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We Have in Stock Everything that a Well Regulated Drug Store Should Have. We highly appreciate the patronage of the public in the past and trust by the same courteous treatment and having what the public wants that we will merit this same patronage in the coming New Year of 1909. ❖ ❖ ❖ ❖ ❖

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GOVERNMENT GEOLOGISTS

IN NEW MEXICO LAND
About two years ago all the public land in New Mexico supposed to contain coal was withdrawn from entry by the President, pending an investigation and classification now being carried on by the United States Geological Survey. A part of the duty of the federal geologists is to determine whether it is coal land or non-coal land. In the performance of this duty the geologist examines many tracts owned by individuals. He is in no sense a prospector and is not, in fact, concerned about the ownership of the land, nor does he care whether the title is clear or clouded. In actual practice he seldom knows who owns a particular plot of ground. His business is to determine the geological conditions of the area under survey and to make public the results of his work without reference to the use that may be made of his conclusions.

Areas Examined.
During the last summer a party of geologists from the Survey has been

at work investigating the valuable mineral deposits in the vicinity of Raton. An area 15 miles wide, extending from Johnsons Mesa westward to the mountains, has been examined for coal deposits, and the work will later be extended over the remaining part of this coal field.

Maps Prepared.
As a preliminary to the making of a geologic map showing the location and extent of the coal beds and the depths at which they lie beneath the surface, the Survey is making a topographic base map of the area near Raton, where the exploitation of the coal by the mines has been the greatest. Another map, showing the area extent of the coal-bearing formation, is also being prepared, covering the area between Raton and the Rocky Mountains.

Quality of the Coal.
The coal beds have been studied geologically in order to ascertain the quantity of coal available, and chemical analyses of samples, that have been collected will show its character and quality. It can be stated, how-

ever, that most, if not all, the coal of this field, is high grade bituminous and of coking quality.

Geologists Assigned to the Work.
The geological field work in the Raton region has been in charge of Willis T. Lee, who has been assisted by Charles S. Blair and Albert L. Beekly. On his return to Washington, where he will spend the winter preparing his report, Mr. Lee made for publication a brief statement in regard to the area under investigation, the substance of which is given below.

Geology of the Field.
The field work done shows that the oldest geologic formation exposed at the surface near Raton is the dark-colored rock on which the town is built, a formation known to geologists as the Pierre shale. The dark color of this shale has led some people to search for coal in it, but it contains no coal, though there are local indications that it may contain oil. Above the Pierre shale is a white, cliff-making sandstone, the rock seen in the cliff at Goat Hill, Raton. This is known as the Trinidad sandstone, and the in some places it includes layers of carbonaceous shale with thin beds of coal. It is not to be regarded as a coal-bearing formation. To the coal prospector, however, it is of the greatest value as a reference horizon, as it immediately underlies the real coal-bearing formation throughout the Raton field. Its white color and the characteristic markings locally known as petrified corncobs make it easily recognized. The corncobs are supposed to be impressions of seaweeds.

Coal-Bearing Rocks.
Above the Trinidad sandstone is a coal-bearing formation, which varies considerably in thickness in different parts of the field. Near the mountains

it is 150 to 250 feet thick and includes several beds of coal. In the vicinity of Raton it may be 20 to 50 feet thick in some places and contains the Raton coal—the most important coal bed in the field; in other places, however, it has been eroded away, allowing the younger geologic formations to rest upon the Trinidad sandstone. In other words, after the sediments that contain the Raton coal were deposited they were exposed to erosion and in some places were entirely removed. This may be seen near the Van Hooken mine, where conglomerate rests directly upon 25 feet of coal, while a quarter of a mile to the south this conglomerate rests directly upon the Trinidad sandstone. The recognition of this interval of erosion is of great importance to the coal miner, for it explains why the coal is absent in certain places where it might naturally be expected to occur.

In many places along the outcrop of the coal-bearing formation is a deposit of conglomerate sandstone or "pudding stone" that varies in thickness from a few feet to several hundred feet. The lower part of this conglomerate, including pebbles 5 inches in diameter, grades upward into finer material and finally to shales and sandstones that contain beds of coal scarcely less valuable than the lower or Raton coal.

Coal Changed to Coke and Graphite.
During some period of volcanic activity after the coal beds had been formed igneous rock was intruded into the beds. In some places this took the form of dikes, such as the "stone wall" at Raton; in other places it formed intrusive sheets thrust in between the beds. Where a comparatively small amount of this melted rock came in contact with the coal

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J. A. Cottingham, Mgr.

no shall have been equipped, the last named station being regarded as of the first military importance and as a natural strategic base.

It is deemed highly desirable to acquire by purchase or to construct a dock in San Francisco Harbor. With the acquisition of such a dock, and the bringing up to high efficiency of the yards at Bremerton and Mare Island, another navy yard on the Pacific coast will not be necessary for some time to come.

The Navy Department being a large business organization, Mr. Metcalf suggests rearrangements of the duties of any bureau are exceedingly difficult and complex, and necessarily rests with Congress; but those who speak of the millions unnecessary spent annually by the lack of economical administration do not realize that a comparatively small percentage of the annual budget goes for repair and maintenance of the materiel of the fleet. The greater part is expended for the pay and provisioning of the Navy and Marine Corps, ammunition, fuel, and expenditures on account of increase of the Navy. So far as the last named item, the department has long been an exceedingly economical purchaser, the contract price of our latest battleships being hardly more than the act-



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Batcher Shops. U. S. MEAT MARKET.—Keeps nothing but the best. Quality our motto.	Hardware Stores. ROSWELL HARDWARE CO.—Wholesale and retail hardware, pipe, pumps, gasoline engines, fencing, etc. INDEPENDENT HARDWARE CO.—Wholesale and retail everything in hardware, tinware, water supply goods, buggies, wagons, implements and plumbing.	Ready-to-wear Apparel. THE MORRISON BROS. STORE.—Outfitters in ready to wear apparel for men, women and children. Millinery a specialty. House Furnishers. Hills & Dunn.—Furniture, stoves, ranges, matting, quilts; Everything you need to fit up your house. New and second-hand. 100 N. Main. Phone 69.
Billiard-Pool Halls. Bowling, Box Ball, Billiards, Pool.—Entire equipment regulation. Private bowling and box ball room for ladies.—Geo. B. Jewett, Prop.	Contracting & Engineering HIRE & MÜSSELDEN.—117 W. 2d St., phone 164. Land surveying and mapping, concrete foundations, sidewalks, earth-work and general contracting.	Tailors. F. A. MUELLER.—Merchant tailor. All work guaranteed. Also does cleaning and pressing. In rear of The Wigwag Cigar Store.
Department Stores. JAFFA, PRAGER & CO.—Dry goods, clothing, groceries and ranch supplies. JOYCE-FRUIT CO.—Dry Goods, Clothing, Groceries, etc. The largest supply house in the Southwest. Wholesale and Retail.	Drug Stores. ROSWELL DRUG & JEWELRY CO.—Oldest drug store in Roswell. All things up-to-date.	Undertakers. DILLEY & SON.—Undertakers. Private ambulance, prompt service. JELLEY FURNITURE CO.—Undertakers. Phone No. 75 or No. 111.
Dye Works. K. C. DYE WORKS.—Alterations and repairs. Cleaning and pressing.—J. H. Angell, phone 517. 123 W. 2d.	Furniture Stores. DILLEY FURNITURE CO.—The swellest line of furniture in Roswell. High quantities and low prices.	Jewelry Stores. HARRY MORRISON.—The leading and exclusive jeweler. Watches, diamonds, jewelry, rich cut glass and hand painted China, Sterling and plated silverware. L. B. BOELLNER.—Roswell's best jeweler. A full line cut glass, hand painted China, diamonds, etc.
	Lumber Yards. PECOS VALLEY LUMBER CO.—Lumber, shingles, doors, lime, cement, paints, varnish and glass. ROSWELL LUMBER CO.—Oldest lumber yard in Roswell. See us for all kinds of building materials and paint. KEMP LUMBER CO.—See us for Standard Apple Boxes.	Advertising. The successful Business Man is an Advertising Man. Let the people know what you have to sell.

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ual cost of labor and material and incidental expenses, and very considerably below the limit fixed by Congress. The Secretary says also that it would be difficult to find in any large manufacturing establishment, or other industrial organization, greater coordination than exists among the heads of the great bureaus and offices of the Navy Department.
Legal blanks at Record Office.

Three Good Resolutions For 1909

BE IT RESOLVED,
THAT IN THE COMING YEAR OF 1909, I WILL
COOK WITH GAS
USE CRYSTAL ICE
AND
Burn Rockvale Lump Coal

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"SWEET, THE COAL MAN"

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it changed the coal to coke, but where a large amount was injected the greater heat transformed the coal into graphite. This transformation was effected over an area of several hundred acres in Red River Valley.

RECORD, GALLEY SEVEN.
As the officer in command of the American fleet now in the Far East holds the rank of rear-admiral only, he is in a position of subordination to foreign naval officers. This is true because foreign powers have, on important naval stations, representatives of the rank of vice-admiral.

The Secretary urges that the navy should, without delay, be provided with two vice admirals.

It is desirable, the Secretary states, to lengthen the dry dock authorized by Congress to be constructed at Pearl Harbor, Hawaii, from 250 to 3,150 feet, to render it capable of accommodating two or more vessels at once.

Secretary Metcalf recommends that the navy be authorized to purchase, in the open market, at New York, Philadelphia, Boston, and other ports, and have them delivered to their full capacity for the year and maintenance of ships that are not now under construction, and that the navy be authorized to purchase, in the open market, at New York, Philadelphia, Boston, and other ports, and have them delivered to their full capacity for the year and maintenance of ships that are not now under construction, and that the navy be authorized to purchase, in the open market, at New York, Philadelphia, Boston, and other ports, and have them delivered to their full capacity for the year and maintenance of ships that are not now under construction.