

OREGON TRAIL TOUR ON INTERSTATE 84

If starting from La Grande, start at the top of the page; if from Ontario, start at lower right of page. MP=green milepost.

EXIT 261 La Grande. Home of Eastern Oregon State College and gateway to Wallowa Lake and the northern flank of the Wallowa Mountains. Terminus for Side Trip A. The round shape of the valley is due to intersecting fault systems that became active about one million years ago. To the north, Mount Emily rises from the plain along a fault; to the south, other faults have lifted Craig Mountain above the town of Union. To the east, Mount Harris and Mount Fanny are uplifted on faults. The Grande Ronde, or Great Round, valley was, from all pioneer accounts, a welcome sight.

"A beautiful level basin, or mountain valley, covered with good grass, on a rich soil, abundantly watered, where a farmer would delight to establish." (Captain John C. Fremont, 1843)

"It is, for a settlement, the prettiest place I have passed on the route." (Major Osborne Cross, 1849)

MP 267 Grande Ronde Valley. Ladd Marsh and old shallow lakes lie along an old river meander channel. Hot Lake, discovered in 1812, was a favorite resting place for early-day travelers.

"Some very white spots glistening on the plain . . . found them to be the bed of a dry salt lake, or marsh, very firm and bare, which is covered thickly with a fine powder, containing a large quantity of carbonate of soda." (Captain John C. Fremont, 1843)

MP 271 Columbia River basalt in road cuts. A great outpouring of lava between 17 and 6 million years ago covered approximately 425,000 square miles in Oregon, Washington, and Idaho and is up to two miles thick. These flood basalts issued mostly from large cracks in the ground in the Wallowa Mountains and the Snake River Canyon. Reddish and yellowish-brown zones mark the weathered tops of individual lava flows.

EXIT 285 North Powder. Terminus for Side Trip B, the Elkhorn Scenic Byway. Mica in the North Powder River was often mistaken for gold—"fool's gold".

"The sand and mud were full of shining particles which some took to be gold. There were some so eager to wash gold that they could not eat." (Lucia Williams, 1851)



Art Seamans, USDA Forest Service

MP 289 Columbia River basalt on flanks of Wallowa Mountains to the east.

"The sharp slopes became sloping plateaus, and finally the Blue Mountains stood like islands in a basaltic sea." (Waldemar Lindgren, U.S. Geological Survey, 1901)

MP 297 Oregon Trail crossing Baldock Slough near historic Lone Tree.

"The place called Lone Tree is a beautiful valley in the region of Powder River, in the center of which is a solitary tree, by the side of which travelers usually stop to refresh themselves." (Narcissa Whitman, missionary wife, 1836)

"From the heights we had looked in vain for a well-known landmark on Powder River, which had been described to me by Mr. Payette as l'arbre seul (the lone tree). We found a fine tall pine stretched on the ground, which had been felled by some inconsiderate emigrant axe." (Captain John C. Fremont, 1843)

MP 301 White-steepled, 150-million-year-old granite core of the Wallowa Mountains to the northeast.

"Some of these are very lofty; their peaks present a very lustrous appearance, resembling the snow mountains. This shining, dazzling appearance they possess is derived I think from the material of which they are composed, being a kind of white clay." (Joel Palmer, 1845)

EXIT 302 Flagstaff Hill to the east. Future site of the Oregon Trail Interpretive Center. Location of Virtue Flat and the Virtue Mining District, where the Oregon Trail crossed close to the rich Virtue Mine discovered in 1862. Access to Side Trips C and E.

"The somewhat celebrated mine of Colonel Ruckel is situated eight miles east of Baker City, on the eastern slope of a range of hills, overlooking a large interior basin, across which for many miles may be seen the gleaming, white, dusty line of the old emigrant road (Oregon Trail)." (R.W. Raymond, U.S. Commissioner of Mining Statistics, 1870)

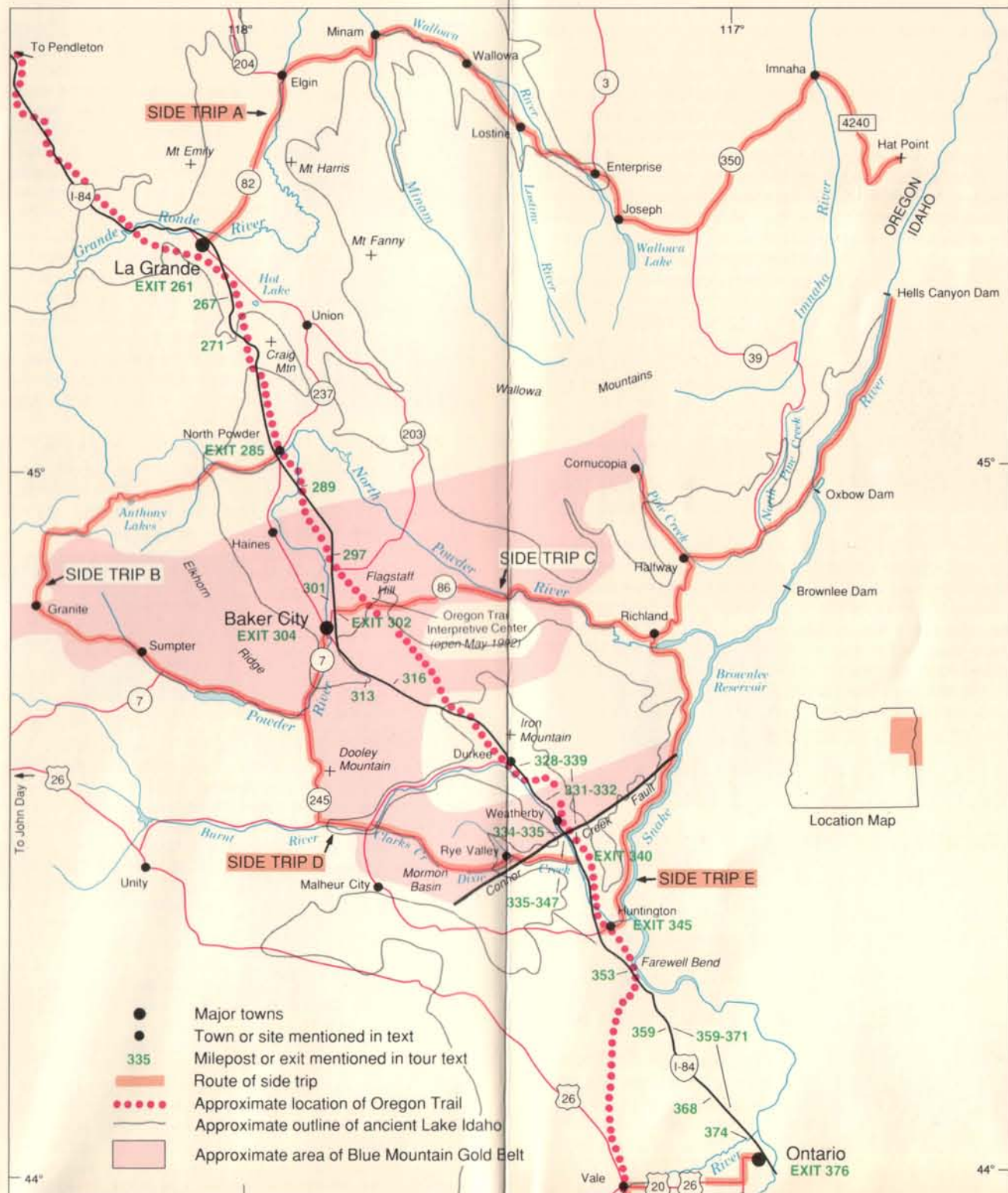
EXIT 304 Baker City. Queen City of the eastern Oregon gold fields. That glorious past is preserved through the National Register Historic District, the Oregon Trail Regional Museum, and the modern Miners Jubilee (held each July). Access to Side Trips B and D.

MP 313 Griffin Gulch on the flank of Elkhorn Ridge to the west. Here was the center of the old northeastern Oregon gold mining districts, where gold had been produced since 1861.



Oregon Historical Society, Negative Number OHH 3901

"Stuck Fast"—Hutchings' Illustrated California Magazine, 1853.



"From all the information I can obtain, gold can be found on the headwaters of the Powder River, but the Indians are unwilling to risk themselves in that vicinity, as they would come in contact with hostile Indians, who reside in the mountains." (Major Osborne Cross, 1849)

MP 316 High peaks of Elkhorn Ridge. These are fragments of 200-million-year-old ocean floor.

"At a distance we could see what we supposed to be the Blue Mountains, and they struck us with terror. Their lofty peaks seemed a resting place for the clouds." (Medoran Crawford, 1842)

MP 328-339 Old gold mines along Burnt River. Iron Mountain, an old volcanic neck, to the east at MP 328.

"There are hill, gulch, and placer mines all the way up Burnt River from Express Ranch. Coarse gold, worth \$18 per ounce, is found on the steep, high points from 20 to 50 feet above the river." (R.W. Raymond, U.S. Commissioner of Mining Statistics, 1870)

MP 331-332 Nelson Marble, 240-million-year-old limestone. The industrial complex west of I-84 is the largest "gold" mine in Oregon—but here the "gold" is limestone, a rock used in making cement and in refining sugar beets.

MP 334-335 Crossing Connor Creek Fault and 170-to-280-million-year-old ocean-island and ocean-floor rocks. This fault is the southern boundary of the "Gold Belt of the Blue Mountains." The oceanic-crust terrane probably represents a collage of pieces of several different generations of crust, broken and deformed both before and while they were being assembled by plate tectonic forces.

MP 335-347 Lower Burnt River Canyon. The river cuts into a 150- to 200-million-year-old sedimentary rock formation named after nearby site of Weatherby.

"We are now travelling through a very mountainous country; the stream running rather in a ravine than a valley, and the road is decidedly bad and dangerous . . . The mountains . . . were composed, near the river, of a slaty calcareous rock in a metamorphic condition." (Captain John C. Fremont, 1843)

EXIT 340 Rye Valley. Access to Side Trip D.

EXIT 345 Huntington. Gateway to water recreation on 40-mile-long Brownlee Reservoir; starting point for Side Trip E.

MP 353 Farewell Bend. Active sand dunes are being formed from flood deposits of the Ice Age (14,000 years ago).

"Hence we descended to the Snake River . . . It forms here a deep bay, with a low sand island in the midst." (Captain John C. Fremont, 1843)

MP 359 Tilted and faulted blocks of volcanic rock 15 million years old.

"The mind can hardly appreciate the amounts of dynamics adequate to displace and disrupt the surface of the earth so immensely. It appears like a great harrow, fit only for Hercules to use in leveling off the surface of some planet. Oh, when shall I view, once more, a verdant landscape! One thousand miles of naked rocks!" (Riley Root, 1848)

MP 359-371 Lake sediments (2-7 million years old) of ancient Lake Idaho.

"The entire basin, from the Rocky Mountains to the Blue Mountains of Oregon, was once a fresh-water lake, on whose bottom was deposited a curious succession of sand and clay beds . . . the scene has entirely changed, and monotonous, blank desert now spreads itself as far as the eye can reach." (Clarence King, first U.S. Geological Survey director, 1903)

MP 368 Ice Age loess (fine dust) deposits.

"Proceeded about five miles over a very dusty road till it became so bad that we could not see our teams or hardly breathe and were

obliged to heave to for a season." (Cecelia Adams and Parthenia Blank, 1852)

MP 374 Crossing Malheur River. Oregon Trail crossing is 12 miles west at hot springs at Vale Butte—a place for the early-day travelers to rest and bathe.

"Temperature of the water was 193°. The ground, which was too hot for the naked foot, was covered and below the springs with an incrustation of common salt, very white and good." (Captain John C. Fremont, 1843)

EXIT 376 Ontario. Gateway city into Oregon, on the fertile plain at juncture of Malheur and Snake Rivers. Vegetables, grains, and sugar beets are grown here under irrigation. Oregon Trail enters state farther south and is farther west at this point. Starting point for Side Trip F.



Farewell Bend, Snake River

IMPORTANT MAP INFORMATION

Topographic maps of these areas and a geologic field trip guide are available from the Oregon Department of Geology and Mineral Industries, 1831 First Street, Baker City, OR 97814, phone (503) 523-3133. For traveling on BLM or National Forest lands obtain special maps from: U.S. Bureau of Land Management, Room 215; or USDA Forest Service, Wallowa-Whitman National Forest Office, 3rd Floor, both at Post Office, 1550 Dewey Avenue, Baker City, OR 97814, phone (503) 523-6391.