

# Motorlog Trip to Bend Country Enhanced by Study of Geology

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BY JOHN A. ARMSTRONG  
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Unless you're in the know, you can be fooled by the Bend country.

You cross the Cascades going east, and the country changes from fir forests to a rolling, rugged, raw-looking landscape—piles and mountains of rocks, rising in jumbled masses from the sagebrush, scrub pine and juniper.

After 50 miles or so, the novelty of this different sort of countryside wears off. After all, rocks are just rocks, and one pile looks pretty much like another. The motorist may become slightly bored by what appears to be the sameness of the area.

Don't make the mistake of adopting this attitude. The central Oregon country around Bend is a fascinating place, full of a variety of sights to see that could keep you busy and interested for weeks.

You can drive as far as Bend, see some of the sights and return to Portland in one day if you desire. It's only 3 1/2 hours via the new Warm Springs cut-off. However, a two-day trip would be advisable.

A good time to take the trip this year would be July 3-4, when the annual Bend water festival on Mirror pond is scheduled.

To appreciate the Bend country you need to know the story of how this area was formed, for it's the offspring of eras when the earth shook and trembled, thrust whole sections upwards to form mountains and plateaus, cracked and fissured and sped forth molten torrents of rocks and cinders. It's a volcano country.

No one knows the Bend area better than Phil Brogan of the Bend Bulletin, newspaperman and amateur geologist. He translates the geological country into colorful stories that the layman can understand.

If you can corner Phil for 15 minutes he can start you out on a tour of the area that you'll never forget. We were fortunate in enlisting him as a guide on a recent one-day motoring around his home town.

First stop is almost in the city itself. It's just a short circling drive to the top of Pilot butte, 50,000-year-old cinder cone that rises on the eastern outskirts of Bend.

To the west are the eternally white Cascades, huge volcanoes that are not dead, but just resting—the Three Sisters, Broken



Cove palisades on Crooked river surpass those of the Hudson.

Top, and others. Look east and north to see the largest juniper forest in the world. The junipers are not giants, but they are old, some of them 1500 years old.

Now south of The Dalles-California highway ten miles to Lava butte, which has a road to its top (a road which is to be black-topped this summer). The forest service says Lava butte is the best viewpoint in the north Pacific district. Geologists say that from it you enjoy the most spectacular view of volcanism in the Northwest.

Ordinarily we think of volcanic action as something that occurred hundreds of thousands or millions of years ago. Yet it was less than 2000 years ago that Lava butte formed.

Lava butte is only one of many Bend landmarks that were erupted from a fissure in the earth's surface which is nearly 21 miles long. At least five volcanoes and lava flows erupted from this fissure, four of them pouring liquid rock into dense forests.

As the lava flowed around the trunks of the tall pine trees, it chilled and formed casts with hollow interiors. These are the strange lava cast forests of today.

Fiery sprays from the fissure built up many spatter cones—rocky mounds dotting the terrain. Showers of lava bombs were hurled from the crack. Dozens of lava tunnels formed

underground southwest of Bend, two of these, Lava River tunnel and Skeleton cave, more than a mile long.

Lava river tunnel is just two miles south of Lava butte, on the highway, and can be visited.

On the southern end of the long fissure is Newberry crater a mountain that lost its top. Newberry was once a mountain at least 12,000 feet high, today its highest promontory is only 7985 feet.

As lava leaked out of Mt. Newberry, faults developed and its summit was enveloped. Subsequently, other volcanic action divided the giant crater into two parts, within which now lie Paulina and East lakes. If this secondary volcanism had not occurred, Oregon today would have two crater lakes.

One side trip is an important part of a Bend motorlog, even a one-day trip. Turn west off U. S. 97 at Culver, between Madras and Redmond. Only a few miles over a navigable dirt road (best take it during dry weather) is the magnificent Cove Palisades state park.

The Cove Palisades surpass the famed palisades of the Hudson river in New York state, and rival the sheer cliffs of our own Columbia.

Here the Deschutes and Crooked river come together deep in the shadow of these palisades, 1000 feet below the towering plateau of basalt.

# Polio Strikes At Monument

By Millie Wilson

Monument has had her first case of Polio. Needless to say everyone in the community is very much concerned about the matter, but the County Health Officer advises there are no precautions that can be taken. The victim of the dread disease is little three year old Renea Thomson, daughter of Mr. and Mrs. Verl Thomson. The little girl was first taken to Heppner then to Spokane. It was first thought the little one was suffering from rheumatic fever.

Mr. and Mrs. Buddy Batty of Klamath Falls are here visiting Mr. Batty's mother, Mrs. Jessie Batty and other relatives.

Some of them that enjoyed the Pendleton Round-Up from here were, Mr. and Mrs. Harry Capon, Mr. and Mrs. Gus Strecker, Mr. and Mrs. Kenny Round, Chester Round, Beredene and Lois Corbin, George Stirit and Mr. and Mrs. Theron King and son Mr. and Mrs. Bud Engle and children.

Mr. and Mrs. Henry Cupper and daughter Sharon and Mrs. Mabel Roach and daughter Joan were John Day visitors last Monday. Joan Roach went for a medical check-up before she enters college at LaGrande. This is Miss Roach's second year at LaGrande.

Mrs. Doris Capon and Mrs. Lois Hill drove to Heppner last Wednesday to get Mrs. Georgia Capon, better known to her friends as Grandma Capon, Mrs. Capon has been with her daughter, Eva Wright, in Heppner for some time.

Bob Runyon of Heppner was a business visitor in Monument last Tuesday.

The women of the Ladies Aid of the Presbyterian Church met at the home of Doris Capon last Tuesday with eight present, Doris Capon, Delice Sweek, Lois Hill, Effie Stirewalt, Reta Cupper, Madras and Redmond. Only a few miles over a navigable dirt road (best take it during dry weather) is the magnificent Cove Palisades state park.

The Cove Palisades surpass the famed palisades of the Hudson river in New York state, and rival the sheer cliffs of our own Columbia. Here the Deschutes and Crooked river come together deep in the shadow of these palisades, 1000 feet below the towering plateau of basalt.

Lewis Batty took his son Clinton Batty to John Day on Tuesday, where he joined others that had received their call to the armed services. Clinton is the seventh boy to be called from the Monument area this year.

The ladies of the H. E. C. met Wednesday to clean the Grange hall for Pomona Grange which met on Saturday.

Jessie Mattesson was on the sick list this week and was forced to miss some school.

Anna Bayless of Heppner was an overnight guest of Mrs. Grace Stirit and Mrs. Lola Shank last Tuesday. Mrs. Bayless had been in Canyon City attending to matters of business.

Dane Broadfoot was attending to matters of business in Prineville on Wednesday.

Sheriff Calhoun of Canyon City was attending to matters of business in Monument last Thursday. Nancy and Dan Healy of Portland are making a two week visit with their grandparents, Mr. and Mrs. Dempsey Boyer. They will attend school while here.

Mr. and Mrs. Delmar Settle moved their trailer house to Dayville last Sunday.

Mr. and Mrs. Dick Williams drove to Heppner last Thursday to bring their son, Walter home with them. Walter recently underwent surgery in the Heppner hospital for appendicitis.

Mr. and Mrs. Lee Slocum and Maynard Hamilton visited last week in Nyssa with Mr. and Mrs. Banty and family. Mrs. Banty will be remembered by her friends as Evelyn Hamilton.

J. B. Wilson Livestock dealer from Walla Walla was in this vicinity last week buying cattle.

Mr. and Mrs. Earl Barnard spent several days last week at the ranch doing chores and looking after things in general while their daughter and husband, Mr. and Mrs. Theron King attended the Pendleton Round-Up.

Mr. and Mrs. Pete Cramer of Washougal, Washington were visiting in town on Wednesday. Mr. Cramer is well known here. He is a graduate of Monument High School.

Ben Hinton of John Day and Doc Hinton of Prairie were week end guests of their sister and husband, Mr. and Mrs. Henry Durst.

Mr. and Mrs. Archie Lewis and Earnest Lewis of Portland attended the Pendleton Round-Up on Thursday and Friday. On Saturday they came to Hamilton where they visited Mrs. Katie Hinton and drove out to their old home. Both Archie and Earnest spent their childhood at Hamilton. From there they drove to Monument where they visited Mrs. Ella Durst, Ben and Doc Hinton and Mr. and Mrs. C. N. Wilson.

Mr. Robert Croft, Mr. and Mrs. Walter Miller, Mr. and Mrs. Boyd Hinton left Sunday afternoon for LaGrande where they attended a teachers institute on Monday and Tuesday. Mr. and Mrs. Hinton took their daughters, Sharon and Mary Ella to Dayville to stay with their grandparents while

# Weed Control Listed In New OSC Bulletin

A chemical weed control summary has been released by Oregon State college.

The new 31-page extension bulletin, number 719, is entitled "Selective Weed Control in Grain and Grass Crops." It contains information about common spray materials, how and where they can be used and definite control recommendation for some hard-to-kill weeds.

The publication also includes a response index of various weed plants to 2, 4-D, 2, 4-D mixtures, and 2, 4, 5-T.

The bulletin discusses, at some length, a question which always arises: "Should I use a water or oil carrier?" Generally speaking, the authors answer, less volume per acre is required with oil, experiments show that water is us-

ually the safer carrier. Oil often results in more effective weed control, but it tends to reduce the selectivity of the weed control chemical and may cause crop injury.

Oil is more likely to drift than water, causing injury to nearby crops.

Suggested control on Canada thistle using 2, 4-D is: spray while the grass or grain crop is in the "boot"; use 1 to 1 1/2 pounds of 2, 4-D acid equivalent per acre. Following harvest, make a second 2, 4-D application at 1 1/2 to 3 pounds per acre as the thistle plants reach 12 to 18 inches. With the land preferably seeded to grass, this schedule followed for two years have proven effective.

The author says 2, 4-D, mixture of it, and 2, 4, 5-T as well as the dinitro selectives are used to control broad-leaved weeds in grass crops. Dinitro selective is often used to control weeds in seedling grass. This material is less injurious and gives more rapid control in grass which has not become established.

Peppergrass, beggarstick and bindweed are all plants which are considered susceptible to 2, 4-D. Bracken fern, Russian knapweed, and broom sedge are classed as resistant.

Copies of the publication are available through county extension offices.

## HUNTERS WELCOME

**SPORTSMEN WILL**

1. PROTECT LIVESTOCK - CONSERVE GAME - LOOK BEFORE THEY SHOOT.
2. PUT OUT THEIR CIGARETTES BEFORE THROWING THEM AWAY.
3. EXTINGUISH THEIR CAMP AND WARMING FIRES.

REMEMBER  
IT MAY BE COLD AND DAMP TODAY, BUT DRY TOMORROW - THEN FIRES WILL SPREAD

KEEP OREGON GREEN

# Fall Bull Sale Set For Sept. 24 at Baker

Ninety three bulls, all of service age, have been consigned to the annual Oregon Cattlemen's Association Fall Range Bull sale, to be held at Baker, Oregon, September 24, Dorman Turner, Association secretary reports. The bulls ranging in age from

17 months to 27 months, have been consigned from 30 of the leading herds in the area. Bulls will be graded September 23 by Harry Lindgren, OSC and Herman Oliver, John Day. Ellis White will Auctioneer the Sale September 24. There will be 78 Horned, 13 Polled Herefords and 2 Shorthorns.

The following is a list of consignors: Edward W. Allen, Rich-

land, Oregon; Ray Adams, Enterprise, Oregon; Frank Anderson, Heppner, Oregon; E. C. Barker, Donnelly, Idaho; Frank E. Calkins, 206 Titus Bldg., Eugene, Oregon; Herbert Chandler, Baker, Oregon; Coe & Boylen, Box 257, Pendleton, Oregon Double M Hereford Ranch, Adams, Oregon; Bill Duff, Adams, Oregon; John M. Garrett, Horse Shoe Bend, Idaho; Everett Harshman, Hard-

man, Oregon; Brooks Hawley, Baker, Oregon; Hotchkiss Company, Burns, Oregon; Albert Keefer, LaGrande, Oregon; Kirk & Robinson, Heppner, Oregon; Jack Lewis, Enterprise, Oregon; Glen R. Martin, McCoy, Oregon; J. W. & Edna Mitchell, Springfield, Oregon; J. C. Morgan, Lonerock, Oregon; Clyde McKenzie, Summerville, Oregon; Hans Oft, Ontario, Oregon; John Osborne, Baker, Oregon; Roy Robinson, Mt. Vernon, Oregon; C. W. Sherman, St. Helens, Oregon; J. Dale Standley, LaGrande, Oregon; Cecil Sturgill & Son, Baker, Oregon; Reed Taylor, Alice, Oregon; J. H. Tippet, Enterprise, Oregon and F. H. Weinhard, Wallowa, Oregon.

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