THE OMAHA DAILY BEE: SUNDAY, FEBRUARY 11, 1900,

LOT OLD TIMES AT SIDNEY RE-

OUTFITTING POINT FOR THE BLACK HILLS

Swar of a Robber Gaug. Their Looi-

Were Persnaded to Hustle

Out of Town.

The present settlers in the counties of

vestern and northwestern Nobraska, in their

happy and prosperous homes among the pine-

ing Operations and How They

HEAT INSIDE OUR PLANET state of ignoous fluidity; that the mass was effect arising from the laying down of Center of the Earth a Furnace of Tremen" dous Heating Power.

DOES NOT BLOW

UP

What Would Happen Were it Brought to the Surface-An Eminent Geologist Discusses the Question.

See. Build

IT

WHY

Copyright, 1800, by N. S. Shuler.) Physical science has undoubtedly attained primary concepts of the atomic hypothesis. areas many thousand square miles in ex-The rate of advance in scientific knowledge tent. has been more uniform also in the last hunhave moved forward in touch with one an- fissures in a way that shows that they were other. Nearly every branch of science has originally fluid. The hypothesis of internal this interaction of learning-a marked century to be tolerably well approved; it feature of our age-we may in large meas- was indeed assumed by most writers and won. To it we clearly owe the singularly tises. Steadily, however, within the last half rapid gain which has been made in all that century the contributions from other relates to the explanation of the earth. branches of science have served to bring this Geological science is not a distinct branch view into doubt. First it was noted that any of learning, as is chemistry or astronomy, melted rock shrinks in general to the It is a body of varied knowledge, drawn amount of about 15 per cent of its bulk in from the stores of all the others and so com- solidifying, and in consequence of this tends bined as to render an account of what has to sink as it freezes. This tendency to set-

gone on in and upon this sphere. the down into an interior fluid would make The conditions under which the group of it possible for the crust of a generally fluid sciences termed geology has developed have earth to attain a greater thickness than set certain important limits to its successes. about half a mlie before it would be dragged A hundred years ago the pioneers had just down by gravitation. As we know that the fairly begun to interpret the tangle of rocks earth is solid for at least twenty miles which make up the so-called crust of the downward, and probably is in that state for earth and to speculate as to the meaning of several times that depth, the idea of a thin the evidence concerning the condition of its crust lying as a layer on a liquid interior interior. From the point of view of scien- was shaken. tific inquiry these speculations had advanced | The next attack on the notion of internal

but little beyond the position to which they fuldity came from the astronomers. It had ical, had been brought by electricity a century long been known that the gravitative atbefore. The real advance in the science traction of the moon on the equatorial bulgwas attained in the main by close study of ing of the earth, or, rather, the difference the structure and attitude of the rocks, to- in this pull on the parts of that mass near gether with the organic remains which these to and away from our satellite, caused the laid down in water so often contain. In this polar axis to be constantly changing its way the division of the past history of the position. The geological bearing of the earth into ages, epochs or periods, a task movement is found in the fact that, if the tall office building in this city, relates the begun in earlier times, has been carried eo earth were fluid except for its crust, the Chicago Chronicle, a cheerful little woman to the way in which the record is divided altered by the attraction, but the sphere hours of the day, busy with book or pen, into chapters and sections, and a general, would change shape in the manner of a with client or with copy. though still very incomplete, knowledge of tide, as the waters do under a similar imthe order of events on those parts of the pulse. crust which have been lifted above the level and the results not accepted by all students. has a slight girlish figure, a sunshiny face, of the sea. This store of facts enables us it seems from this argument most likely all intelligence and animation, with a fairly to interpret so much of the history of the earth as is written in stratified rocks of its rocks. that have at no time in their history been In face of the evidence as to the difficuiburied to a greater depth than from twenty to thirty miles below the surface.

Deepest Depths Hard to Study. While the facts revealed in the newer culties in this work which increase in rapid has to modify their conceptions of solids professions of author and lawyer. She bemeasure as they concern beds that have and fluids so as to clear away certain mis- gan to be an author before she turned her ered by others subsequently laid down, they phrase "hard as a rock" expresses a high she quickly carried to a successful issue. subjected to a number of physical and when judged by ordinary conditions such as World and Other Poems," containing twenchemical actions, concerning which we can we are accustomed to: yet, when deeply ty seven different selections, was Miss Fear-

long kept at about the same temperature by strata in water, process of boiling. When the sphere ns- Such deposits act as a blanket, serving to med its present state of approximate so- hold in the rocks the heat that is continu lidity its further cooling would have led to ally sceking to escape into the cold outer the chilling of the outer part, while the cene space of the heavens. The result is that if tral portion remained at near its original twenty miles of beds are laid down on any heat. A little reflection will show that, unpart of the earth (and we know of like der these conditions, we should have a rapid thicknesses having been formed) the lower increase of temperature for perhaps a few layers and the crystalline rocks on which

core miles downward, while below a cerain level the increase of heat would be at a steadily diminishing rate-the greater part of the internal mass being at a rather uniorm heat.

explode. If a crack, such as a fault in the When the understanding of the evidence overlying rocks, gives a chance of escape, derived from volcanoes had advanced bewhat we term a volcano, i. e., an outbreak youd the primitive notion that they were of very hot steam driving out molten rock. due to some kind of subterranean combustion, such as takes place in hurning cost will be formed. more than half its total development within beds, geologists adopted the view that they the nineteenih century, though it is true proved the interior to be in a fluid state. among the most difficult that science has to that the scientific gains of the century do substantially like molten glass or iron. It face. not include such splendid achievements as did not seem possible otherwise to account some application of the "Rontgen ray" apthe Newton theory of gravitation, the Co- for the outpouring of lavas in such quantipurates, so that we may be able to examine pernican account of the solar system, or the ties that they have covered to great depths the internal conditions of the sphere as we

may the looser bodies it bears, it will ever remain a field for speculation. Yet it is mens of Sidney, the county seat of Chevenne Further proof to the same effect seemed casily seen that the inquirers of our time dred years than in the earlier centuries to be afforded by the fact that wherever we have managed to apply criticism to their The discoveries in each field have served as have access to crystalline rocks, such as views in a way unknown to their predenever before to help on inquiries in adjacent granice, which have been brought into con- cessors; so that, while very much remains fields, with the result that the explorers tact with other deposits, they have entered to be proved, their opinions have been so and what was called in western parience a limited by criticism and so adjusted by criteria that they evidently leave us relabelped and been helped by the others. To fluidity appeared at the beginning of this tively near the truth. In fact, the modern freighting point from which all freights were system of inquiry makes the intellect of transferred from the railroad to be laden in man an apparatus for sending light through wagons for all points in the Black Hills ure attribute the surpassing advance it has was made the basis of many learned trea- dark places. It has not yet illuminated the country. earth's interior, but it has revealed to us more than was learned in all the earlier N. S. SHALER. centuries.

> Prof. Nathaniel Southgate Shaler occupies. the chair of geology at Harvard university and is therefore as thoroughly competent as any living authority to discuss the probable makeup of the inner earth. Prof. horse and cattle thieves and border rufflans Shaler is a Kentuckian by birth and was generally. These, together with a large the director of the Kentucky geological survey in 1873-80, inclusive, devoting part of every year to the work, and since 1884 has been the geologist in charge of the Atlantic division of the United States geological survey. Thus it will be seen that his knowledge of the "group of sciences men call geology" is practical as well as theoret-

they lie may come to have a temperature of

2,000 degrees Fahrenheit or more. In this

state of heat the water, which is built into

the rocks as they are laid down, will tend to

The problem of the earth's interior is

Unloss the physicists invent for us

Prof. Shaler has written extensively both on his favorite subject and general topics.

AUTHOR AND LAWYER IS SHE. A Cheery Blind Chicago Woman's

Books and Profession. High up on one of the airy stories of a

serance were of frequent occurrence. Em igrants enroute over the railroad acroze the continent were almost daily robbed by three-gard monte men and others with far that we now have a fairly clear idea as position of the polar axis would not be sits or moves about through the working various gambling devices and were at times beld up and robbed in open daylight without any ceremony whatever.

Ironciad Coaches.

The busy little woman is Miss Blanche Fearing, the author and the lawyer. She The Black Hills Stage company was compelled to put on its line an ironciad stagecoach, in which to transport the gold bul that the earth is as rigid as the most solid peaceful expression around the mobils lion from the mines at Deadwood. This mouth which looks as if its owner had ceach, besides being armored, carried six known the value of suffering, the rest stalwart messengers or guards fully armed which follows the conquest of pain. For with shotguns, rifles and six-shooters. In ies of reconciling the great heat of the the eyes behind the large dark glasses are the summer of 1880 this armored coach interior, and the ejection of lavas, with the closed and sightless and the woman with rolled into Sidney on its regular semievidence that shows that it cannot be fluid, the cheery face knows the brightness of monthly trip, on schedule time, with its stratified rocks-those which commonly lie geologists of this century have had to re- the world only through the thought and valuable freight, consisting of some \$120,000 in a little changed form near the surface- view many opinions which they inherited feeling of a highly sensitized organism. in gold bullion. On its arrival at Sidney are easy to be interpreted, there are diffi- from the last. To begin with, they have Miss Fearing is a dual success in her dual no time was lost in transferring the preview many opinions which they inherited feeling of a highly sensitized organism. in gold bullion. On its arrival at Sidney cious metal over to the Pacific Express company. The express agent at Sidney, been deeply buried. The reason for this is conceptions due to our experience with ma- attention to the pursuit and knowledge of ofter receipting for the bullion, left the that, in proportion as the strata are cov- terials on the surface of the earth. The the legal trade and what she once began office for a few moments and when he returned was greatly surprised to find the are brought into a region where they are order of rigidity or resistance to strain. A little volume entitled "The Sleeping it had disappeared through a hole in the floor of the office, which had been made by parties with an auger from the basement know nothing by direct observation-we can buried and subjected to the vast stresses ing's first published book. The poems cov- of the office. This basement was at the not submit this sphere to dissection. The which are due to the contraction of the ered a wide range in choice of subject and time being used as a coal cellar. The alarm deepest mining work penetrates only about mars, from the constant loss of the internal in the use and selection of poetic meter, of course was at once given and the writer. one four-thousandth of the way to the heat, rocks creep in the direction of least vilie the diversity of their thought showed with several others, limited and the pressure, like wax. They twist and fold, as do sheets of wet paper; they behave in a mind and the apt versatility of their sunny- and made the run. 100 miles, in something The volume met with most less than two hours Fortunately for th flattering reception from press and critics. express company most of this buillon con-It was shortly after the publication and sisted of large gold bricks and consequently success of her first volume of poetry that was entirely too heavy for the thieves to occurred at about 1 o'clock in the daytime ment of the express office. All of the bul lion was recovered, excepting one brick, valued at \$14,000, which eventually found its way into the Denver mint and was of culine companions. Her appearance in the course a total loss to the company,



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below the sea level.

The first and in some ways the most imafforded by hot springs and volcances, is so the most rigid substance that has been con- for legal practice. She entered Union colmonly held by all the early geologic indepths: trated with shafts and borings, the increase center, is still hot in a measure not apis at an average rate of one degree Fahren- proached in any furnace, or even in the helt approximately for each fifty feet of electric are. That this heat does not resolve

The Earth Not Fluid Inside. But there are various reasons why this intense heat cannot really exist. How, then, can we account for the error? It may be explained by what we may observe or compute as taking place in any cooling body. It is a perfectly warrantable supposition that the earth, at a remote period, was in a this fluid air to the weight of a hundred

"I have long thought it my duty to write you a few lines to let you know what Dr. Pierce's Favorite Prescription has done for me " writes Mrs. Euphemia Falconer, of Trent, Muskegon Co., Mich. I am twenty-seven pears old; have beev married ten verars. I am the mother of four children. My first two babies were still-born, and I suf-fered everything but death. My friends all thought I could never recover. I

was reduced When I was three third was taken with hemorrhage or flooding and from female

arin s two mouths I was under the care of our doctor, but was getting weaker all the time until one day I sent and got three bottles of 'Favorite Prescription' and one bottle of 'Dellets' I imhay I sent and got firre outlies of Pavorale Prescription' and one bottle of Delets. I im-proved so fast, I continued to take your medi-cine until baby was born, and he is healthy and all right. He is four years oid. My haby pirl is two years old. My health has been good ever since. I now weigh to pounds and when I be-gin to feel badly I take. Pavorite Prescription' which always helps me. I always tell my neigh-bors what helps me and a good many have taken your' Favorite Prescription' with good results."

your 'Favorite Prescription' with good results." The "Favorite Prescription" has cured more women than all other medicines for women combined. It is the only prepara-tion of its sort devised by a regularly grad-uated physician-a skilled and experienced specialist in the diseases of women. Other medicines are sometimes sold on the plea that they are "just as good as the 'Favorite Prescription." Don't believe it. Don't be imposed upon. Counterfeits are never as good as the genuine.

Don't be imposed upon Counterents are never as good as the genuine Over 250,000 women have endorsed "Fa-vorite Prescription." They say there is nothing "just as good" and they know Would you rather have the sayso of one dealer who makes an extra profit on the substitute, than the propuble words of 250,000 women whose only object in recommending the Favorite Prescription their desire to help their suffering sisters?

or two score miles. the not accustomed to as- bearted writer. sociate with solidity. We may see how inadequate are the comportant point that our century has made mon views as to the strength of materials as to the depths of this sphere consists in a by observing what takes place when an Miss Fearing decided to add the lawyer's get away with, especially as the robbery determination of the heat of its interior ermor-piercing shot strikes a thick plate of laurels to her author's chaplet. She left and the origin thereof. The evidence of a steel, such as is used to protect the vital lows for Chicago, and immediately entered and hence the robbers attempted to conceal high temperature in the depths of the earth, parts of a battleship. The shield is made of upor a course of instruction in preparation their plunder in among the coal in the base-

While the problem is complicated

Geologists' Views Reviewed.

clear that the Greeks appear to have noted trived. Its resistance is far greater than loge as a student of law and her skill in its meaning and to have conjectured the ex- that of any rock. Yet, when struck by the acquiring the rudiments of knowledge istence of some kind of a central fire, burn- projectile, it yields and is pushed aside as quickly astonished and dismayed her masing after the manner of a furnace. This earth by the plowshare. It may splash, as view, indeed, appears to have been com- mud when a pebble is thrown upon it. The facts above set forth, as well as other quirers who considered the facts. So, too, It considerations which it is not necessary to has long been known that there was in some present, have led those geologists of our bold their breaths when Miss Blanche Feur- to the good people of Sidney, as the sequet mines a distinct increase in heat to be noted time who are concerned with the difficult ing arises to speak or to answer a question, will readily prove. These robbers, som in any considerable descent. The main gain probleme of the earth's interior to look upon A law point which she thoroughly under- twelve or fifteen in number, having been in this inquiry has consisted of a determina- that realm in a different way from their pretion as to the rate of increase and the source decessors of a hundred years ago. It is now Many careful observations, dis- the depths, though not as great as it would

stands she never forgets, and a student of the school said that since she entered the erable portion of of this high temperature which exists in the generally believed that the temperature in law class in September she has accom- thoroughly succeeded in overawing the tributed over all the continents, show us be if the rate of increase in heat which we of answering correctly every question put and more hold and deflant, until at last the that for all the distance we have pene- observe in mines continued downward to the to her. She is said to possess a power of good citizens of Sidney determined to call a arvelous future.

college

depth. At this rate the temperature at the the matter into vapor, as it would like ma- school with the prize for scholarship, and their request without any hesitation whatcenter would attain to about 400,000 degrees, terials on the surface, or even bring it to the fluid state, is explained by the action of fersion. Shorily after beginning to pray- choosing or the designating of a suitable the pressure to which it is subjected.

class was thus described by a visitor to the

We know that pressure tends to consoli date all substances. Even the relatively book was highly praised by reviewers and special session and in less than two hours criffing amount of it that we can apply by our arts will liquely air. If we could expose philesophy. Frances Willard said:

miles of overlying rock we may fairly pre- touching with unswerving directness and an ex-sheriff of the county, were securely sume that its particles would be so driven together that it would become in a manner solid. It is true that the heat of the depths ers of the day."

would tend to keep it from attaining solidity; but we may well believe that inc had are lines in the volume that any of our hanged to a coltonwood near the court house. ould be even more effective in bringing in nto that state. It seems likely, in a word, that the effect of that internal pressure, due isis might be glad to claim. I am mis- with McDonald were ordered to leave Sid to the weight of the overlying matter, in inducing what we term solidity, is greater than the offect of the heat in bringing mat- and pens of your countrymen as the fullest injunction, on their part, has been faith ter into the fluid condition.

We may bring the points above noted into a clear view if we consider what we would find if we would critically examine the cubic foot of matter which lies in the very content of the earth. It is pretty certain that we In it she makes use of her legal experience. gang. should find it hotter than anything has been describing the workings of the judicial maon the surface for some hundred million hinery with the accurate knowledge of the ears: hotter than anything we see, exceptechnical professional. In 1895 the little may be the surface of the sun and other athor returned again to poetry, and her fixed stars. ook of "The Island Lily" relates an idyl of

We would doubtless find that the stoms the ides of Shoales-another success to add r molecules of the mass were driven nearch a the already comprehensive list of sucogether than, the like units of surface acses of the sunny-faced and sunny-hearted materials, and that it was more rigid than woman lawyer. glars; yet, under the straigh such as have flexed and tangled the rocks in mountain W. S. Philpot, Albany, Ga., says: "De-

folds, this bit of the contral earth would Witt's Little Early Risers did me more good than any pills I ever took." The famove readily; as all the deep parts evidently lo under like strains. mous little pills for constipation, billous-If we could complete this imaginary ness and liver and bewel troubles.

abservation by bringing the central bit of the planet to the surface, keeping it, during the 4,000 miles of journey, in unchange. conditions of heat and pressure until it was in the air, and then suddenly release aunt her betrothed a cake of aer own making. he being at that time in the buildhead row o its bonds, it would explode after the minuter the firing line. of fired gunpowder

* About Volcanors.

There is the evident question as in the relation of volcances to the heated interior

With the introspectiveness of woman she This is still much debated, the carth. at once began to wonder whether he wore it in colution is inclining to the conclusion for sentiment or protection. that volcanoes are really superficial is origin; that they have their source in th utor 10% miles or so of the crust, and not, as was believed at the beginning of th

century, in the central region. The fact that they are limited while active to the floor of the occans and greater seas and to the lands within a few hundred miles of the seashores, indicates that they are not of very deep-seated origin. The most remarks ble explanation is that they are due to the

Rout of the Robbers. The loss to the express company on this

"The students of the college of law simply ccasion proved to be a blessing in disguise successful in getting away with a considtheir plunder and plished the amazing and unprecedented feat sheriff and his deputies, they became mora expression and eloquence that promises a halt. They met in consultation and agreed

that the then sheriff of Cheyenne county Miss Fearing graduated from the law must resign and that official complied with immediately began the practice of her pro- ever. The next move by the citizens was the ice she published a volume called "In the person to fill the vacancy. This being read Pressure That Would Solidify Air. Chy by the Lake." two narratives in blank fly done to the entire satisfaction of all verse of life and scenery in Chicago. The concerned the county board was called in MARIANI WINE- WORLD FAMCUS TONIC

> numbers of the literary fraternity. Of its after this appointment of sheriff was made the robbers then infesting Sidney, consist "The book is replete with profound truths, ing of some twelve or fifteen, among them inherent delicacy upon some of the gravest locked within the walls of the county jail. social questions that are before the think. On the second night after the arrest of these parties one of their number, Joe McDanaid

> Octave Thane; thus described it: "There was taken from Jail by masked men an peets might be glad to have written, and Since this time Sidney has been quiet and Magia is a heroine that any of our novel- law ablding. The others who were in jai sken if the lines before the title shall not ney by twos, that is, two each day, with the ime to be more and more on the tongues injunction never again to return, and this and truest description in brief of Chicago." fully kept. Just why McDonald should have

Miss Fraring's third literary venture for been singled out from among the others ublication was a socialistic novel called and made an example of is not known. I 'Roberta," dealing with the evils of the so- was said at the time by many that he was tal system of existence here in Chicago. less culpable than any of the others of the JAMES L. SMITH.

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テスンドメバモインマンズへいくことアイベンガベンズ(インズ・アンズンズンズンズ For Modest Women.___ Spaulding, Neb., Jan. 10, 1899. When I first heard of your medicine, I did not think it could do as much for anyone as it has done

for me. Since taking it I have not suffered near so much pain at the monthly period as I used to and when my child was born I was not bad at all. I thank you very much for the medicine. Mrs. L. SEAMANN.

When baby is sick, the whole household is stirred up over it. Neighbors quickly come with tenders of help. The doctors come and go and come again. Next day baby is well.

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Left Unsolved.

In course of time she received a letter.

am wearing it over my heart."

"I have not eaten your gift," she read. "I

Indianapolis Press: A loving woman once