State Produces 90% National Output

Moore County Has State's Richest Deposits Of Mineral, Pyrophyllite

Has Been Mined For 125 Years; Used To

Be Called Soapstone By WADE LUCAS

difficult to spell is said to be the was called talc or soapstone.

In fact, pyrophyllite is mined commercially in only five of the and they are currently producing about 100,000 tons of pyrophillite annually. Its estimated annual value is about \$1,000,000. Moore County's deposits of the mineral are the largest in the state and among the largest in the nation. Only one other State is said to

This state is California. What is pyrophyllite and what

are its principal uses? sources, supplies the answer. It is North Carolina. a non-metallic mineral that bears New Deposits Formed a close resemblance to talc, another North Carolina mineral massive forms.

cate of aluminum, containing theoretically 66.7 percent of silica,

meaning fire, and Phyllite, mean-

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trial mineral with a wire variety geologist. of uses in the ceramic and refrac- In Ancient Rocks

compounds. Mined For 125 Years

mineral with a name somewhat ing the early days of mining it

least known and understood of all the minerals found in the State.

It was not until 1862 that a least known and understood of all the minerals found in the State.

It was not until 1862 that a Geologists say these rocks were formed by a series of long fissure formed by a series of long fissure type volcanos, which existed mil
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is now known. State's 100 counties. These counfor pyrophyllite was found on the blown into the air as fragments night dinner guests of Mr. and weekend guests of Mrs. W. R. ties are Randolph, Moore, Ala- Womble property about one and and dust settling in water which Mrs. M. B. Pleasants in Aber- Clegg. made of the mineral and found tremendous earth movements, in the Glendon area. Some of the possibly associated with the forstones carry dates between 1840 mation of the Blue Ridge and visit Mrs. Arledge. have a sufficient quantity of this and 1845. Geologists believe these mineral to mine it commercially. stones were taken from the Glendon deposits.

re its principal uses?

Dr. J. L. Stuckey, State geoloand one-half miles southwest of and reacted with the rocks, gist and head of the Department Robbins in this county. The Rob- changing them to pyrophyllite of Conservation and Develop- bins mine is now the largest pyment's division of mineral re-rophyllite mining operation in

During the 1930s new deposits were opened near Staley in Ranproduct. Pyrophyllite is a soft, dolph county, and near Snow greasy feeling mineral usually Camp in Alamance county. These white cream or gray in color and mines are the chief sources of occurs as crystals or in somewhat the so-called massive type pyro-Chemically it is a hydrous sili- fractory and ceramic industries.

Within the past several years are being opened for production. Pyrophyllite, which derives its These mines are located at Hillsname from the Greek words Pyr, boro and on Bowlings Mountain, which is about three miles northwest of Stem in Granville coun-known as pyrophyllite.

> lite are located at Robbins, Glen- of this unique mineral. don, Staley and Greensboro. At Within the past few years sevdirectly in the manufacture of the C&D Department's Division refractory products.

Geologists have long been in- these minerals include andalusite, terested in the quite limited oc- topaz, kyanite and diaspore, all of currence of this unique mineral which are high in alumina and

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Tollers can be a paint by stage out could

tory trades, in the filler and paint In North Carolina, Broadhurst 11 o'clock worship service in the Julia, of Whiteville visited Mrs. industries, and in the prepara- said, pyrophyllite deposits are Carthage Presbyterian Church. Worth's mother, Mrs. Alonzo tion of insecticides and other found only in a group of ancient The Rev. W. S. Golden officiated. Blue Wednesday. volcanic rocks. These rocks are Personals known to geologists as the Volnow producing more than 90 per Pyrophyllite has been mined canic-Slate series. This series cent of all the pyrophyllite mined in North Carolina for more than crosses the State in a northeastcommercially in the nation, this 125 years, Dr. Stuckey says. Dur-southwest direction along the course. eastern section of the Piedmont region.

lions of years ago. Many of the One of the first deposits mined rocks were thought to have been one-half miles north of the village supposedly covered much of the deen. of Glendon in Moore County, area at that time. Some of the That pyrophyllite was used for rocks are said to have been caususes were discovered is seen in the formation of these rocks, they Smoky Mountains.

In certain parts of the volcanic rock formations, where shear- music faculty in the Raleigh City Pyrophyllite was discovered ing had been quite intense, hot schools. The process is known as replacement and works in the same way that a tree becomes petrified. In many instances geologists and miners have found the original structures in the volcanic rocks are still preserved in the pyro-

phyllite rocks. Formation of pyrophyllite in these ancient volcanic rocks was phyllite ore, which is used in re- not as simple as might first be imagined. Geologists believe it was accomplished in a series of San Francisco, Calif. Mrs. Weath- Mr. and Mrs. N. A. McLeod visadditional deposits of pyrophyl-stages which in some cases con-28.3 percent of alumina, and 5 lite ore have been discovered and sisted of a replacement of the volcanic rocks by quartz or silica, other members of the minerals family, and the subsequent replacement of these by the mineral

In fact, most of these complex All of the mines are of the stages in the development of pyquarry type except the one at rophyllite in North Carolina, Robbins, which is an under- geologists say, were determined ground operation. Processing by Dr. Stuckey, who made the plants for handling of pyrophyl- first detailed study of the deposits

these plants the ore is mixed or eral important minerals have blended with ores from other been found closely associated mines and ground to very fine with pyrophyllite in some of the sizes before it is shipped to con- deposits. Recently completed sumers. At the Greensboro plant, studies by Broadhurst and R. J however, the ground ore is used Councill, another geoligist with

Mineral Resources, reveal and the rather complex way in highly desirable for the manu-which it is formed, according to facture of refractory products.

CARTHAGE NEWS

By MRS. ALONZO BLUE Infants Baptized

Mr. and Mrs. Neill McKeithen Mr. and Mrs. John Webb are Clegg presented their infant son, staying with Mrs. M. J. McPhail Charles Cox, and Mr. and Mrs. during the tobacco sales. Oscar Leroy Shoenfelt, Jr., of Mrs. S. H. Miller is visiting rel-| ing stone, is an important indus-| Sam Broadhurst, assistant State Shruboak, N. Y., presented their atives in Hickory. son, Oscar Leroy III, for the rite The Rev. and Mrs. Charles W of baptism Sunday morning at the Worth and children, Lucy and

Monday for East Carolina College ington, D. C., where they attend

Miss Traude Sorrell of Ft. they stopped over in Richmond, Bragg was the Sunday guest of Va., and Henderson to visit.

Mrs. Ruth MacLeod and sons,

Shoenfelt and little son, Oscar C., were weekend guests of Mr. tombstones before its industrial ed by ancient lava flows. After Leroy III, of Shruboak, N. Y., are visiting Mrs. Shoenfelt's parents, Lang attended the Democratic the number of old gravestones were badly mashed and folded by Mr. and Mrs. Wilbur H. Currie. rally in Southern Pines Saturday Steve Arledge of Altavista, Va., was here over the weekend to

Miss Ruth Tyson left last week to resume her position with the

Dr. and Mrs. Ernest Larkin of Washington, N. C., spent the weekend with Mr. and Mrs. R. G. Wallace and Mrs. Alice Watson. Mrs. M. J. McPhail returned Sunday from a visit to relatives

in Alabama and Florida. Mrs. Graham Caldwell D. C., with relatives.

Mrs. Curtis M. Muse left Sunday to spend two months with Neill III and Orren, of Greensher son-in-law and daughter, Mr. boro spent Sunday with Mrs. and Mrs. E. T. Weathersbee, in Sadie K. Wall.

ersbee is the former Miss Martha Muse of Carthage.

Mr. and Mrs. Holt McNeill re-Miss Rebecca McDonald left turned Sunday night from Washin Greenville to begin her college ed the Legion Convention and visited relatives. En route home

Mr. and Mrs. Jimmie Clawson Curtis and Charles, were Sunday and children of Jacksonville were

Maj. and Mrs. J. A. Lang, Jr. Mr. and Mrs. Oscar Leroy and children of Washington, D. and Mrs. Howard Gardner. Major

> night. Mrs. J. J. Flinchum continues ill and is a patient at Memorial Hospital, Chapel Hill.

Mrs. W. L. McLean returned home Saturday from visits to her daughter, Mrs. E. W. Brofford, in Elon and son, H. G. McLean, at Haw River, Rt. 1.

Mr. and Mrs. Harry Byrd of Branchville, S. C., and Mrs. E C. Hines of Sanford were guests of Mrs. L. R. Sugg last Thursday Worth McDonald left Tuesday spending 10 days in Washington, to resume his studies at A. S. T.

Mrs. Neill McKay and sons,

ited relatives in Winston-Salem mountains in Western North Car olina.

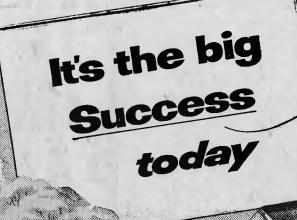
Mr. and Mrs. John Kelly and Children, Rosemary and Archie, L. G. Alexander visited coach children, Rosemary and Archie, L. G. Alexander in Boone over spent last weekend touring the the weekend.

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