

United States Department of the Interior  
National Park Service

1150

# 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.

### 1. Name of Property

historic name Middle Ditch

other names/site number Logan/Esterly Middle Ditch (preferred)

### 2. Location

street & number Historic channel of Logan/Esterly Middle Ditch  
South of Cave Junction Oregon N/A not for publication

city or town Cave Junction USDI BLM Medford District  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.)

John S. Angler 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.)

Jane Hamrick 12/18/00  
Signature of certifying official/Title Date  
Deputy SHPO  
Oregon State Historic Preservation Office  
State or 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 10-4-01  
National Register

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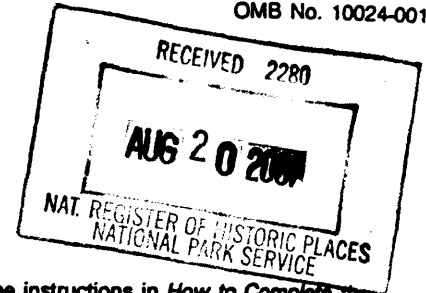
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United States Department of the Interior  
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National Register of Historic Places  
Registration Form



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Signature of certifying official/Title \_\_\_\_\_ Date \_\_\_\_\_

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 of certifying official/Title \_\_\_\_\_ Date \_\_\_\_\_

State or Federal agency and bureau \_\_\_\_\_

4. National Park Service Certification

I hereby certify that the property is:

<input type="checkbox"/> entered in the National Register. <input type="checkbox"/> See continuation sheet.	Signature of the Keeper _____	Date of Action _____
<input type="checkbox"/> determined eligible for the National Register <input type="checkbox"/> See continuation sheet.	_____	_____
<input type="checkbox"/> determined not eligible for the National Register.	_____	_____
<input type="checkbox"/> removed from the National Register.	_____	_____
<input type="checkbox"/> other, (explain): _____	_____	_____

Name of Property

County and State

5. Classification

Ownership of Property (Check as many boxes as apply)

Category of Property (Check only one box)

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

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

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

Contributing Noncontributing buildings, sites, structures, objects, 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)

Current Functions (Enter categories from instructions)

INDUSTRY/PROCESSING/EXTRACTION

NOT IN USE

7. Description

Architectural Classification (Enter categories from instructions)

Materials (Enter categories from instructions)

NO STYLE

foundation

walls

roof

other EARTH

Narrative Description

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

Please See Continuation Sheet

Name of Property

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.)

- Criteria A, B, C, D with checkboxes and descriptions.

Criteria Considerations

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

Property is:

- Criteria A, B, C, D, E, F, G with checkboxes and descriptions.

Areas of Significance

(Enter categories from instructions)

INDUSTRY

Period of Significance

1852-1942

Significant Dates

1852

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):

- Documentation checkboxes: preliminary determination, previously listed, designated landmark, recorded by Historic American Buildings Survey, recorded by Historic American Engineering Record.

Primary location of additional data:

- Location checkboxes: State Historic Preservation Office, Other State agency, Federal agency, Local government, University, Other.

Name of repository:

USDI Bureau of Land Management Medford District

Name of Property

County and State

10. Geographical Data

Acreage of Property

UTM References

(Place additional UTM references on a continuation sheet.)

UTM reference grid 1 with labels Zone, Easting, Northing

UTM reference grid 3 with labels Zone, Easting, Northing

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 19, 2000; 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 Sheet; 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 Reductions Projects (1024-0018), Washington, DC 20503.

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Mining Resources of the Upper Illinois Valley  
Logan Esterly Middle Ditch

Section Number: 7 Page: 1

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Summary Description

Three and two-tenths miles of the Logan/Esterly Middle Ditch (5.9 miles long in its main channel) included in this nomination. The ditch is associated with placer mining in the Waldo vicinity from 1853 (the date of ditch construction) to 1942 and the end of the historic period. In its individual configuration and relationship to adjacent mining resources, the Logan/Esterly Middle Ditch enables us to clearly understand the technology employed in varying periods to extract gold from the hillsides. The Logan/Esterly Middle Ditch retains integrity of location, design, setting, workmanship and feeling, and accurately conveys the historic associations for which it is significant.

Location and Setting

The portions of the Logan/Esterly Middle Ditch on Bureau of Land Management property are located in the northwest and southwest quarters of Section 22, the southeast quarter of Section 27, and the northeast, northwest, southeast and southwest quarters of Section 34, Township 40 South Range 8 West WM. (The remaining portions of the ditch are located on private lands). Access to the ditch is gained from Bureau of Land Management Road 40-8-28, approximately one mile from that road's intersection with the Waldo Road. Situated on a ridge at an elevation ranging between 1,600 and 1,740 feet above sea level, the ditch is characterized by gravelly, sandy, soils, clay loam and serpentine (Shenon 1933: Plate 11, cited in Budy 1999:35HS11-505).

The Logan/Esterly Middle Ditch, originating in Section 10, Township 41 south, Range 8 West, has an on-site plant community that is highly variable, but includes mixtures of Douglas fir, ponderosa pine, cedar, black and white oak, madrone, tanoak, manzanita, buckbrush, poison oak, and riparian vegetation. The lands crossed by the ditch are generally heavily forested. Water in the ditch was taken from the East Fork Illinois River and the ditch intake was located about two miles south of the mouth of Allen Gulch (Budy 1999:35HS11-505).

Between its point of origin and its termination at the north edge of French Flat, the Logan/Esterly Middle Ditch courses along the lower edges of Allen Gulch, crosses the gulch and courses northward along the steep slopes above the East Fork Illinois River

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before crossing Sailor Gulch. Next, the ditch tunnels through the ridge dividing Sailor Gulch and French Flat, crosses a saddle in Section 22, Township 40 South, Range 8 West, W.M.), and traverses along the ridge slope west of French Flat to private lands on the north. Historic maps suggest the ditch provided water to Carroll Slough diggings, most of which is located on private land, as well as to the placer mines in Section 10, Township 40 South, Range 8 West (W.M.).

Site Description

The Logan/Esterly Middle Ditch received a variety of additions through its many years of service. In the early 1880s, when the ditch was extended to the north edge of Sailor Gulch, a tunnel was excavated through the ridge that divides Sailor Gulch from French Flat. Workers constructed a flume that supported an inverted siphon pipeline across the saddle in Section 22, T.40S., R.8W., (W.M.). Intensive hydraulic operations, most likely those at the High Gravel Mine between 1912 and 1918 washed out the original ditch in Allen and Sailor's gulches and the ditch was replaced with wooden flumes. The flume across Sailor Gulch was elevated about fifteen feet maximum height and some trestle supports remain standing (Budy 1999:35HS11-505).

Section 34, T.40 S. R. 8 W.(W.M.) The Logan Esterly Middle Ditch enters Bureau of Land Management lands in the southeast quarter of Section 34. It courses along the lower edge of the ridge slope on the lower west side of Allen Gulch to a point directly below the Allen Gulch Mill site. At the mill site, the ditch crosses to the east across the center of Allen Gulch using a wooden flume, portions of which remain (Budy 1999: 35HS11-505). The ditch continues along the lower east edge of Allen Gulch directly behind the site of Allen Gulch Townsite and crosses a large gully with another low trestle/flume, most of which has washed out. The ditch continues along the lower edge of Allen Gulch and then turns north and contours along a steep slope northward to Sailor Gulch (Budy 1999: 35HS11-505).

Section 27, T. 40 S. R. 8 W.(W.M.) The Logan/Esterly Middle Ditch crosses a small portion of private lands before it enters Sailor Gulch. The ditch channel on the south side of Sailor Gulch exceeds twenty feet in width. The ditch was washed out where it once crossed the center of Sailor Gulch and was replaced with a flume/trestle (F) which,

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although deteriorated, preserves important construction features. Water was channeled in metal-lined trough supported on the fifteen-foot high trestle (Budy 1999: 35HS11-505).

After crossing the gulch, the ditch traverses along the lower edge of Sailor Gulch for a short distance and then enters a tunnel to cross below the saddle on the ridge between Sailor Gulch and French Flat. The tunnel has collapsed, but piled earth below the tunnel mouth, indicates it required considerable excavation of materials. The north end of the tunnel is on private lands and the ditch traverses west and then north along the slope and contours across private lands to the section line between Sections 27 and 22 (Budy 1999: 35HS11-505).

Section 22, T. 40 S. R. 8 W. (W.M.) The ditch enters Bureau of Land Management property in Section 22 from private lands south of the section line, courses along the upper edge of a low ridge at about 1600 feet elevation and crosses the saddle using an inverted siphon. The siphon consists of a twenty-four inch diameter metal pipe supported by a low wooden flume. Sections of the hydraulic pipe and wooden flume are well preserved on the slope above and southeast of the tunnel, but only faint traces of the wooden supports are visible northwest of the Wimer tunnel. Approximately fifty feet west of the ditch lie the deteriorated remains of a cabin with archaeological evidence that suggests miners occupied it between 1915 and 1930 (Budy 1999: 35HS11-505).

The ditch then travels northward along the upper edge of another low ridge along the west side of French Flat. Near the north end of Section 27, the ditch branches. One arm crosses the saddle via a low tunnel-like cut. The other arm courses along the slope above the Esterly Chromite Mine and eventually moves onto private lands in Section 15.

Integrity

The portions of the Logan/Esterly Middle Ditch on Bureau of Land Management property are well preserved although some re-vegetation of the berm and channel has occurred. Although the flumes, piping, and tunnel are deteriorated, the ditch channel itself retains integrity of location, setting, design, and feeling and conveys associations with placer mining activities in the Waldo vicinity.



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### Significance

The Logan/Esterly Middle Ditch, like other mining ditches, had many names throughout its long history. For purposes of this nomination, the Logan and Esterly names, prominently associated with the ditch during the period of significance have been selected to identify the waterway.

The Logan/Esterly Middle Ditch, one of six properties in this nomination associated with the Logan/Esterly mining operations, was constructed in 1853 and used continuously until 1942. The ditch is locally significant for its association with mining the Upper Illinois Valley. Submitted as part of a multiple property submission, "Mining Resources of the Upper Illinois Valley, Oregon," the Logan/Esterly Middle Ditch represents its associated historic context, "Gold Placer Mining and Development of the Waldo Vicinity, 1851-1942." The Logan/Esterly Middle Ditch meets the registration requirements outlined in the registration document. Built and first used in 1853, the Logan/Esterly Middle Ditch was developed and used throughout the historic period. It retains integrity of location, setting, design and feeling and evokes direct historic associations with mining in the Upper Illinois Valley. The Logan/Esterly Middle Ditch is eligible to the National Register of Historic Places under Criterion A as an important, tangible representative of historic mining activities in the Upper Illinois Valley.

### History

The Logan/Esterly Middle Ditch [Middle Ditch] was built in 1852-1853 by the Sailors' Diggings Water Mining and Milling Company to bring water from the East Fork of the Illinois River to the mines (Street and Street 1973: 3). The company consisted of B.J. Bell, R.H. Deaderrich, Henry Kenady, George Sam Rice, Sherman Stevens, James B. Taylor and John Waters. These men used the water to operate their own mines and a sawmill and they also sold water to the other mine owners. The ditch, originally three miles long, provided water to the lower part of Allen and Sailors' gulches and supplied miners working these areas between the 1850's and early 1870s.

About 1883, George Simmons acquired extensive mining property located on the former Samuel Scott Donation Land Claim. He soon sold a half-interest in the property to Frank Ennis and Theodoric Cameron. Mining records show that Frank Ennis et. al.

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established the groups first placer location on February 26, 1883 (Josephine County Mining Records 4:368). In 1887 Theodoric Cameron located additional mining ground (Josephine County Mining Records 5:135). Holding 900 acres, the firm was known as Ennis, Simmons and Co. (Josephine County Deeds 3:300; *Rogue River Courier* July 30, 1886; Chapman Publishing Company 1904:229.)

Simmons, Cameron and Ennis obtained water rights to the Upper and Middle Ditches and put in a long placer mining tail race more than three miles long and in some places over seventy feet deep. In 1886 the local newspaper noted, "The company has an immense ditch which they take from the river on the line of the old ditch but which has been enlarged...." (*Rogue River Courier* July 30, 1886 in Street:1973: 30).

Ennis eventually sold out his interest in the company and when James T. Logan joined Simmons and Cameron in the endeavor, the mine became known as the Simmons, Cameron and Logan Mine. In September 1900, Logan married Ella Simmons, daughter of George and Jane Simmons. Following his father-in-law's death on October 6, 1901, Logan assumed management of operations (Josephine County Marriage Records; Chapman Publishing Company 1904: 986; *Grants Pass Daily Courier* December 31, 1927, 1:6; *Grants Pass Bulletin* January 29, 1937,1:6; Josephine County Mining Records, 4:457).

In March 1902 James Logan acquired the Cameron share of the mining property known as the 'Simmons and Cameron claims.' The transfer included improvements described as the Upper Ditch, the Upper race, the Lower Main Pipe Ditch and the main sluice ditch (Josephine County Mining Records 4:476). At this time, the Middle Ditch was extended to the north to access several placer mines near Carroll Slough. From 1907 on, Logan focused much of his mining efforts on four pits in the French Flat area. While ample water was available during the mining season, Logan operated hydraulic giants in the pits, as well as two hydraulic elevators and one giant for stacking tailings (Shenon 1933:187). The Logan/Esterly Upper and Middle Upper Ditches provided water for these operations.

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In 1916 geologists noted that the Logan Simmons and Cameron mine, “commonly known as the Logan Placer,” was under option to George Esterly of Seattle, Washington. Geologists described the property at that time:

Several long ditches carry water from the higher portions of the east and west forks of the Illinois River to the placer ground. ... There are three ditches, the water from one being used in the elevator under a head of 325 feet, that from another being employed in 2 giants, and that from the third being used to clear away the tailings from the end of the sluice at the head of the elevator (Parks and Swartley 1916:143)

On June 26, 1917 George and Marilla Esterly and James Logan located a placer claim, and on August 16, 1917 Logan sold his part in the mining operation to the Waldo Corporation of Seattle, Washington. George M. Esterly was the company’s general manager (Josephine County Deed Records 28:276). After 1917, the Middle Ditch came to be known as Esterly's Middle Ditch. (Budy 199:35HS11-505).

George Esterly was born June 15, 1868 in Wisconsin. Described in the Portland Oregonian as “one of the best-known mining men in the west,” Esterly was a mechanical and mining engineer who had developed extensive Alaskan mining interests. He and his wife, Marilla Esterly invested in a sizeable tract and gave the name Llano de Oro or Plain of Gold to their mine. With their purchase the mines and the ditch increasingly became known under the Esterly name. The Esterlys extensively modified the Logan home near the Waldo road and installed up-to-date mining equipment on the property. Esterly would live out his life at Waldo where he died on December 2, 1931 (*Portland Oregonian* December 4, 1931, 19:5-6).

In December 1920, the Waldo Corporation sold mining property not owned personally by the Esterly family, to Seattle buyers (Josephine County Deeds 52:360). In June 1923, these buyers sold to G.W. Hales of Cook County Illinois (Josephine County Deed Records 62:512). In the 1930s, G.W. Hales leased out the mining property to others who worked the property until July 1942 (Hill 1979: 78). The Logan/Esterly Ditch Middle Ditch remained in use by these lessees and others until 1942.

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Logan Esterly Middle Ditch

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### Bibliography

Budy, Elizabeth E.

1999 *Logan/Esterly Middle Ditch* Cultural Site Record 35HS11-505 (for USDI-  
BLM Medford District)

Chapman Publishing Company

1904 *Portrait and Biographical Record of Western Oregon*, Chapman  
Publishing Company Portland, Oregon.

Parks, H.M. and A.M. Swartley

1916 *Handbook of the Mining Industry of Oregon*. Oregon Bureau of Mines and  
Geology, Mineral Resources of Oregon, Volume 2, No. 4.

Street, Willard and Elsie Street

1973 *Sailors' Diggings*. Josephine County Historical Society Reprints, Grants  
Pass, Oregon.

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Mining Resources of the Upper Illinois Valley  
Logan Esterly Middle Ditch

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A map showing locations of the twenty resources included in this Multiple Property Submission is contained with the cover document. Photocopied sections of the USGS map indicating the location of Logan/Esterly Middle Ditch accompanies the nomination document.

**Boundary Description**

The 3.2 mile nominated area of the Logan/Esterly Middle Ditch is located on public lands in the northwest and southwest quarters of Section 22, the southeast quarter of Section 27, and the northeast, northwest, southeast and southwest quarters of Section 34, Township 40 South Range 8 West, (W.M.), Josephine County Oregon. This property is identified on USGS map O'Brien quadrangle (7.5 minute series). The site is further described as follows:

Nominated portions of the Logan/Esterly Middle Ditch, a linear feature, begin at the intersection of the ditch and the southern boundary of Tax Lot 700 in the NW  $\frac{1}{4}$  of the SE  $\frac{1}{4}$  of Section 34, T. 40 S. R. 8W., (W.M.), (as shown on Josephine County Assessor's Map 40-8-34). The ditch then extends north into Section 34 T. 40 S. R. 8 W, (W.M.) and continues further north into Section 27, T. 40 S., R. 8 W., (W.M.) The first segment of the nominated portion ends at the eastern boundary of Tax Lot 700 in the NE  $\frac{1}{4}$  of Section 34, T. 40S, R. 8W. (W.M.) The portion of the ditch that continues northward from this point is on private land, and is not proposed for nomination at this time.

The second nominated segment of the Logan/Esterly Middle Ditch begins on French Flat at the point where the ditch crosses the southern boundary of Tax Lot 200 in the SW  $\frac{1}{4}$  of Section 22, T. 40 S., R. 8 W., (W.M.). This segment extends north to its intersection with the northern property boundary of Tax Lot 200 in the NW  $\frac{1}{4}$  of Section 22, T. 40 S., R. 8 W., (W.M.), which is also the Section 22/15 section line.

The portions of the Logan/Esterly Middle Ditch thus described, constitute the centerline of the linear site. The side boundaries are lines of convenience parallel to the ditch 50 feet on each side of the ditch. The resulting site is 100 feet wide, following the contours of the ditch. The nominated area of the Logan/Esterly Middle Ditch contains 38.757 acres.

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Logan Esterly Middle Ditch**

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**Boundary Justification**

The boundaries of the nominated area of the Logan/Esterly Middle Ditch encompasses approximately three miles of the original eight mile long historic ditch channel on lands administered by the Bureau of Land Management.

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Logan Esterly Middle Ditch

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**UTM References**

<b>Zone</b>	<b>Location</b>	<b>Easting</b>	<b>Northing</b>
10	1 n. end	447911.77306	4658842.59737
	2 n. end spur	447303.95328	4658837.30096
	3 n. section s.end	447346.96907	4657223.27472
	4 s. section n. end	448184.11636	4655147.64782
	5 s. section s. end	447902.59764	4654378.16330

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**Photographs**

Photograph No. 1

- 1) Logan/Esterly Middle Ditch
- 2) NW and SW ¼ Section 22; SE ¼ Section 27; NE, NW, SE and SW 1/4 S. 34, T. 40 S. R. 8 W., (W.M). in Josephine County, Oregon.
- 3) Photographer: Elizabeth Budy
- 4) Date of Photograph: September 1999
- 5) Negative holder: Bureau of Land Management, Medford District  
3040 Biddle Road Medford, Oregon 97504
- 6) View: Ditch, trestle supports feature E, looking north
- 7) Photograph number: 1 of 3

Photograph No. 2

- 1) Logan/Esterly Middle Ditch
- 2) NW and SW ¼ Section 22; SE ¼ Section 27; NE, NW, SE and SW 1/4 S. 34, T. 40 S. R. 8 W., (W.M). in Josephine County, Oregon.
- 3) Photographer: Elizabeth Budy
- 4) Date of Photograph: September 1999
- 5) Negative holder: Bureau of Land Management, Medford District  
3040 Biddle Road Medford, Oregon 97504
- 6) View: Ditch berm near flume, looking southeast
- 7) Photograph number: 2 of 3

Photograph No. 3

- 1) Logan/Esterly Middle Ditch
- 2) NW and SW ¼ Section 22; SE ¼ Section 27; NE, NW, SE and SW 1/4 S. 34, T. 40 S. R. 8 W., (W.M). in Josephine County, Oregon.
- 3) Photographer: Elizabeth Budy
- 4) Date of Photograph: September 1999
- 5) Negative holder: Bureau of Land Management, Medford District  
3040 Biddle Road Medford, Oregon 97504
- 6) View: Ditch in Sailor Gulch, looking south
- 7) Photograph number: 3 of 3



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Logan Esterly Middle Ditch

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**Property Owner Notification**

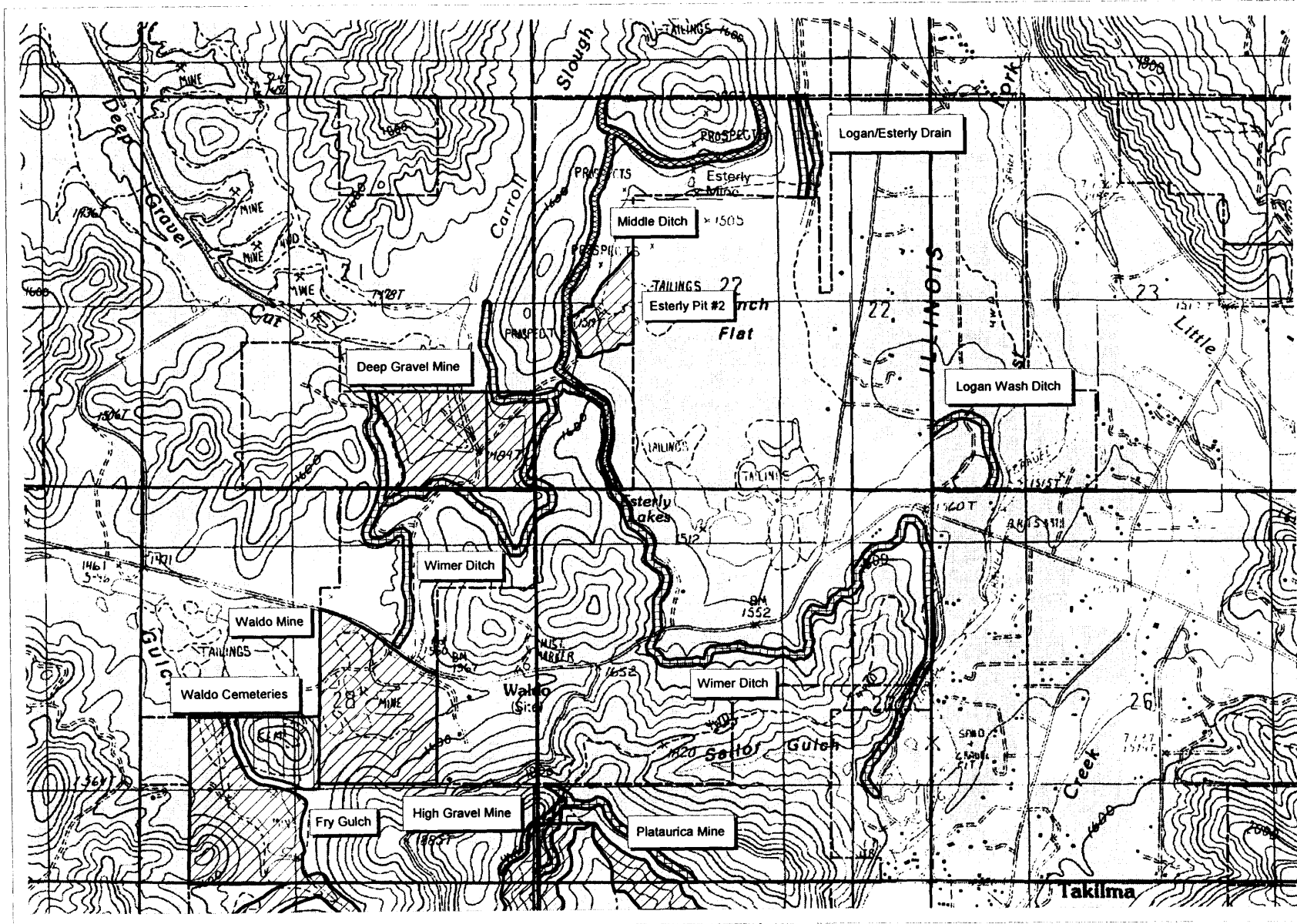
Bureau of Land Management  
Ron Wenker, District Manager  
Grants Pass Resource Area Manager  
Ann Ramage, Archaeologist  
Medford Field Office  
3040 Biddle Road  
Medford OR 97504

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  
18<sup>th</sup> and C Streets, NW  
Washington, DC 20240

# Middle Ditch (Northern Portion)



Middle Ditch  
35HS11-505  
A portion of the  
O'Brien Quad  
(Sec 22, 27, 34  
T40S, R8W, Wm)  
showing  
Historic Placer  
Mining Resources  
in the Waldo Vicinity.

- Ditches**
- Logan Cut
  - Logan Wash Ditch
  - Logan/Esterly Drain
  - Middle Ditch
  - Osgood Ditch
  - Upper Ditch
  - Wimer Ditch

- General Symbology**
- Ditches
  - Mines
  - Town, cemetery
  - BLM boundary
  - Section Lines



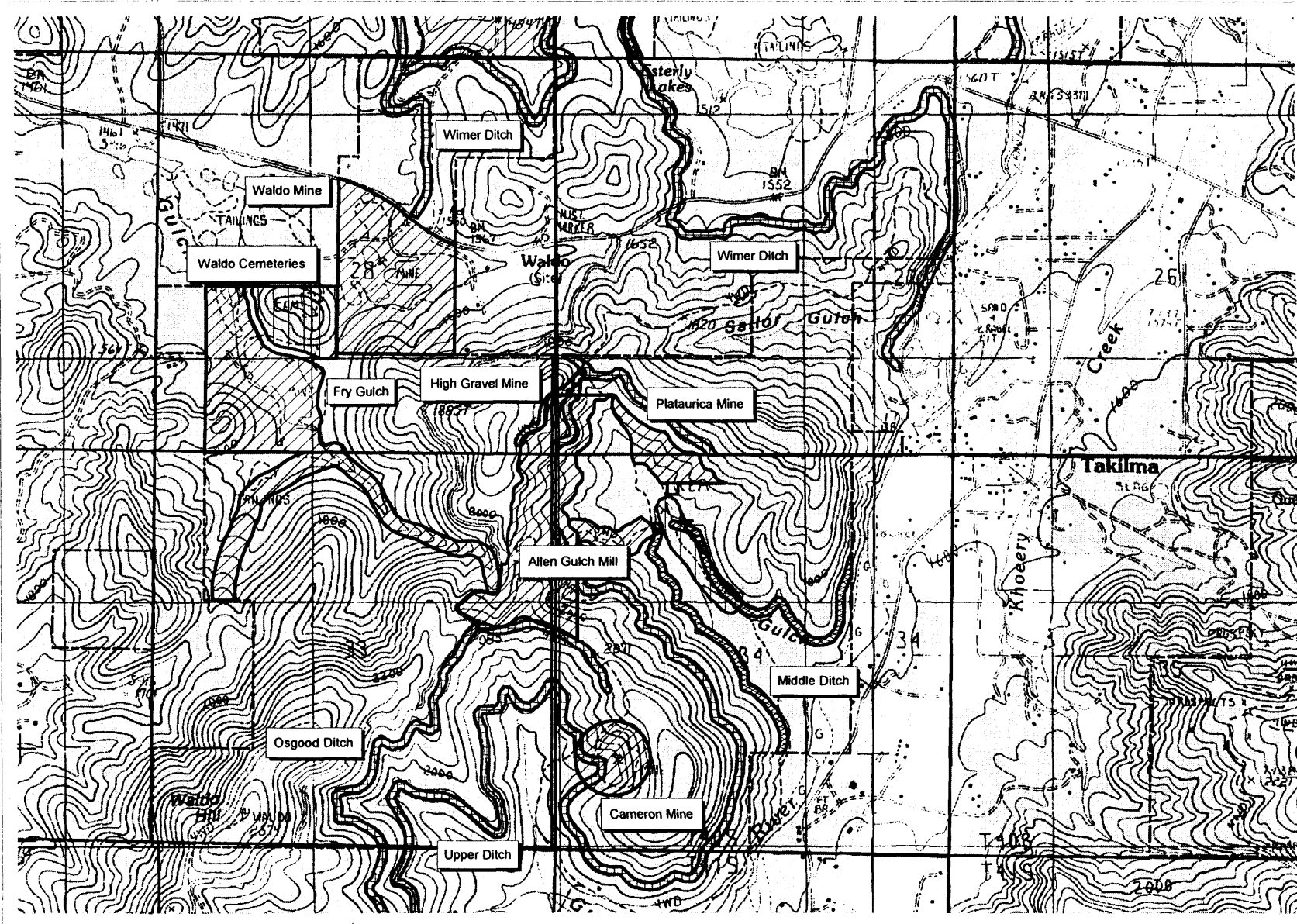
500 0 500 1000 1500 Feet  
1:24000 1" = 2000'

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).

# Middle Ditch

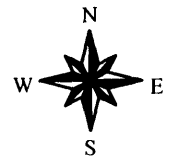
(Southern Portion)

Middle Ditch  
35HS11-505  
A portion of the  
O'Brien Quad  
(Sec 22, 27, 34  
T40S, R8W, Wm)  
showing  
Historic Placer  
Mining Resources  
in the Waldo Vicinity.



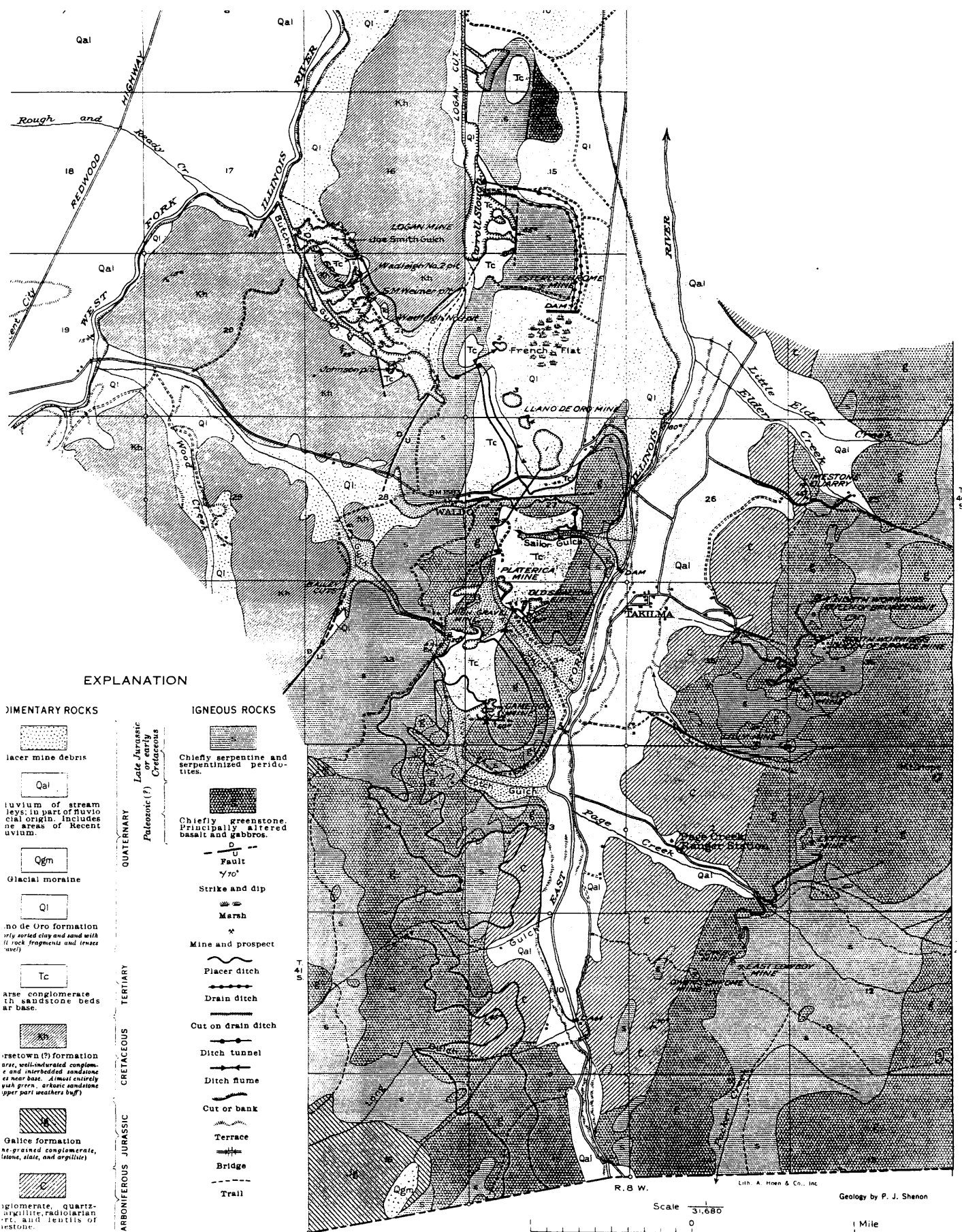
- Ditches**
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  - Logan Wash Ditch
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**EXPLANATION**

**SEDIMENTARY ROCKS**

- Placer mine debris
- Alluvium of stream beds, in part of fluvio glacial origin. Includes the areas of Recent alluvium.
- Glacial moraine
- Llano de Oro formation (very sorted clay and sand with little rock fragments and lenses well)
- Arise conglomerate (with sandstone beds at base)
- Forestown (?) formation (are, well-indurated conglomerate and interbedded sandstone or near base. Almost entirely pink green, arkose sandstone upper part weathers buff)
- Gallice formation (fine-grained conglomerate, limestone, slate, and argillite)
- Conglomerate, quartzite, argillite, radiolarian etc. and lentils of restone.

**IGNEOUS ROCKS**

- Chiefly serpentine and serpentinized peridotites.
- Chiefly greenstone. Principally altered basalt and gabbros.
- Fault
- Strike and dip
- Marsh
- Mine and prospect
- Placer ditch
- Drain ditch
- Cut on drain ditch
- Ditch tunnel
- Ditch flume
- Cut or bank
- Terrace
- Bridge
- Trail

QUATERNARY  
 PLEISTOCENE (?)  
 TERTIARY  
 CRETACEOUS  
 JURASSIC  
 CARBONIFEROUS

R. 8 W.  
 Scale  $\frac{1}{31,680}$   
 Lith. A. Hoer & Co., Inc.  
 Geology by P. J. Shenon  
 1 Mile

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

# Sketch MAP

LOGAN/Esterly  
Middle Ditch

35H511-505

 = PRIVATE LAND

A ■ = HEAD BOX

+++ = Flume/TRESTLE

— = Tunnel

△ = Datum

... = TRAIL

## Features

A = Small Headbox

B = Tunnel-like Feature  
over Saddle/Ditch  
BRANCH

C = INVERTED Siphon,  
metal pipe supported  
on wooden Flume

D = Tunnel

E = High TRESTLE

F = Low TRESTLE/Flume

G = Low TRESTLE / Flume

