

"SEEING" ECLIPSE IS NO SMALL TASK

Government Scientists Work
Long Hours Getting Ready
for Great Event.

CAMERA TUBE 65 FEET

Carload of Astronomical Instruments Being Set Up On Concrete Bases—5 Weeks of Preparation Required for Success.

BAKER, Or., May 18.—(Special.)—Getting ready for an eclipse is a big task. The uniformed who think an astronomer's job consists merely in peering through a big telescope while the eclipse is passing and then announcing whether it has been a success or a fizzle should visit the Baker County Fairgrounds and see what members of the Government party are doing in preparation for their study when the moon gets between the earth and sun on the afternoon of June 8.

While the time for actual study is only 1 minute and 52 seconds, five weeks of preparation are required, and the observers are putting in long hours at the station, where, after about 10 days, order is beginning to come out of chaos. The carload of scientific instruments is being distributed and set up about the grounds, which are daily growing to look less like the familiar building place of the prize Baker County stock and more like an observatory. With the antennae of the wireless station rising from each end, the grandstand from a distance looks like a man-of-war, and the paddock between the stables, with numerous instruments covered with white tarpaulins at night, has the appearance of a spook's playground.

Cloudy Weather Still Prevails. Although the cloudy weather, which has prevailed since the first night-telescope was placed at the disposal of visitors—has prevented a continuance of the lessons in practical astronomy for the public, the Government party, through Mayor Palmer, to visit the observing station, where they see strange but interesting things.

One thing most striking to the ordinary observer is the thoroughness with which the preparations are being made. To be properly equipped to take every advantage of the short period of totality, it has been necessary to erect several buildings, and every instrument in use is set on a concrete base. This fact alone illustrates the thoroughness with which the Government men work to leave no possible loophole for failure by reason of unpreparedness.

Camera Tube 65 Feet Long. For their work a dozen or more instruments have to be set up and adjusted, and, among other things, already erected is a tube 65 feet in length, to be used in the operation of the large camera, which takes a plate 17 1/2 inches and has a length of 65 feet between the lens and plate. It is built stationary on the ground, and the reflection of light, as it changes with the movement of the sun, is kept steadily trained on the lens by the use of a mirror, set to move in exact synchronism with the sun movement. The same device is also used on all the other cameras and much time has to be spent in perfecting the fine adjustments necessary.

Altogether the members of the party expect to make about 50 photographs of the eclipse, certain exposures to be made by the various instruments in accordance with the schedule prepared in advance and practiced, so that on the count of each second of totality a certain thing will be done. Arrangements have been made for the use of a dark room of a local studio, where some of the plates will be developed.

Results Announced Immediately. It is not likely any of this work will be done until the eclipse, but Professor S. A. Mitchell, of the Leander McCormick Observatory, University of Virginia, stated that it will be possible to announce immediately after the eclipse whether or not the results are satisfactory, and in a general way what the study has accomplished.

The most exact work is required in adjusting the time-recording instruments. Principal among these is the Pouth transit, an instrument used to determine the exact time here and correct it by radio signals between Baker and the Arlington, Va., station. This instrument is so perfectly adjusted and so delicate that it will record the exact time to 1-100th of a second and determine the latitude of the spot where it is set up within 10 feet. The time is kept automatically with three ships chronometers and corrected at regular intervals through use of the Pouth transit.

Scientists Work Long Days. Mr. Hammond and the others are spending long days at the observing station. The sailors of the Bremerton party doing the mechanical work finished the big camera tube yesterday and turned it over to the observers for completion of the finer details and "tuning up." Today they start the work of setting up the smaller cameras and spectroscopes. F. Welsh is in charge of the party and his assistants are G. F. Pehling, P. Oleson, C. Kummel, H. Horrick and W. L. Veale, and they were highly complimented yesterday by Professor Mitchell on the excellence of their work.

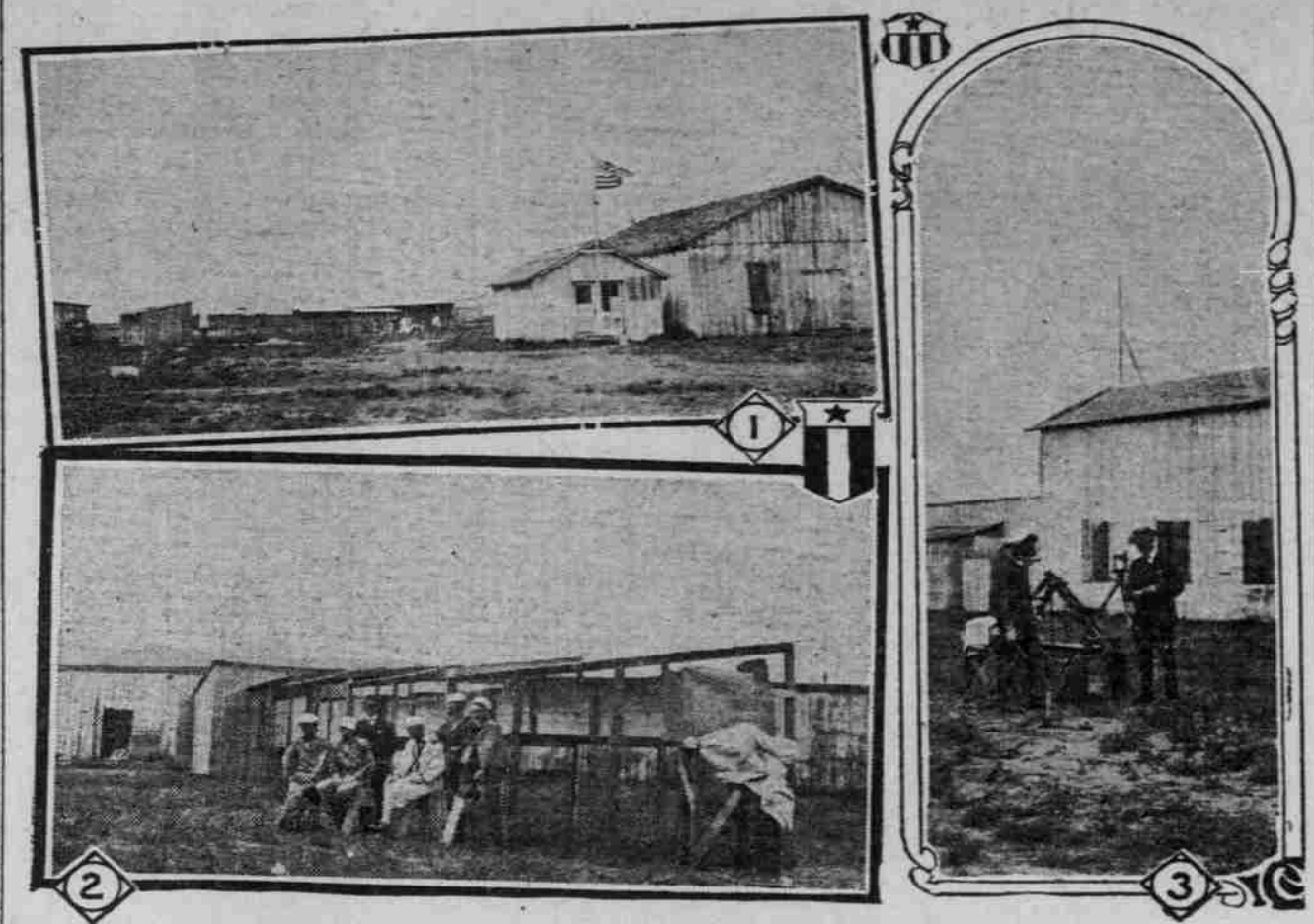
At an early date readers of The Oregonian may read an article by W. M. Conrad, observer of the naval observatory, which will reduce to the simplest language possible technicalities almost incomprehensible to the layman, in which he will discuss numerous astronomical topics which have a bearing on study during an eclipse and which the casual observer may make use of in a practical way in viewing the great natural phenomenon of June 8.

ABERDEEN PLANS BUILDING
Liberty Auditorium for Gatherings
and Red Cross Structure Fixed.

ABERDEEN, Wash., May 18.—(Special.)—The erection of two large frame buildings here, one as a Liberty auditorium for public gatherings and the other for the use of the Red Cross, will be started shortly. The City Council has granted permission for these to go up in the fire limits and to stay there for the period of the war.

Plans for the Liberty Auditorium are complete and all material and labor which go into it will be donated. It will be 50 by 120 feet and will be put up in one day. The Red Cross building will be of similar size and will go up on an adjoining lot. The two buildings together will be worth about \$15,000.

PHOTOGRAPHS SHOW PREPARATIONS BY GOVERNMENT SCIENTISTS AT BAKER TO OBSERVE
COMING SOLAR ECLIPSE.



1—Where Government Station to Observe Eclipse Is Being Established at Baker County Fairgrounds. Left-Hand Cross Marks Building Which Will House Plate of Largest Camera and Right-Hand Cross the Lens. Other Instruments, With White Coverings, May Be Seen. 2—Party of Bremerton Naval Station Men, Who Are Aiding Government Observers in Setting Up Their Observing Station for the Eclipse of June 8. 3—Professor S. A. Mitchell, of the Leander McCormick Observatory, University of Virginia, Showing a Sailor How to Set Up an Instrument. Antennae of Radio Station Appear Over Roof of Grandstand.

WAR SESSION MEETS

Boise Conference This Week
to Be Largely Attended.

CO-OPERATION IS KEYNOTE

Speakers of National Reputation on
Programme as Representatives
of National Defense
Council.

BOISE, Idaho, May 18.—(Special.)—Idaho's first war conference will be held in Boise May 20 and 21. It will be attended by representatives of all war organizations, both state and county, over 100 of whom will probably be present. Four speakers of National reputation will be here as representatives of the Council of National Defense and will explain to the war workers the importance of co-operation on and co-ordination in carrying on the war work in Idaho. These men are: George H. Chandler, Dr. J. A. B. Scherer, Professor Guy Stanton Ford, all representing the National Council, and Lieutenant Paul Perikord, a hero of the battle of the Marne and Verdun, representing France.

Every county council is expected to have one or more delegates present at the conference. This is also true of the woman's committee, the food and fuel administration, and other branches of war work. The importance of the conference is being urged by the State Council of Defense, which meets here at the same time. No county, it is held by the State Council, can afford not to have at least one delegate present to discuss the importance of the nature of the war work that will be taken up. The representatives of the National Council who will be present will show Idaho workers the war situation today as the Nation sees it and will give an idea of what the Nation expects from the state of Idaho in the future.

President Wilson has issued the following statement regarding the Idaho conference: "The fact that the Idaho conference is being held at this time is a sign of the public spirit that has led you to call a war conference at Boise on May 20 and 21. In our fight for the rights of free men the world over your efforts and the efforts of your fellow-citizens are a vital factor. Your determination to perform the necessary duties of citizenship in the face of our Nation, reassures a stricken world that our ideals of justice and humanity have not been abandoned in the face of the war." The National representatives who will be present are men prominent in the war work that is in progress in Idaho. Lieutenant Perikord was a Catholic priest in Minnesota when the war broke out, returned to France, but finding all vacancies for chaplains filled, enlisted as a private and participated in the bloody battle of the Marne. Later he was at Verdun, where France was fighting the world's most famous war cry: "They shall not pass."

Dr. J. A. B. Scherer is president of the Throop Institute of Technology, Pasadena, Cal. He has traveled extensively in Japan and for the past six months has been the traveling representative of the Council of National Defense, going from state to state to study and discuss and stimulate the work of the State Councils of Defense. George Brinton Chandler is recognized as one of the most capable publicity men associated with war work. He took charge of the publicity for the Connecticut State Council of Defense and made a complete success of it. He was elected by the Council of National Defense to visit the state councils in Western states and take to them the message of publicity. He is a speaker of unusual force.

The following is the two-day program:

UKULELES
\$2.75
STEEL GUITARS
\$5.00

FREE LESSONS
Seiberling-Lucas
Music Co.

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gramme that will be followed by the war workers in attendance at the war conference which takes place in the House of Representatives at the Statehouse annex.

Monday, May 20—10:30 A. M. meeting of State Defense Council, Dr. Bryan, presiding; address by Governor; report of committees; 1:30 P. M. woman's committee meeting in Carnegie Hall, Mrs. S. H. Hayes, presiding; 2:30 P. M. meeting of delegates, Dr. Bryan presiding; address, "Publicity," by Professor Guy Stanton Ford; 3:30 P. M. address, "Organization," by George H. Chandler; 4:30 P. M. conference of County Councils; discussion on organization, led by Jess Hawley, of Ada County; discussion on publicity; 8:30 P. M. public meeting in Pinnay Theater, Governor Alexander, presiding; music, "Idaho," by ladies' quartet; address, Dr. J. A. B. Scherer; address, Lieutenant Paul Perikord.

Tuesday, May 21—9:00 A. M. Red Cross delegates visit Boise Red Cross work rooms; 10:00 A. M. meeting of County Councils; 10:30 A. M. "Public Service Reserve," O. G. F. Markhus; "Federal Working Reserve," M. J. Kerr; "Farm Labor in Idaho," George Thome; "Financing the County Council," discussion; 10:00 A. M. "Financial Problems; Liberty Loan," D. W. Davis; "War Savings Stamps," Governor J. H. Hawley; "Woman's Liberty Loan," Mrs. Graham; discussion; 11:00 A. M. "Red Cross Work," E. H. Dewey, C. A. Barton, Lieutenant Perikord; 1:30 P. M. "Agricultural Production," L. W. Pinnay; "Food Conservation," R. M. Dickell; "The Fuel Situation," F. R. Gooding; 3:30 P. M. meeting of State Defense Council.

FORCES READY FOR DRIVE

Baker and Grant County Workers
Plan Brief Campaign.

BAKER, Or., May 18.—(Special.)—Plans for the Red Cross drive in the district comprising Baker and Grant counties are about completed and the work will start Monday, with the campaigners determined to finish in a very few days. The district quota is \$20,000, of which \$15,000 is apportioned to Baker and \$5,000 to Grant County. The quota for this city is \$8,000.

W. A. Halliday is district committee chairman and his committee in the communities of the two counties are organized with P. F. Chandler, of Canyon City, in charge of the work in Grant County.

The members of the executive committee in charge of the drive in this city are: W. A. Halliday, Owen F. Jones, C. L. Palmer, William Pollman, William Doby, B. E. Harder and C. L. Shaw.

TACOMA TO CHANGE BASIS
Cash System of Accounting Ordered
by Attorney-General.

TACOMA, Wash., May 18.—(Special.)—Attorney-General Tanner has ordered the city of Tacoma to adopt a new accounting system in uniform with other cities which come under the state bureau of inspection and supervision of public officers.

The state bureau uses what is known as the "cash" system and the city has worked under the revenue and expense system. The change will cost from \$200 to \$500 and will take at least five months to put into operation.

Harry Lyne, a British Y. M. C. A. war work secretary on the western front, saw 37 Y. M. C. A. huts destroyed by shell fire within 24 hours.

COVE DROUTH RELIEVED.
COVE, Or., May 18.—(Special.)—A discouraging drouth in Cove and vicinity was relieved somewhat last Tuesday night by a refreshing but not vitally helpful rainfall. As much again would fill the need. K. J. Stackland officially reports from his office: April 1, 1.14; May 7, .02; May 14, .36.

JAPANESE GIVES BERRIES TO RED CROSS.
PASCO, Wash., May 18.—(Special.)—S. Mori, a Japanese rancher just west of Pasco, donated his first crate of 1918 strawberries to the local Red Cross and the 24 quarts added \$24 to the Red Cross funds.

BEAUTY AND QUALITY UNITE
IN THESE DIAMONDS

IF you contemplate the buying of a Diamond for yourself or for someone else, do not fail to see our displays. We show a profusion of diamonds, diamond rings and diamond-mounted jewelry. Our collection is famed for excellence of quality, beauty of cutting, and moderateness of price.

Special Values at \$25, \$50, \$75, \$100
WEDDING SILVER—Many selections of silver for June brides are being made here. We invite your inspection of our beautiful stocks. Selections may be reserved for later delivery.

ARONSON'S
CORNER WASHINGTON AND BROADWAY

MISS DURNING NAMED

PORTLAND WOMAN TO ATTEND
CHICAGO FUEL CONVENTION.

Fuel Administrator Holmes Announces
Embargo on Coal Importation.
Will Not Affect State.

Upon his return from the conference of Western Fuel Administrators at Salt Lake, Fuel Administrator Holmes, of Oregon, last night announced the appointment of his executive secretary, Miss Margaret Durning, as official representative of Oregon to the 10th annual convention of the International Fuel Association in Chicago, May 22-24.

Of the 3000 delegates who will attend, Miss Durning probably will be the only woman present representing an entire state. She will leave Portland tonight for Chicago.

Regarding the Salt Lake conference from which he returned yesterday, Mr. Holmes said the movement to declare an embargo on Utah and Wyoming coal, insofar as it affects Oregon, has been killed.

"We pointed out that Oregon needs all the coal possible and that there should be no limitations," said Mr. Holmes. "Now that the Government has decided to curtail the importation of fuel oil from California, it means that Oregon will be compelled to import not less than 1,500,000 tons more of coal than normal conditions demand."

The car situation has improved, and the mine output, particularly in the mountain region, is increasing. If people will only get in their fuel orders now, Oregon will be in good position to go through the winter without experiencing "heatless days."

Shortage of Teachers Vital.
PASCO, Wash., May 18.—(Special.)—Assistant State Superintendent of Public Instruction Arthur Wilson was in the city Thursday and while here held a meeting with county officials, members of school boards and educators to discuss the shortage of teachers which now confronts the schools of this state.

The matter of salaries is a difficult problem, as a higher level of taxes for school purposes would be necessary at a time when the people of the state are already burdened almost to the limit. The purpose of the meeting was simply to receive suggestions and to acquaint the State Superintendent's office with conditions in this locality and the sentiment of the people in regard to suggested remedies.

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Stetson Hats, \$5 and \$6

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This war is teaching many men like this a great lesson. They find they can come here and get as good quality in

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READY-MADE CLOTHES

as the tailors gave them; they get a perfect fit, correct styles, and they save money for the cause.

A FIT FOR EVERY FIGURE
The beauty of it is, no matter what a man's figure may be—tall, stout, slender or very short—Hart Schaffner & Marx have provided the right suit for it. It's our mission to see that you get the right one for you. It won't take us long to show you that we're fixed for you.

The prices we ask for these clothes are very economical.

\$25, \$30, \$35 and Up

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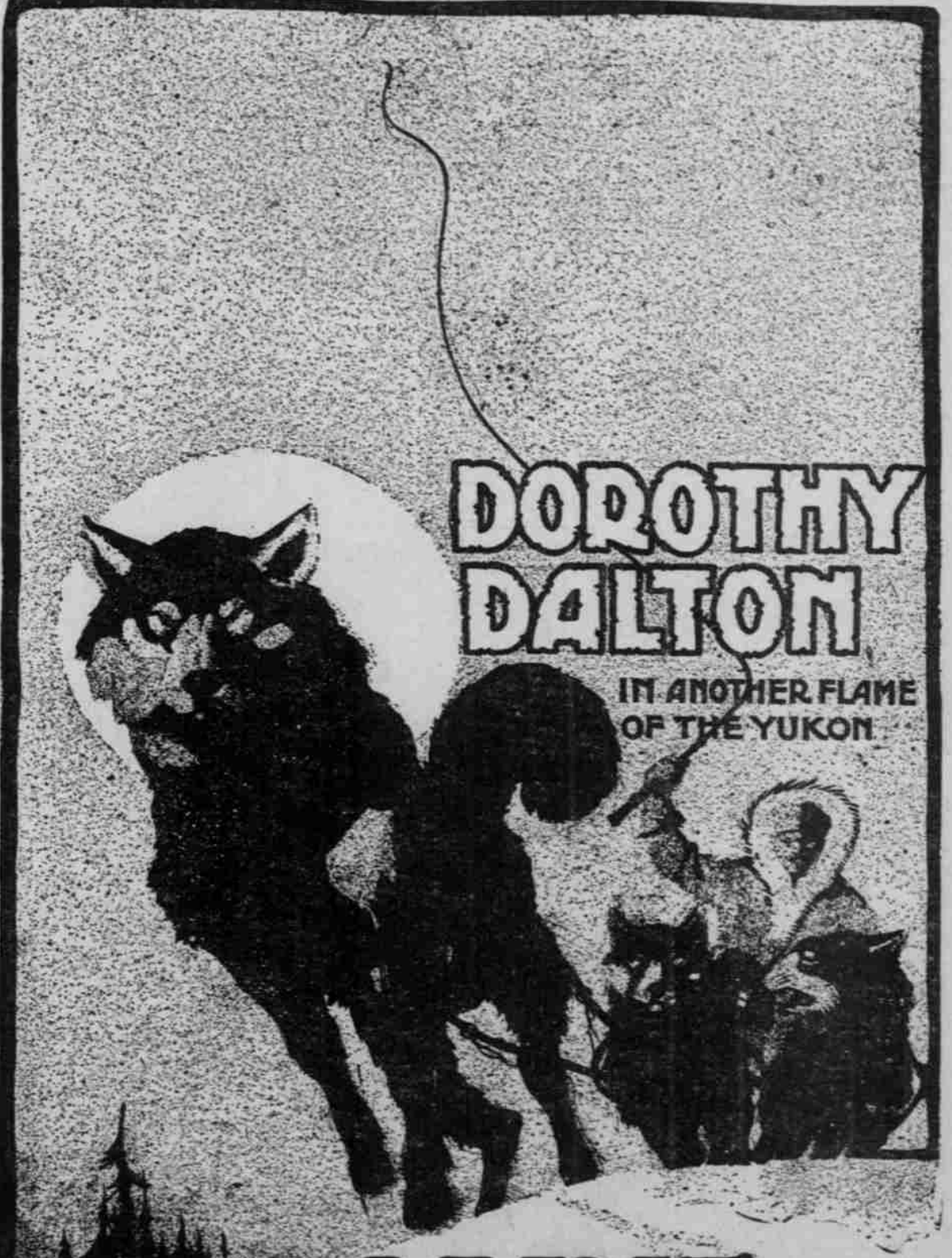
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Quality and Service

Gasco Building
Fifth and Alder



COLUMBIA

SIXTH AT WASH. TRY TO GET IN
4 DAYS
MAY BE MORE



ALINE OF THE DANCE HALL

"There was a woman, and she was wise, woefully wise was she. And she was old, so old; yet her years all told were but a score and three; But she knew by heart, from finish to start, the book of iniquity."—Robert W. Service.

ALASKA WONDERS in MOTION
An amazing example of the most daring camera work we've ever seen. A GLACIER CAUGHT IN ACTION! Thousands of tons of ice and snow breaking off and falling hundreds of feet into the sea, setting up great tidal waves and shaking the earth for miles around. Worth a dollar alone.