

United States Department of the Interior  
National Park Service

National Register of Historic Places  
Registration Form

1149

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 Upper Ditch

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

2. Location

street & number Historic Channel of Logan/Esterly Upper Ditch  
South of Cave Junction, Oregon (Oregon and California)  not for publication

city or town Cave Junction (USDI BLM Medford District)  vicinity

state Oregon code OR county Josephine code 033 zip code 97523  
(USFS Siskiyou National Forest)

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 A. Kuehler 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.)

James Hannah 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

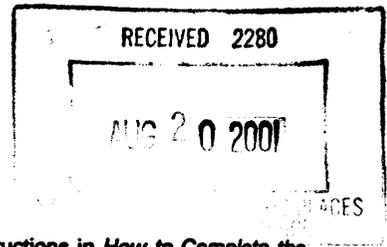
I hereby certify that the property is:

- 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:)

John A. Kuehler  
Signature of the Keeper  
Entered in the  
National Register

Date of Action  
10-4-01

United States Department of the Interior  
National Park Service



# National Register of Historic Places Registration Form

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

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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): _____	_____	_____

Logan/Esterly Upper Ditch

Josephine Oregon

Name of Property

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
_____	_____	sites
1	_____	structures
_____	_____	objects
1	_____	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/EXTRACTIVE

Current Functions

(Enter categories from instructions)

NOT IN USE

7. Description

Architectural Classification

(Enter categories from instructions)

NO STYLE

Materials

(Enter categories from instructions)

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

Logan/Esterly Upper Ditch

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**

1854-1942

**Significant Dates**

1854

**Significant Person**

(Complete if Criterion B is marked above)

N/A

**Cultural Affiliation**

N/A

**Architect/Builder**

Unknown

**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



**United States Department of the Interior  
National Park Service**

**National Register of Historic Places  
Continuation Sheet**

Mining Resources of the Upper Illinois Valley

Logan/Esterly Upper Ditch

**Section Number:** 7 **Page:** 1

---

Summary Description

The Logan/Esterly Upper Ditch is associated with placer mining in the Waldo vicinity from 1854 (the date of ditch construction) to 1942, the end of the historic period. In its individual configuration and relationship to adjacent mining resources, the Logan/Esterly Upper Ditch enables us to clearly understand the technology employed to extract gold from the hillsides. The sections of the Logan/Esterly Upper Ditch situated on federal lands retain integrity of location, design, setting, workmanship and feeling and accurately conveys the waterway's historic associations.

Location and Setting

The Logan/Esterly Upper Ditch is located on lands managed by two federal agencies. Four and one-tenths miles of the 7.6-mile Upper Ditch are included in this nomination. (Although historic mining ditches often had a number of auxiliary ditches, a determination of mileage has been made in this nomination for the main ditch channel only). Portions of the ditch on Bureau of Land Management lands lie in the southwest quarter of Section 27, the northwest and southwest quarters of Section 34, the southeast quarter of Section 33, Township 40 South, Range 8 West (W.M.), and the southwest quarter of Section 3, Township 41 South, Range 8 West, W.M. (Josephine County Assessor's Plats 40-8-27, 40-8-34, 40-8-33 and 41-8-3). Portions of the ditch managed by the Siskiyou National Forest. These portions extend into the northeast and southeast quarters of Section 4, the northeast quarter of Section 9, the northwest and the southwest quarters of Section 10, and the northwest and southwest quarters of Section 15, Township 41 South, Range 8 West, (W.M.) (Josephine County Assessor's Plats 41-8-4, 41-8-9, 41-8-10 and 41-8-15). Crossing the California border, the ditch crosses Siskiyou National Forest land in the northeast and southeast quarters of Section 33 and the northeast and southeast quarters of Section 4, Township 19 North, Range 5 East, (H.M.) (Del Norte County Assessor's Plats 19-5-4 and 19-5-33). Access to the Bureau of Land Management ditch portions are from an unpaved road to Allen Gulch that leads from the Waldo Lookout Road. Access to the Siskiyou National Forest Service portions of the ditch is from Forest Service Road 4904-001.

On Bureau of Land Management property, the Logan/Esterly Upper Ditch lies along steep, thickly forested ridge slopes above the placer diggings in Scotch and Allen

**United States Department of the Interior  
National Park Service**

**National Register of Historic Places  
Continuation Sheet**

Mining Resources of the Upper Illinois Valley  
Logan/Esterly Upper Ditch

**Section Number:** 7      **Page:** 2

---

Gulches at an elevation that ranges between 1,850 and 1,980 feet above sea level. On Siskiyou National Forest lands, the ditch elevation is slightly higher, ranging between 1,920 and 2,000 feet above sea level. The ditch contains 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, and poison oak. Water for the ditch was taken from the East Fork Illinois River (Budy 1999:35HS11-396).

Site Description

About two miles of the Logan/Esterly Upper Ditch and a collapsed tunnel are preserved above the diggings in Scotch and Allen gulches. The ditch channel varies between three and four feet in depth and between five to ten feet in width. In several locations, the total width of the ditch including the adjacent berm totals between fifteen to twenty feet in width.

For purposes of this nomination, the portion identified as Section 1 of the Logan/Esterly Ditch, begins in California on Siskiyou National Forest lands where the ditch ranges from three to six feet in width. Depth of the ditch channel in this area ranges from one foot to five feet. Several wooden trestles and flumes that originally crossed streams and gulches were destroyed by wildfires in 1987. The ditch has undergone sedimentation in some locations (Thompson 1988: FS Site # SK-388).

The second portion of the ditch is a well-preserved portion that extends from the south edge of the High Gravel Mine around the slopes of Allen and Scotch gulches. Hydraulic mining washed out several sections of the Logan/Esterly Upper Ditch where it traversed the High Gravel Mine property. The main channel of the Logan/Esterly Upper Ditch, extends from the tunnel mouth (previously recorded by Kelly 1999b) along the slope on the west side of Allen Gulch. Here the ditch channel is very large, measuring ten to twelve feet wide with a four foot wide berm, and four feet in depth. The ditch is well preserved from the mouth of the tunnel to the workings of the High Gravel Mine. The tunnel, now collapsed, once ran under the saddle at an elevation of about 1850 feet and provided water to Waldo and Fry gulch diggings (Budy 1999: 35HS396; Thompson 35HS11-396).

United States Department of the Interior  
National Park Service

National Register of Historic Places  
Continuation Sheet

Mining Resources of the Upper Illinois Valley  
Logan/Esterly Upper Ditch

Section Number: 7 Page: 3

---

The northernmost portion of the Logan/Esterly Ditch comprises a pipeline ditch that extends from the tunnel mouth southeast along the upper slope above the Plataurica Mine to a point above unidentified hydraulic cuts to the south. Workers for the Plataurica Mining Company that worked Allen Gulch from 1929 to about 1942, probably built the pipeline in the 1930s (DOGAMI 1952: 211; Shenon 1933: 185). In this segment, the ditch is approximately one and one-half feet deep and three feet wide and is oriented along the slope at a bearing of about 50 degrees. The pipeline ditch is overgrown with manzanita and buckbrush (Budy 1999:35HS11-396).

Integrity

On Bureau of Land Management lands, the Logan/Esterly Upper Ditch is well preserved in Sections 27, 33, and 34 (T.40S., R.8W.) except where workings at the High Gravel and Cameron mines have compromised it. On Siskiyou National Forest lands the ditch is intact except at a few locations where it has experienced erosion and sedimentation. The Logan/Esterly Upper Ditch retains its integrity of location, setting, design, and feeling and conveys the associations with placer mining activities in the Waldo vicinity. The ditch enables the observer to understand the mining and water manipulation technology that significantly affected development in the Upper Illinois Valley.

**United States Department of the Interior  
National Park Service**

**National Register of Historic Places  
Continuation Sheet**

Mining Resources of the Upper Illinois Valley  
Logan/Esterly Upper Ditch

**Section Number:** 8      **Page:** 1

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**Significance**

The Logan/Esterly Upper 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 Upper Ditch, one of six properties included in this nomination that related to the Logan/Esterly mining operations, was constructed in 1854 and used continuously until 1942. It is locally significant for its association with mining technology and water manipulation in the Upper Illinois Valley, Waldo vicinity. Submitted as part of a multiple property submission, "Mining Resources of the Upper Illinois Valley, Oregon," the Logan/Esterly Upper Ditch represents its associated historic context, "Gold Placer Mining and Development of the Waldo Vicinity, 1851-1942." The Logan/Esterly Upper Ditch meets the registration requirements outlined in the registration document. It was developed in the historic period and retains its integrity of location, setting, design and feeling to evoke direct historic associations with mining in the Upper Illinois Valley. The Logan/Esterly Upper Ditch is eligible to the National Register of Historic Places under Criterion A.

History

The Logan/Esterly Upper Ditch is consistently referred to as the Upper Ditch on historic documents, but its name changes according to specific ownership at the time. Several names recur frequently: Sailors' Diggings Water Mining and Milling Company Upper Ditch (Josephine County Mining Records; cited in Atwood 1999; Street and Street 1973), Logan's Upper Ditch (Waldo CGMC Map 1911), and Esterly's Upper Ditch (Watermaster's Map n.d.).

The Logan/Esterly Upper Ditch [Upper Ditch] is one of two ditches built by the Sailors' Diggings Water Mining and Milling Company (Street and Street 1973:3). The company, organized in 1852 to bring water from the East Fork Illinois to the mines in the Waldo vicinity, consisted of B.J. Bell, R.H. Deaderrich, Henry Kenady, George Sam Rice, Sherman Stevens, James B. Taylor, and John Walters. These men used the water to

United States Department of the Interior  
National Park Service

National Register of Historic Places  
Continuation Sheet

Mining Resources of the Upper Illinois Valley  
Logan/Esterly Upper Ditch

Section Number: 8 Page: 2

---

operate their own mines, and to run a sawmill, but they also sold water to other mine owners (Budy 1999: 35HS11-396).

The Mining and Milling Company built the Upper Ditch in 1854 to bring water to the upper portions of the diggings in Scotch, Allen, and Sailors' gulches. By means of a tunnel, the ditch also provided water to Waldo and Fry Gulch mines. The original ditch was constructed at a cost of \$75,000 or \$80,000, and "...when fairly well underway, paid for itself in the first year" (Raymond 1870:213; cited in Shenon 1933c:179). A local resident in 1870 noted that the ditch proved to be a good investment for stock holders, "It paid heavy dividends to its stock holders for ten or twelve years, and many parties who live sumptuously every day "owe their fortune to their connection with the Sailor Diggings Ditch Company" (Shenon 1933c:179 cited in Budy 1999:35HS11-396). Miners who purchased the water, however, had a different view and claimed that "...the company gouged them for every dollar they could get" (Street and Street 1973:3; Budy 1999:35HS11-396).

In 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. established the group 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 two ditches built by the Sailors' Diggings Water Mining and Milling Company 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,

United States Department of the Interior  
National Park Service

## National Register of Historic Places Continuation Sheet

Mining Resources of the Upper Illinois Valley

Logan/Esterly Upper Ditch

Section Number: 8 Page: 3

---

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 and gradually the mines and the Upper Ditch acquired the his name (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). Beginning about 1907, 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.

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. Engineer L.A. Levensaler of Tacoma had taken charge of investigating the mining prospects of the property (Parks and Swartley 1916:143). The authors 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. ... A hydraulic elevator was used to remove material from the pit, which had a maximum depth of about 15 feet.. 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, along with James Logan located a placer claim, and on August 16, 1917 James Logan sold his mining operation to the Waldo Corporation. This newly-formed organization had \$100,000 in capital stock and an office

United States Department of the Interior  
National Park Service

National Register of Historic Places  
Continuation Sheet

Mining Resources of the Upper Illinois Valley  
Logan/Esterly Upper Ditch

Section Number: 8 Page: 4

---

in Seattle. George M. Esterly was the company's general manager (Josephine County Deed Records 28:276; Josephine County Mining Records 23:233-234).

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 personal funds in a sizeable tract and gave the name Llano de Oro or Plain of Gold to their extensive mine. With their purchase the mines and the ditch increasingly became known under the Esterly name. The Esterlys replaced or extensively modified the Logan home near the Waldo road and installed a significant amount of 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, buildings, barns and equipment, not owned personally by the Esterly family, to Victor H. Elfsendahl and Thad Sweek of Seattle (Josephine County Deeds 52:360). In June 1923, these buyers sold the property 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 Upper Ditch remained in use by these lessees and others until 1942.

United States Department of the Interior  
National Park Service

National Register of Historic Places  
Continuation Sheet

Mining Resources of the Upper Illinois Valley  
Logan/Esterly Upper Ditch

Section Number: 9 Page: 1

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**Bibliography**

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1999 *Logan/Esterly Upper Ditch Cultural Site Record 35HS11-396* (for USDI-  
BLM Medford District)

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1904 *Portrait and Biographical Record of Western Oregon*, Chapman  
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1942 *Oregon Metal Mines Handbook, Bulletin 14-C Southwestern  
Oregon*, Volume 2, Section 1 [Josephine County], Portland, Oregon.

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1999b Site Record for 35HS11-396, Sailor's Diggings Ditch Company Tunnel.  
On File, Bureau of Land Management, Medford District.

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

1916 *Handbook of the Mining Industry of Oregon*. Oregon Bureau of Mines and  
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Shenon, Philip J.

1933c *Geology and Ore Deposits of the Takilma-Waldo District, Oregon,  
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1973 *Sailors' Diggings*. Josephine County. Historical Society Grants Pass, Oregon.

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1988 *Cultural Resource Reconnaissance Report for the Longwood Fire  
Complex*. Report on File Illinois Valley Ranger District, Siskiyou  
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United States Department of the Interior  
National Park Service

## National Register of Historic Places Continuation Sheet

Mining Resources of the Upper Illinois Valley  
Logan/Esterly Upper Ditch

Section Number: 9      Page: 2

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### Bibliography (cont)

Waldo Consolidated Gold Mining Company  
1911 Map of "Waldo Consolidated Gold Mining Co. of Oregon Property in the  
Waldo Mining District, Josephine County." Josephine County Historical  
Society, Grants Pass, Oregon.

United States Department of the Interior  
National Park Service

National Register of Historic Places  
Continuation Sheet

Mining Resources of the Upper Illinois Valley  
Logan/Esterly Upper Ditch

Section Number: 10 Page: 1

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A map showing locations of the twenty resources included in this Multiple Property Submission is contained with the cover document. Sections of the USGS maps indicating the location of the Logan/Esterly Upper Ditch accompany the nomination document.

**Boundary Description**

The Logan/Esterly Upper Ditch is located in Josephine County Oregon and Del Norte County, California. The property is identified on USGS maps O'Brien and Broken Rib quadrangles (7.5 minute series). This nomination includes 4.1 miles of the ditch. The site is further described as follows:

The Upper Ditch begins in Del Norte County California at its head on the East Fork, Illinois River, in the NE 1/4 of section 4, T. 19 N., R. 05 E. (H.M.) This segment of the ditch continues northward into Josephine County, Oregon, to its terminus at the point where the ditch crosses the section line between Sections 15 and 10 into the NE 1/4 Section 15, T. 40 S., R. 8 W. (W.M).

The next segment of the Logan/Esterly Upper Ditch proposed for nomination begins at the point where the Upper Ditch crosses the Section 9/10 line in the NE 1/4 of Section 9, T. 41 S., R. 8 W., (W.M). and continues northwest to the point where the ditch re-crosses the Section 9/10 line, also in the NE 1/4 of Section 9, T. 41 S., R. 8 W.,(W.M).

The third segment of the Upper Ditch proposed for nomination begins at the point where the ditch crosses the Section 4/3 line in the SE 1/4 of Section 4, T. 41 S., R. 8 W., W.M. This segment continues northward into Section 33, T. 40 S., R. 8 W., W.M. and eastward into Section 34. The segment continues north to the point where the ditch crosses the eastern boundary of the High Gravel Mine site in the NW 1/4 of Section 34, T. 40 S., R. 8 W. (W.M).

The fourth segment of the Upper Ditch begins at the point where the ditch crosses the northern boundary of the High Gravel Mine site in the SW 1/4 of Section 27, T. 40 S., R. 8 W. This segment of the Upper Ditch continues east and south around the Plataurica Mine site, ending at the point where the ditch crosses the Section 27/34 line in the SW 1/4 of Section 27, T. 40 S., R. 8 W., (W.M).

**United States Department of the Interior  
National Park Service**

**National Register of Historic Places  
Continuation Sheet**

Mining Resources of the Upper Illinois Valley  
Logan/Esterly Upper Ditch

**Section Number:** 10      **Page:** 2

---

**Boundary Description (cont')**

The portions of the Logan/Esterly Upper Ditch thus described constitute the centerline of the linear site. The side boundaries of this linear site are lines of convenience parallel to the ditch extending fifty feet on each side of the channel. The resulting site is 100 feet wide, following the contours of the Logan/Esterly Upper Ditch. The nominated area contains 104.305 acres.

**Boundary Justification**

The boundaries of the nominated area of the Logan/Esterly Upper Ditch encompasses approximately nine miles of the historic ditch channel on lands administered by the Bureau of Land Management and the U.S. Forest Service.

United States Department of the Interior  
National Park Service

National Register of Historic Places  
Continuation Sheet

Mining Resources of the Upper Illinois Valley  
Logan/Esterly Upper Ditch

Section Number: 10 Page: 3

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UTM References

Zone	Location	Easting	Northing
10	1 (n. end)	447058.50135	4656003.70782
	2 (middle High Gravel)	446973.65188	4655321.22294
	3 (n. section s.end)	446955.96485	4652874.59263
	4 (mid. section n. end)	447008.51502	4652211.14683
	5 (s. section n. end)	447451.77106	4650733.49230
	6 (s. section s. end)	448099.96894	4647769.40297



**United States Department of the Interior  
National Park Service**

**National Register of Historic Places  
Continuation Sheet**

Mining Resources of the Upper Illinois Valley  
Logan/Esterly Upper Ditch

**Section Number:** 11 **Page:** 1

---

**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

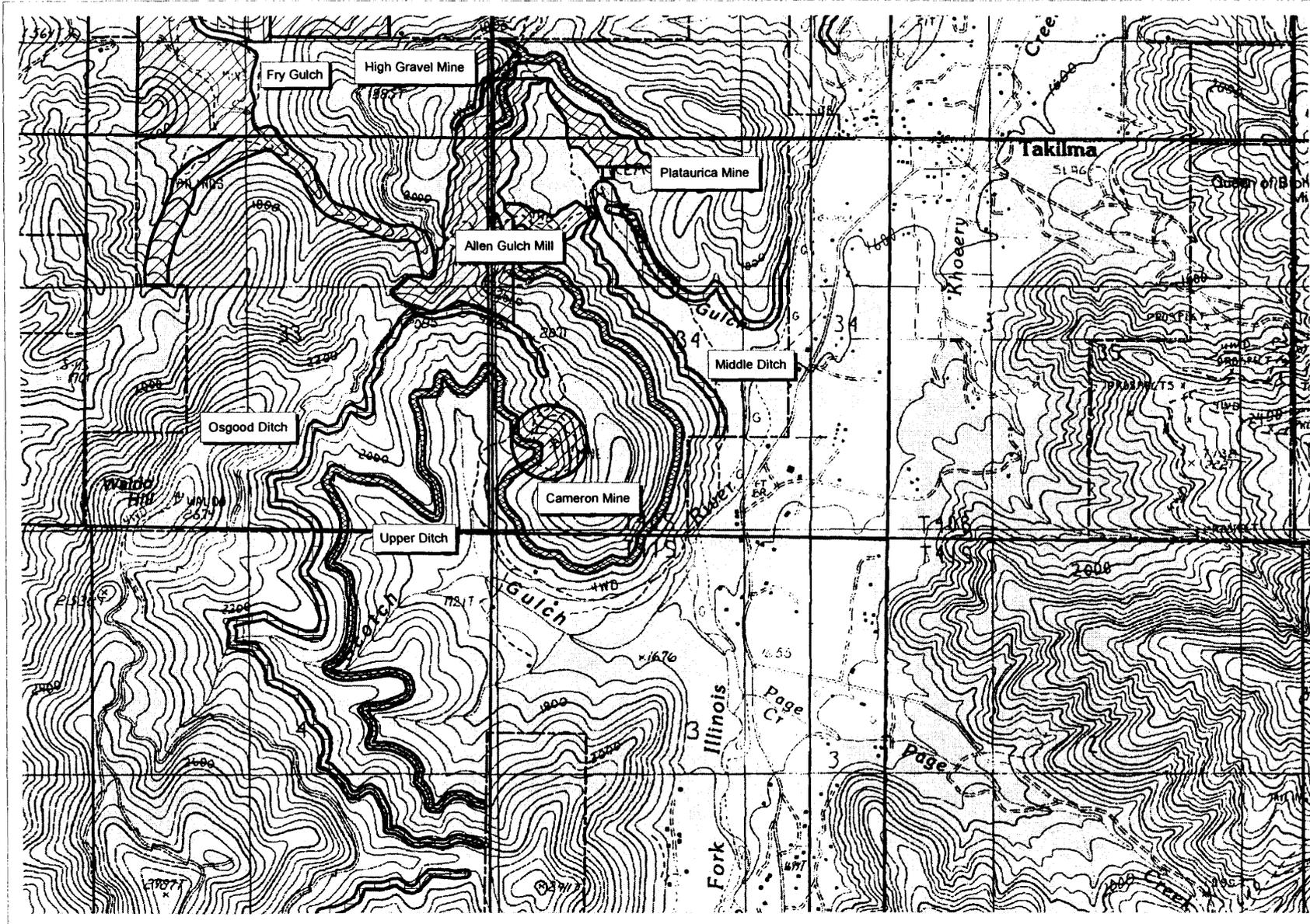
Oregon-Washington State Office  
Bureau of Land Management  
Elaine Zielinski, Director  
Richard Hanes, Cultural Resource Lead  
PO Box 2965  
Portland OR 97208-2965

U.S. Forest Service  
Jack Williams, Forest Supervisor  
Siskiyou National Forest  
Federal Building  
P.O. Box 520  
Medford, Oregon, 97501

**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

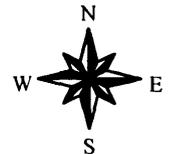
# Upper Ditch (Northern Portion)



Upper Ditch  
35HS11-396  
A portion of the  
O'Brien Quad  
(Sec 27, 33, 34  
T40S, R8W, wm &  
Sec 3, 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

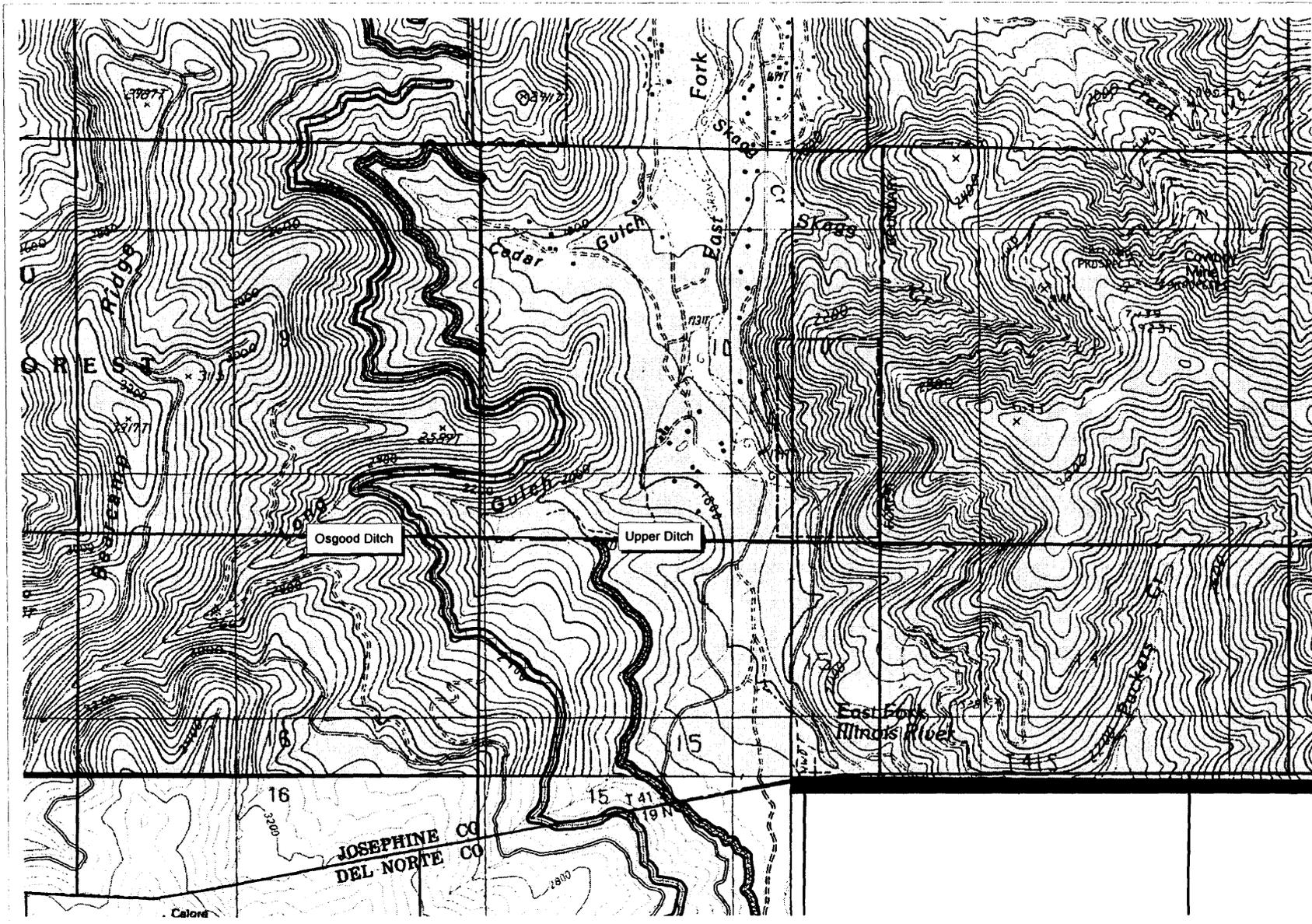


500 0 500 1000 1500 Feet  
1:24000 1" = 2000'

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).

# Upper Ditch

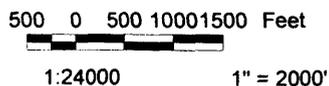
(Middle Portion)



Upper Ditch  
 35HS11-396  
 A portion of the  
 O'Brien Quad  
 (Sec 27, 33, 34  
 T40S, R8W, wm &  
 Sec 3, 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
  - Wilmer Ditch

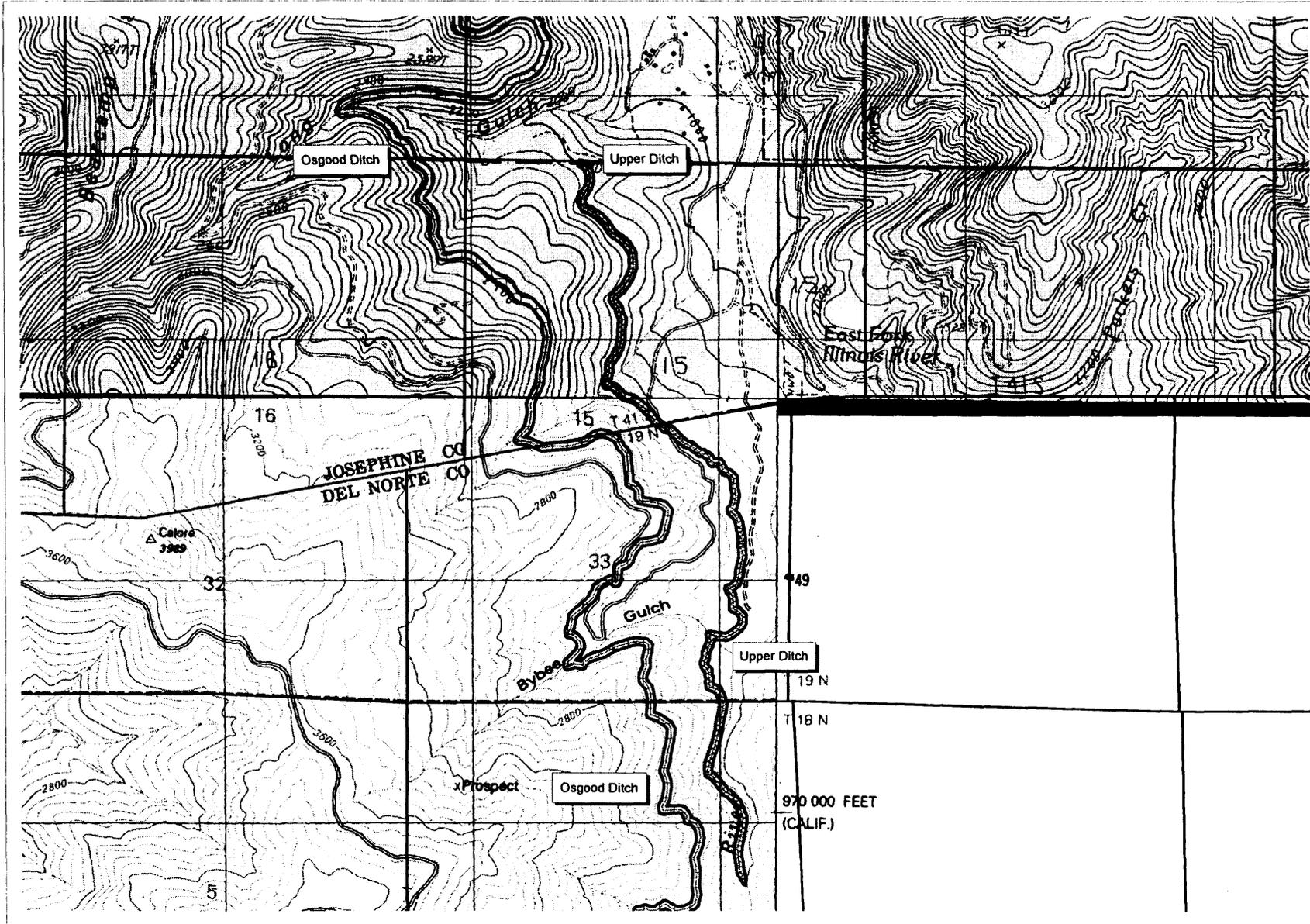
- General Symbology**
- Ditches
  - Mines
  - Town, cemetery
  - BLM boundary
  - Section Lines



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).

# Upper Ditch

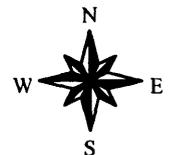
(Southern Portion)



Upper Ditch  
 35HS11-396  
 A portion of the  
 O'Brien Quad  
 (Sec 27, 33, 34  
 T40S, R8W, 7m &  
 Sec 3, T40S, R8W, 7m)  
 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

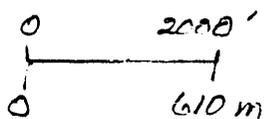
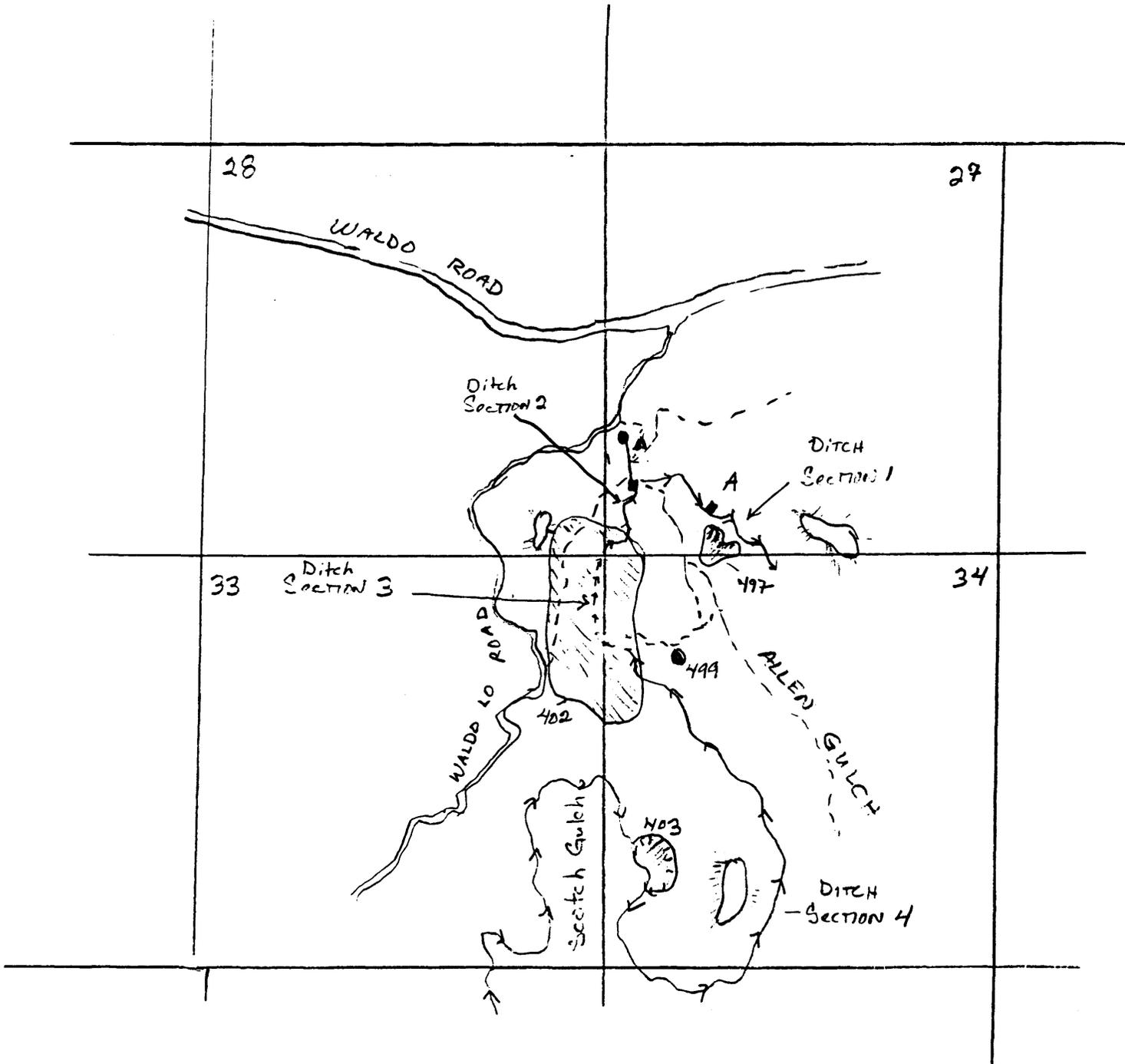


500 0 500 1000 1500 Feet  
  
 1:24000      1" = 2000'

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).

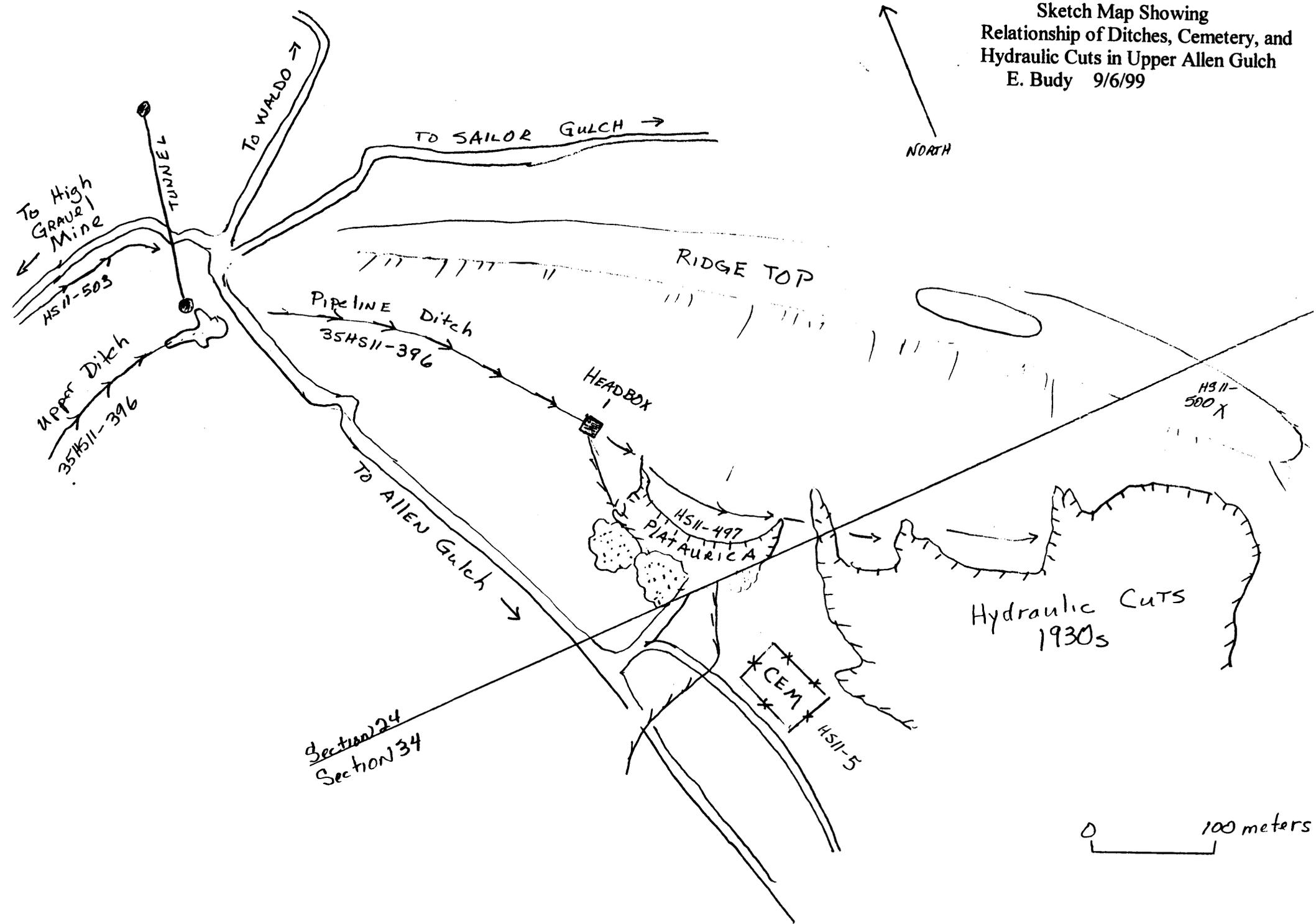
Sketch MAP  
 LOGAN Esterly  
 Upper Ditch  
 35 HS 11-396  
 9/6/99  
 E. Budy

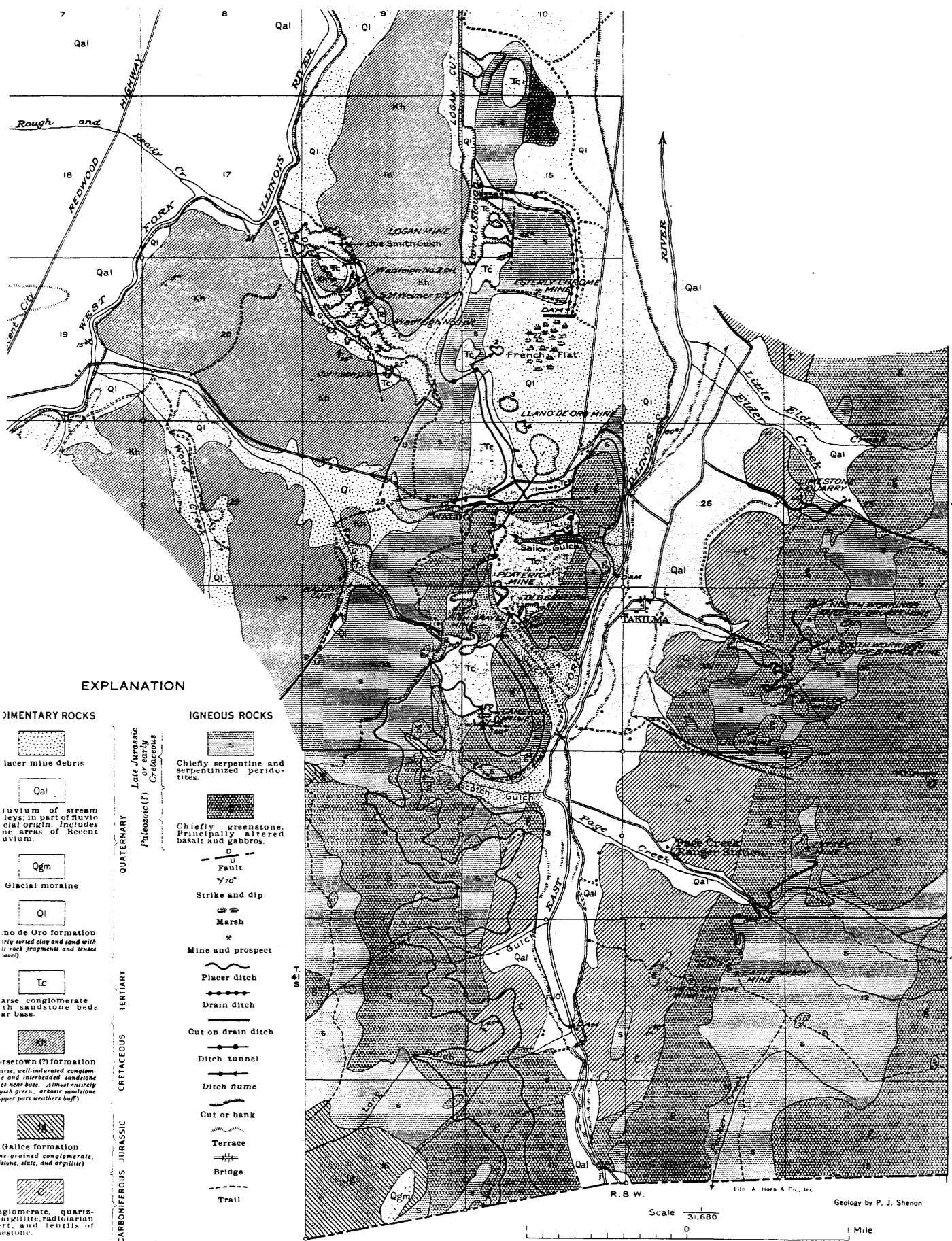
- KEY
- == = ROAD
  - = JEEP TRAIL
  - = Ditch
  - A ■ = Headbox, FEATURE A
  - B | = Tunnel, FEATURE B
  - ▲ = DATUM



T. 403. R. 8 W.

Sketch Map Showing  
Relationship of Ditches, Cemetery, and  
Hydraulic Cuts in Upper Allen Gulch  
E. Budy 9/6/99





**EXPLANATION**

**SEDIMENTARY ROCKS**

- Placer mine debris
- Alluvium of stream leys, in part of fluvial origin. Includes no areas of Recent alluvium.
- Glacial moraine
- de Oro formation (very sorted clay and sand with li rock fragments and lenses of shale)
- Coarse conglomerate in sandstone beds at base
- Forestown (?) formation (fine, well-sorted conglomerate and interbedded sandstone on near base. Almost entirely gray green, arkosic sandstone upper part weathers buff)
- Galice formation (fine-grained conglomerate, limestone, slate, and argillite)
- Conglomerate, quartzite, radiolarian (fine-grained, buff, and lenses of redstone)

**IGNEOUS ROCKS**

- Chiefly serpentine and serpentinized peridotites.
- Chiefly greenstone. Principally altered basalt and gabbros.

QUATERNARY  
 Tertiary  
 CRETACEOUS  
 JURASSIC  
 CARBONIFEROUS

Late Jurassic or early Cretaceous  
 Paleozoic (?)

- 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

Scale 1/31,680

Geology by P. J. Shenon

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