

United States Department of the Interior
National Park Service

1143

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 Fry Gulch Mine
other names/site number N/A

2. Location

street & number Approx. 0.75 miles from the intersection of N/A not for publication
Waldo Road and BLM Road 40-8-28 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.)

John G. Dunbar 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.)

Sam Hannah 12/18/00
Signature of certifying official/Title Date
Deputy SHPO
Oregon State Historic Preservation Office
State or Federal agency and bureau

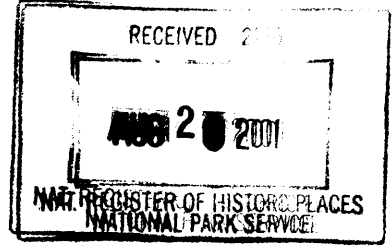
4. National Park Service Certification

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:)

Entered in the National Register Date of Action 10.4.01
Entered in the National Register

United States Department of the Interior
National Park Service



National Register of Historic Places Registration Form

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Signature of certifying official/Title Date

State of Federal agency and bureau

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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

Table with 2 columns: Contributing, Noncontributing. Rows for 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

VACANT/NOT IN USE

7. Description

Architectural Classification (Enter categories from instructions)

Materials (Enter categories from instructions)

NO STYLE

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 Pages

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.)

- 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

1880-1940

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

Fry Gulch Mine

Josephine Oregon

Name of Property

County and State

10. Geographical Data

Acreage of Property 91.109

UTM References

(Place additional UTM references on a continuation sheet.)

UTM grid boxes 1 and 2 with labels Zone, Easting, Northing

UTM grid boxes 3 and 4 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 15, 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 Sheets

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 Park Service

National Register of Historic Places
Continuation Sheet

Mining Resources of the Upper Illinois Valley
Fry Gulch Mine

Section Number: 7 Page: 1

Summary Description

Located approximately eight miles south of Cave Junction, Oregon along the east and west branches of Fry Gulch, the Fry Gulch Mine was worked almost continuously after the 1851 and the discovery of gold. Although evidence of the earliest period of placer mining has been obliterated by later mining activity, several features remain intact from the initial period of hydraulic mining and from that of the Depression era. Although the equipment used to mine this ground has largely disappeared, the Fry Gulch Mine preserves distinct earthworks including two excavated pits that are now ponds, large tailing piles, a tailrace, and hydraulic cut features. The site clearly reveals the mining process and retains integrity of location, design, or plan, setting, feeling and association.

Location and Setting

The Fry Gulch Mine is located in the southwest quarter of Section 28, as well as in portions of the northwest and northeast quarters of Section 33, Township 40 South, Range 8 West, W.M. (Josephine County Assessors Plats 40-8-28 Tax Lot 100, and 40-8-33, Tax Lot 100). Access to the mine is from gravel roads that lead from BLM Road 40-8-28. Containing 91.109 acres, the nominated property is situated at elevations ranging between 1,530 and 1,960 feet above sea level with a predominately northwesterly aspect. Gravels representing placer mining debris comprise most of the site. These tailings are remains of washed gravels derived primarily from eroded and resorted Tertiary conglomerate (poorly sorted clay and sand with small rock fragments and lenses of gravel) (Shenon 1933: Figure 11 cited in Budy 1999: 35HS11-482).

The Fry Gulch Mine has an on-site plant community of mixed Douglas fir/oak/poison oak associations, nearly barren tailings, riparian associations along Fry Gulch, buckbrush fields covering low tailings in the site center, and sparse ponderosa/cedar/manzanita associations on surrounding serpentine slopes (Budy 1999: 35HS11-482). The water source for the mine was initially from natural runoff through an arm of Fry Gulch, but later came through ditches from the East Fork Illinois River. The east arm of Fry Gulch was used as a tailrace during an undocumented period of the mine's operation (Budy 1999: 35HS11-482).

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Mining Resources of the Upper Illinois Valley

Fry Gulch Mine

Section Number: 7 Page: 2

Site Description

Fry Gulch Mine was filled with auriferous gravels that were mined between 1853 and the early 1940s. The site preserves distinct features from the initial period of hydraulic placer activity as well as the Depression era of mining in the Waldo vicinity. The remaining well-preserved earthwork features include abundant evidence of these two eras including two excavated pits that are now ponds, large tailing piles, a tailrace, and hydraulic cut features. Mining activity has modified the natural drainage of Fry Gulch and the ground across the site reflects the removal and processing of gold bearing gravels (Budy 1999:482).

The best-preserved features are located in the southern part of the site below the convergence of the east and west forks of Fry Gulch. Here, covering a large area, are evident long tailings piles and intervening channels where "long toms" were placed that date from the 1880s hydraulic era. Pieces of hydraulic pipe nearby document the process used to harness water under high pressure (Budy 1999:35HS11-482).

An elongated and irregularly-shaped **hydraulic pit (A)**, excavated with elevators and giants, and measuring approximately 250 feet in length and 50 feet in width at its extreme points, is located on the extreme northwest edge of the site. Appearing to date from the 1930s, the pit is now a pond that serves as wildlife habitat. The boundary between Bureau of Land Management lands and private land is located through the northern portion of the pit. A smaller roughly oval shaped pit (B) measuring approximately thirty by fifty feet, excavated with elevators and giants, also dates from the 1930s.

Low tailings (C), encompassing a large area covered with dense buckbrush, extend north-south on the site for several hundred feet. It is not certain whether these tailings date from the early mining period between the 1850s and 1870s, or whether the tailings are residue from excavation of the pit. The center of the site is dominated by these buckbrush-covered tailings.

A V-shaped **tailrace (F)**, approximately four hundred feet in length and about twelve to fifteen feet deep, extends through the center of the old tailings pile. This feature appears to date from about 1930 (Shenon 1933:189 Extensive linear piles of rock **tailings**

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Mining Resources of the Upper Illinois Valley

Fry Gulch Mine

Section Number: 7 Page: 3

with intervening **channels (G)** that held sluice boxes). and long toms, extend across the center of the site over an area of several hundred feet. Angle iron, used to slow the water in the sluice and collect the gold, lies in several of the sluice channels. These features are well preserved and appear to date from the initial hydraulic era in the 1880s (Budy 1999: 482).

A portion of the east branch of Fry Gulch that was hydraulically mined, contains steep **headcuts (H)**. These cuts are relatively shallow, ranging from ten to fifteen feet high cut banks. This part of the site appears to represent the 1880s hydraulic period. A section of low profile ditch (K), approximately 1000 feet in length supported hydraulic pipe. Forming a part of the southerly site boundary, the ditch heads at a spring located in the upper reaches of the west branch of Fry Gulch (Budy 1999:482).

Other features on the site include an irregular area of mined ground in the upper part of the west branch of Fry Gulch that contains low tailing piles. These features may date to the 1850s and 1860 or from re-workings in 1930 (Shenon 1933:189. Ditch segments, a deteriorated wooden flume/trestle, and several sections of hydraulic pipe also remain on the property.

Integrity

The Fry Gulch Mine encompasses within its boundary well-preserved features related to the initial period of hydraulic mining during the 1880s as well as features remaining from the Depression era. Significant earthworks are highly visible, remain intact and have avoided modern disturbances. The Fry Gulch Mine's setting retains integrity of feeling. The abandoned earthworks on this site clearly reflect the intense mining activity that occurred here. The site effectively conveys the technology involved in hydraulic mining in two distinct mining periods that significantly affected development in the Illinois Valley.

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Mining Resources of the Upper Illinois Valley
Fry Gulch Mine

Section Number: 8 Page: 1

Significance

The Fry Gulch Mine, with features representing mining in the 1880s as well as the Depression years, is locally significant for its association with mining in the Upper Illinois Valley, Waldo vicinity. Submitted as part of a multiple property submission, "Mining Resources of the Upper Illinois Valley, Oregon," the Fry Gulch Mine represents its associated historic context, "Gold Placer Mining and Development of the Waldo Vicinity, 1851-1942." The Fry Gulch Mine meets the registration requirements set forth in the registration documents. It was developed in the historic period and mining during two distinct eras of hydraulic mining. The mine retains its integrity of location, setting, design and feeling and evokes direct historic associations with the mining technology that played a critical role in the Upper Illinois Valley. The Fry Gulch 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

Initial workings of the Fry Gulch Mine occurred in the early 1850s when miners filed numerous placer claims in Fry Gulch following the discovery of gold. Miners worked the two northward-trending branches of Fry Gulch that join near the quarter corner between sections 28 and 33, as well as the main gulch for about 1,500 feet below the junction (Shenon 1933:189). The entire east branch to its contact with the High Gravel Mine was also mined. Long water ditches that carried water on a gentle grade to diversion points to enter wooden troughs or metal pipes to the diggings below, assisted early sluicing efforts in Fry Gulch. As early as 1854, the Sailors Diggings Water, Mining and Milling Company Ditch brought water to the upper part of Scotch and Allen Gulches. The company conveyed water to Fry Gulch by means of a tunnel near the top of the ridge that divides the east and west areas of Sailors Diggings (Budy 1999:482).

During the initial period of hydraulic mining in Fry Gulch in the early 1880s, miners harnessed water under high pressure through hydraulic pipe and used the force to dislodge the soil and washed it through sluice boxes or "long toms" to extract the ore. In July 1886, the county's newspaper noted that "Paul Lauterback and Nels Johnson have...pick and shovel claims in Fry Gulch" (*Rogue River Courier* July 30, 1886).

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Continuation Sheet**

Mining Resources of the Upper Illinois Valley
Fry Gulch Mine

Section Number: 8 **Page:** 2

In 1933 Shenon (1933: 189) noted that A.L. Bailey opened a small cut at the mouth of the west branch of Fry Gulch in 1930. The production from about 1,650 cubic yards of gravel in Bailey's upper cut was \$1000, or about 60 cents a cubic yard in 1930 dollars (Shenon 1933:190). The Depression era hydraulic mining activity is evident in the tailrace as well as in two pits excavated with hydraulic giants and elevators. According to the DOGAMI (1952:198) the mine was operated with one giant and a hydraulic elevator. Water was diverted to the mine through the Logan/Esterly Middle Ditch during the 1930s operations (Budy 1999: 35HS11-482).

After World War II, several mines were re-opened and dredging operations produced the bulk of gold extracted in Oregon between 1947 and 1965 (Brooks and Ramp 1968: 243). In Fry Gulch, however, dredging operations were limited to a few short-lived operations. A dragline and washing plant was active at the Bailey Mine in Fry Gulch between 1947 and 1950 (Brooks and Ramp 1968:243), but the precise location of this operation has not been determined.

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Continuation Sheet

Mining Resources of the Upper Illinois Valley

Fry Gulch Mine

Section Number: 9 Page: 1

Bibliography

Brooks, Howard and Len Ramp

1968 *Gold and Silver in Oregon*. State of Oregon Department of Geology and Mineral Industries, Bulletin 61 U.S. Government Printing Office, Washington D.C.

Budy, Elizabeth E.

1999 *Fry Gulch Mine* Cultural Site Record 35HS11-482 (for USDI-BLM Medford District)

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.

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Continuation Sheet**

Mining Resources of the Upper Illinois Valley
Fry Gulch Mine

Section Number: 10 **Page:** 1

A map indicating locations of the twenty resources included in this Multiple Property Submission is contained with the cover document. A photocopied section of a USGS map that indicates the location of the Fry Gulch Mine accompanies this nomination document.

Boundary Description

The Fry Gulch Mine is located in the southwest quarter of Section 28, and in portions of the northwest and northeast quarters of Section 33, Township 40 South, Range 8 West, (W.M.) (Josephine County Assessors Plats 40-8-28 Tax Lot 100, and 40-8-33, Tax Lot 100), in Josephine County Oregon. The property is identified on USGS map O'Brien quadrangle, 7.5 minute series, included with this nomination. The property is further described as follows:

Beginning at the SW corner of the site at the intersection of the section line between Sections 28 and 33 and the east property boundary of Tax Lot 700 in the SW $\frac{1}{4}$ of the SW $\frac{1}{4}$ of Section 28, T. 40 S. R. 8 W., (W.M.), continue North along the easterly boundary of Tax Lot 700 to a line of convenience extending East 360 degrees from the NW corner of Tax Lot 700. Continue North along this line of convenience to the southern boundary of Tax Lot 300; Continue East along the south property boundary of Tax Lot 300 to the Fry Gulch Road. Continue South and East along the Fry Gulch Road to its intersection with the southern section line of Section 28. Continue West to the point of beginning. The foregoing description defines the polygonal portion of the site.

At the point (previously described) where the Fry Gulch Road intersects the southern section line of Section 28, T. 40 S., R. 8W. (W.M.), the Fry Gulch Mine extends into Section 33, T. 40 S. R. 8 W., (W.M.) along Fry Gulch and an unnamed tributary of Fry Gulch that joins from the area west of Fry Gulch. The nominated area extends along Fry Gulch in Section 33 as far south as the Waldo Hill Road in the SE $\frac{1}{4}$ of the NE $\frac{1}{4}$ of Section 33, T. 40 S. R. 8 W. (W.M). The site comprises an area measuring 50 feet on either side of Fry Gulch, measuring 100 feet in overall width. On the unnamed tributary of Fry Gulch, the mine site extends south along the tributary to the southern boundary of Tax Lot 100, T. 40 S. R. 8 W., (W.M.) The nominated area of the Fry Gulch Mine along the tributary extends 250 feet on each side of the tributary stream, measuring a total of 500 feet in width. The nominated area contains 91.109 acres in all.

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**Mining Resources of the Upper Illinois Valley
Fry Gulch Mine**

Section Number: 10 Page: 2

Boundary Justification

The nominated area encompasses the major earthwork features that comprise the primary locus of historic mining activity on the Fry Gulch Mine that is contained on lands administered by the USDI Bureau of Land Management.

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Mining Resources of the Upper Illinois Valley
Fry Gulch Mine

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UTM References

Zone	Location	Easting	Northing
10	1	445578.92513	4656301.06073
	2	445737.06849	4656301.06073
	3	446747.28730	4655044.36764
	4	445635.95482	4655009.80791

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Mining Resources of the Upper Illinois Valley
Fry Gulch Mine

Section Number: Page:
 Photographs 2

Photographs (cont.)

- 4) Date of Photograph: August 1999
- 5) Negative holder: Bureau of Land Management, Medford District
3040 Biddle Road Medford, Oregon 97504
- 6) View: Fry Gulch Mine, sluice channels, feature G
- 7) Photograph number 3 of 5

Photograph No. 4

- 1) Fry Gulch Mine
- 2) SW ¼ S. 28; NW and NE ¼ of S. 33, T. 40S., R. 8W. W.M., Josephine County,
Oregon
- 3) Photographer: Elizabeth Budy
- 4) Date of Photograph: August 1999
- 5) Negative holder: Bureau of Land Management, Medford District
3040 Biddle Road Medford, Oregon 97504
- 6) View: Fry Gulch Mine, tailrace, feature F
- 7) Photograph number 4 of 5

Photograph No. 5

- 1) Fry Gulch Mine
- 2) SW ¼ S. 28; NW and NE ¼ of S. 33, T. 40S., R. 8W. W.M., Josephine County,
Oregon
- 3) Photographer: Elizabeth Budy
- 4) Date of Photograph: August 1999
- 5) Negative holder: Bureau of Land Management, Medford District
3040 Biddle Road Medford, Oregon 97504
- 6) View: Fry Gulch Mine, hydraulic cut, Fry Gulch tributary, looking east
- 7) Photograph number 5 of 5

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Continuation Sheet**

Mining Resources of the Upper Illinois Valley
Fry Gulch Mine

Section Number: 11 Page: 1

Property Owner Notification

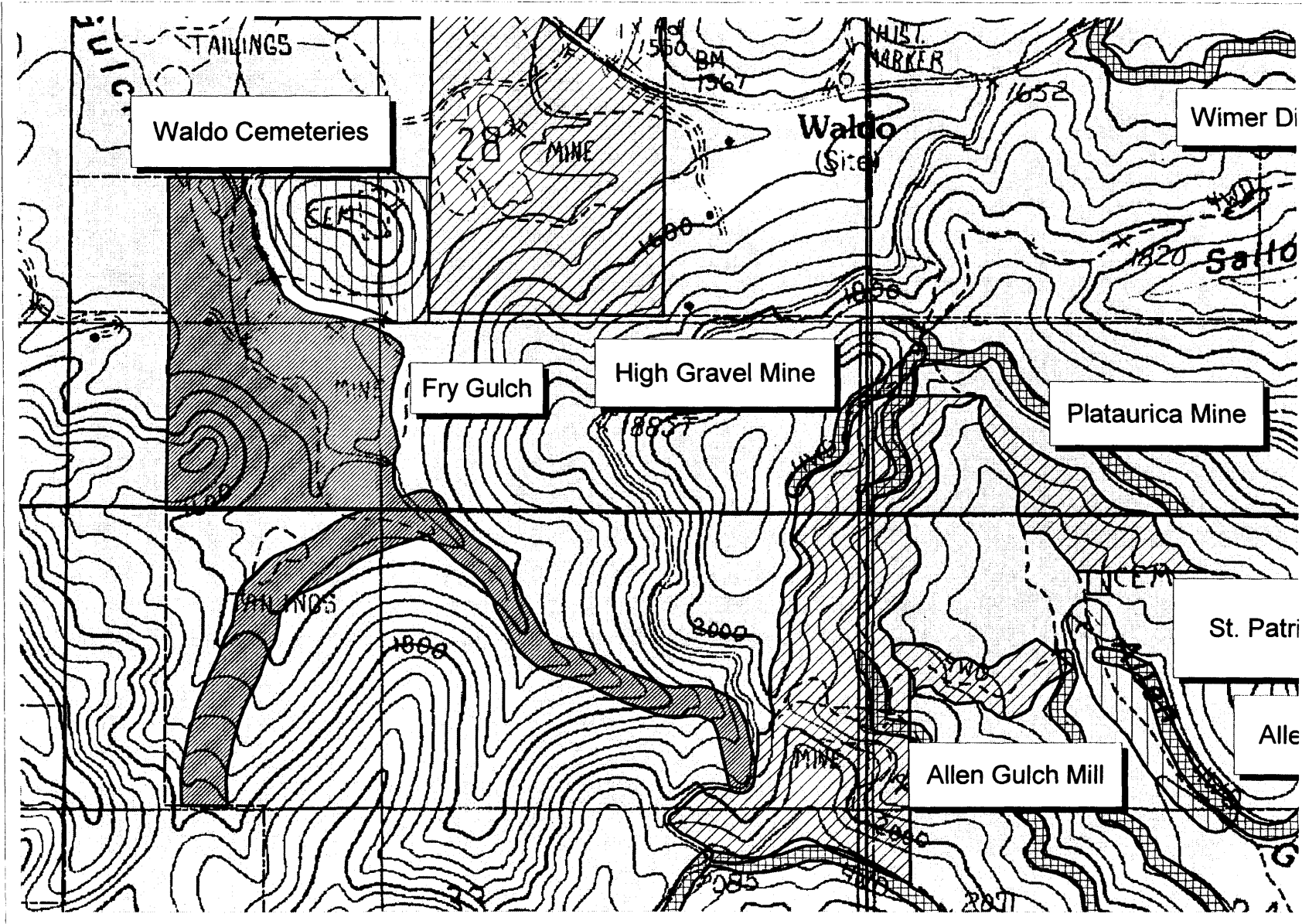
Bureau of Land Management
Ron Wenker, District Manager
Grants Pass Resource Area Manager
Ann Ramage, Archaeologist
Medford Field Office
3040 Biddle Road
Medford OR 97504

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

Federal Preservation Officer Certification

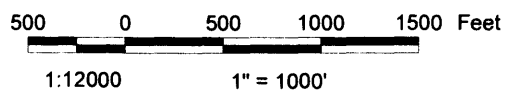
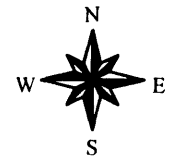
Mr. John G. Douglas, Preservation Officer
Bureau of Land Management (240)
204-LS
18th and C Streets, NW
Washington, DC 20240

Fry Gulch Mine



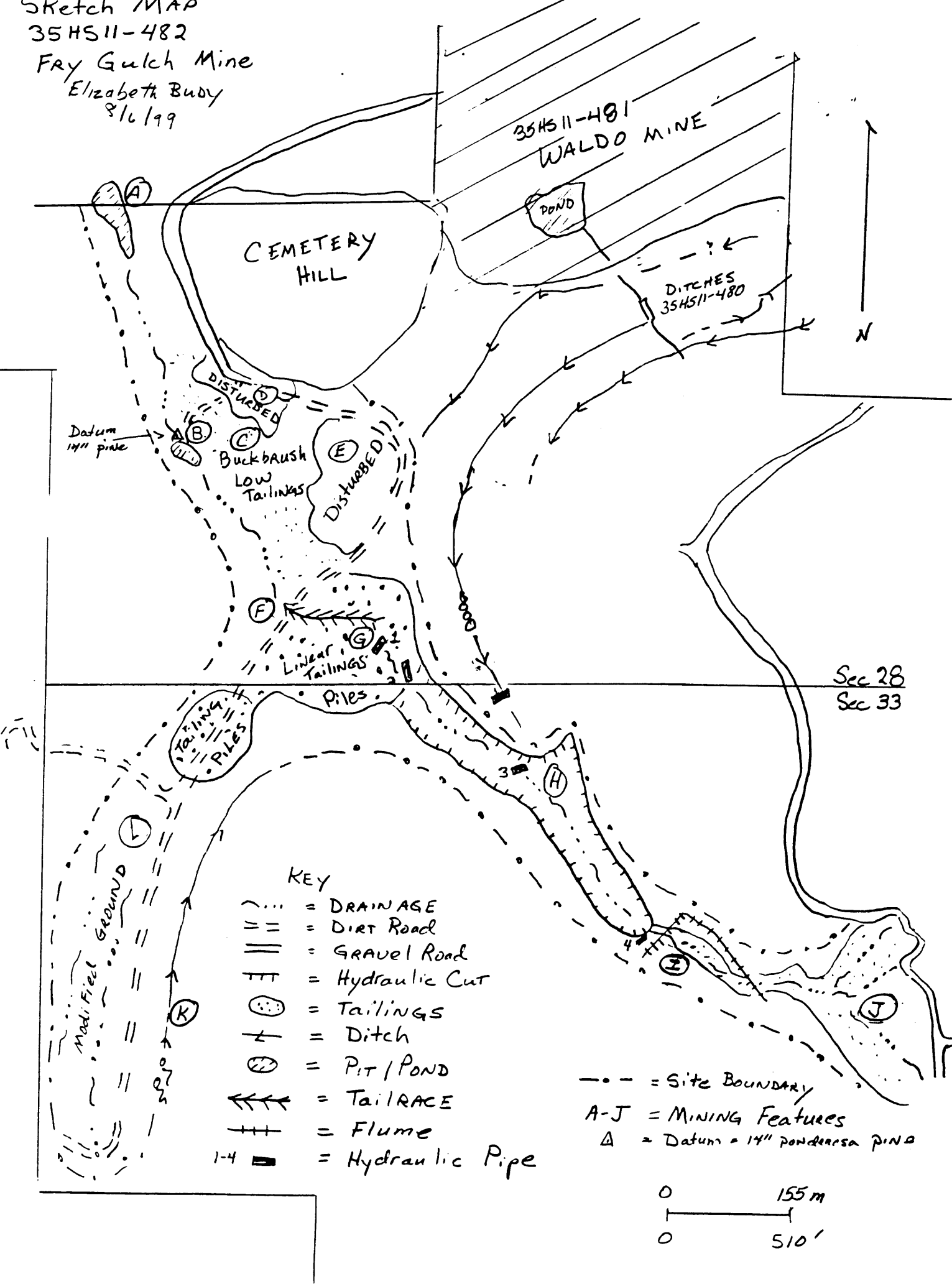
Fry Gulch Mine
 35HS11-482
 A portion of the
 O'Brien Quad
 (Sec 28, 33
 T40S, R8W, wm)
 showing
 Historic Placer
 Mining Resources
 in the Waldo Vicinity.

- 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).

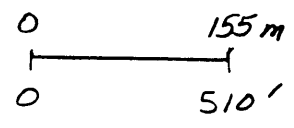
Sketch MAP
 35HS11-482
 Fry Gulch Mine
 Elizabeth Budy
 8/6/99

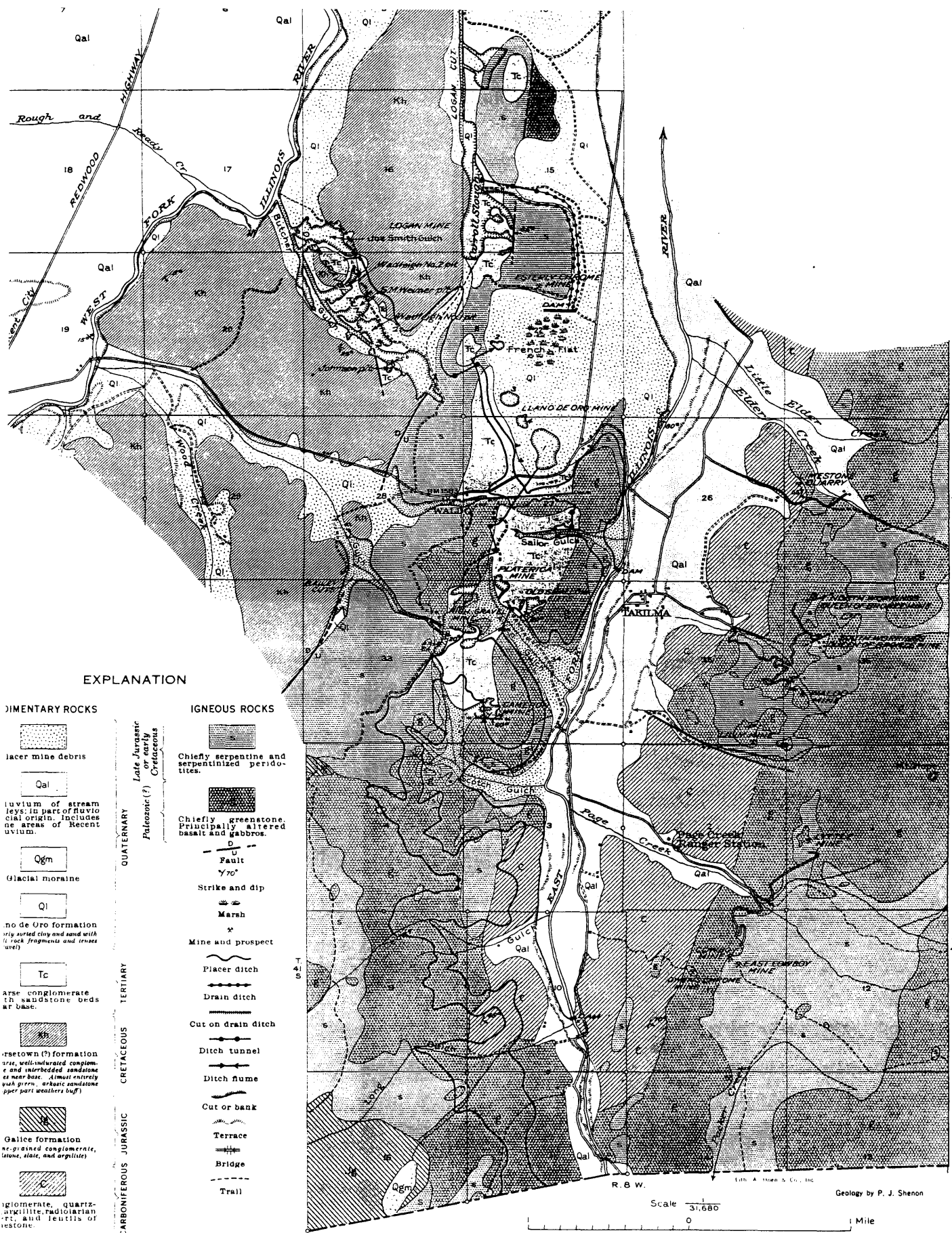


Sec 28
 Sec 33

- KEY
- - - = DRAINAGE
 - == = DIRT ROAD
 - === = GRAVEL ROAD
 - TTT = HYDRAULIC CUT
 - ⊙ = TAILINGS
 - ⊚ = PIT/POND
 - ←←← = TAILRACE
 - +++ = FLUME
 - 1-4 ▣ = HYDRAULIC PIPE

- - - = SITE BOUNDARY
- A-J = MINING FEATURES
- Δ = Datum = 14" ponderosa pine





EXPLANATION

SEDIMENTARY ROCKS

- Placer mine debris
- Alluvium of stream beds in part of fluvial origin. Includes alluvial areas of Recent alluvium.
- Glacial moraine
- No de Oro formation (very sorted clay and sand with rock fragments and coarse silt)
- Coarse conglomerate in sandstone beds at base.
- Westown (?) formation (fine, well-sorted conglomerate and interbedded sandstone at base. Almost entirely dark green, arkosic sandstone upper part weathers buff)
- Galice formation (arkosid conglomerate, slate, and argillites)
- Conglomerate, quartz-arkillite, radiolarian, and tuffites of redstone

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 of bank
- Terrace
- Bridge
- Trail

QUATERNARY
 Late Jurassic or early Cretaceous (?)
 Paleocene (?)
 QUATERNARY
 TERTIARY
 CRETACEOUS
 JURASSIC
 CARBONIFEROUS

R. 8 W.
 Scale 1/31,680
 Lith. A. Stone & Co., Inc.
 Geology by P. J. Shenon
 1 Mile

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