DMA Form 1

DEFENSE MINERALS ADMINISTRATION
Control Slip

CONTROLLED DOCUMENT

DMA Docket No. 1907

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

An Exploration

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

Routing Slip

To: Mr. Bausch	Date	8/2/51
To: ~~Mr Bell~~ 1349	Date	/ /
To: Mr McKnight	Date	8/9/51
To: ~~Mr Bausch~~	Date	9-4-51
To: ~~Adm Mang. Div~~ Lyon	Date	9-7-51
To: Reports and Records	Date	SEP 10 1951
To:	Date	
To:	Date	
To:	Date	
To:	Date	
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DO NOT DETACH

CONTROLLED DOCUMENT

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

SEP 10 1951

A.E.C.

To: Administrative Management Division

Through: Director, Supply Division

From: Minor and Rare Metals Branch

Subject: Illinois River Placer - Josephine County, Oregon
Platinum - DMA docket 1907

Under date of July 27, 1951 Mr. Edward R. Hanslip, Jr., 337 Melrose Avenue, Kenilworth, Illinois submitted the subject application for an exploration project in the sum of $15,005.00.

Attached hereto find letter of even date addressed to applicant denying the application because of lack of geologic evidence of the probability of making a significant discovery. Reviewers for the DMA and USGS concur in this opinion.

We herewith return the complete docket, comprised as follows:

(a) Letter from Edward R. Hanslip, Jr. with four copies of application, government survey; estimate of the amount of work, costs, etc., of the property and map.

(b) Letter from James E. Bell of August 8, 1951.

(c) Memo from E. T. McKnight - not dated.

Weston Bourret

Weston Bourret, Chief
Minor and Rare Metals Branch

Approved:

Tom Lyon

Director, Supply Division

12/10/51

Edward R. Hanship, Jr., Chicago. Superior 7-7448
re DMA ~~[illegible]~~ 1907

See Lyon letter to him, denying, but offering to consider new application.

Has had engineer make superficial exam. Will you still look with favor on appl'n if they can give assay with reasonable chances of recoveries? If so, they will be willing to go ahead with exam. and search. Otherwise will let it go until after 1st of year.

Rec. note.

I talked with Mr. Hanship by phone, advising him that applications may still be received for platinum exploration projects. Advised him to provide evidence of presence of Pt as a basis for project. Phoned "Collect"
EBG. 12/12/51

FILE COPY
SURNAME

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

Gordon
Bourret
Bell
McKnight

SEP 10 1951

To: Administrative Management Division

Through: Director, Supply Division

From: Minor and Rare Metals Branch

Subject: Illinois River Placer - Josephine County, Oregon
Platinum - DMA docket 1907

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We herewith return the complete docket, comprised as follows:

(a) Letter from Edward R. Hanslip, Jr. with four copies of application, government survey; estimate of the amount of work, costs, etc., of the property and map.

(b) Letter from James E. Bell of August 6, 1951.

(c) Memo from E. T. McKnight - not dated.

Weston Bourret BJ 9/10

Weston Bourret, Chief
Minor and Rare Metals Branch

Approved:

Tom Lyon

Director, Supply Division

EGordon/ch 9-5-51
cc: Adm. Reading File
Reports and Records
Lyon
Bourret
Bell
McKnight - USGS
Field Team II
DMA docket file

FILE COPY
SURNAME:

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

Gordon
Bourret
Bell
McKnight

Q. E. C.

SEP 10 1951

Mr. Edward R. Hanslip, Jr.
337 Melrose Avenue
Kenilworth, Illinois

Re: Illinois River Placer
Josephine County, Oregon
Platinum - DMA docket 1907

Dear Mr. Hanslip:

Your application dated July 27, 1951, DMA docket 1907, for an exploration project in the sum of $15,005.00 has been carefully reviewed by the Minor and Rare Metals Branch of the Supply Division.

We regret to advise that your application must be denied at this time because of lack of assay data and insufficient other evidence submitted to substantiate even the indicated presence of platinum in sufficient quantity to justify the project.

Should you later obtain precise evidence of the presence of appreciable or modest values in platinum group minerals, we would be glad to consider a new application.

Yours very truly,

BJ 9/10

Tom Lyon

Tom Lyon, Director
Supply Division

EGordon/ch 9-5-51
cc: Adm. Reading File
Reports and Records
Lyon
Bourret
Bell
McKnight - USGS
Field Team II
DMA docket file

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

SEP 10 1951

Mr. Edward R. Hardley, Jr.
237 Melrose Avenue
Fairlawn, Illinois

Re: Illinois Gem Placer
Josephine County, Oregon
Platinum - DMA docket 1907

Dear Mr. Hardley:

Your application dated July 27, 1951, DMA docket 1907, for an exploration project in the sum of $15,000.00 has been carefully reviewed by the Minor and Rare Metals Branch of the Supply Division.

We regret to advise that your application must be denied at this time because of lack of survey data and insufficient other evidence submitted to substantiate even the indicated presence of platinum in sufficient quantity to justify the project.

Should you later obtain precise evidence of the presence of appreciable or potential values in platinum group minerals, we would be glad to consider a new application.

Yours very truly,

Tom Lyon

Tom Lyon, Director
Supply Division

EGordon/ch 9-5-51
cc: Adm. Reading File
Reports and Records
Lyon
Bourret
Bell
McKnight - USGS
Field Team II
DMA docket file

gal stropped
R. & R.

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

SEP 10 1951

To: Administrative Management Division

Through: Director, Supply Division

From: Minor and Rare Metals Branch

Subject: Illinois River Placer - Josephine County, Oregon
Minerals - DMA docket 1907

Under date of July 27, 1951 Mr. Edward F. Hanlin, Jr., 237 Indiana Avenue, Peoria, Illinois submitted an docket application for an exploration project in the sum of $15,000.00.

Attached hereto find letter of even date addressed to applicant further the application because of lack of geologic evidence of the great likelihood of making a significant discovery. Developers for DMA and RFC appear to be in our opinion.

To provide with the complete docket, completed as follows:

(a) Letter from Edward F. Hanlin, Jr. with four copies of application, government surveys estimate of the amount of work, costs, etc., of the property and map.

(b) Letter from James E. Kell of August 6, 1951.

(c) Note from L. F. McKnight - not checked.

Weston Bourret

Weston Bourret, Chief
Minor and Rare Metals Branch

Approved:

ECordon/ch 9-5-51
cc: Adm. Reading File
Reports and Records
Lyon
Bourret
Kell
McKnight - USGS
Field Team II
DMA docket file

Jon Lyon
Director, Supply Division

not stripped in R.&R.

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

August 8, 1951

Memorandum

To: Mr. Weston G. Bourret, Chief, Minor and Rare Metals Branch, DMA

From: Mr. James E. Bell, Rare and Precious Metals Branch, Bureau of Mines

Subject: DMA-1907. Exploration Loan - Florence Placer, Adolph Brown Placer - Platinum

The Bureau of Mines does not have specific information on the subject properties.

General data on the platinum production of Oregon are as follows: Crude platinum is recovered as a byproduct in gold placer mining operations. The recorded yield from 1911 to the present is approximately 1,800 ounces, with a maximum of 128 ounces in 1934. Only a part of this platinum was produced in the area or County under consideration.

The statement in Exhibit 4, paragraph (b) is greatly in error. Only 83 ounces of crude platinum were produced in Oregon in 1937-38, compared with 1,938 ounces in California.

It seems probable the properties in question could produce a small quantity of byproduct crude platinum, but they would have to rely on gold production for any successful operation.

got stripped in R. & R.

JAMES E. BELL

JEBell:km

Copy to: J. E. Bell
L. B. Moon
Administrator's Reading File
L. F. Strobel
Tom Lyon
Rare & Precious Metals Branch
Files

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

August 8, 1951

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To: Mr. Weston G. Bourret, Chief, Minor and Rare Metals Branch, DMA

From: Mr. James E. Bell, Rare and Precious Metals Branch, Bureau of Mines

Subject: DMA-1907. Exploration Loan - Florence Placer, Adolph Brown Placer - Platinum

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It seems probable the properties in question could produce a small quantity of byproduct crude platinum, but they would have to rely on gold production for any successful operation.

James E. Bell

JAMES E. BELL

FILE COPY
Surname:

Bell
Dedrick

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

August 8, 1951

Memorandum

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Subject: DMA-1907. Exploration Loan - Florence Placer, Adolph Brown Placer - Platinum

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It seems probable the properties in question could produce a small quantity of byproduct crude platinum, but they would have to rely on gold production for any successful operation.

not stripped in R-R.

JAMES E. BELL

JEBell:km

Copy to: J. E. Bell
L. B. Moon
Administrator's Reading File
L. F. Strobel
Tom Lyon
Rare & Precious Metals Branch
Files

Memo to Mr Bourret
From E.T. McKnight
Subject: DMA 1907, Edward R Hamlin, Jr.; gold-platinum placer exploration on Illinois River, Josephine Co., Ore.

We have no information on this property. It is in a general area that contains a little gold or platinum as a by-product of placer gold. If the gold hasn't been economic, it seems doubtful if any significant production of platinum can be expected from this proposed exploration. Evidently applicant proposes to run the gravel through his riffles for 10 weeks or so, to see what he can get, taking his gravel from various pits by power shovel and dragline.

Your guess is as good as mine as to whether this is a good platinum project. I would be inclined to say that the chances of making any significant discovery aren't worth the cost. Applicant says there has been gold mining on a small portion of this property for over a hundred years, and if the recovery method has been riffles, I can't see why there should be any ignorance about the Pt content.

August 6, 1951

Mr. Edward R. Hanslip, Jr.
337 Melrose Avenue
Kenilworth, Illinois

Subject: DMA-1907
Re: Exploration Loan -
Florence Placer, Adolph
Brown Placer

My dear Mr. Hanslip:

Receipt is acknowledged of your application and attachments of July 27, 1951 for an exploration loan under the Defense Production Act of 1950.

The application was assigned Docket Number DMA-1907 and referred to Mr. Weston Bourret, Chief, Minor and Rare Metals Branch on August 2, 1951.

In any future correspondence relating to your application, kindly refer to DMA-1907.

Sincerely yours,

SIGNED JBB 8/6

Robert E. Adams
Chief, Reports & Records Unit

R. E. Adams:jc
cc: Bourret
Lyon
✓Reports & Records File

Form MF-103
(April 1951)

U. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

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

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

DO NOT FILL IN THIS BLOCK

Docket No. DMA-1907

Date received 8/1/51

Participation

[illegible]

Name and address of applicant

Date [illegible]

FILL IN THIS BLOCK

Date of application [illegible]

Estimated cost [illegible]

Mineral or metal [illegible]

Percentage of Government participation [illegible]

Location of mine [illegible]

Date of filing MF-100

DMA Docket Number, if available

INSTRUCTIONS

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

THE APPLICANT

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

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

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

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

16—64067-1

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property.

    (*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

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

*11. State the present and former names of the property, if any.

*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads.

*13. State source and quantity of water available for operations and its sufficiency at all seasons. State amount of power to be used, rate per hour or other cost, and source.

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work.

15. State in detail how the ore could be shipped and how and where milled.

*16. History:

    (*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.

    (*b*) State briefly the known history and production of adjoining and neighboring properties.

    (*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

*17. Production:

    (*a*) If mine is in production, furnish the following information:

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

*18. Ore or mineral reserves: (If property is or has been operating.)

    (*a*) Describe the ore or mineral deposits briefly.

    (*b*) Submit available maps and assay data.

    (*c*) Give estimated tonnage and grade of each class of ore reserves.

19. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

THE EXPLORATION

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?

21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.

    NOTE.—The Government will not participate in a project that will require more than 2 years to complete.

22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data.

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:

    (*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.

    (*b*) Supervisors, by numbers and positions, with salaries of each.

    (*c*) Cost of necessary repairs to existing facilities, structures, and buildings.

    (*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.

    (*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.

    (*f*) Cost of rental for equipment which the operator proposes to rent.

    (*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.

    (*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.

    (*i*) Cost of power, water, utilities, and any other items not provided for above.

24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

(Name of company)	By Edward C. Hanly Jr. (Signature of authorized official)
July 27 1951 (Date)	Owner (Title)

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

*Same as footnote on page 1.

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

EXHIBIT 1.

Item #4. (a) The applicant is 46 years old and has had some 28 years of general business experience.

(b) The individual who will manage the project is a mining engineer with 40 years of background and experience, the bulk of it in the proximity of the owner's property.

EXHIBIT 3.

Item #12. Property is located two miles from Kirby, Oregon, and two miles off Federal Highway 99 on good, all-year-round forest road, 22 miles from Southern Pacific Railroad at Grants Pass, Oregon.

EXHIBIT 4.

Item #16. (a) Little is known of previous exploration activities, but there has been placer gold mining on a small portion of it for over a hundred years. The high cost of labor was the original cause for suspension, and illness on the part of the former owner prevented production.

(b) According to an article in one of the local papers some time ago, Mr. Nixon of Oregon, indicated that the Illinois River, on which this property is located, produced one half of all the platinum mined in the United States during 1937-38.

Edward R. Hanslip, Jr.
337 Melrose Avenue, Kenilworth, Ill.

EXHIBIT 5.

A REPORT and ESTIMATES covering EXPLORATION on PLACER PROPERTY of EDWARD R. HANSLIP, JR.
in JOSEPHINE COUNTY, OREGON
for attachment to Form MF-103

THE EXPLORATION

20. Purpose — Platinum, irridium group minerals contained within gold placer gravels of this property.

21. Proposed Work — It is proposed that exploration and tests of bench and stream gravels be conducted to determine estimated values of platinum minerals contained in these deposits and to determine most efficient methods of recovery.

These operations would cover a period of 4 months. The work should be scheduled to start by October for best seasonal operation.

22. Geology — The contributing minerals in placer gravels are derived from all rock formations and mineral zones typical of Josephine County as a whole, together with those from higher gravel channels. Rock formations of the Illinois drainage include Dothan sedimenterics, intrusive diorite, serpentine and Jurassic greenstone. The Galice formation lies on the West slopes of the Illinois Valley.

Bedrock underlying the placer area to be explored is serpentine. Concentrates show many hematite pebbles which contain gold recoverable by grinding.

23. Estimated Costs of Exploration

It is proposed to test the ground for values of platinum group minerals and to determine suitable methods of operation and recovery. Following is the tabulation of items and costs involved.

a)	Power shovel and drag line operator	400 hours	@ 2.25	$ 900.00	
	2 Truck drivers	600 "	@ 1.50	900.00	
	1 Mechanic	100 "	@ 2.00	200.00	
	1 Carpenter	160 "	@ 2.00	320.00	
	1 Mill and Pump Man	400 "	@ 2.00	800.00	
	1 Bulldozer operator	60 "	@ 2.00	120.00	
	3 Laborers total	600 "	@ 1.25	750.00	
					$ 3,990.00
b)	1 Supervisor Engineer	4 months	@ 600.00	2,400.00	
	1 Assistant	4 "	@ 350.00	1,400.00	
					$ 3,800.00
c)	Repairs for existing buildings and flumes				1,000.00
d)	Tool house			200.00	
	Water supply line, domestic water			100.00	
e)	Pan American jog			600.00	300.00
	1 used 3 yd. dump truck			750.00	1,350.00

Edward R. Hanslip, Jr.
337 Melrose Avenue, Kenilworth, Ill.

f) Rentals:

3/4 yd. Power shovel and drag line				
rent	2 months	@ 600.00	$1,200.00	
1 3 cu. yd. dump truck 30 days		@ 20.00	600.00	
1 RD-S Caterpillar bulldozer	60 hours	@ 8.00	480.00	
1 105 C. F. Air Compressor	2 months	140.00	280.00	
				$ 2,560.00

g) Owner furnishes:

1 3/4 ton pick-up	3 months	@ 50.00	150.00	
1 3" pump and engine	3 "	@ 50.00	150.00	
1 S 55 jackhammer	2 "	@ 50.00	100.00	
				400.00

h) Supplies:

Drill steel		50.00		
Steel for riffles		25.00		
				75.00

i)

Assays:			100.00	
Camp furnishings			200.00	
Small tools			150.00	
Gasoline and oil			500.00	
Cable			50.00	
300 feet of 3" pipe		@ .60	180.00	
Powder, caps and fuse			100.00	
Lumber and hardware			250.00	
				1,530.00
	Estimated total cost			$15,005.00

24. Time Schedule of Proposed Work

1st Month: Prepare camp water lines and access roads (bulldozer)
Set up test Plant & Bunker
Dig tests pits to determine Location of test operations

2nd Month: Bring in shovel and trucks
Crosscut gravel bars by trenching with shovel and drag line
Load trucks and haul material to bunker for test running
Estimated run of 3000 cu. yds.

3rd Month: Continue as in 2nd month and complete exploration
Estimated run 4000 cu. yds.

4th Month: Dependent on results of tests as to disposition of rental equipment.

Edward R. Hanslip, Jr.
337 Melrose Ave., Kenilworth, Ill.

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

AIR MAIL

July 27, 1951

Mr. Edward L. Tenelia, Jr.
127 Melrose Avenue
Wenilworth, Illinois

Dear Mr. Tenelia:

In reply to your letter of July 19, 1951, I am pleased to enclose herewith Mineral Order 5 entitled, "Regulations Governing Government Aid in Defense Exploration Projects." I am also enclosing 5 copies of Form DM-1 for use in applying for exploration assistance.

The Defense Minerals Administration will receive applications until July 31; as the act expires on that day it is impossible to predict beyond that time.

I would suggest that you prepare as detailed a report as possible from available information along the lines set forth on questionnaire form DM-302. In the event you do not have the necessary time to prepare detailed maps you may submit this information at a later date.

Yours very truly,

Weston Bourret

Weston Bourret, Chief
Minerals Exploration Branch

Enclosures
Bourret/bf
cc: Adm. Reading File
Reports & Records
Lyon
Bourret
Files

Form MF-103
(April 1951)

U. S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

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

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

DO NOT FILL IN THIS BLOCK

Docket No. DMA-1907

Date received 8/1/51

Participation

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
[illegible]
[illegible] 1951
[illegible]
[illegible]

DAVID D. DUNN, JR.
337 Melrose Avenue
Kenilworth, Illinois

Name and address of applicant

Date July 27, 1951

FILL IN THIS BLOCK

Date of application July 27, 1951

Estimated cost $15,000.00

Mineral or metal Platinum

Percentage of Government participation 90%

Location of mine Illinois River

Josephine County, Oregon.

Date of filing MF-100

DMA Docket Number, if available

INSTRUCTIONS

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

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation? Individual.

*2. If a partnership, state names and addresses of partners. ---

*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders. ---

*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project. See attached Exhibit 1.

*5. Are you the owner or the lessee of the property? Owner.

6. If owner, state what claims, liens, or encumbrances, if any, are against the property. None.

7. If lessee, attach a copy of the lease and state if it is in good standing. ---

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

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement. ---

9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)? $2500.00

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

16—64067-1

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property. See accompanying map and government survey, Exhibit 2.

(*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

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

*11. State the present and former names of the property, if any. Florence Placer and Molsh Brown Placer, Township 3. 30 South, Range 1. 0 West, M.D.B.&M.

*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads. See Exhibit 3. Good Highway.

*13. State source and quantity of water available for operations and its sufficiency at all seasons. Illinois River runs through property.
State amount of power to be used, rate per hour or other cost, and source.

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work. No cabins that will be used for plant and equipment.

15. State in detail how the ore could be shipped and how and where milled. Mineral can be shipped to San Francisco.

*16. History: See Exhibit 4.

(*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.

(*b*) State briefly the known history and production of adjoining and neighboring properties.

(*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

*17. Production:

(*a*) If mine is in production, furnish the following information:

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

*18. Ore or mineral reserves: (If property is or has been operating.)

(*a*) Describe the ore or mineral deposits briefly.

(*b*) Submit available maps and assay data.

(*c*) Give estimated tonnage and grade of each class of ore reserves.

19. State any conditions or circumstances regarding the property not sufficiently brought out by the foregoing questions.

THE EXPLORATION See Exhibit 5.

20. For what mineral or minerals and for what types of deposits and ores will the exploration be conducted?

21. Describe briefly, but concisely, the proposed work and the estimated time required to complete it.

NOTE.—The Government will not participate in a project that will require more than 2 years to complete.

22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data.

THE REQUIREMENTS AND COSTS

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:

(*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.

(*b*) Supervisors, by numbers and positions, with salaries of each.

(*c*) Cost of necessary repairs to existing facilities, structures, and buildings.

(*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.

(*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.

(*f*) Cost of rental for equipment which the operator proposes to rent.

(*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.

(*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.

(*i*) Cost of power, water, utilities, and any other items not provided for above.

24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

(Name of company)

By Edward R. Hamilton Jr.
(Signature of authorized official)

July 27 1957
(Date)

Owner
(Title)

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

*Same as footnote on page 1.

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

EXHIBIT 1.

Item #4. (a) The applicant is 46 years old and has had some 28 years of general business experience.

(b) The individual who will manage the project is a mining engineer with 40 years of background and experience, the bulk of it in the proximity of the owner's property.

EXHIBIT 3.

Item #12. Property is located two miles from Kirby, Oregon, and two miles off Redwood Highway 99 on good, all-year-round forest road, 22 miles from Southern Pacific Railroad at Grants Pass, Oregon.

EXHIBIT 4.

Item #16. (a) Little is known of previous exploration activities, but there has been placer gold mining on a small portion of it for over a hundred years. The high cost of labor was the original cause for suspension, and illness on the part of the former owner prevented production.

(b) According to an article in one of the local papers some time ago, Mr. Hixon of Oregon, indicated that the Illinois River, on which this property is located, produced one half of all the platinum mined in the United States during 1937-38.

Edward R. Hanslip, Jr.
337 Melrose Avenue, Kenilworth, Ill.

EXHIBIT 5.

A REPORT and ESTIMATE covering EXPLORATION on PLACER PROPERTY of DAVID E. DAILEY, JR.
in JOSEPHINE COUNTY, OREGON
for attachment to Form RF-103

THE EXPLORATION

20. Purpose — Platinum, iridium group minerals contained within gold placer gravels of this property.

21. Proposed Work: — It is proposed that exploration and tests of bench and stream gravels be conducted to determine estimated values of platinum minerals contained in these deposits and to determine most efficient methods of recovery.

These operations would cover a period of 4 months. The unit should be scheduled to start by October for best seasonal operation.

22. Geology — The contributing minerals in placer gravels are derived from all rock formations and mineral zones typical of Josephine County as a whole, together with those from higher gravel channels. Rock formations of the Illinois drainage include Rogue conglomerates, intrusive diorite, serpentine and furnace greenstone. The Galice formation lies on the west slopes of the Illinois Valley.

Bedrock underlying the placer area to be explored is serpentine. Concentrates show many beautiful pebbles which contain gold recoverable by grinding.

23. Estimated Costs of Exploration

It is proposed to test the ground for values of platinum group minerals and to determine suitable methods of operation and recovery. Following is the tabulation of items and costs involved.

a)	Power shovel and drag line operator				
		400 hours	@ 2.25	$ 900.00	
	2 truck drivers	600 "	@ 1.50	900.00	
	1 Mechanic	100 "	@ 2.00	200.00	
	1 Carpenter	160 "	@ 2.00	320.00	
	1 Mill and Pump Man	400 "	@ 2.00	800.00	
	1 Bulldozer operator	60 "	@ 2.00	120.00	
	3 Laborers total	600 "	@ 1.25	750.00	
					$ 3,990.00
b)	1 Supervisor Engineer	4 months	@ 600.00	2,400.00	
	1 Accountant	4 "	@ 350.00	1,400.00	
					$ 3,800.00
c)	Repairs for existing buildings and Plants				1,000.00
d)	Tool house			200.00	
	Water supply line, domestic water			100.00	
e)	Pan American jig			500.00	800.00
	1 used 3 yd. dump truck			750.00	1,250.00

Edward C. Ronald, Jr.
337 Kalmoo Avenue, Coalinga, Ill.

f) Rentals:

3/4 yd. Power shovel and drag line rent	2 months	@ 600.00	2,200.00	
1 3 cu. yd. dump truck 30 days		@ 20.00	600.00	
1 D-8 Caterpillar bulldozer	60 hours	@ 8.00	480.00	
1 105 C. F. Air Compressor	2 months	210.00	420.00	
				@ 2,500.00

g) Camp furnishings:

1 3/4 ton pickup	2 months	@ 50.00	100.00	
1 3" pump and engine	3 "	@ 50.00	150.00	
1 @ 55 jackhammer	2 "	@ 50.00	100.00	
				400.00

h) Supplies:

Drill steel	40.00	
Steel for pickles	35.00	
		75.00

i) Assays:

Camp furnishings		100.00	
Small tools		200.00	
Gasoline and oil		150.00	
Cable		500.00	
300 feet of 3" pipe		40.00	
Powder, caps and fuse	@ .60	180.00	
Lumber and hardware		300.00	
		250.00	
			1,550.00

Estimated total cost 15,005.00

d. Mine Schedule of Proposed Work

1st Month: Prepare camp water lines and access roads (bulldozer)
Set up test plant & Dunlap
Dig waste pits to determine location of test operations

2nd Month: Bring in shovel and trucks
Construct gravel bars by bronzing with shovel and drag line
Load trucks and haul material to bunker for test running
Estimated run of 3000 cu. yds.

3rd Month: Continue as in 2nd month and complete exploration
Estimated run 1000 cu. yds.

4th Month: Depending on results of tests as to disposition of rental equipment.

Edward R. Hamlin, Jr.
307 Hobson Ave., Kenilworth, Ill.

337 Melrose Avenue
Kenilworth, Illinois
July 27, 1951

Mr. Landon F. Strobel
Executive Secretary
Defense Minerals Administration
Interior Building
Washington 25, D. C.

Dear Mr. Strobel:

I have attached four copies of the applicate for aid for an exploration project, pursuant to Mineral Order 5 under the Defense Production Act of 1950. Attached also is a government survey of the property and an estimate of the amount of work, costs, and time involved in determining the extent of platinum and irridium group minerals on this property.

Upon receipt of this information, I would be pleased to have you advise me as to whether the act has been extended and if, since this was mailed previous to July 31, my application can receive consideration from your department.

It is believed that all essential information that you require is covered herein. If not, the writer would be pleased to have you advise what else would be needed so that it could be supplied immediately.

Thanking you for your very kind cooperation, I am,

Sincerely,

Edward R. Hanslip, Jr.

Edward R. Hanslip, Jr.

ERH,Jr/df
Telephone: Kenilworth 2045

Enclosures.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
Library
AUG 1 1951
Executive Secretary

Form MF-103
(April 1951)

Original

U.S. DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

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

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

DO NOT FILL IN THIS BLOCK

Docket No. DMA-1907

Date received 8/1/51

Participation

Original

EDWARD R. HANSLIP, JR.
337 Melrose Avenue
Kenilworth, Illinois

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
AUG 1951
EXECUTIVE SECRETARY
Executive Secretary

Name and address of applicant

Date July 27, 1951

FILL IN THIS BLOCK

Date of application July 27, 1951

Estimated cost $15,005.00

Mineral or metal Platinum

Percentage of Government participation 90%

Location of mine Illinois River

Josephine County, Oregon.

Date of filing MF-100

DMA Docket Number, if available

INSTRUCTIONS

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

THE APPLICANT

*1. Is applicant an individual, partnership, or corporation? Individual.

*2. If a partnership, state names and addresses of partners. ---

*3. If a corporation, state names and addresses of officers, directors, and five largest stockholders. ---

*4. Describe the mining and general business experience of (*a*) the applicant, and (*b*) the person or persons who will manage the project. See attached Exhibit 1.

*5. Are you the owner or the lessee of the property? Owner.

6. If owner, state what claims, liens, or encumbrances, if any, are against the property. None.

7. If lessee, attach a copy of the lease and state if it is in good standing. ---

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

8. Furnish current financial statement, showing assets and liabilities, and a profit and loss statement. ---

9. How much money is applicant prepared to invest in proposed project? Is it sufficient to pay your part of the cost of the project as detailed in question 23 of this application form, in accordance with the regulations on Government participation (Section 9 of Mineral Order 5)? $2500.00

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

16—64067-1

THE PROPERTY

10. (*a*) Give a description of the real property that will be in any way involved in the exploration project, including any existing mine or operating property. See attached map and government survey, Exhibit 2.

(*b*) Give the legal description of the exact parcel, plot, or area upon which the exploration is to be conducted.

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

*11. State the present and former names of the property, if any. Florence Placer and Adolph Brown Placer,

*12. State, in detail, the location of the property with reference to towns, railroads, roads, shipping points, including distances and directions and kinds and conditions of roads. Township No. 38 South, Range No. 8 West, Willamette Meridian. See Exhibit 3.

*13. State source and quantity of water available for operations and its sufficiency at all seasons. State amount of power to be used, rate per hour or other cost, and source. Illinois River runs through property.

*14. Describe any existing useable facilities, equipment, buildings, or structure now on the property that will be devoted to the exploration work. Two cabins that will be used for plant and equipment.

15. State in detail how the ore could be shipped and how and where milled. ~~Mineral~~ ORE can be shipped to San Francisco.

*16. History: see Exhibit 4.

(*a*) Give a statement, as complete as possible, of previous exploration, development, operation, and production of property, with reasons for any past suspensions of operations.

(*b*) State briefly the known history and production of adjoining and neighboring properties.

(*c*) Furnish any available (private) reports that may apply to this application, including results of mine examinations, recommended exploration and development, and metallurgical investigations.

*17. Production:

(*a*) If mine is in production, furnish the following information:

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

*18. Ore or mineral reserves: (If property is or has been operating.)

(*a*) Describe the ore or mineral deposits briefly.

(*b*) Submit available maps and assay data.

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THE EXPLORATION See Exhibit 5.

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NOTE.—The Government will not participate in a project that will require more than 2 years to complete.

22. Furnish statement of the geological basis of the project with particular emphasis on factors leading the operator to expect the finding of commercial ore bodies. This statement should be accompanied by supporting maps such as geological maps, maps of the proposed openings and assay maps, sample lists, and other pertinent data.

THE REQUIREMENTS AND COSTS See Exh-5

23. Tabulate in the form of an itemized statement with a sum for each item the estimated requirements and costs of the project so that the total will give the estimated cost of the project in which the Government will participate, as follows:

(*a*) Labor, by numbers and classes (miners, muckers, millmen, etc.), with wages of each.

(*b*) Supervisors, by numbers and positions, with salaries of each.

(*c*) Cost of necessary repairs to existing facilities, structures, and buildings.

(*d*) Cost of necessary installation or construction of additional facilities, structures, and buildings.

(*e*) Cost of items of equipment, not now owned by the applicant which must be purchased for operations at a cost of $50 or more each.

(*f*) Cost of rental for equipment which the operator proposes to rent.

(*g*) Rental value of items of equipment which the operator now owns and which will be devoted to the work.

(*h*) Cost of materials and supplies, including items of equipment costing less than $50 each.

(*i*) Cost of power, water, utilities, and any other items not provided for above.

24. Furnish a time schedule of the project, stated in terms of months after project is approved, showing progress expected to be accomplished and the money expected to be spent.

CERTIFICATION

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this form and accompanying papers is correct and complete to the best of their knowledge and belief.

(Name of company)	By Edward R. Hanolip Jr. (Signature of authorized official)
July 27 1951 (Date)	Owner (Title)

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

*Same as footnote on page 1.

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

EXHIBIT 1.

Item #4. (a) The applicant is 46 years old and has had some 28 years of general business experience.

(b) The individual who will manage the project is a mining engineer with 40 years of background and experience, the bulk of it in the proximity of the owner's property.

EXHIBIT 3.

Item #12. Property is located two miles from Kirby, Oregon, and two miles off Redwood highway 99 on good, all-year-round forest road, 22 miles from Southern Pacific Railroad at Grants Pass, Oregon.

EXHIBIT 4.

Item #16. (a) Little is known of previous exploration activities, but there has been placer gold mining on a small portion of it for over a hundred years. The high cost of labor was the original cause for suspension, and illness on the part of the former owner prevented production.

(b) According to an article in one of the local papers some time ago, Mr. Nixon of Oregon, indicated that the Illinois River, on which this property is located, produced one half of all the platinum mined in the United States during 1937-38.

Edward R. Hanslip, Jr.
337 Melrose Avenue, Kenilworth, Ill.

EXHIBIT 5.

A REPORT and ESTIMATES covering EXPLORATION on PLACER PROPERTY of EDWARD R. HANSLIP, JR. in JOSEPHINE COUNTY, OREGON for attachment to Form MF-103

THE EXPLORATION

20. Purpose — Platinum, irridium group minerals contained within gold placer gravels of this property.

21. Proposed Work — It is proposed that exploration and tests of bench and stream gravels be conducted to determine estimated values of platinum minerals contained in these deposits and to determine most efficient methods of recovery.

These operations would cover a period of 4 months. The work should be scheduled to start by October for best seasonal operation.

22. Geology — The contributing minerals in placer gravels are derived from all rock formations and mineral zones typical of Josephine County as a whole, together with those from higher gravel channels. Rock formations of the Illinois drainage include Dothan sedimenteries, intrusive diorite, serpentine and Jurassic greenstone. The Galice formation lies on the West slopes of the Illinois Valley.

Bedrock underlying the placer area to be explored is serpentine. Concentrates show many hematite pebbles which contain gold recoverable by grinding.

23. Estimated Costs of Exploration

It is proposed to test the ground for values of platinum group minerals and to determine suitable methods of operation and recovery. Following is the tabulation of items and costs involved.

a)	Power shovel and drag line operator	400 hours	@ 2.25	$ 900.00	
	2 Truck drivers	600 "	@ 1.50	900.00	
	1 Mechanic	100 "	@ 2.00	200.00	
	1 Carpenter	160 "	@ 2.00	320.00	
	1 Mill and Pump Man	400 "	@ 2.00	800.00	
	1 Bulldozer operator	60 "	@ 2.00	120.00	
	3 Laborers total	600 "	@ 1.25	750.00	
					$ 3,990.00
b)	1 Supervisor Engineer	4 months	@ 600.00	2,400.00	
	1 Assistant	4 "	@ 350.00	1,400.00	
					$ 3,800.00
c)	Repairs for existing buildings and flumes				1,000.00
d)	Tool house			200.00	
	Water supply line, domestic water			100.00	
					300.00
e)	Pan American jog			600.00	
	1 used 3 yd. dump truck			750.00	1,350.00

Edward R. Hanslip, Jr.
337 Melrose Avenue, Kenilworth, Ill.

f) Rentals:

3/4 yd. Power shovel and drag line	rent 2 months	@ 600.00	$1,200.00	
1 3 cu. yd. dump truck 30 days		@ 20.00	600.00	
1 RD-S Caterpillar bulldozer	60 hours	@ 8.00	480.00	
1 105 C. F. Air Compressor	2 months	140.00	280.00	
				$ 2,560.00

g) Owner furnishes:

1 3/4 ton pick-up	3 months	@ 50.00	150.00	
1 3" pump and engine	3 "	@ 50.00	150.00	
1 S 55 jackhammer	2 "	@ 50.00	100.00	
				400.00

h) Supplies:

Drill steel		50.00		
Steel for riffles		25.00		
				75.00

i) Assays:

Assays:			100.00	
Camp furnishings			200.00	
Small tools			150.00	
Gasoline and oil			500.00	
Cable			50.00	
300 feet of 3" pipe		@ .60	180.00	
Powder, caps and fuse			100.00	
Lumber and hardware			250.00	
				1,530.00
	Estimated total cost			$15,005.00

24. Time Schedule of Proposed Work

1st Month: Prepare camp water lines and access roads (bulldozer)
Set up test Plant & Bunker
Dig tests pits to determine Location of test operations

2nd Month: Bring in shovel and trucks
Crosscut gravel bars by trenching with shovel and drag line
Load trucks and haul material to bunker for test running
Estimated run of 3000 cu. yds.

3rd Month: Continue as in 2nd month and complete exploration
Estimated run 4000 cu. yds.

4th Month: Dependent on results of tests as to disposition of rental equipment.

Edward R. Hanslip, Jr.
337 Melrose Ave., Kenilworth, Ill.

C
O
P
Y

Exhibit 2

The above property now owned by

Edward R. Hanslip, Jr.
337 Melrose Avenue
Kenilworth, Illinois.

Mineral Survey No. 334.

Field Notes

of the survey of the mining claim of

Geo. W. Ray and Co.

consisting of

the Florence Placer and the Adolph Brown Placer

known as

the RAY CONSOLIDATED PLACER MINE

Township No. 38 South, Range No. 8 West,

Willamette Meridian,

Oregon.

C
O
P
Y

Survey 334, Florence Placer.

Feet. Beginning at Cor. No. 1, a sawed pine post, 4 ft. long, 4 ins. sq., set 18 ins. in the ground with mound of stone, scribed 1 - 334 whence

A cedar, 10 ins. dia., bears S. 52°20'E., 59.5 ft.

A y. pine, 20 ins. dia., bears S.45°30'E., 164.7 ft. each blazed and scribed B T 1 - 334.

The location cor. bears S.68°15'E., 76.7 ft.

The ¼ sec. cor. bet. secs. 28 and 29, T. 38 S., R. 8 W., bears N. 48°27'W., 1752 ft. (The section corner is inaccessible on account of high water in the Illinois River)

(I make this corner No. 1 because it is one of the cors. at the end of the claim and will be better understood that way.)

Thence N. 68°15'W.

Var. 18°E.

330 Summit on line, enter flat, bears SW.

1000 Leave flat.

1412.3 Intersect line bet. secs. 28 and 29; the ¼ sec. cor., bears North 639 ft.-Calculated distance to sec. cor. is 2001 ft.; at present inaccessible on account of high water.

2500 Spur from the mountain, course SW.

2563.3 To cor. No. 2, identical with a cor. of the location.

A sawed pine post, 4 ft. long, 4 ins. sq., set 18 ins. in the ground in mound of stone, scribed 2-334,

A cedar, 16 ins. dia., bears S. 53°30'E., 13.8 ft.

A y. pine, 14 ins. dia., bears S. 10°E., 28.3 ft. each blazed and scribed B T. 2-334.

Edward R. Hanslip, Jr.
337 Melrose Ave.
Kenilworth, Illinois

Feet.

The $\frac{1}{4}$ sec. cor., bet. secs. 28 and 29, bears N. 78°45'E., 1092 ft.

Thence N. 52°23'W.

Var. 18°40'E.

4025 Ditch, 8 ft. wide, course NW.

4300 Cedar gulch, course S.

6543 Ditch, course West.

6943 To cor. No. 3, identical with a cor. of the location.

A sawed pine post, 4 ins. sq., 4 ft. long, set 18 ins. in the ground with a mound of stone, scribed 3-334;

A y. pine, 20 ins. dia., bears East, 56 ft. blazed and scribed B T 3-334.

Thence S. 21°45'E.

Var. 19°E.

130 Ditch, 7 ft. wide, course West.

330 To Cor. No. 4, identical with Cor. No. 1 of the Adolph Brown Placer.

660 To Cor. No. 5, identical with a corner of the location.

A sawed pine post, 4 ft. long, 4 ins. sq., set on bedrock with mound of stone, 4 ft. sq., 2 ft. high, on the right bank of the Illinois River.

Thence S. 52°23'E.

Var. 19°E.

246 Right bank of Illinois River, course West.

Ascertain the distance across the river on line as follows:

Cause a flag to be set up on line on left bank of the river. From station on right bank of river at 246 ft. I run S. 75°23'E., 400 ft. to a point from which the flag on the left bank, bears S. 22°E., then as the sine of the angle opposite the given side is to the sine of the angle opposite the required, so is the

Edward R. Hanslip, Jr.
337 Melrose Avenue
Kenilworth, Illinois

Feet.

given side to required side; Sin 30°23': Sin 53°23'::400:

635 feet, making the distance across the river on line 635 ft.

881 Left bank of Illinois River.

1800 Spur of a hill, facting NE.

2287 Left bank of Illinois River.

Ascertain the distance across the river on line as follows:

Leave flag at the station on left bank, then from a point on the line on the right bank the flag bears N,52°23'W., then run for a base line North, 70 ft. to a point from which the flag on left bank bears S. 85°W.; then as the sine of 43°37' is to the sine of 85°, so is 70 feet to the required side.

Sin 42°37': Sin 85°:: 70 : 103 feet the distance across the river on line, making

2390 To point on right bank of the river.

2940 Spur of hill, facing South.

3843 Point on the right bank of the Illinois River.

from this point, offset N. 37°37'E., 50 ft.; thence S. 52°23' on an offset line 450 ft.; thence S. 37°37'W., 50 ft. to a point on line on the right bank of the river, making the portion of the line in the river 450 ft.

4293 Leave right bank of river and ascend hill, sloping SW.

6578 Ditch, 8 ft. wide, course N. 30° W.

6943 To Cor. No. 6., a sawed pine post, 4 ft. long, 4 ins. sq., set 18 ins. in the ground with a mound of stone, scribed 6-334;

A cedar, 6 ins. dia., bears N. 18°30' E., 11 ft.

A pine, 18 ins. dia., bears S. 83°E., 29.2 ft.

each blazed and scribed B T 6-334.

Edward R. Hanslip, Jr.
337 Melrose Avenue
Kenilworth, Illinois

Cor. No. 2, bears N. 21°45'E., 660 ft.

Thence S. 68°15'E.

Var. 18°30'E.

Feet.

400 Ditch, 8 ft. wide, course West.

1414 Line bet. secs. 28 and 29; the $\frac{1}{4}$ sec. cor., bears North, 1350 ft.; estimated distance to sec. cor. (inaccessible on account of high water) 1290 ft.

2563.3 To Cor. No. 7.

A sawed pine post, 4 ft. long, 4 ins. sq., set 18 ins. in the ground with mound of stone, scribed 7-334;

Corner of the location, bears S. 68°15'E., 76.7 ft.

A pine, 12 ins. dia., bears S. 70°30'E., 145 ft.

blazed and scribed B T 7-334.

Thence N. 21°45'E.

Var. 18°15'E.

645 Ditch, 8 ft. wide, course West.

660 To Cor. No. 1, the place of beginning.

* *

Adolph Brown Placer

Beginning at Cor. No. 1 on line 3-5 of the Florence Placer and identical with Cor. No. 4 of that location and identical with a corner of this location.

A sawed pine post, 4 ft. long, 4 ins. sq., set 4 ft. in the ground in a mound of stone, scribed 1-334B on the west face and 4-334 on the south face;

A pine, 10 ins. dia., bears N. 55°E., 13.2 ft.

A pine, 6 ins. dia., bears S.44°W., 33.7 ft.

each blazed and scribed B T 1-334

The NE. cor. of sec. 28 bears S. 80°50'E., 6762 ft.

Sec. 29 is unsurveyed.

Thence N. 35°W.

Var. 19°E.

2640 To Cor. No. 2.

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Feet.

A sawed pine post, 4 ft. long, 4 ins. sq., set 18 ins. in the ground and scribed 2-334B;

A pine, 8 ins. dia., bears S. 56°E., 7.2 ft. blazed and scribed 2-334 B

The bull pine marked for a location corner, bears N. 35°W., 51 ft.

Thence S. 55° W.

Var. 19°E.

330 To Cor. No. 3.

A sawed pine post, 4 ft. long, 4 ins. sq., scribed 3-334 B;

A pine, 28 ins. dia., bears N. 38°W., 22.6 ft.
A pine, 28 ins. dia., bears S. 10°30'W., 35 ft.
both blazed and scribed 3-334 B.

Location cor. bears N. 35°W., 51 ft.

Thence S. 35° E.

Var. 20°E.

250 To edge of mining excavations, bears SW.

350 Flume and bedrock out, bears SW.

400 Leave excavations.

2640 To Cor. No. 4 on right bank of Illinois River.

Sawed post, 4 ft. long, 4 ins. sq., set on bedrock with mound of stone, 4-334 B.

Thence N. 55°E.

Var. 19°E.

330 To Cor. No. 1, the place of beginning.

Area.

The Florence Placer contains,	140.00 acres
The Adolph Brown Placer contains,	20.00 "
Total - - - -	160.00 acres

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This claim is on unsurveyed land, except 19.40 acres of the eastern end which is located in the SW¼ of Sec. 28, T. 38 S., R. 8 W., of the Willamette Meridian. The survey of this claim is wholly within the lines of the original location.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Edward R. Hanslip, Jr.
537 Melrose Avenue
Kenilworth, Illinois

OREGON
KERBY QUADRANGLE

(Port Orford) (Riddle)

R. B. Marshall, Chief Geographer.
T. G. Gerdine, Geographer in charge.
Topography by J. G. Staack, A. O. Burkland, C. P. McKinley, and R. M. Wilson.
Control by U.S. Coast and Geodetic Survey, W. T. Griswold, A. I. Oliver, L. F. Biggs, and E. M. Fry.
Surveyed in 1915.

Burkland / Staack

Scale 1/125000

5 Miles

5 Kilometers

Contour interval 100 feet.
Datum is mean sea level.

TRUE NORTH / MAGNETIC NORTH 21°
APPROXIMATE MEAN DECLINATION 1915.

Edition of 1917 reprinted 1942

Polyconic projection. North American datum

(Seiad)

KERBY ORE.

N4200–W12330/30

THE TOPOGRAPHIC MAPS OF THE UNITED STATES

The United States Geological Survey is making a series of standard topographic maps to cover the United States. This work has been in progress since 1882, and the published maps cover more than 47 percent of the country, exclusive of outlying possessions.

The maps are published on sheets that measure about 16½ by 20 inches. Under the general plan adopted the country is divided into quadrangles bounded by parallels of latitude and meridians of longitude. These quadrangles are mapped on different scales, the scale selected for each map being that which is best adapted to general use in the development of the country, and consequently, though the standard maps are of nearly uniform size, the areas that they represent are of different sizes. On the lower margin of each map are printed graphic scales showing distances in feet, meters, miles, and kilometers. In addition, the scale of the map is shown by a fraction expressing a fixed ratio between linear measurements on the map and corresponding distances on the ground. For example, the scale $\frac{1}{62,500}$ means that 1 unit on the map (such as 1 inch, 1 foot, or 1 meter) represents 62,500 of the same units on the earth's surface.

Although some areas are surveyed and some maps are compiled and published on special scales for special purposes, the standard topographic surveys and the resulting maps have for many years been of three types, differentiated as follows:

1. Surveys of areas in which there are problems of great public importance—relating, for example, to mineral development, irrigation, or reclamation of swamp areas—are made with sufficient detail to be used in the publication of maps on a scale of $\frac{1}{31,680}$ (1 inch = one-half mile) or $\frac{1}{24,000}$ (1 inch = 2,000 feet), with a contour interval of 1 to 100 feet, according to the relief of the particular area mapped.

2. Surveys of areas in which there are problems of average public importance, such as most of the basin of the Mississippi and its tributaries, are made with sufficient detail to be used in the publication of maps on a scale of $\frac{1}{62,500}$ (1 inch = nearly 1 mile), with a contour interval of 10 to 100 feet.

3. Surveys of areas in which the problems are of minor public importance, such as much of the mountain or desert region of Arizona or New Mexico, and the high mountain area of the northwest, are made with sufficient detail to be used in the publication of maps on a scale of $\frac{1}{125,000}$ (1 inch = nearly 2 miles) or $\frac{1}{250,000}$ (1 inch = nearly 4 miles), with a contour interval of 20 to 250 feet.

The aerial camera is now being used in mapping. From the information recorded on the photographs, planimetric maps, which show only drainage and culture, have been made for some areas in the United States. By the use of stereoscopic plotting apparatus, aerial photographs are utilized also in the making of the regular topographic maps, which show relief as well as drainage and culture.

A topographic survey of Alaska has been in progress since 1898, and nearly 44 percent of its area has now been mapped. About 15 percent of the Territory has been covered by maps on a scale of $\frac{1}{500,000}$ (1 inch = nearly 8 miles). For most of the remainder of the area surveyed the maps published are on a scale of $\frac{1}{250,000}$ (1 inch = nearly 4 miles). For some areas of particular economic importance, covering about 4,300 square miles, the maps published are on a scale of $\frac{1}{62,500}$ (1 inch = nearly 1 mile) or larger. In addition to the area covered by topographic maps, about 11,300 square miles of southeastern Alaska has been covered by planimetric maps on scales of $\frac{1}{125,000}$ and $\frac{1}{250,000}$.

The Hawaiian Islands have been surveyed, and the resulting maps are published on a scale of $\frac{1}{62,500}$.

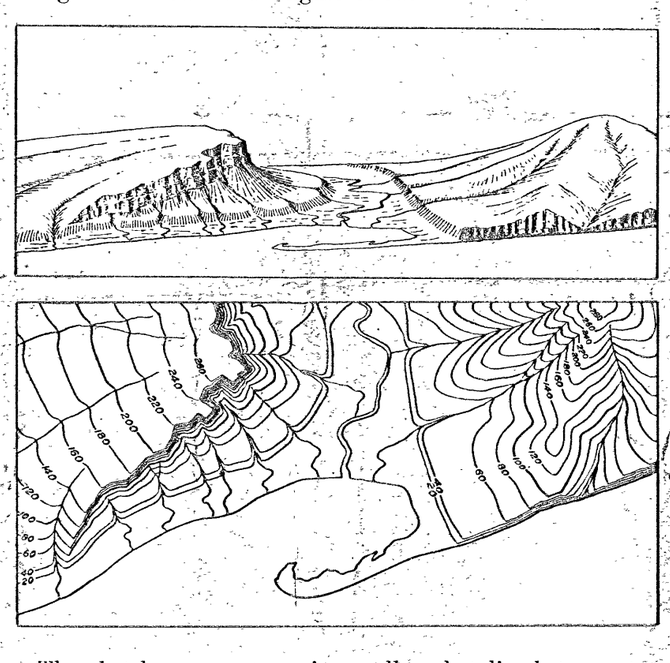
A survey of Puerto Rico is now in progress. The scale of the published maps is $\frac{1}{30,000}$.

The features shown on topographic maps may be arranged in three groups—(1) water, including seas, lakes, rivers, canals, swamps, and other bodies of water; (2) relief, including mountains, hills, valleys, and other features of the land surface; (3) culture (works of man), such as towns, cities, roads, railroads, and boundaries. The symbols used to represent these features are shown and explained below. Variations appear on some earlier maps, and additional features are represented on some special maps.

All the water features are represented in blue, the smaller streams and canals by single blue lines and the larger streams by double lines. The larger streams, lakes, and the sea are accentuated by blue water lining or blue tint. Intermittent streams—those whose beds are dry for a large part of the year—are shown by lines of blue dots and dashes.

Relief is shown by contour lines in brown, which on a few maps are supplemented by shading showing the effect of light thrown from the northwest across the area represented, for the purpose of giving the appearance of relief and thus aiding in the interpretation of the contour lines. A contour line represents an imaginary line on the ground (a contour) every part of which is at the same altitude above sea level. Such a line could be drawn at any altitude, but in practice only the contours at certain regular intervals of altitude are shown. The datum or zero of altitude of the Geological Survey maps is mean sea level. The 20-foot contour would be the shore line if the sea should rise 20 feet above mean sea level. Contour lines show the shape of the hills, mountains, and valleys, as well as their altitude. Successive contour lines that are far apart on the map indicate a gentle slope, lines that are close together indicate a steep slope, and lines that run together indicate a cliff.

The manner in which contour lines express altitude, form, and grade is shown in the figure below.



The sketch represents a river valley that lies between two hills. In the foreground is the sea, with a bay that is partly enclosed by a hooked sand bar. On each side of the valley is a terrace into which small streams have cut narrow gullies. The hill on the right has a rounded summit and gently sloping spurs separated by ravines. The spurs are truncated at their lower ends by a sea cliff. The hill at the left terminates abruptly at the valley in a steep scarp, from which it slopes gradually away and forms an inclined tableland that is traversed by a few shallow gullies. On the map each of these features is represented, directly beneath its position in the sketch, by contour lines.

The contour interval, or the vertical distance in feet between one contour and the next, is stated at the bottom of each map. This interval differs according to the topography of the area mapped: in a flat country it may be as small as 1 foot; in a mountainous region it may be as great as 250 feet. In order that the contours may be read more easily certain contour lines, every fourth or fifth, are made heavier than the others and are accompanied by figures showing altitude. The heights of many points—such as road intersections, summits, surfaces of lakes, and benchmarks—are also given on the map in figures, which show altitudes to the nearest foot only. More precise figures for the altitudes of benchmarks are given in the Geological Survey's bulletins on spirit leveling. The geodetic coordinates of triangulation and transit-traverse stations are also published in bulletins.

Lettering and the works of man are shown in black. Boundaries, such as those of a State, county, city, land grant, township, or reservation, are shown by continuous or broken lines of different kinds and weights. Public roads suitable for motor travel the greater part of the year are shown by solid double lines; poor public roads and private roads by dashed double lines; trails by dashed single lines. Additional public road classification if available is shown by red overprint.

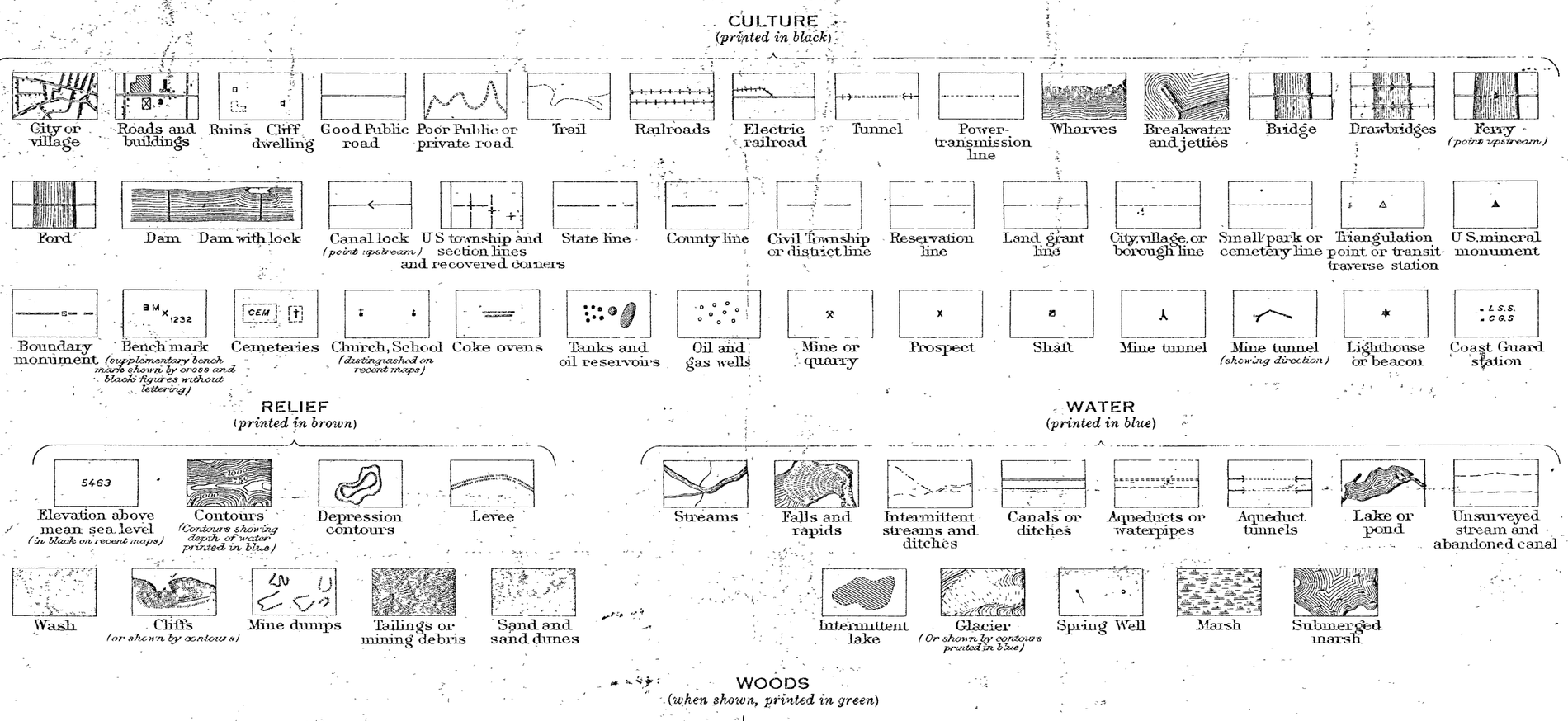
Each quadrangle is designated by the name of a city, town, or prominent natural feature within it, and on the margins of the map are printed the names of adjoining quadrangles of which maps have been published. More than 4,100 quadrangles in the United States have been surveyed, and maps of them similar to the one on the other side of this sheet have been published.

Geologic maps of some of the areas shown on the topographic maps have been published in the form of folios. Each folio includes maps showing the topography, geology, underground structure, and mineral deposits of the area mapped, and several pages of descriptive text. The text explains the maps and describes the topographic and geologic features of the country and its mineral products. Two hundred twenty-five folios have been published.

Index maps of each State and of Alaska and Hawaii showing the areas covered by topographic maps and geologic folios published by the United States Geological Survey may be obtained free. Copies of the standard topographic maps may be obtained for 10 cents each; some special maps are sold at different prices. A discount of 40 percent is allowed on an order amounting to $5 or more at the retail price. The discount is allowed on an order for maps alone, either of one kind or in any assortment, or for maps together with geologic folios. The geologic folios are sold for 25 cents or more each, the price depending on the size of the folio. A circular describing the folios will be sent on request.

Applications for maps or folios should be accompanied by cash, draft, or money order (not postage stamps) and should be addressed to

THE DIRECTOR,
United States Geological Survey,
Washington, D. C.

November 1937.

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