PERFECT SPHERES

With All His Scientific Skill Man Cannot Produce Them.

THE CURVING OF A BASEBALL.

It Is Possible Only Because the Ball Is an Imperfect Globe and In Comparison With Its Size Much Rougher Than the Surface of the Earth.

The real reason why a baseball can be thrown so that it will describe wonderful curves during its progress through the air is that every such ball has a surface made up of mountains, valleys, craters, canyons, gorges, plains and other irregularities of the surface that, when the difference in size is taken into consideration, makes the surface of the earth seem like plate glass.

If it were possible to make a perfect sphere—if it were possible to make a baseball with an absolutely smooth surface and an exact sphere—no pitcher in the world could make it curve. The very best pitchers baseball has ever known or probably ever will know could not make the ball deviate a hair's breadth in its flight.

And so while it is partly in the art or knack the professional pitcher has in holding and releasing the baseball as he throws it, it is also due to the fact that a baseball has a wonderfully rough surface against which the air catches and turns it that gives it the curve.

If you pass your hand over a plate glass it moves smoothly with nothing to retard it. If you pass your hand over an unplaned board you can feel the roughness—splinters we call them. You cannot move your hand as easily over the board. This is the same principle with the baseball. There is a roughness in its surface that catches in the air and forces one side about or retards that side. This has but one result—to make the baseball leave its straight course, and in doing this it describes a curve.

This does not detract in the least from the cleverness of the pitcher who can so accurately judge his muscular control as to make a baseball curve up or down, right or left. But the fact remains that it is the roughness of the baseball that makes all his pitching cleverness possible.

Take a brand new league ball in your hand. It looks to be a perfect sphere—that is, absolutely even and uniformly round and as "smooth as glass." And it may be as smooth as glass, for glass also has a rough surface.

Put a baseball under the most powerful microscope, enlarge it microscopically 10,000 diameters, and what do you see? The very thing mentioned in the first paragraph of this article. The surface is rough. It looks like the landscape in the Alps or Yellowstone park or any other rough section of the earth. It has peaks, ranges, ridges, valleys, plains and holes, gulches and all sorts of uneven places, and if the earth could be made as small as a baseball it would be practically a perfect sphere and absolutely smooth. This is because the highest mountains of the earth and the deepest valleys would be millions upon millions of times smaller in comparison with the rough uneven places on a baseball if either the earth were reduced to the size of a baseball or a baseball enlarged to the size of the earth.

If this were not true the earth would not revolve so regularly upon its axis. It would perform an "in shoot" or "out shoot" and curve off through space.

Even the billiard ball has a surface much rougher in comparison to its size than the surface of the earth, and we refer to a billiard ball as about the smoothest thing known. "As smooth as a billiard ball" is a well known simile. For the same reason that a perfectly smooth baseball could not be curved, a perfectly smooth and perfectly round billiard ball could not be made to curve on the table. It would not take "English," as billiard players call it when they make a ball go forward and then roll backward or in any direction just by the manner in which they strike it with a chalked cue.

This fact of roughness causing it to spin becomes all too evident when a player forgets to chalk his cue and plays several shots thereafter. If the leather tip of the cue becomes shiny it will slip on the ball. There is no purchase with which it can take hold. But chalk is sticky stuff, and the granules are large, so that a well chalked cue has a very rough surface, and this rough surface of the tip of the cue fits into the rough projections on the ball, and thereby a ball can be given a lot of twist. In order to accomplish this successfully, moreover, the billiard cloth nap must be new and therefore rough.

During recent experimentation with regard to the kinetic theory of gases a Belgian scientist desired to find out how perfect a sphere could be made in order that by the clashing of these together an idea might be secured of the effect of the collisions of the spherical atoms that make up a gas. The project had to be abandoned at last because no machinery could be constructed that would turn out a perfect sphere artificially, and nature has no perfect sphere of large size in all her many forms of matter. Perfect disks could be made, but a round ball was beyond the limits of human accomplishment.—New York American.

The greatest pleasure is the power to give!

Legend of the Moss Rose.

A German tradition gives the origin of the moss rose as follows: An angel came to earth in mortal guise. He sought a place of shelter and repose after his labors of love, but every door was shut against the heavenly visitor. At length the angel, being very weary, sank upon the ground and over him a rosebush spread like a tent. It caught upon its outspread leaves the falling dew which would otherwise have drenched the messenger of love. Waking, the angel said to the rose:

Thou hast yielded the shelter that man denied;
A proof of my love shall with thee abide.
And the green moss gathered about the stem
While the dewdrops shone like a diadem,
Crowning the blushing flower.

Naturally.

The teacher had been reading to the class about the great forests of America.

"And now, boys," she announced, "which one of you can tell me the pine that has the longest and the sharpest needles?"

Up went a hand in the front row.

"Well, Tommy?"

"The porcupine."—Philadelphia Ledger.

The Scrap Book

Took It Literally.

It is told of the late Chauncey Shafer, who bears the same relation to New York's "anecdotage" that Sydney Smith does to London's, that he employed in his law office a stunted youth of very tractable temperament.

One day Mr. Shafer returned from lunch in a lively mood and, by token of the Madeira he had consumed, summoned Billy into his private office.

"Boy," he said carelessly, "go over to the special term and see what in blazes the —— fools are doing up there."

The late Judge Brady was presiding over the trial of an action involving many interesting questions of substantive law; hence the courtroom was empty save for the litigants, their counsel and the necessary witnesses. Judge Brady's kindliness toward women and children was proverbial, and when Billy stood against the railing of the inclosure, his face barely reaching the balustrade, the judge noticed him immediately. He interrupted the arguments of counsel and turned to Billy.

"Well, my lad," he said in suave, judicial accents, "what can I do for you?"

"I'm from Mr. Shafer's office," Billy replied, "and he wants to know what in blazes you —— fools are up to over here."

Evening Prayer.

If I have wounded any soul today,
If I have caused one foot to go astray,
If I have walked in my own willful way—
Good Lord, forgive!

If I have uttered idle words or vain,
If I have turned aside from want or pain,
Lest I myself should suffer through the strain—
Good Lord, forgive!

If I have craved for joys that are not mine,
If I have let my wayward heart repine,
Dwelling on things of earth, not things divine—
Good Lord, forgive!

If I have been perverse or hard or cold,
If I have longed for shelter in thy fold
When thou hast given me some part to hold—
Good Lord, forgive!

Forgive the sins I have confessed to thee,
Forgive the secret sins I do not see,
That which I know not, Father, teach thou me—
Help me to live.
—C. Maud Battersby.

Mr. Egan's Parable.

In company with other American ambassadors and ministers Minister Maurice Francis Egan, who represents us at Denmark, sent in his formal resignation to President Wilson on March 4. Mr. Egan accompanied the resignation with a note that said his attitude in the matter of resigning reminded him of a woman he heard about once, who through financial misfortune came to be in distressed circumstances and for a livelihood had to rely on a few hens she owned. She was of good birth and breeding and very proud, but was finally forced to go out and peddle eggs.

She took some eggs in a basket and walked along the streets, saying:

"Eggs, tuppence! Eggs, tuppence! I hope to heaven nobody hears me! Eggs, tuppence!"—Saturday Evening Post.

He Got a Shock.

A bevy of colored ladies once rallied around an unusually quick firing Boston reformer and begged him to sign a petition. Better treatment for their young in the public schools. Excellent—of course, of course!

Instantly the good soul recognized the merits of this beautiful cause, and down went his name. Never stopped to peruse the document. Patted himself on the back as the bevy withdrew after thanking him profusely.

Next morning, however, he was quite a little disturbed on opening his newspaper and seeing his signature appended to a petition beginning, "We, the parents of colored children."—New York Tribune.

Scared Out of Writing Badly.

A well known musician, who writes a very illegible hand, once sent an unusually hopeless scrawl to a friend. The latter studied it a minute, gave it up in despair and then sat down and wrote in reply: "I shall be most happy to dine with you tomorrow at 6. Kindest regards to your wife," etc. In less than half an hour his friend appeared breathless at his door.

"There's some misunderstanding," he said anxiously. "I wrote you a note asking if you could play the piano part of the trio at Brown's recital, and here you've sent me an acceptance of a dinner invitation, but I didn't invite you to dinner."

"Well," returned the other blandly, "I didn't suppose you'd really sent me an invitation to dinner, but I couldn't read a word of your note, and in that case hereafter I mean always to take it for granted that you're asking me to dine."

For one of his correspondents at least the offender now writes legibly.

Awaiting a Chance.

A farmer and his wife in an out of the way but interesting corner of Galway had made their only visitor very comfortable indeed, says the Manchester Guardian. As the road ended with the farm and passersby were excessively rare the guest asked the farmer why he did not try the effect of an advertisement in one of the daily newspapers. "Aye," he said, "that's a fine notion, and we have made up our minds to do it. We are just waiting till we see a bit vacant corner in the Herald, and then we'll send up a line or two."

SANCTUARY IN ENGLAND.

The Principle Still Survives to a Limited Degree.

Much water has flowed under London bridge since the British criminal could defy the strong arm of the law by the single expedient of escaping to the nearest church or hospital and claiming the protection of the "sanctuary," for down to the early Stuart days Great Britain had thousands of just such refuges for the criminal, from cathedrals and royal palaces to scores of towns and cities, where the man guilty of felony could laugh with impunity at the officers of law and justice for a period ranging up to forty days. If within that time he chose to go before the coroner, clothed in penitence and sackcloth, and confess his guilt, he was free to quit the realm without any hand daring to stay him.

Although no such asylum exists today for the criminal, the principle of the "sanctuary" still manages to survive. This privilege refers only to civil offenses and not to crimes as in the olden days, and yet the privileges are of considerable value.

No clergyman can be arrested within the walls of his church or while he is going to or returning from his duty. Bishops and archbishops are still more protected, for not one of them can be haled before a magistrate even though the cause is a crime, unless the king especially commands it. Nor even up to the present time has any warrant an effect within the precincts of any of the king's palaces.—Chicago Tribune.

COLORS OF THE SKY.

And Their Connection With Stormy or Sunshiny Weather.

In "Our Own Weather" Edwin C. Martin, after noting the indications of weather shown by barometric readings, the variations of the winds and their meaning, the ever changing forms of the clouds, shows how the colors of the sky act as weather signs:

Ordinary observation has gathered a great number of weather signs from simply the ever varying colors of the sky. Among the more familiar and reliable ones are:

A bright blue sky is the sky of fine weather.

A bright yellow sky at sunset promises winds, a pale yellow sky rain and a "sickly greenish" sky both wind and rain. A rosy sky at sunset promises fair weather, but a dark red sky at sunset promises rain. A red sky in the morning promises wind or rain. "A red sun has water in his eye."

"If the sun sets in dark, heavy clouds, expect rain the next day." Even a gray sunset indicates rain. But a gray morning indicates a fine day.

"When the sun draws water rain follows soon."

And, finally, what in this connection it would be perhaps the most reproachful of all posible omissions not to mention:

Rainbow at night,
Sailor's delight;
Rainbow in the morning,
Sailor's warning.

The Great White Shark.

The man eating fish par excellence is the great white shark. It is otherwise known by the name of man eater. Occasionally specimens are seen on both coasts of the United States, though its more customary habitat is in tropical waters. This frightful creature attains a length of nearly forty feet, and it is able to swallow a man whole. This fact is proved by an experiment which sailors are fond of making when such a shark is captured. The skull being preserved, they amuse themselves by crawling one after another through the distended jaws. It would be unsafe to do this, however, when the head has been freshly cut off, because under such conditions the jaws will snap together fiercely for some time afterward if anything is placed between them.

LAYING A GHOST.

A Simple Solution to the Mystery of a "Haunted" House.

The mystery of a "haunted" house was explained in a recent number of Science. It was a large, handsome structure in Boston's Back Bay district. The trouble centered in the third and fourth stories, where the slumbers of servants and children were disturbed by strange sensations.

It was a common occurrence for them to awake in the night with a feeling of oppression, "as if some one were tapping upon me." Sounds also were heard, as if some one were walking about or overhead. Once a child rushed screaming into the nurse's room, crying that a man was waking him up and asking why she let him frighten him so. In the morning the children were pale and sluggish, even cold water lacking its usual power to enliven them.

Investigation at length revealed a comparatively simple, mechanistic solution in the escape of a large amount of furnace gas. Often the sulphur in it was so strong as to make the eyes water and to hurt the throat, while the sensations of oppression were typical of carbon monoxide. The noises may have been actual sounds coming from an adjoining house, although any noises at all would probably be exaggerated in the minds of persons awakened in the night while suffering from poisonous gas.

The Mother-in-law In France.

It is enough to chill one's passion for newspapers to read the mother-in law quips, as they are sad, sad jokes. A mother-in-law is not funny afterward; she is only funny beforehand. In France, where they do so many things neatly, this is understood. Listen!

Young Raoul had gone down on his knees to madame, the Widow Lemoine, and begged leave to marry himself with her daughter.

"But no!" said the widow firmly. "It is impossible!"

Dismayed, Raoul burst into tears.

"Don't take it so hard, mon gosse!" said she. "The petite Yvonne is exquisite, she is ravishing, yet there are many others in the France. A little of patience!"

"But, madame! my dear madame!" howled Raoul. "It is you that I regret!"—New York Tribune.

Buried In Installments.

A well known local character of Townsend, Mont., lost a leg in a switching yard on the railroad. The railroad boys raised a little purse for the victim, who was rather down on his luck in other ways aside from the accident. After paying his board and hospital bills he went down and bought a coffin and a lot in the cemetery, and had his amputated leg buried in good style.

"Now," he said, "when I cash in all they will have to do will be to dig up the coffin and put me in with the leg!"—Saturday Evening Post.

Resurrections.

The world is full of resurrections. Every night that folds us up in darkness is a death, and those of you that have been out early and have seen the first of the dawn will know it. The day rises out of the night like a being that has burst its tomb and escaped into life.—George Macdonald.

Tip to Sleep Walkers.

"Pop."

"Yes, my son."

"I know the reason why people walk in their sleep."

"You do? Why is it?"

"Because their feet don't go to sleep."—Yonkers Statesman.

A Case In Point.

"Some things are better left unsaid," quoted the wise guy.

"Sure," agreed the simple mug; "every breach of promise suit demonstrates that."—Philadelphia Record.

Increased means and increased leisure are the two civilizers of man.—Disraeli.

PACKING GOLD LEAF.

It Is "Handled," So to Speak, by the Aid of a Puff of Breath.

The gold reaches the "beaters" first in wide bars or nuggets. It must be weighed, melted and made into inch wide ribbons before the "beating" begins. The ribbon is then cut into inch squares and beaten with a hammer wielded by a stalwart workman. When each leaf has been beaten thin it is transferred to a mold, where it is beaten again for a period of four hours. The beating is accomplished by means of a wooden hammer weighing from seven to eighteen pounds on a sheepskin cushion resting on a granite block. The gold beaten is usually 22 or 23 carats fine. A little alloy of copper or silver is added to make it spread. It would be impossible for the beaters to handle perfectly pure gold.

Gold leaf is packed more by the aid of the breath than that of the hands. The operation of transferring a sheet of almost transparent gold leaf from one place to another is of such delicacy that it is possible to accomplish it only by a slight puff of the breath. The packers are for the most part girls, to whom, after beating, the gold leaf is handed.

The girls lift the unshaped leaf from the mold with a pair of wooden pincers, flatten it out on a sheepskin cushion by gently blowing on it, cut it into a perfect square, replace it between the leaves of the book and flatten it out with the breath. A "book" consists of twenty-five leaves, and a skilled girl operator can pack seventy books in a day.—Harper's Weekly.

The Only Explanation.

"Remember," said the fair visitor to convict 2323, "that stone walls do not a prison make nor iron bars a cage."

"Well, den, lady," replied 2323, "de warden's soft'nly got me hypnotized."—New York Times.

Try It.

Start out with the intention of calling everything by its right name and you will change your mind before you have gone a block.—Chicago News.

No Exaggeration.

"You told me you were worth a million, and I find that you have only a paltry $101,000," said Blathers' partner.

"Well, $101,000 is 1,000,000 cents," said Blathers.—Harper's Weekly.

Commercial Valuation.

"Politeness costs nothing."

"Yes," replied the gentleman of the old school. "Perhaps that's why people have so little respect for it."—Washington Star.

Important.

"Dobbleday seems to think himself a very important person."

"Why, he can't even stand on a street corner and wait for a trolley car without putting on as many airs as if he were laying a cornerstone."—Birmingham Age-Herald.

NOTICE FOR PUBLICATION

UNITED STATES LAND OFFICE, Burns, Oregon, December 1, 1913.

Notice is hereby given that James Henry Anderson, of Narrows, Oregon, who, on November 1, 1912, made Homestead Entry No. 06288, for NE¼, Section 26, Township 26 S., Range 29 E., Willamette Meridian, has filed notice of intention to make final commutation proof to establish claim to the land above described, before the Register and Receiver, at Burns, Oregon, on the 16th day of January, 1914.

Claimant names as witnesses:

E. C. Durall, Miss Gertrude Durall, Fred A. Barron, Mrs. F. A. Barron, all of Narrows, Oregon.

WM. FARRE, Register.

NOTICE FOR PUBLICATION.

UNITED STATES LAND OFFICE, Lakeview, Oregon, November 25, 1913.

NOT COAL LAND

Notice is hereby given that Charles E. Davis, of File, Oregon, who, on June 20th 1910, made Homestead Entry (Act Feb. 19, 1909), No. 03595, for W½, Section 35, Township 21 S., Range 15 E., Willamette Meridian, had filed notice of intention to make Final Three-Year Proof to establish claim to the land above described, before Chas. A. Sherman, United States Commissioner, at File, Oregon on the 15th day of January, 1914.

Claimant names as witnesses:

Thomas A. Marlowe, John McCachem, William H. Street, Paul Wemerall of File, Oregon.

JAS. F. BURGESS, Register.

Oregon Agricultural College
FARMERS' WEEK
December 8 to 13, 1913

This will be a notable event in the educational history of Oregon. Farmers' Co-operation will be the leading topic of a stimulating series of lectures. The week will be crowded with discussions, and demonstrations in everything that makes for the welfare of the farmer and home-maker.

WINTER SHORT COURSE
January 5 to 30, 1914

The College has spared no effort to make this the most complete short course in its history. A very wide range of courses will be offered in General Agricultural Horticulture, Animal Husbandry, Dairying Poultry Keeping, Mechanic Arts, Domestic Science and Art, Commerce, Forestry, and Music. Numerous lectures and discussions on FARMERS' CO-OPERATION, at home and abroad, and will be a leading feature. Make this a pleasant and profitable winter outing. No tuition. Accommodations reasonable. Reduced rates on all railroads. For further information address

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Order Stevens Rifles—Pistols and Shotguns from your Dealer.

J. STEVENS ARMS & TOOL COMPANY,
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CHICOPEE FALLS, MASS.

Patrons of the A. K. Richardson general merchandise store are in luck. The boys have arranged to give away a handsome 7-piece breakfast set to patrons showing by a coupon that they have traded to the amount of $25. Ask them about it. 44tf

Austin Goodman is ready to grind grain and has a building in which it may be stored by farmers at any time. He will grind one day each week and farmers may store their grain any day and get it when convenient. He is prepared to take grain as pay for grinding at the market price. Special prices on large quantities. 44tf.

NOTICE FOR PUBLICATION

UNITED STATES LAND OFFICE, Burns, Oregon, December 1, 1913.

Notice is hereby given that William D. Huffman, of Andrews, Oregon, who, on December 1, 1913, made Homestead Entry, No. 07116, for NE¼SW¼ and S½SW¼, Section 2, Township 35 S., Range 33 E., Willamette Meridian, has filed notice of intention to make final five-year proof, to establish claim to the land above described, before the Register and Receiver, at Burns, Oregon, on the 12th day of January 1914.

Claimant names as witnesses:

Solomon Alberson, Elmer Carlson, Juan Redon, Charles Turner, all of Andrews, Oregon.

WM. FARRE, Register.

Appointment of Administrator.

In the matter of the estate of Izora S. Hayes, deceased.

Notice is hereby given that the undersigned has this day been duly appointed the administrator of the above entitled estate and has duly qualified. All persons having claims against said estate are hereby required to present them with proper vouchers to the undersigned at his residence near Lawen, Oregon, or at the office of G. A. Rembold, his attorney at Burns, Oregon, dated October 23, 1913.

First publication, October 25, 1913.

SCOTT HAYES, Administrator.

SOCIETIES.

HARNEY LODGE, NO. 77, I. O. O. F.
Meets every Sturday in Odd Fellow Hall at 7:30 p. m. A. Dunn, N. G.
W. W. Gould, Secretary
Degree work as follows: First Saturday Initiatory; second Saturday First Degree; third Saturday, Second Degree; fourth Saturday, Third Degree.

BURNS LODGE NO. 97, A. F. A. M.,
Meets every first and third Saturday in each month. J. L. Gault, W. M.
Sam Mothershead Secretary

MODERN WOODMEN OF AMERICA
Meets every second and fourth Friday evening at I. O. O. F. Hall; all neighbors invited. New applicants will receive courteous treatment. M. A. Biggs, V. C.
W. T. Lester, Clerk.

BURNS CHAPTER NO. 40, O. E. S.
Meets every second and fourth Mondays in Masonic Hall. Frankie Welcome, W. M.
Ella Swerk, Secretary.

SYLVIA REBEKAH DEGREE No. 4.
Meets every 1st and 3d Wednesday
Byrdie Dalbo, N. G.
Madge Leonard, Rec. Sec'y.

TULE CIRCLE No. 165, W. of W.
Meets every fourth Thursday.
Maud Horton, C. M.
Hester Goodman, Clerk.

OFFICIAL DIRECTORY

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Congressmen	W. R. Ellis / J. W. Hawley
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Secretary of state	F. W. Benson
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District Judge	Dalton Biggs
District Attorney	W. H. Brooke
Deputy Dist. Atty	C. H. Leonard

Circuit Court meets the first Monday in April and first Monday in October.

Joint Senator	C. W. Parrish
Joint Representative	W. F. Homan

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County Judge	Grant Thompson
Clerk	R. T. Hughet
Treasurer	R. A. Miller
Surveyor	C. E. Beery
Sheriff	A. K. Richardson
Assessor	J. J. Donegan
School Superintendent	I. M. Hamilton
Coroner	G. W. Clevenger
Stock Inspector	John Robinson
Commissioners	E. P. Sylvester / Thos. Balu

County Court meets the first Wednesday in January, March, May, July, September and November.

HARNEY U. S. LAND OFFICE:

Register	Wm. Farre
Receiver	Frank Davey

CITY.—BURNS

Mayor	Sam Mothershead
Recorder	A. M. Byrd
Treasurer	Maude Winters
Marshal	R. L. Haines
Councilmen	H. J. Hansen / A. C. Welcome / James Lampshire / R. J. McKinnon

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$1500 Reward!

The Oregon, California and Nevada Live Stock Protection Association of which the undersigned is member, will give $1,000.00 reward for evidence leading to the arrest and conviction of any party or parties stealing horses, cattle or mules belonging to any of its members.

In addition to the above, the undersigned offers the same condition $500.00 for all horses branded horse-shoe bar on both or either jaw. Brand recorded in eight counties. Range Harney, Lake and Crook counties. Horses vented when sold.

None but grown horses sold and only in large bunches.

W. W. BROWN Fife, Oregon.

NOTICE FOR PUBLICATION

UNITED STATES LAND OFFICE, Burns, Oregon November 19, 1913.

Notice is hereby given that Ida M. Albertson, of Venator, Oregon, who, on Oct 4, 1911, made Desert-Land Entry, No 05646, for SE¼NW¼, NE¼SW¼, S½SW¼ and N½SE¼, Section 4, Township 26 S., Range 26 E., Willamette Meridian, has filed notice of intention to make final proof, to establish claim to the land above described, before Register and Receiver, at Burns, Oregon, on the 29th day of December, 1913.

Claimant names as witnesses:

A. E. Brown, of Cord, Oregon. J. C. Duncan of Waverly, Oregon. A. A. Tipton, of Venator, Oregon. T. M. Fitchett, of Harriman, Oregon.

WM. FARRE, Register.

Sumpter Valley Railway Co.

Arrival and Departure Of Trains

Departs	No. 2,	Prairie	10:15 A. M.
		Sumpter	2:35 P. M.
Arrives		Baker	4:00 P. M.
Departs	No. 1,	Baker	8:30 A. M.
		Sumpter	10:05 A. M.
Arrives		Prairie	2:10 P. M.

No. 1 Makes good connection with O.-W. R. & N. No. 10 leaving Portland 6:40 P. M. and No. 17 from east arriving Baker 6:50 A. M.

No 2 Connects with La Grande local 7:30 to La Grande, and No. 9 (fast Mail) picks up sleeper there arriving in Portland 7:00 A. M. Also with No. 18 for points East.

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Home Address Burns, Ore

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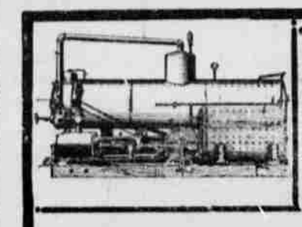

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