EXTENSIVE BEDS OF

11/25/26 list 50 However, Geologists Find Product Is of Little Commercial Value.

The "phosphate horizon" of Arkansas is indicated by the dark crooked lines n the accompanying map, It is about 420 miles long and extends across the north central part

extends across the north central part of the state.

Well, what of it?

The average layman never heard of such a thing as a "phosphate harizon," nor ever suspected the state of having one. The term is used by by George C. Branner, state geologist, to describe the region which indicates, by its geological formation, that it contains beds of phosphate rock.

rock.

Phosphate rock is the backbone of fertilizer; fertilizer is the mainstay of agriculture, and agriculture is the principal industry of Arkansas. Wherefore, Mr. Branner thinks the "phosphate horizon" of the state is of potential economic importance and should be of interest to farmers and fertilizer manufacturers, at least.

Few farmers know anything about chemistry, botany and allied sciences, but they do know that their land becomes "poor" and needs to be enriched with certain elements that feed the crops and make them grow.

Principal Plant Foods.

The three principal plant foods are potassium, phosphorus and nitrogen, and crops can no more live without

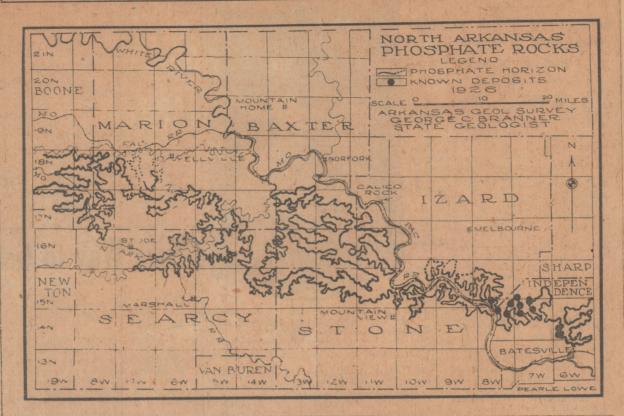
made to develop the known deposits, any time soon. In 1900 the Arkansas Fertilizer Com-Only On made to develop the known deposits. In 1900 the Arkansas Fertilizer Company established an acidulating plant near the beds at the mouth of Lafferty creek, in the western part of Independence county. After a few months the plant was destroyed by fire and it was decided to erect a new plant at Little Rock and ship the crude phosphate from the mines. The new plant was completed in 1906 but no rock has been shipped from any part of Arkansas and no other company ever has attempted to develop the deposits.

Why?

Two Reasons Advanced.

There are at least two reasons. One is advanced by chemists, who always haye the final word in problems of

Geologist's Map Showing Location of Huge Beds Of Phosphate in North Central Arkansas Counties



Only One Survey Made,

The stronger Priors.

The stronger Priors.

The stronger phosphorus and infrogen, and evone an no more live without them than them returned to the synthesis of these plant foods, but successful the priors of these plant foods, but successful. Therefore the fertilizer industry of these plant foods, but successful. Therefore the fertilizer industry of these plant foods, but successful. Therefore the fertilizer industry of these plant foods, but successful. Therefore the fertilizer used in dark many foods to the foods of t

sils found in the phosphate beds indicate that this was once a sea bed.

perhaps 40 feet in height. At its base and extending half way up the bluff is a deposit which appears like soft petrified fish. Break off a piece of it and it smells like a freshly opened can of sardines. It is oily.

Mr. Rumley discovered this deposit many years ago. He says that once he had some of it analyzed and that it is almost pure phosphate, such as is used in fertilizer. It has been his hope for years that some fertilizer company would come and exploit his bluff, and bring him a competence in his old age. Now his dream may be realized. may be realized.

may be realized.

L. A. Watkins, vice president of the M. & A. railway, who was born and reared in these hills, has become interested in the task of searching out further their resources and developing them, not only to bring prosperity to his railroad but to his neighbors. He has become interested in Henry Rumley's bluff of petrified marine life and he made a trip to inspect it.

As soon as Mr. Watkins arrived at the bluff rain began to fall and continued all day. Explorations were difficult, but Mr. Watkins said that the upper portions of the bluff would yield as fine an agricultural lime as he had ever seen.

He took many samples away with him for assaying and will return shortly to explore the lower levels. Mr. Watkins states that some other deposits of almost pure phosphate have been found in Searcy county.