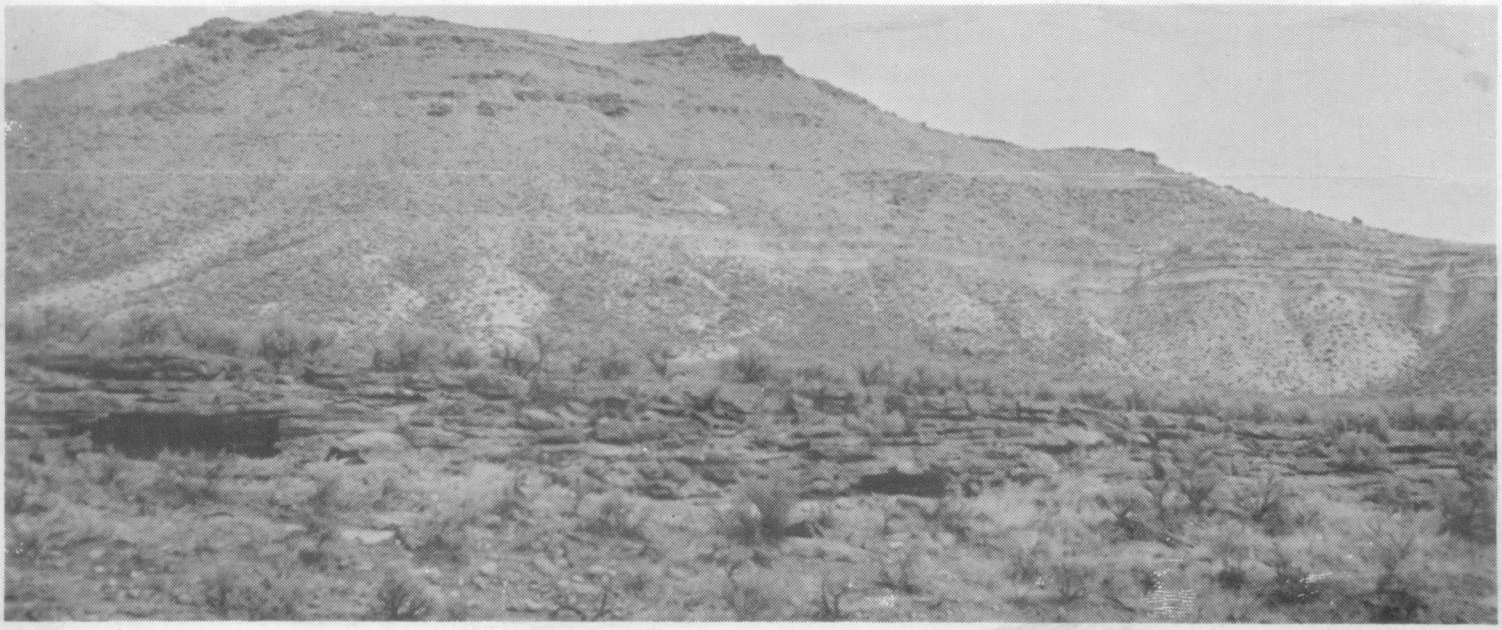
(d) Accessibility of this project is unusually good. It is approximately 1 mile from Vale, Oregon - a town of some 1500 population; approximately 1/2 mile from a main, paved road - U.S. Highways 20-26, running between Vale and Ontario, Oregon; approximately 2 miles from the Union Pacific Railroad station; and approximately 1 mile from the Malheur River.

(e) More than enough manpower is available in the town of Vale, only 1 mile distant. Materials, supplies and equipment are readily available at Vale, Oregon, as is water supply. Water is additionally available approximately 1/2 mile distant, at neighboring ranches and near the main highway. A power line runs along the highway, 1/2 mile away.

5. The exploration project -

(b) The proposed work consists of exploring the area by core-drilling to determine the extent of the ore-bodies, with additional exploration by bulldozer and power shovel. In the exploration for Cinnabar, core-drilling will be started where outcroppings of Cinnabar have been found, as shown on the accompanying map. We will explore for the depth and the outer boundaries of the deposits. Core drilling will be supplemented by use of bulldozer, power shovel and dynamite. Uranium exploration will be done by core-drilling over as much of the entire area as possible, comparatively good surface assays having been found to be widely disseminated. Where necessary to aid exploration, a tunnel may possibly be dug on the west side of the mountain. Necessary roads will be built by bulldozer to facilitate accessibility of workings.

(d) Exploration work will be under the joint supervision of two of the applicants: William E. Roney and Jack Horner. Mr. Roney has had practical mining experience as a miner in Nevada for 25 years. He worked at running tunnels, sinking shafts; winzes, cross-cuts, drifts, stopes, raises, and in doing timbering work. He also worked for the U.S. Bureau of Mines at Boulder City, Nevada in the testing laboratory, manganese mill and on the chlorinators for magnesium. Mr. Horner is an excavating contractor who has been operating power equipment for 25 years. This includes bulldozers, power-shovels, draglines, clamshells, drills, plows, compressors and jack-hammers, blades, and trucks. In addition, Mr. Horner has been associated with several mining ventures and has handled mining operations with his machinery, as well as with the use of dynamite.



West side of Vale Butte in Secs. 27, 28 and 34.

6. Estimate of costs -

(a) Independent contracts - none

(b) Labor, supervision, consultants -

1 Machine operator	@ $25.00 day	60 days	$1,500.00
1 Bulldozer operator	@ $25.00 day	90 days	2,250.00
1 Core-drill operator	@ $25.00 day	144 days	3,600.00
1 Machine operator and Supt.	@ $25.00 day	60 days	1,500.00
1 Mining operator and Supt.	@ $25.00 day	90 days	2,250.00
1 Laborer	@ $12.00 day	144 days	1,728.00
1 Powder Man	@ $30.00 day	15 days	450.00
1 Jack-Hammer operator	@ $25.00 day	30 days	750.00
1 Truck Driver	@ $25.00 day	100 days	2,500.00
1 Geological Engineer	@ $150.00 day	6 days	900.00
		Sub-total	$17,428.00

6 (c) Operating materials and supplies -

Gasoline	3600 gals. @ $.30 gal.	$1,080.00
Oil	100 gals. @ $1.00 gal.	100.00
Grease	250 lbs. @ $.40 lb.	100.00
Fuel Oil	1800 gals. @ $.25 gal.	450.00
1 Wheelbarrow		30.00
1 Blasting battery		45.00
Blasting wire	5000 ft. @ $.005 ft.	25.00
Blasting caps	200 @ $.10 each	20.00
Blasting powder	20 50-lb. boxes @ $20. bx.	400.00
1 Cap crimper, blasting		2.50
1 Tamping bar		3.00
1 Mineral glass (hand lens)		10.00
10 Hand drills		25.00
1 Double jack		6.50
1 Single jack		3.50
1 Spoon for use with hand drills		2.50
5 Shovels, long handle		20.00
4 Picks, miner's		20.00
2 Steel bars, crow		10.00
	Sub-total	$2,353.00

6 (d) Operating equipment -

also 7 (b) Applicant-Owned Equipment

1 1952 Caterpillar D2 'Dozer	$8.00 hr	$64.00 day	100 days	$6,400.00
1 M47 3/8 Yd., Sheild Bantam Shovel	$12.00 Hr.	$96.00 day	60 days	5,760.00
1 M49 - 3/8 Yd. Sheild Bantam Shovel	$12.00 Hr.	$96.00 day	60 days	5,760.00
1 1946 2-ton Dodge Dump Truck	$8.00 Hr.	$64.00 day	60 days	3,840.00
1 240 Ampere G.E. Welder	$5.00 Hr.		60 Hrs.	300.00
1 3-Yd. Soil Mover, Carryall	$2.50 Hr.		180 Hrs.	450.00
1 1950 Studebaker Pick-up truck	$4.00 day		80 days	320.00
1 1945 Willys Jeep pick-up	$4.00 day		80 days	320.00
1 1942 GMC 3/4 ton panel truck	$4.00 day		80 days	320.00
	Sub-Total			$23,470.00

Equipment To Be Purchased

1 4x4 1½-2 ton truck and Water Tank	$3,200.00
1 Core-drill, Jeep-mounted, with front-mounted winch Longyear "24", #9132J	6,725.50
1 Set Core-drill supplies for Longyear "24"	2,057.45
1 Core-drill pumping unit, Longyear Model 520-Q	1,320.00
1 Compressor	1,020.00
1 Set Compressor supplies	460.00
1 Transit	285.00
1 Plane Table and Alidade	100.00
Sub-total	$15,167.95

6 (e) None

6 (f) Tool house, wood	$596.00
6 (g)	
Analytical work	1,200.00
Accounting	300.00
[illegible]	
Employer's Liability insurance - S.I.A.C.	662.26
Payroll taxes - Soc. Sec.	348.56
Unemployment compensation	470.56
Sub-total	$2,558.38
6 (h) Contingencies -	
Machinery breakdown and repairs	1,750.00

7 (b) See page 9, Applicant-owned equipment.

Jack Horner
1193 Fortner St.
Ontario, Oregon

DEFENSE MINERALS EXPLORATION ADMINISTRATION

U.S. DEPARTMENT OF THE INTERIOR

WASHINGTON, 25

D.C.

REGISTERED

NO. 269

AUG 27 1956

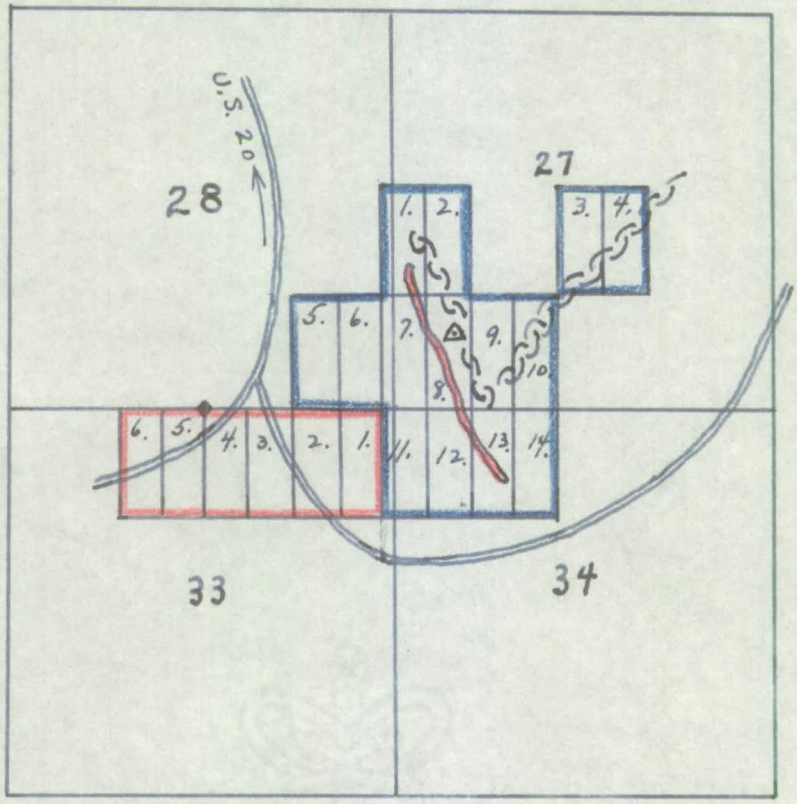
ANCHOR CLASP
H 90
MADE IN U.S.A.
AUG 24 1956

WASHINGTON, D. C.
AUG 22 1956
REG. DIV.

ONTARIO
AUG 24 1956

5 (b) (con)

T. 18 S., R. 45 E., W.P.M.



Main Cinnabar area of surface mineralization

Ontario group of claims

Pearl group of claims

Highest point, Vale Butte