## Threading Great Cascades With Steel

WHERE ENDS OF RAIL WILL MEET ON NATRON CUT-OFF.

### Through the Peaks

While few realize it, the greatest railroad development in the world been going on at our very doors—the Natson Cut-Off. Frank Fay by writer, has depicted graphically the story of how men wormed their through the heart of the Cascades, bringing a new through railroad into the great Klamath country.

By FRANK FAY EDDY

PART II.

One high minute stands out among the memories of three thrilling days crowded with new experiences and impressions during which the photographer (that is my wife, you understand) and the writer journeyed over the Cut-Off between Eugene and Klamath Falls. It is the feeling of awe and surprise which overcame me when I stepped out late in the evening on the side porch of Seymour's cabin, perched high like an eagle's nest on the upper slopes of the mountains, just as the

the contractors.

Furious Tunnel Building

From this intersection it

full moon rose over the peaks behind and flooded the vista of miles use. But these roads and trails, upon miles of mountains, here black built at an expenditure estimated at in shadows, there sheeny with the \$290,000, had played an important glamour of the moonlight, cut part in the construction. They through with deep dark canyons needed to be built before the construction work could start. Over through the awesome mighty play-them the equipment for grading and grounds fit for the sport of gods tunnelling, the supplies for thousthreaded a roadway and here and ands of men, were carried by horses there gleamed a rail of steel. The and trucks. Some of these roads feeling of awe departed somewhat, followed the actual line of constructhe sense of puny weakness faded to tion, and have been replaced with be replaced with a consciousness of the railway. Some of them parallel a danutless, during, questing some-thing in mon which ever arges him on to new conquests over his en-which connected camp with camp. vironment. This railroad built with Some of these roads will be taken such mighty labor is a symbol of over by the Forest Service, and the modern mind. It is built with knowledge inspired with a daring them will be abandoned and just It could never have been charged off to profit and loss, the built with brawn alone.

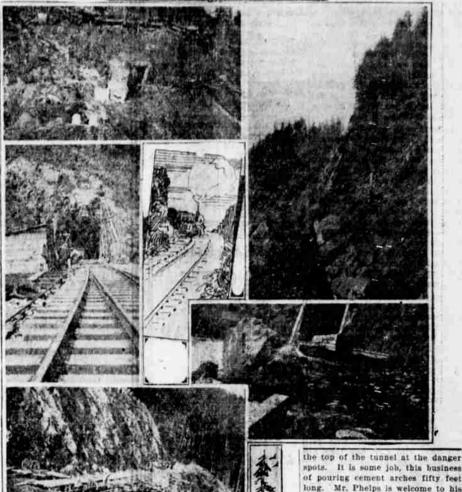
Seymour's Graciousness

At Seymour's we were entertained with kindly courtesy by an ideal Wolf Mountain were to be seen the ing listening to the radio, which openings of small tunnels, known brought us snatches of music and as adit tunnels. These were side bits of lectures gathered via the pulsing ether wave from up and section with the line of the main down the coast and from cities of tunnel. the cast, and chatted with a very was possible to work in two direc-modest man who, through twenty, tions. Thus with two addit tunnels modest man who, through twentyodd years has been building high- the drilling was pushed eight ways ways and railroads-a typical con. at once. . The original survey prostruction engineer. Engineers are jected the line around the precip struction engineer. Engineers are numerous and follow a great variety of specialized lines of work. But great construction engineers are rare. This I gleaned from conversation with two men from the Southern Pacific offices in San Francisco the next day. Construction supplied to Summit tumorition engineers are individualized. tion engineers are individualists, which we passed through later in the day. ship which infuses assistants, fore- net. fighting energy.

the difficulties of practical rail- was moved up and down the track road construction. A viaduct across by the hosit,
a series of chasms through which I was told to look up a man fact, the cement was being poured tractors in charge of much of the into the forms. But the problem of an insecure foundation at one end had to be solved by having great flat slabs of concrete, large enough to cover the bottom of a flat car, which were placed by cranes in position to make a durable foundation. The bridge across Shady Creek could not be laid from the Oakridge side of the line be cause of the necessary delay in building this viaduct. So the spe-cially designed machine for laying steel bridges had been sent around through Eugene back to Weed and from thence was to come via the rail at the other end of the Cut-Off back to do the work at Shady creek -a journey of 500 miles to reach a point half a mile away from the place where it had been located. Spot Where Ralls Meet

We saw the end of steel where

the rails project through the tunnel thirteen and took a good look at the spot where the rails would meet between tunnels thirteen and four-At this point we bid goodbye to Mr. Seymour and wended our way around Wolf Mountain, which is pierced with one of the longest tunnels on the line, 3,148 feet long We followed a winding road which like many roads and trails we struck at times, was now falling into dis-



At the upper left is shown the viaduct under construction over Noisy creek, on the new Natron cut-off line of the Southern Pacific Railway company. At the center left, the work gang is shown cementing the entrance of the south end of Summit tunnel. At the upper right is shown the place where steel will meet steel when the last spike on the new line is driven. The present end of rails at Shady creek tunnel is shown at the lower right, while the lower left shows the pouring of concrete into the forms of the viaduct

time that evening talking on the tongue and grooved stuff, resem-tile photographer took a picture or are wedged between the boards and telephone over the work done during the day and lining up the work on its side. A steep inclined track of the next day with the various engineers, foremen and contractors on the job between Oakridge and his own station.

A scep inclined trace of the said. A scep inclined trace of the next day with the various engineers, foremen and contractors on kind of a hopper, from which troughs of rough wood ran to the section to be poured. At the bot-The next morning, accompanied tom of this track was the hoisting by Mr. Seymour, we started on our engine, just at one side, while imtramp over the gap between the mediately at the end was the mixer, two ends of the line, now so short A small steet car with capacity to that the sounds of activity mingle at just carry the amount contained in Here we saw some of the revolving drum of the mixer

Noisy creek wends its turbulent named Phelps, who had charge of way was under construction. In the speeders belonging to the con-

across Noisy creek guich. cement work, W. A. Bechtel & Co., two and stretched out on a pile of esults. They are chosen because At the other end of the long tun- of San Francisco. He was pointed lumber for a nap, while I watched they can get results out on big nel through Wolf mountain we out to me, a slender young man in the pouring and even ventured, unjobs where dirt is flying, blasts came upon a scene of intense activ. muddy clothing splotched with ce-der the guidance of the busy Mr. are booming and thousands of men ity. A gang of carpenters were ment. Then I had to catch him on Phelps, up on top of the arch, where must be managed. They must make working with feverish haste to com-

instant decisions. There is no time plete the form and troughs required ear while he fistened to half a dor-froughs. They to pour an eight-foot section of the must have that quality of leader- arch within the entrance of the un-Eight feet at a time is about transportation on ever the line. He feet at a time can be run on one limit possible to be done in a was remarkably courteous for a side, then the troughs must be men, inspectors and workmen with the limit possible to be done in a was remarkably courteous for a side, then the troughs must be fighting energy.

day's work of a gong. A great arch man interrupted at a critical mo-moved to pour two feet on the oth-Is Born Leader had been built, fifty feet long, sep. ment, and regretted that nothing er side. The most critical point is Seymour, in intervals between arated from the sides and top of the was available just at that time, but just when the mixture is rounding tuning in on the radio and answering our questions, spent half his tunnel by about four or five feet, asked us to stick around awhile and over the top, when there is danger
ing our questions, spent half his

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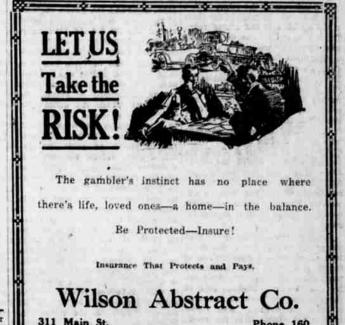
cannot be stopped until the whole at Oakridge. section is completed and that day's of these resident engineers at each work, with the test of luck, would bendquarters is an organization of

ene lights.

Mr. Seymour and Mr. Berkeley are

cerned. Once started the pouring organization of Major McKennett Under the direction not end. I was told, before 9 or 19 their own assistant engineers, in-o'clock at night, and it would be spectors and foremen, mostly young finished in the glare of hig acety- men recently from universities.

Just as we were put on board a It was here I met Resident En-diminutive speeder shortly before gineer Duffers, who had headquar- noon to be moved on to some inters a couple of miles up the track, definite place farther on the line. He belongs to the organization of a kind of high-wheeled speeder Superintending Engineer Beattle, with one end enclosed overtook us who directs the work from Planton, and "Steve" jumped from the run-(Continued on Page Eight)



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