

United States Department of the Interior
National Park Service

National Register of Historic Places
Registration Form

1141

This form is for use in nominating or requesting determinations for individual properties and districts. See instructions in *How to Complete the National Register of Historic Places Registration Form* (National Register Bulletin 16A). Complete each item by marking "x" in the appropriate box or by entering the information requested. If an item does not apply to the property being documented, enter "N/A" for "not applicable." For functions, architectural classification, materials, and areas of significance, enter only categories and subcategories from the instructions. Place additional entries and narrative items on continuation sheets (NPS Form 10-900a). Use a typewriter, word processor, or computer, to complete all items.

1. Name of Property

historic name Deep Gravel Mine

other names/site number Wimer Mine

2. Location

street & number BLM Road 40-8-28 approx. 1 mile north of the not for publication
intersection with Waldo Road (USDI BLM Medford District)

city or town Cave Junction vicinity

state Oregon code OR county Josephine code 033 zip code 97523

3. State/Federal Agency Certification

As the designated authority under the National Historic Preservation Act, as amended, I hereby certify that this nomination
 request for determination of eligibility meets the documentation standards for registering properties in the National Register of
Historic Places and meets the procedural and professional requirements set forth in 36 CFR Part 60. In my opinion, the property
 meets does not meet the National Register criteria. I recommend that this property be considered significant
 nationally statewide locally. (See continuation sheet for additional comments.)

[Signature] 8/14/01
Signature of certifying official/Title Date
Preservation Officer, Bureau of Land Management
State of Federal agency and bureau

In my opinion, the property meets does not meet the National Register criteria. (See continuation sheet for additional comments.)

[Signature] 12/12/00
Signature of certifying official/Title Date
Deputy SHPO
Oregon State Historic Preservation Office
State of Federal agency and bureau

4. National Park Service Certification

I hereby certify that the property is:

- entered in the National Register.
 See continuation sheet.
- determined eligible for the National Register
 See continuation sheet.
- determined not eligible for the National Register.
- removed from the National Register.
- other, (explain:)

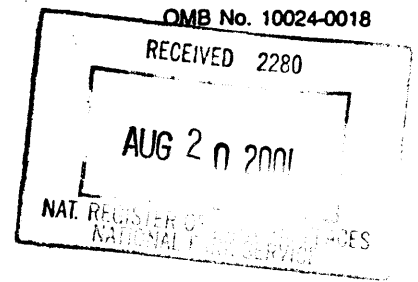
Signature of the Keeper

Date of Action

Entered in the
National Register

10-4-01

United States Department of the Interior
National Park Service



National Register of Historic Places Registration Form

This form is for use in nominating or requesting determinations for individual properties and districts. See instructions in *How to Complete the National Register of Historic Places Registration Form* (National Register Bulletin 16A). Complete each item by marking "x" in the appropriate box or by entering the information requested. If an item does not apply to the property being documented, enter "N/A" for "not applicable." For functions, architectural classification, materials, and areas of significance, enter only categories and subcategories from the instructions. Place additional entries and narrative items on continuation sheets (NPS Form 10-900a). Use a typewriter, word processor, or computer, to complete all items.

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State of Federal agency and bureau _____

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Date of Action

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- determined eligible for the National Register
 - See continuation sheet.
- determined not eligible for the National Register.
- removed from the National Register.
- other, (explain:) _____

Deep Gravel Mine
Name of Property

Josephine Oregon
County and State

5. Classification

Ownership of Property
(Check as many boxes as apply)

- private
- public-local
- public-State
- public-Federal

Category of Property
(Check only one box)

- building(s)
- district
- site
- structure
- object

Number of Resources within Property
(Do not include previously listed resources in the count.)

Contributing	Noncontributing	
_____	_____	buildings
1	_____	sites
3	_____	structures
_____	_____	objects
4	_____	Total

Name of related multiple property listing
(Enter "N/A" if property is not part of a multiple property listing.)

Number of contributing resources previously listed in the National Register

Mining Resources of the Upper Illinois Valley, Oregon, 0

6. Function or Use

Historic Functions
(Enter categories from instructions)

INDUSTRY/PROCESSING/EXTRACTION

Current Functions
(Enter categories from instructions)

VACANT/NOT IN USE

7. Description

Architectural Classification
(Enter categories from instructions)

NO STYLE

Materials
(Enter categories from instructions)

foundation _____
walls _____
roof _____
other EARTH; STONE

Narrative Description

(Describe the historic and current condition of the property on one or more continuation sheets.)

Please See Continuation Page

Deep Gravel Mine
Name of Property

Josephine Oregon
County and State

8. Statement of Significance

Applicable National Register Criteria

(Mark "x" in one or more boxes for the criteria qualifying the property for National Register listing.)

- A** Property is associated with events that have made a significant contribution to the broad patterns of our history.
- B** Property is associated with the lives of persons significant in our past.
- C** Property embodies the distinctive characteristics of a type, period, or method of construction or represents the work of a master, or possesses high artistic values, or represents a significant and distinguishable entity whose components lack individual distinction.
- D** Property has yielded, or is likely to yield, information important in prehistory or history.

Criteria Considerations

(Mark "x" in all the boxes that apply.)

Property is:

- A** owned by a religious institution or used for religious purposes.
- B** removed from its original location.
- C** a birthplace or grave.
- D** a cemetery.
- E** a reconstructed building, object, or structure.
- F** a commemorative property.
- G** less than 50 years of age or achieved significance within the past 50 years.

Areas of Significance

(Enter categories from instructions)

INDUSTRY

Period of Significance

1885-1904

Significant Dates

N/A

Significant Person

(Complete if Criterion B is marked above)

N/A

Cultural Affiliation

N/A

Architect/Builder

N/A

Narrative Statement of Significance

(Explain the significance of the property on one or more continuation sheets.)

9. Major Bibliographical References

Bibliography

(Cite the books, articles, and other sources used in preparing this form on one or more continuation sheets.)

Previous documentation on file (NPS):

- preliminary determination of individual listing (36 CFR 67) has been requested
- previously listed in the National Register
- previously determined eligible by the National Register
- designated a National Historic Landmark
- recorded by Historic American Buildings Survey # _____
- recorded by Historic American Engineering Record # _____

Primary location of additional data:

- State Historic Preservation Office
- Other State agency
- Federal agency
- Local government
- University
- Other

Name of repository:

USDI BLM Medford District

Deep Gravel Mine
Name of Property

Josephine Oregon
County and State

10. Geographical Data

Acreege of Property 58.983

UTM References

(Place additional UTM references on a continuation sheet.)

1	<input type="text"/>	<input type="text"/>	<input type="text"/>
	Zone	Easting	Northing
2	<input type="text"/>	<input type="text"/>	<input type="text"/>

3	<input type="text"/>	<input type="text"/>	<input type="text"/>
	Zone	Easting	Northing
4	<input type="text"/>	<input type="text"/>	<input type="text"/>

See continuation sheet

Verbal Boundary Description

(Describe the boundaries of the property on a continuation sheet.)

Boundary Justification

(Explain why the boundaries were selected on a continuation sheet.)

11. Form Prepared By

name/title Katherine C. Atwood (with Dr. Ward Tonsfeldt)

organization (for) USDI Bureau of Land Management date August 12, 2000
Medford District

street & number 365 Holly Street telephone (541) 482-8714

city or town Ashland state OR zip code 97520

Additional Documentation

Submit the following items with the completed form:

Continuation Sheets

Maps

A USGS map (7.5 or 15 minute series) indicating the property's location.

A Sketch map for historic districts and properties having large acreage or numerous resources.

Photographs

Representative black and white photographs of the property.

Additional Items

(Check with the SHPO or FPO for any additional items)

Property Owner

(Complete this item at the request of SHPO or FPO.)

name Please See Continuation Page

street & number _____ telephone _____

city or town _____ state _____ zip code _____

Paperwork Reduction Act Statement: This information is being collected for applications to the National Register of Historic Places to nominate properties for listing or determine eligibility for listing, to list properties, and to amend existing listings. Response to this request is required to obtain a benefit in accordance with the National Historic Preservation Act, as amended (16 U.S.C. 470 et seq.).

Estimated Burden Statement: Public reporting burden for this form is estimated to average 18.1 hours per response including time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding this burden estimate or any aspect of this form to the Chief, Administrative Services Division, National Park Service, P.O. Box 37127, Washington, DC 20013-7127; and the Office of Management and Budget, Paperwork Reduction Projects (1024-0018), Washington, DC 20503.

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**National Register of Historic Places
Continuation Sheet**

Mining Resources of the Upper Illinois Valley
Deep Gravel Mine

Section Number: 7 **Page:** 1

Summary Description

Located approximately five miles south of Cave Junction, Oregon, the nominated portion of the Deep Gravel Mine was mined extensively between 1883 and 1904. Although mining occurred in later years on other areas of the property, the nominated portion preserves important features related to hydraulic development of the mine in the 1880s during the initial period of hydraulic placer mining in the Waldo vicinity. The mining equipment associated with this site has disappeared, but the remaining earthworks (including mine cut, tailrace, pit, vertical channel and tailings), clearly reveal the mining process with integrity of location, design, or plan, setting, feeling and association.

Location and Setting

The federally managed area of the Deep Gravel Mine is located in the southeast quarter of Section 21, Township 40 South, Range 8 West, about six miles south of Cave Junction, Oregon in southwest Josephine County (Josephine County Assessor's Plat 40-8-21 Tax Lot 500). Situated on Butcher Gulch, at an elevation of about 1500 feet above sea level, the site contains wide areas of placer mining tailings. These tailings are remains of washed gravels derived primarily from eroded and resorted Tertiary conglomerate, a poorly sorted clay and sand with small rock fragments and lenses of gravel (Shenon 1933c: Figure 11; Budy 1999: 35HS11-479: 2).

The mine is located in a mixed conifer/oak woodland vegetation zone with an on-site plant community consisting of Douglas fir/oak/poison oak on the extreme northwest, and ponderosa and pine/manzanita with sparse second growth pine on the serpentine exposures on the southeast. Riparian growth characterizes ground in wet drainages and around the hydraulic pit. The site's re-growth forests have reestablished themselves within the last one hundred years (Budy 2000, 35HS11-79: 2).

The Deep Gravel Mine occupies the entire bottom of Butcher Gulch, with the nominated portion located in the uppermost vicinity of the gulch. Describing this area, Historian Elizabeth Budy notes:

In the uppermost reaches of the gulch, the gravels (which were shallow) were scoured to bedrock. The natural drainage system

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Mining Resources of the Upper Illinois Valley
Deep Gravel Mine

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was modified by channelizing the gulch, especially in the northwest corner where giants excavated deep pits, leaving steep hydraulic cutface features and forming ponds today. Mining in the upper gulch has accelerated water flow over the exposed bedrock; numerous gullies and channels created by mining direct water through the center of the gulch and fill the hydraulic pits (Budy 1999:35HS11-479).

Site Description

The nominated portion of the mine on Bureau of Land Management-managed lands constitutes an irregularly shaped area of 58.983 acres in size. The Wimer Ditch encircles the perimeter of the mine. BLM Road 40-8-28, an unimproved road that forks near the bottom of the gulch, traverses the property. Although the earliest focus of mining efforts on Butcher Gulch occurred in this area of shallow gravels along the ravine's upper edge, no evidence remains of the initial mining period. The initial hydraulic mining era, however, is well represented by tailings piles, sluice channels, a large hydraulic pit and hydraulic pipe that link the mine to the Wimer Ditch (Budy 2000 35HS11-479).

The nominated property contains several interrelated features associated with hydraulic mining along 1600 feet of Butcher Gulch. Important components of this site (indicated on the site map, include a **hydraulic mine cut face (K-1)** that surrounds a **hydraulic pit (K)** measuring approximately two hundred-fifty feet by one hundred feet, with a shallow water-filled pond in the bottom. (A portion of the pit is located to the northwest on patented land). Here miners channeled water from the Wimer Ditch above the mine into pipe, directed it through a nozzle in high-pressure spray, and cut away the gulch banks (Budy 2000, 35HS11-479: 6). The vertical channel that supported hydraulic pipe and that appears to be on private property, marks the place where miners took water from the Wimer Ditch for use in hydraulic mining. Several sections of hydraulic pipe that rested in the channel remain on the site.

Located to the south and east of the hydraulic mine face is a **tailrace (J-1)**, (approximately five-hundred feet in length), that transported used water and debris away from the site after the giant had removed gold-bearing dirt. Adjacent on the north and south of the tailrace are low piles of **tailings (J)** several hundred feet in length. (One of

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Mining Resources of the Upper Illinois Valley
Deep Gravel Mine

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the largest tailings piles measures approximately 250 feet in length and varies between 50 and 100 feet in width). These tailings contain piles of rocks that were dislodged and churned in the hydraulic mining process and expelled from sluice boxes after being washed down from the mined area.

In 1999 a field survey of the federally managed portion of the Deep Gravel Mine recorded several sections of hydraulic pipe, an unidentified piece of machine housing, and the remains of a miner's cabin. A pear tree, most likely dating from the pioneer period, is located in a former habitation site on the northerly boundary of the nominated property (Budy 1999: 35HS11-479). Although not included as major features of this nomination, these artifacts are noted on the attached sketch map.

Integrity

The Deep Gravel Mine encompasses important features related to the initial hydraulic developments from the mid-1880s to 1904. Although much of the Deep Gravel Mine is on private property significant and highly visible earthworks that form key aspects of the mining system, retain their original appearance on federally-managed land. The setting of the historic Deep Gravel Mine remains intact. The abandoned ravine and tailings piles on this once-busy site clearly reflect the "boom or bust" cycle that characterized mining in this area. The Deep Gravel Mine allows the observer to clearly understand the mining activity here that significantly affected development in the Upper Illinois Valley.

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Mining Resources of the Upper Illinois Valley
Deep Gravel Mine

Section Number: 8 Page: 1

Significance

The nominated portion of the Deep Gravel Mine, established in its present configuration between 1883 and 1904, is locally significant for its association with mining in the Upper Illinois Valley Waldo vicinity during the period of initial hydraulic development. Part of a multiple property submission, "Mining Resources of the Upper Illinois Valley, Oregon," the Deep Gravel Mine represents its associated historic context, "Gold Placer Mining and Development of the Waldo Vicinity, 1851-1942." The Deep Gravel Mine meets the registration requirements outlined in the registration documents for mines of the initial hydraulic mining period. The mine retains its integrity of location, setting, design and feeling and evokes direct historic associations with mining technology that played a critical role in the Upper Illinois Valley. The Deep Gravel Mine is eligible to the National Register of Historic Places under Criterion A as an important, tangible representative of historic mining activities in the Waldo vicinity.

History

Gold was discovered in Butcher Gulch in 1852-1853. "At least the upper part of the gulch was mined as soon as water was available, by what the miners called the "pick and shovel" method using the pan, rocker or sluice box" (Street and Street 1973:32); however no ditches served the mine until 1858. Illinois River Decree testimony records indicate that in 1858 workings on what would eventually be the Deep Gravel Mine were known as the Quinn and Darkis Mine. James Quinn and William Darkis constructed a ditch in 1858 that took water from the East Fork of the Illinois River to their placer mining property in the upper parts of Butcher Gulch, now the area of the Deep Gravel Mine located on Bureau of Management lands. This early ditch appears to have been incorporated into the Wimer Ditch when it was expanded in later years.

George Simmons and his brother, Walter Simmons, acquired the Butcher Gulch mine property in 1876 (Josephine County Mining Records 3:125 October 26, 1876; 3: 231 February 3, 1878) and initiated hydraulic operations on the ground the following year. In 1878, Walter Simmons sold his interest in the mine to Jacob Wimer and his sons, George W. Wimer and William J. Wimer. George Simmons sold his interest to the Wimers in 1883 (Josephine County Mining Records 3:270 July 8, 1878; 3:271, July 13, 1878).

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Mining Resources of the Upper Illinois Valley

Deep Gravel Mine

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Following this purchase, the Wimers enlarged the mine's ditch and it became known as the Wimer Ditch.

Known as the Wimer Mine between 1883 and 1901, the property experienced substantial hydraulic developments including the expansion of water systems, the introduction of hydraulic giants, and the construction of the long tail race through Butcher Gulch (Budy 2000, 35HS 11-479:3). In July 1886, the local newspaper described the Wimers' mining operation:

J. Wimer and Sons have a hydraulic claim in Butcher Gulch wherein they use two large giants and three thousand feet of eleven and fourteen inch pipe. The opening of this claim was commenced in 1877 by Walter and George Simmons... This claim and the Scotts Gulch claim run day and night most of the year. (*Rogue River Courier*, July 30, 1886 quoted in Street 1973; 30).

In 1897 the midsummer edition of *Oregon Mining Journal* described the Wimer Mine operation:

Twenty years ago ground was first broken on the outlet race to the Wimer Mine. This year it has been completed. This race is eleven miles long and sixty feet deep. It runs through low hills and heavy timber and has a 268-foot tunnel through bedrock...

The water supply consists of two ditches, each having head boxes 4 x 6 feet, one being two miles long, the other to be about $3\frac{3}{4}$ miles long ... This mine is equipped with four giants, three locomotive headlights, 8,000 feet of pipe, ranging in size from 11 to 60 inches in diameter... the major part of which is from 17 to 22 inches. There are also over 3,000 feet of 4x5 outlet flume. This mine is worked at least 11 months in each year, employing about a dozen men and using from two to four giants....(*Oregon Mining Journal*, 1897:55)

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Deep Gravel Mine

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In 1901, W.J. Wimer, a prominent Josephine County citizen, and other investors, formed the Deep Gravel Mining Company, incorporating with a capital of \$85,000 and giving the mine its present name. Hydraulic elevators were in operation at the Deep Gravel in 1904 and construction of the long tailrace through Butcher Gulch was completed the same year to access the deeper gravels (Budy 1999 35HS11-479). In 1904 a Grants Pass mining publication described the Deep Gravel Mine:

The mine is equipped with two large ditches, two and four miles long respectively, furnishing a pressure of 190 feet to a No. 2 Hendy elevator. The peculiar topography of this mine has necessitated the cutting of a race 7,000 feet long and in some places 60 feet deep, including also a tunnel of 300 feet. This race constitutes a very important part of the present process of hydraulic elevation, which was introduced into operation only during the past year

Costs in improvements up to 1908 totaled \$130,000 and the mine had produced about \$250,000 (Shenon 1933:188). In late 1910, the Waldo Consolidated Gold Mining Company, based in New York City, New York, obtained an option on the Deep Gravel Mine for \$150,000 (Josephine County Mining Records 37:282). At the same time the New York company purchased an option for the High Gravel Mine and the Logan Simmons Cameron Mine, eventually holding approximately 4,000 acres (*Waldo Consolidated Gold Mining Co. of Oregon* 1910). Despite their optimistic plans, the Waldo Consolidated Gold Mining Company failed to make payments and ownership reverted to the Deep Gravel Mining Company (*Mineral Wealth* 1904: 40)

In 1933, Shenon (1933c:188) noted that the principal workings consisted of "four pits covering a total area of approximately 50 acres and shallow pits covering well over 15 acres." At that time, the Deep Gravel Company owned "...350 acres of patented land, 410 acres of land held by mineral location, and water right to take 2,800 inches of water from the East Fork of the Illinois River at a point a short distance west of Takilma" (Shenon 1933:188). In the period between 1907 and 1933, the mine produced about \$26,316 in gold.

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Mining Resources of the Upper Illinois Valley
Deep Gravel Mine

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For several decades the Deep Gravel Mine was leased by its owners to various individuals (Josephine County Mining Records 7:241). In 1942, as mining came to an end during World War II, the Deep Gravel Mine had approximately forty to fifty acres excavated to bedrock. The ground was "cut its entire length by an artificially constructed race with an average depth of fifty feet, from the serpentine at the upper end of the property to the dump in the West Fork of the Illinois River" (DOGAMI:1942:192). Reports stated that more than \$100,000 had been spent on piping, construction of the race, and in ditch development. They estimated twenty million cubic yards of gravel to be untouched, with an average yield better than twenty cents per square yard (DOGAMI 1942:192). Geologists stated that the Deep Gravel Mine "has produced what would be, at the present gold price, upwards of \$500,000 (DOGAMI 1942: 192).

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Mining Resources of the Upper Illinois Valley
Deep Gravel Mine

Section Number: 9 Page: 1

Bibliography

Budy, Elizabeth E.

1999 *Deep Gravel Mine* Cultural Site Record 35HS11-479 (for USDI-BLM Medford District)

Budy, Elizabeth E.

2000 *Esterly Lakes Cultural Resource Survey: Human Landscapes in the Historic Waldo, Takilma, and Blue Creek Mining Districts* (Project #99-53) (Prepared for (USDI-BLM Medford District).

(DOGAMI) Oregon Department of Geology and Mineral Industries

1942 *Oregon Metal Mines Handbook, Bulletin 14-C Southwestern Oregon*, Volume 2, Section 1 [Josephine County], Portland, Oregon.

Oregon Mining Journal

1897 Offprint "Waldo District Mines." On File, Josephine County Historical Society, Grants Pass, Oregon.

Shenon, Philip J.

1933c *Geology and Ore Deposits of the Takilma-Waldo District, Oregon, Including the Blue Creek District*. U.S. Geological Survey Bulletin 846-B Government Printing Office, Washington D.C.

Waldo Consolidated Gold Mining Company

1910 *Waldo Consolidated Gold Mining Co.* [prospectus] New York, New York.

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Mining Resources of the Upper Illinois Valley

Deep Gravel Mine

Section Number: 10 Page: 1

A map showing locations of the twenty resources included in this Multiple Property Submission is contained with this document. A photocopied portion of the USGS map indicating the location of the Deep Gravel Mine accompanies the nomination document.

Boundary Description

The nominated portion of the Deep Gravel Mine is located in the southeast quarter of Section 21, Township 40 South, Range 8 West W.M., in Josephine County Oregon, and is further indicated on USGS map O'Brien quadrangle included with this nomination. The property is further described as follows:

Beginning at the southeast corner of Section 21, T. 40 S. R. 8 W., (W.M). Tax Lot 500 (as described in Josephine County Assessor's Plat 40-8-21), proceed North along the section line between Sections 21 and 22 to intersect the northerly boundary of Tax Lot 500 in the SE $\frac{1}{4}$ of Section 21. Then continue West along the northerly boundary of Tax Lot 500 to its intersection with an unnamed BLM road in the NW $\frac{1}{4}$ of the SE $\frac{1}{4}$ of Section 21. Then continue south along this BLM road to its intersection with the south section line of Section 21, T. 40 S., Range 8 W., (W.M.); then proceed due East along this section line to the point of beginning. The nominated property contains 58.983 acres.

Boundary Justification

The nominated area encompasses the major earthwork features that comprise the primary locus of late nineteenth century mining that occurred on this portion of the Deep Gravel Mine on lands now administered by the Bureau of Land Management.

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Mining Resources of the Upper Illinois Valley

Deep Gravel Mine

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UTM References

Zone	Location	Easting	Northing
10	1	446312.29799	4657638.63344
	2	446997.33270	4657627.40336
	3	446997.33270	4657230.60731
	4	446435.82884	4657226.86395

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Mining Resources of the Upper Illinois Valley

Deep Gravel Mine

Section Number: Photographs **Page:** 2

Photograph No. 4

- 1) Deep Gravel Mine (Wimer Mine)
- 2) S.E quarter of Section 21, T. 40 S., R. 8W. W.M. in Josephine County, Oregon
- 3) Photographer: Unknown
- 4) Date of Photograph: c. 1900
- 5) Negative holder: Kerbyville Museum
24195 Redwood Highway
Kerby, Oregon 97531
- 6) View: Wimer Mine
- 7) Photograph number 4 of 4

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Mining Resources of the Upper Illinois Valley
Deep Gravel Mine

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Property Owner Notification

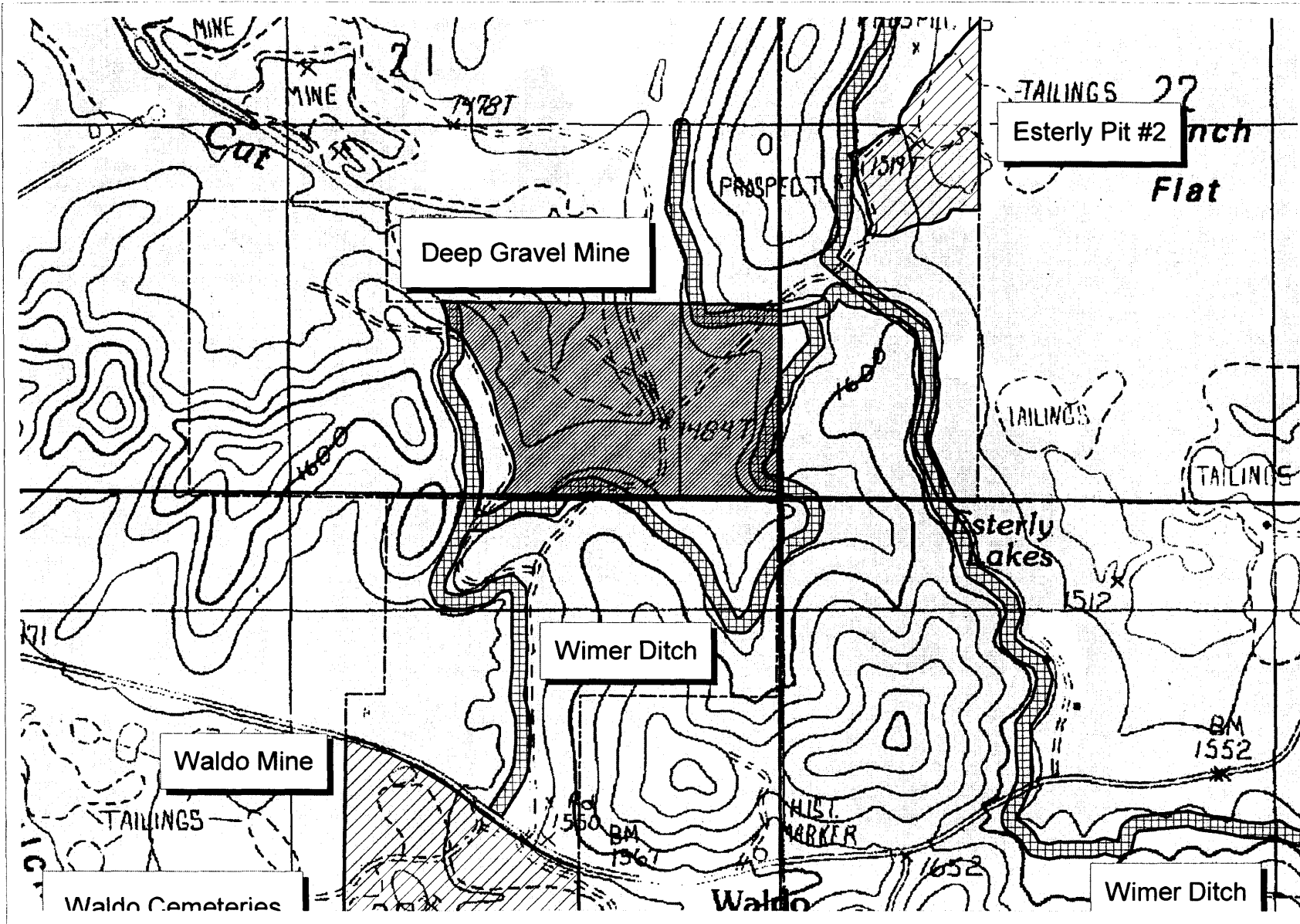
Bureau of Land Management
Ron Wenker, District Manager
Grants Pass Resource Area Manager
Ann Ramage, Archaeologist
Medford Field Office
3040 Biddle Road
Medford OR 97504

Oregon-Washington State Office
Bureau of Land Management
Elaine Zielinski, Director
Richard Hanes, Cultural Resource Lead
PO Box 2965
Portland OR 97208-2965

Federal Preservation Officer Certification

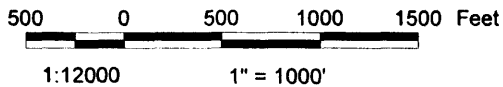
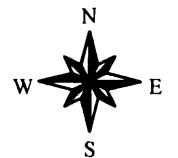
Mr. John G. Douglas, Preservation Officer
Bureau of Land Management (240)
204-LS
18th and C Streets, NW
Washington, DC 20240

Deep Gravel Mine



Deep Gravel Mine
 35HS11-479
 A portion of the
 O'Brien Quad
 (Sec 21
 T40S, R8W, wm)
 showing
 Historic Placer
 Mining Resources
 in the Waldo Vicinity.

- Mines**
- Allen Gulch Mill
 - Cameron Mine
 - Deep Gravel Mine
 - Esterly Pit #2
 - Fry Gulch
 - High Gravel Mine
 - Old Placer Mine
 - Plataurica Mine
 - Waldo Mine
- General Symbology**
- Ditches
 - Mines
 - Town, cemetery
 - BLM boundary
 - Section Lines











Map created August 2000 by Ralph Delamarter
 Features based on site investigations by W Tonsfeldt, E Budy and others
 Base images: digital raster graphs (DRG) and digital orthoquads (DOQ)(1995)
 of O'Brien, Takilma and Broken Rib quads (scale 1:24000).

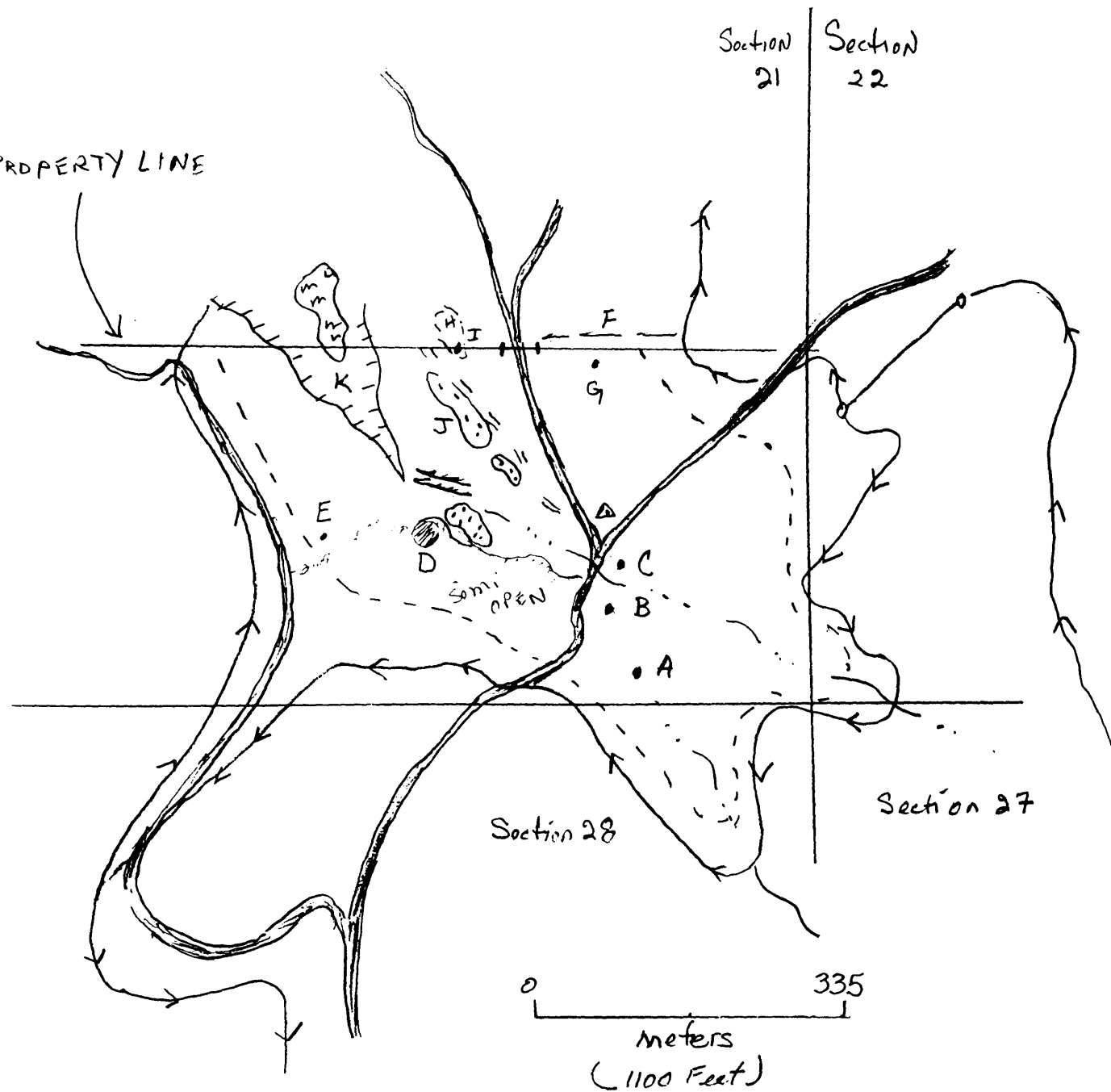
Sketch Map
 35HS11-479
 Deep Gravel Mine
 Elizabeth Budy
 8/3/99

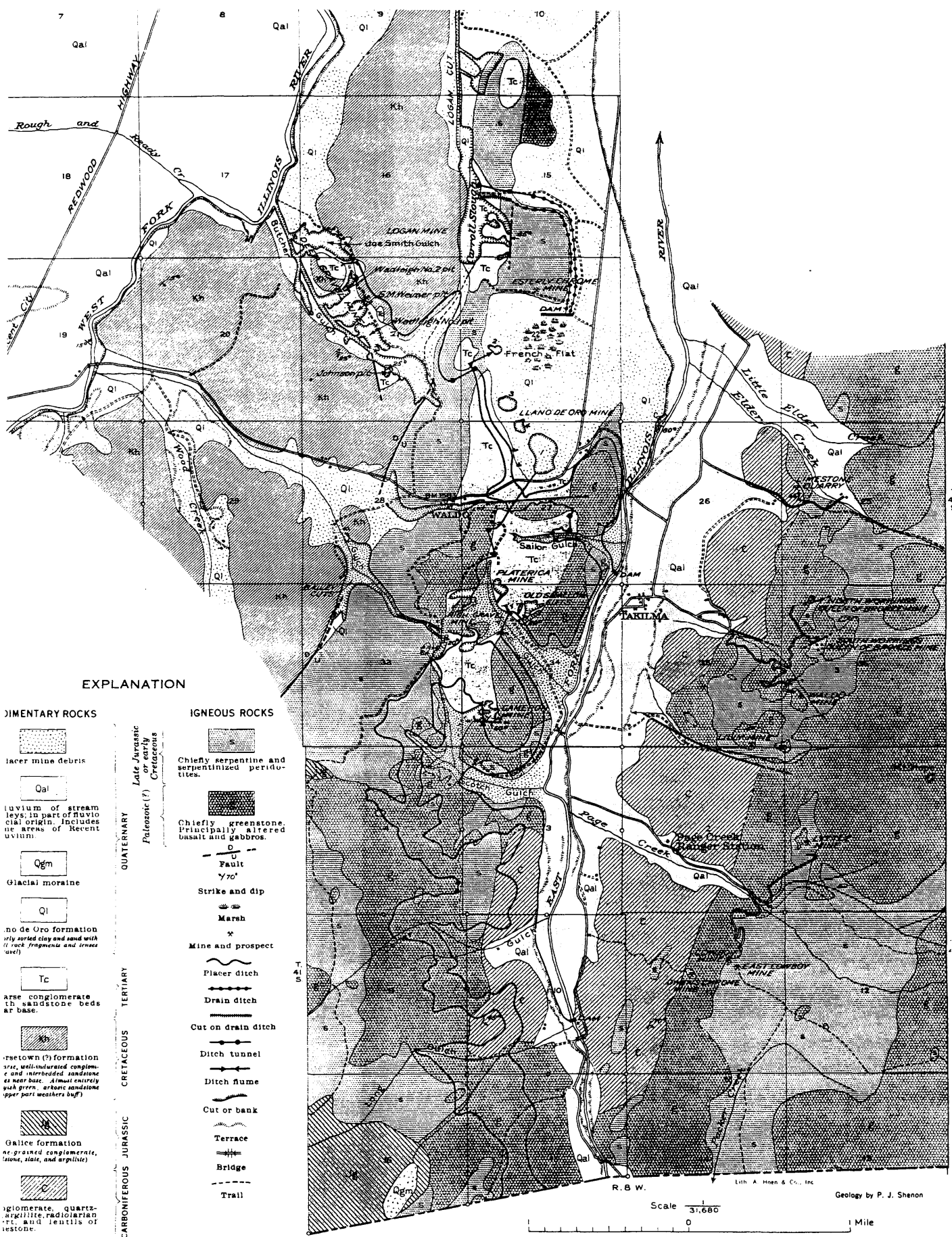
Key

A, B, C, G, I = hydraulic pipe
 D = Habitation flat, former cabin site,
 stove pipe and truck parts.
 E = equipment piece
 F = vertical channel, pipeline conduit.
 H = pear tree in former habitation area.
 J = old tailings piles
 K = hydraulic pit, water-filled pond and
 steep cut face.

-  = tailings
-  = hydraulic cut face
-  = pond
-  = tailrace
-  = Wimer ditch
-  = roads
-  = site boundary

 Datum = 17" Ponderosa
 PINE





EXPLANATION

SEDIMENTARY ROCKS

- alluvium of stream leys, in part of glacial origin. Includes no areas of Recent alluvium.
- Glacial moraine.
- no de Oro formation (very sorted clay and sand with rock fragments and coarse silt).
- terrace conglomerate in sandstone beds at base.
- Knox formation (formation of sandstone, well-indurated conglomerate and interbedded sandstone at base. Almost entirely quartz green, arkose sandstone upper part weathers buff).
- Galice formation (fine-grained conglomerate, tuffaceous, slate, and argillite).
- conglomerate, quartz-argillite, radiolarian, mud lentils of siltstone.

IGNEOUS ROCKS

- Chiefly serpentine and serpentinitized peridotites.
- Chiefly greenstone, principally altered basalt and andesites.

- Fault.
- Strike and dip.
- Marsh.
- Mine and prospect.
- Placer ditch.
- Drain ditch.
- Cut on drain ditch.
- Ditch tunnel.
- Ditch flume.
- Cut of bank.
- Terrace.
- Bridge.
- Trail.

QUATERNARY
 TERTIARY
 CRETACEOUS
 JURASSIC
 CARBONIFEROUS

R. B. W. Lith. A. Hoen & Co., Inc. Geology by P. J. Shenon
 Scale 1/31,680
 0 1 Mile

GEOLOGIC MAP OF THE TAKILMA-WALDO DISTRICT, JOSEPHINE COUNTY, OREGON