Geological Formations 3-150-384 Checked. Pulaski Co. Pulaski county residents knowing of nusual or peculiar geological formation ave been requested by R. C. Beckstrom, tate director of the mineral survey be

tate director of the mineral survey be-ng conducted by the WPA, to report uch features to Carl Burkett, county

uch features to Carl Burkett, county irector, at the courthouse. Unusual formations will be investi-ated to determine location of possible nineral deposits. Name of the property wner, section, township and range hould be made available to Mr. Bur-ett. The mineral survey includes an nventory, classification, estimated quan-ity and potential economic value of and potential economic value of nown mineral deposits.

Mineral Test Laboratory Planned Gazette Pulaski Co.

Construction of a laboratory for test-ing materials obtained in the statewide mineral survey being conducted under sponsorship of the Arkansas Geological Survey will start within a few weeks, Dr. George C. Branner, state geologist.

said yesterday. It will be located at the west end of the old penitentiary walls in Little Rock, and will be built as a WPA proj-ect sponsored by the Geological Survey. Brick from the "walls" will be utilized

Brick from the "walls" will be utilized in the construction. Plans for the building are being pre-pared by Ross E. Vandruff, assistant director of the mineral inventory proj-ect. It will contain a clay-burning kiln for the testing of clays, an analytical laboratary for the analyzing of lime-stone and other deposits, and facilities for testing well water. There will be a large storeroom for the storing of samples of minerals and building stone located by the Survey. **3,000 Samples Assembled.** Dr. Branner said more than 3,000

Dr. Branner said more than 3,000 samples had been assembled from 32

samples had been assembled from 32 counties by workers on the survey proj-ect, organized last January. R. C. Beckstrom, director of the project, which will include a survey of 52 counties either in part or whole, covering 35,515 square miles, reported last week that 14 per cent or 5,192 square miles of the area had been studied studied.

studied. In the 32 counties surveyed, reports have been made on a total of 3,745 water wells, of which 1,969 or about 53 per cent are "soft" water wells, and 1,-752 are "hard" water wells. Average cost of the survey per square mile, Mr. Beckstrom said, has been about \$15.60.

Mineral Find At Mabelvale Is Soil Boon Democrat 1-8-38

Pulaski County Survey **Reveals Cheap Source** of Fertilizer.

A huge limestone deposit near Ma-belvale estimated at 1,000,000 cubic years ago, and then apparently for-gotten, has been relocated and should be a boon to Pulaski county farmers, Robert C. Beckstrom, state WPA mineral survey supervisor, said yesterday. The "quarry" lies about two and one-half miles west of Mabelvale on Fourche creek, and near highway 70 and is easily accessible. New analyses show it to contain more than 10 per cent calcium carbonate, making it quitable for agricultural purposes, particularly in rendering land usable for alfalfa and the like. "At the present time, Pulaski

land usable for alfalfa and the like. "At the present time, Pulaski farmers are paying \$2.65 a ton for crushed limestone brought in from the northern part of the state, but by using the material found within their own county, considerable money would no doubt be saved on cost of material, with the shipping cost virtually eliminated," Beck-strom said. The WPA mineral survey office at The WPA mineral survey office at 117 North Victory street, Little Rock, will be glad to furnish farm-ers with information as to owner-ship and the like, if requested.

The mineral survey of Pulaski county has brought forth some oth-er interesting facts.

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bolled, when it produces a thick sed-iment. Large Area Inspected. Of the 779 square miles within the bounds of Pulaski county, 337 are to be investigated by the field workers under the direction of Carl C. Burk-ett, county supervisor. This territory includes seven townships, all lying south of the Arkansas river. Up to this time, approximately 200 square miles have been covered by the sur-veying crew. Minerals located thus far in the survey in Pulaski county are lignite, limestone, quartzitic gravel, slate and kaolin clays. One of the first tests made was on

and kaolin clays. One of the first tests made was on the grounds of the Confederate Home near Sweet Home, where lig-nite was found at a depth ranging between 15 and 20 feet, and in thick-ness from 15 to 30 feet. About five miles southeast of Mabelvale, near U. S. highway No. 167, lignite was also located in land owned by Sam

Parker, who states that the stratum is 56 feet thick. Because of the abundance of other fuels in Arkansas, lignite has never been produced commercially, although it is used in small quantities for domestic purposes in some localities.

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