

## ELEVATION AT BEND

**Government Men Find It to Be 3,629 Feet.**

### OTHER INTERESTING DATA

**Geological Surveyors Spent the Past Week at Bend—Now Camped at the Powell Buttes Station.**

The U. S. geological surveyors, who had been working toward Bend from the south, arrived in town Thursday evening of last week and have been camped here during the week, moving camp yesterday morning to the Powell Buttes station. They established several elevations in and around Bend, and when The Bulletin asked for an interview, Mr. L. F. Biggs, the engineer in charge of the crew, very obligingly produced his notes and maps and proceeded to give the reporter much interesting information.

A number of elevations in this vicinity will be of interest to Bulletin readers. One elevation was marked in the solid rock just across the road east from the Wenandy livery stables, which shows the elevation to be 3,629 feet. Another one was placed on the east side of the rocky ledge on which stands the city water tank. The elevation there is 3,647 feet. Still another station was marked at the bridge over the Central Oregon canal on the Silver Lake road south of town, and shows 3,742 feet, or a drop of 113 feet from that point to the bench mark at the Wenandy stables, a distance only a trifle more than a mile.

These surveyors follow an established road and are now working on the road between Bend and Prineville. Five miles out on the Prineville road the elevation is 3,439 and 8 1/2 miles out it drops to 3,342 feet.

On June 15 the crew started their work at Ashland, where they got the elevation from a bench mark established by a line which had been run from sea level at San Francisco to Portland. They surveyed over the mountains to Upper Klamath Lake, establishing an elevation stake every mile. At the lake they found the elevation at the water's edge to be 4,139 feet. At Fort Klamath it was 4,180 feet; at Klamath Marsh 4,529; at Beaver Marsh 4,640; and at Odell 4,453. Coming north elevations, as stated last week, are 3,226 at Rosland; on Paulina creek at the Caldwell ranch 4,190; 4,182 at the W. P. Vandeventer ranch; at the Fred Shonquest place 4,172; and at the highest point on the road as it skirts the base of Lava Butte, 4,507 feet.

The crew visited the renowned Crater Lake and found the elevation at the water's edge to be 6,177. Where the trail drops over the top of the crater's edge to descend to the lake the elevation is 7,076 feet, or a drop of 899 feet from the top of the crater where the road crosses down to the water. Of course this elevation of 7,076 feet is not the highest point around the lake. At one place there is a perpendicular drop of approximately 2,000 feet from the summit of the crater to the water. Thus at that point the mountain would be about 8,177 feet high.

As stated above, the crew places an elevation or "bench" mark every mile. These consist either of an iron post with a copper top or an iron bar about five inches long with an aluminum top, set in a hole in solid rock and surrounded by cement. On the copper top of the iron post or on the aluminum plate—whichever it happens to be—is stamped the elevation and also the words "United States Geological Survey, \$250 fine for meddling with this plate," also the initial of the engineer in charge and the number of the station.

Some may wonder how these elevations are determined. It is a

simple yet a painstaking matter. The engineers start at the coast at sea level, and then by means of surveyors instruments—a rod and level—they determine the rise and fall of the land as they proceed, even to the thousandth part of a foot. Their work is very accurate. In the morning they start and run their line until noon. Then they turn around and run another line over the same territory. If these two lines show any difference in elevations the work must all be done over and the error discovered. Mr. Biggs stated that at no time since leaving Ashland had their two surveys showed a variance in elevation of two inches. The instrument used by Mr. Biggs is the one always used by the government in this class of work, the Fourth Prism Level. This instrument is so made that the engineer while sighting and reading the elevation rod with one eye, with the other has sight of a spirit level on the instrument. By this arrangement there is no chance for the instrument to get out of level without the engineer knowing it at once.

The work of this crew will end at Prineville on about October 8. After which the men will drive back to Ashland.

### OREGON TRUNK AGENTS BUSY

**Secures Right of Way as Fast as Line is Located.**

Speaking of railroad developments in that section, the Madras Pioneer of last week said that the past week has brought no further definite news regarding when construction will begin on the Oregon Trunk Line, and it is probable that no news of this kind will be forthcoming until the location of the line is completed. Right of way is being secured, however, as rapidly as the line is located, and that is a strong indication that actual construction will be started in the near future. Another important fact is that Porter Brothers, who are the principal owners of the Oregon Trunk Line, have a large construction outfit and equipment now lying idle, and with that outfit and equipment idle at a heavy daily expense to them, it may be presumed that they will not delay the commencement of construction on the Oregon Trunk Line one day longer than is necessary.

### MAY BEGIN WORK SOON

**Harriman Construction Engineers Go to Terminus of C. & E.**

Another strong indication that Harriman is considering the extension of the Corvallis & Eastern from Detroit into these parts is found in the recent visit of two Southern Pacific construction engineers to the terminus of the road at Detroit. These men carried with them maps, drawings and blue prints, and it is supposed that their visit is to look over the matter of extending the C. & E. A dispatch from Albany to the Oregonian reads:

"That Harriman is considering the extension of the Corvallis & Eastern is indicated by the fact that F. W. Rucker and J. B. Pope, two Southern Pacific construction contractors and engineers, accompanied by J. T. Welch, superintendent of the C. & E., left Albany this morning for the eastern terminus of the line in a special car, carrying with them maps, drawings and blue prints. This is the most important indication yet noted that the Corvallis & Eastern is the route selected by Harriman for his proposed extension into Central Oregon this year."

"Rucker and Pope arrived from Portland last evening and spent the night here. This morning they were joined by Welch and started for Detroit in a train consisting only of their special car and engine."

"For some time surveyors have been working eastward from Detroit, the present terminus of the C. & E., over the old survey of the Oregon Pacific, and the trip of Rucker and Pope leads to the belief that actual construction work is contemplated."

### New Drilling Outfit Arrives.

The new drilling outfit for the Madras Oil & Gas Co., has arrived at Shaniko, and as soon as it can be hauled out, will be set up and work resumed at the well which the company is drilling on the west slope of Grizzly mountain. The new drill is capable of sinking the hole to a depth of several thousand feet, if it is found necessary to go that deep.—Pioneer.

## OF INTEREST TO ALL

**A Few Items of More Than Usual Import.**

### BAD ACCIDENT AT ANTELOPE

**Rancher, Wife and Daughter Seriously Injured in a Runaway—Crawls Four Miles after Help.**

Henry Schooler of Silver Lake was in Bend Tuesday enroute home from southern Wasco county where he has been working for some time past. He reports that several thousand head of sheep have been sold out of the Antelope and Shaniko countries of late. The range has been over-stocked to such an extent that in many places there is practically nothing for the sheep to feed on, hence the necessity to sell. Mr. Schooler told of a serious accident which happened to a stockman, Johnny Malone, a few miles south of Antelope, last week. Mr. Malone with his wife and daughter were driving a pair of colts which became frightened and ran away, and all three were thrown violently from the vehicle. Mrs. Malone's limbs were both broken between the ankle and knee, the daughter sustained a broken hip and Mr. Malone was so badly injured that he could not walk, but with great pain he crawled and worked himself along for a distance of four miles, to the nearest house, and summoned aid. When the call for a physician reached Antelope Dr. King was making another call, some 20 miles out, and as he was the only surgeon available the unfortunate victims of the accident were compelled to endure several hours of excruciating pain before medical assistance could arrive.

### View Proposed Roads.

County Surveyor Rice, County Road Master McLaughlin and Viewer Elliott were in these parts recently viewing out several proposed roads. One, the Richard King road, leaves the Silver Lake road a short distance south of Lava Butte and runs west and south toward the river, joining the Silver Lake road again near the Fred Shonquest barn. This road would serve the King, Jones, Minor, Mitchell and other homesteads in that section. A second highway viewed is known as the John Ferguson road. This is an extension of the ice cave road from the present terminus of the Fred Hunnel road. The third petition goes under the name of the H. P. Dencer road, and asks for a public highway starting near the Richardson and Wilkinson ranches and running straight north to intersect the Prineville road near the John Bailey place.

### May Invest in Bend Property.

Thos. Triplett was accompanied to Bend from Lenoir, N. C., by an old-time friend, Mr. Ed. Martin, who comes to look over the Bend country. Mr. Martin is a lumberman of 20 years' experience, having held the position for many years of assistant general manager of the Wilson Lumber & Milling Company at Lenoir, one of the largest concerns in that section of the country. Mr. Martin is a substantial business man and has about decided to invest in Bend property, and may later engage in business. He is well pleased with this section

and believes it has a very bright future before it. The Bulletin hopes that Mr. Martin will decide to cast his lot with us.

### Some Good Road Work.

Road Supervisor Richardson recently did some good work on a very bad place in the Bend-Laidlaw road. Near the Ovid Riley farm there is a very narrow stretch of road—a high rim rock on one side and a wire fence on the other. A stump or two and a log were blasted out of the way at this place, and some boulders removed at the foot of a very steep drop in this same stretch of road. Mr. Richardson also examined the bridge over the Swalley ditch north of Bend, and found the bridge in excellent condition except that the planking had never been nailed down. This will soon be done and side rails put on.

### Leaves Town with Bills Unpaid.

J. S. Williams, who has been in Bend during the past summer engaged in the lumber business—having leased the Linster mill—left town a few days ago leaving several bills unpaid. One of his creditors, A. C. Lucas, brought complaint before the proper officers and yesterday Chas. D. Brown was sent after Williams, to arrest him and bring him back. Williams went south with his own rig, heading for Lakeview or Klamath Falls.

### The Smallpox Scare.

John S. Parminter of Bend was taken sick Monday, and his case was diagnosed by Dr. Coe as smallpox. He was immediately taken to a house without the city limits and placed under quarantine. Mr. Parminter had been taking care of the cows and peddling milk for Dairyman Patterson during the latter's absence in the Valley, and, in order to avoid all danger of spreading the disease, Mrs. Patterson and the children were also quarantined in their home, the building thoroughly disinfected, and the sale of milk from the Patterson cows stopped. The health board has also ordered the vaccination of all school children. The sick man's condition was discovered before the disease had developed sufficiently for him to spread the contagion to others, all necessary precautions have been taken, the health board is keeping a very close watch for any new cases, and the patient's condition would indicate that he will suffer only a mild attack. Hence, there is no occasion for alarm. It is very doubtful if any new cases will develop, but if they should the authorities will see that a strict quarantine is maintained and the disease eradicated. Vigorous measures have been taken at its first appearance, and the authorities are confident they have it well in hand.

The reception the Bend teachers received at the institute at Prineville was rather an amusing affair. The Prineville authorities, having heard of the smallpox at Bend, ordered the Bend teachers not to attend the institute, and requested that one of them at least, whom the authorities considered had been exposed, should leave town at once. The teachers obeyed, of course, and all returned to Bend. It may be the Prineville authorities took extreme and unnecessary measures, but they can hardly be blamed considering the serious time the county seat had with smallpox a few years ago.

### Ship Sheep to Chicago.

At Shaniko last Thursday morning a large shipment of mutton sheep took place from the stockyards. A train of 18 cars was loaded with the animals, the operation requiring the services of nine men from 6 to 12, at which time two big Southern Pacific ten-wheelers whisked the train out of town. Three hundred sheep were loaded into each double-decker, or 5,400 in the entire train, and the freight tariff was \$210 per car, the rate to Chicago, or \$3,780 for the trainload. John Fleming was the buyer, and it is reported that he paid more than \$3 a head for the mutton delivered at Shaniko, in the vicinity of which place the sheep were grown.—Prineville Review.

## HUGGED BY A BEAR

**Dan Caldwell Has a Close Encounter with Bruin.**

### CHILD KICKED BY A HORSE

**Vicious Animal Inflicts Severe Injury on Nine-Year-Old Boy. Other Items of General Interest.**

An exciting encounter with a big black bear is what befell Dan Caldwell on the upper Deschutes recently, according to the Prineville Journal. Caldwell tells the story as follows:

"The other night, hearing my sheep stampede, I dressed and went to get them, taking my six-shooter, the only gun in camp. I found the sheep up the river at the edge of the timber, and had to cross a space of down timber. As I stepped over the last log a black bear rose up in front of me. I could not run as the logs were too deep, and the bear couldn't run as the sheep were too thick.

"So on came the bear. It knocked my gun out of my hand before I could shoot. I dropped to my knees, and having a small dirk knife in my belt, got it out. As I arose I stuck it into him just above the heart. He grabbed me with both paws, and I drove the knife into him again. The second time I got him. He let loose of me and dropped down, and I side-tracked."

### Vicious Horse Kicks Small Boy.

James Cordell and family, who are driving through the country on their way from Fossil to Bend, were delayed at Youngs by an unfortunate accident to their nine-year-old son, the little fellow having been kicked by a horse last Monday afternoon, one foot striking his arm and breaking it, and the other foot landing on the side of his head and inflicting an ugly bruise. Dr. Snook was sent for immediately, and went to Youngs, where he reduced the fracture and dressed the wounds on the little boy's head.

Mr. Cordell was taking through with him several head of stock, and it was one of these which kicked the little boy when he came too close to the vicious animal's heels. Mr. Cordell and his family came on Tuesday to Madras and camped here that night, continuing next day on their journey.—Pioneer.

### Corn Grows in Sherman County

The Lewiston Commercial Club boasts about having three stalks of corn which measure almost 11 feet high. Here in Moro, at the real estate agency of W. B. McCoy may be seen a cluster of corn stalks 13 feet high, which might have been higher but for the low ceiling, and it has corn, not bunnies, matured clear to the ends of the cob. Mr. McCoy also has stalks six feet high, with well matured ears, and some ears husked, like old Missouri. These are samples of the production of farms owned near this city by Horace Strong, J. B. Mowry and C. K. Cochran, and it hasn't been a very good year either for corn. The lesson it teaches however, is that corn may be successfully grown in this climate.—Moro Observer.

### Who Vouches for This?

The five-year-old son of Rev. I. D. Brown proved his prowess as a hunter last Thursday by disposing of a coyote, singlehanded. He started out with a small dog as his sole companion, and when they found the coyote, the dog held his attention while the plucky little fellow ran in and killed him with a club.—Pioneer.

### Shorter Items of Interest.

J. B. Fox will open a small store at Fort Rock.

Joe Lister of Prineville took 120 head of fine beef cattle to Portland last week.

The Lake county court has or-

dered a new road built from Silver Lake north to Fort Rock.

A vein of gold has been discovered in Gold Gulch, not far from Burns, that is reported to assay \$4,500 per ton.

Evangelistic services are being held at Prineville under the leadership of the evangelist, Rev. C. R. Handenschield.

It is reported that 10 families are enroute from California to take up homesteads in the Silver Lake and Fort Rock countries.

Prineville's city schools opened a week ago last Monday with an enrollment of 165. By Wednesday it had increased to 172.

J. H. Gray & Son of Prineville have sent a number of yearling bulls into Harney county, all of them blooded animals.

Rev. Walter Skipworth, presiding elder of this district, has been reappointed to this territory by the recent Methodist conference.

New York buyers have contracted with the Hood River Apple Growers' Union for 80 cars of winter apples, paying therefor in the neighborhood of \$90,000.

Officials of the state university have "planted" an experiment bed of oysters in Coos bay and if the experiment proves successful, Coos Bay will soon have another industry.

Harold Baldwin and Max Wurzeiler of Prineville have bought the Frank Hoffman ranch lying north of Culver. They bought the ranch as an investment, and the price has not been made public.

Messrs. Gates and Forsythe, who are interested in the Prineville Light & Water Company, recently made a trip to the Deschutes to inspect the site for their proposed power plant at Lava Falls above Bend.

Rev. C. A. Housel has been transferred from the Prineville M. E. church to the charge at Dayton, Wash. Rev. Lewelling is the new appointee for Prineville. Rev. Lowther has been assigned to the Bend charge.

Ranchers in the Paulina country are prosperous, says the Review. Hay is plentiful, most of it is now in the stack, the surplus cattle have been marketed, and hence the ranchers are figuring on an easy time the coming winter.

The Chronicle says that a 'phone message received from Mr. Kollock stated that the case of the State vs. Columbia Southern Irrigation Company has not been set for trial but the attorneys hope to have it set for some time in the November term.

The Pioneer says there is only about half a crop of wheat in the Madras county this year. The price at Shaniko, 74 cents a bushel, is somewhat better than at this time last year, but most farmers are inclined to hold for a higher price.

U. A. Wynn, right of way agent for the Central Oregon railroad, who has been working in this section for a month or more, left the first of the week for Culver, where he will continue his work of securing right of way along the C. O. line.—Pioneer.

Those who have hay for sale around Klamath Falls are holding it at so high a price that the cattlemen say they cannot afford to pay it. Consequently the cattle are being shipped to Reno and into California. The price asked for hay is \$8.00 and \$8.50 per ton and the cattlemen are willing to pay only \$6.00 and \$6.50.

A gun club has been organized at Lakeview, the chief purpose of which is to protect the property of farmers who are kind enough to allow hunters to enter their premises. The Herald says that any member of the club who leaves open any gate, enters any hay stack yard or draws staples from the wire of any fence, or commits any other willful depredation, on any lands under lease, or on any lands over which it is necessary for the members to travel to reach the leased lands, is liable to fine and expulsion. Farmers are requested to notify the club of any destruction of their property by hunters.