office files, Mr. Kelley recalled:

"I' guess I got that trait from my mother. She used to love to save clippings for her scrap book, too."

"You know," he went on, "50 years is a long time. I came to Arkansas from Kansas when I was 24 years old. My father was a captain in Powell Clayton's Fith Kansas Cavalry and so, of course, he had been all through this country during the Civil war.

"When I told him I was going to Arkansas he asked me, "What in the world are you going there for?' You see, that was many years ago and there wasn't much development here then. But, Jay Gould had just bought a railroad down here and I felt it would be a good country for a young man, so I came.

Can say that approximately it is from Muskogee, Okla., to Clinton, Mo.

In northwest Arkansas one finds the highest and most rugged elevations, sepecially in Newton county.

The boundary line of the Boston mountains meets the Springfield plateau near Winslow, Prairie Grove and Lincoln, which form roughly the area drained by the upper part of White view.

The elevation of Washington county scales between 1,000 feet and 2,000 feet. Washington county is partially in the Boston mountains and is also in the Springfield plateau private of the Dozark mountains and is also in the Springfield plateau private of the Dozark mountains and is also in the Springfield plateau production statistics of Arkansas for the period 1880-1935. A compilation of all available figures concerning the quantity and value of each mineral produced in Arkansas oil and gas wells. Contains information on 2,109 wells drained by the upper part of the Ozark mountains and is also in the Springfield plateau production statistics. Mineral production statistics of Arkansas for the period 1880-1935. A compilation of all available figures concerning the quantity and value of each mineral produced in Arkansas oil and gas wells. Contains information on 2,109 wells drained by the upper part of the Ozark mountains and is also in the Springfield plateau production statistics. Mineral pr

But, Jay Gould had just bought a railroad down here and I felt it would be a good country for a young man, so I came.

Small Fortune Saved

"How well I remember Fort Smith of those days. There were 62 saloons on Garrison avenue. Can you believe it? There I was—24—full of ambition, a republican and a prohibitionist in this strange—new country. Sixty-two saloons and me a prohibitionist!

"Not many moons passed before Mr. Kelley acquired what he said was considered a sizeable fortune for those days, so he decided to establish a newspaper. He located the plant in the building now occupied by Fox and Turner Clothing company at 607 Garrison avenue. Fire however, later destroyed this building, so the newspaper was established on South Sixth street, where the Western Union now stangs.

The southern part of the county is in the Springfield plateau.

There are three divisions of the Ozark plateau. The northeast part is called the Springfield plateau and the southern part is the Ozark plateau. The northeast part is called the Springfield plateau.

Going north from Fayetteville the Boston mountain range ends at the Veteran's Facility Hospital. Beyond that is the Springfield plateau.

All of Fayetteville is in the Boston mountain range and the northern part of the county is in the Boston mountain range and the northern part of the county is in the Springfield plateau.

The reare three divisions of the Ozark plateau.

Going north from Fayetteville the Boston mountain range ends at the Veteran's Facility Hospital. Beyond that is the Arkansas River valley at Alma.

Zillah Cross Peel.

Fayetteville, Ark.

Catalogue

The newspaper lived only five years, but when Mr. Kelley was publishing it (it changed owners once or twice during those five years) it was indeed a hectic life. He gave it up when the panic of '93 struck. "Did you ever hear of that panic? Well, it made this last so-called depression look like 30 cents." he said.

But, back to the story of his life as a publisher. Mr. Kelley said he crusaded for sewers and "they thought I was nuts." But, the sewers arrived in Fort Smith as a result of his work, in 1887.

Few Old-Timers Remain

Then he crusaded for paving on Garrison avenue, and "they thought I was nuts." But, the paving arrived in 1889. The base of the Garrison avenue paving is a source of great pride to Mr. Kelley. "It'll just begin to wear in a thousand years from now," he said, perhaps exaggerating his point a little, but that is the way he feels of information on the resources was

used to meet every Sunday morning at the Arkansas club (now the Loden Motor company) building for discussions on the topics of the day.

But, with all those passing years, it is a safe bet not one has slipped by that has found Mr. Kelley without some public work on his hands.

And the strange fact of it is that vhile he has been a public figure, so o speak, all these years, he has never un for a public office, nor drawn a penny of public money. True, he was secretary of the board of improvement districts for 26 years, but that is when the job carried no salary. Now it does carry compensation.

Wages of Employes Geological Survey.

Mapping Work. In addition, the state has completed in this time assistance a total of 2,394 mapping. The federal goven tributed \$202.152.06 and the other agencies \$18,459.48.

The mapping projects it square miles of topographic what is known as the Blak rangle east of Little Rock. reduced to 14,068 miles or the territory of the state mapped. Added to this to are 20,689 miles or 38.77

Life Is Very Active

Mr. Kelley was one of the first to mapped adequately. Most of the latter in Arkansas, which resulted among other things in obtaining Hot Springs National park for the state. He has been active in flood control and other river projects; in gas field develop-

With the assistance of federal relief agencies, the state Geology Depart-ment has completed for the first time an inventory of existing data on Arkansas's resources, Dr. George C. Bran-

but that is the way he feels of information on the resources was financed by \$58,022.06 in federal funds Many years have passed since those for payment of salaries and wages, and any years that Mr. Kelley said he equipment and supplies, publication of

The mapping projects included 250 square miles of topographic mapping of what is known as the Blakemore quadrangle east of Little Rock. The project reduced to 14,068 miles or 26 per cent, the territory of the state yet to be mapped. Added to this total, however are 20,689 miles or 38.77 per cent of the state which is inadequately map-ped. A total of 18,578 miles has been

tensively drilled areas in south Arkansas. Contains maps of 70 counties showing locations of wells drilled, information on production, cost of drilling, history of development and a section of oil and gas possibilities.

Field Survey Needed.

Dr. Branner said that a state-wide field survey is now needed to complete the compilation of data on the state's resources. Application has been made to the Works Progress Administration for \$315,000 to help finance such a project. The state would contribute \$36.-000. A total of 542 workers would be employed in the project for one year.

The WPA in Washington has ap-

The WPA in Washington has approved the project but the state WPA has been unable to make place for it since its rolls have been reduced.

A similar project recently was com-

pleted in Okahoma.

ARKANSAS OIL THAT IS DEEP Gaz UNDERGROUND 37 Report comes from El Dorado of at

least three and possibly four new deep test wells, one several miles outside the proven area.

Improvements in drilling equipment gentleman who appreciates good stock. made in the last decade have added untold millions of barrels to the esti-Los Angeles' Moi mated total of potentially recoverable petroleum in Arkansas and other oil- ing Mountain

teen years ago in the El Dorado "South Field," the mile-deep producing strata that had been recently tapmany years that Mr. Kelley said he believes only Judge Joseph M. Hill and himself remain of a group of men who used to meet every Sunday morning at the Arkansas club (now the Loden Motor company) building for discussions on the topics of the day.

But, with all those passing years, But, with all those passing years, as febet not one has slipped by that has found Mr. Kelley without some public work on his hands.

And the strange fact of it is that it was literally deep.

HARRY KELLEY

RECALLS EARLY

DAYS IN CITY

Southing at, Tiggs

Flower City Leader Find

Many Interesting Stories

And Month of Health Century

Saved for Half Century

Nakoakur concutas

Tarry E. Kelley rads generalized and the first standards of the production of

One Hundred Years Ago. (Arkansas Gazette, December 5, 1837.)

The steamers Arkansas and Ozark are noticed in the New Orleans papsers as having arrived there in the last month.

Gazette 12-6-37

(Arkansas Gazette, December 6, 1887.) The first annual report of the state geologist, Dr. J. C. Branner, was issued yesterday. It is in pamphlet form and is intended only to show how well the work has been begun and how well it is progressing. Dr. Branner says: "A valuable geological report cannot be written without an accumulation of facts, and the accumulation of these facts requires time and labor. Although a vast amount of useful information has Water Wells in Arkansas.

Springs in Arkansas.

Sand, Gravel and Stone Deposits in Standard Standar write the reports and prepare the maps and sections, to say nothing of the time necessary for the engraving of maps and illustrations, or the printing and binding of the reports." Dr. Branner deals with all departments of the survey, giving the name of each man employed and the amount of work done.

"The excitement existing in this state and in mining circles outside the state," he continues, "regarding the discovery of gold and silver in certain counties in Arkansas, especially in Garland and Montgomery, seemed to demand a special investigation." This was done by Dr. Comstock, who finished his field work in September and returned to his labora-tory at the University of Illinois to work up the results of his investigations and

report on them.

The span of iron-gray horses sold to Dr. Bryson on Saturday last by J. B. Lindsey is a team unexcelled for the road or for single or saddle purposes. The horses fell into the hands of a

When the first drilling campaign in Arkansas was getting under way sixof Landslides

the was literally deep.

Heavier drill stems, more durable bits, sturdier construction of pumps which bring to the curface autient.

Will Perry, prominent Snowball merchant and land owner, cites two landslides on the Point Peter Mountain west of Snowball. On what which bring to the surface cuttings made by the bit's rotation, and greater power equipment enabled drillers to drill to sands hitherto considered beyond reach. Oil today is being produced in Miller county from a depth of 6,500 feet and in the Shuler, Union county, field, from 7,500 feet. A well nearly two miles deep has been drilled

Beehive in Cliff Hundred Years Old

Gazette 1-24-38 Shirley, Jan. 23 (A).—Bees have swarmed unmolested about a sheer cliff overlooking Red river here almost a century in defiance of man's every attempt to reach their hive.

During the honey gathering season streams of the bees constantly come and go from a cleft in the high bluff.

Old settlers of Van Buren county say it is the oldest and largest colony of bees in Arkansas, probably in the South. They say the age of colony can be traced to 1844—even then the cliff had been named for the swarm-Bee Bluff.

Those who have struggled vainly to reach the home of the bees say that goal could be obtained only by the use of expensive equipment. The hive cannot be approached except from the top of the cliff by scaffolds

John Henry, owner of the land upon which the hive is situated, several years ago attempted to reach the hive. He dug around the side of the bluff and got within 12 feet of it but solid rock cut him off there and he could get no further without blowing off the face of the cliff. That prob-ably would have destroyed the hive, so he abandoned the plan. Tons of honey are believed stored in the

Taeniolite Found In Magnet Area Gazette 5-8-38

Nobody appears to know what will come of it, but excavations will be extended in shafts around Magnet where Lawton D. Kimzey has discovered several deposits of "taeniolite" an extremely rare lithium magnesium mica—George C. Branner, state geologist, disclosed vesterden. gist, disclosed yesterday.

The rare mineral—used primarily for lithium salts and for glazes and enamels in ceramic uses—was discovered by Mr. Kimzey on land in Hot Spring county owned by Adam Smith, while searching for titanium, considerable of which was found. It was found in irregular veins

about 50 feet in rock, and was identified by the United States Geological Survey by chemical and X-ray analyses, as a particularly rare lithium magnesium mica. The analysis showed the stuff to be 3.1 per cent lithium oxide.

Dr. Branner was asked to examine the deposits. Mr. Smith sought the aid of State Senator Joe Kimzey of Magnet in determining the quantity of the mineral available, and whether it would be "available," or sufficently easy to excavate to be profitable for production.

Two chemical companies with whom Branner communicated have expressed an interest in the deposits as a source of the mineral for lithium salts. The Ceramic Engineering Department of the University of Illinois expressed a desire to obtain the mineral for ceramic material.

MARKING THE

Southwestern Trail

Bronze Markers Are Being Placed at Eight River Crossings on the Earliest Travel Route Through Arkansas.

By Virgil E. Barnwell

Gazette 1-23-38



Where the Southwestern trail crossed the Ouachita river at Old Rockport, near Arkadelphia.

When the pioneers first began settling Arkansas the only passable trail in lower Pike county. had been made by the Indians. History records that de Soto and the members of his expedition were the first white souri line to the Indian Terrotory at men in Arkansas. They camped during the winter of 1541-42 somewhere close the latter crossing a marker has been to the Ouachita river. For many years erected. no other white man came to this coun-

established a fur trade. Little by little Purchase. In 1803, at the time of the other settlers made their way to the purchase, there were about 600 white new country and began blazing the inhabitants in the area now covered by trail for future generations.

tation to adventurers and traders. the principal waterways. There was plenty of room for all and of man without too much physical ef- follows, for most of its distance, forced their way into the new country. by the Indians in their journeys through History was in the making and this the Southwest to the Northeast. "obscure path" played a most important part.

ing to legend, came James Woodson various points and going into the in-Bates, first territorial delegate of Ar- terior. It was early discovered that one kansas Territory to Congress and for of the most passable routes was across whom the city of Batesville is named. the river to Bainbridge, thence in a Andrew Scott and Robert Crittenden, southwesterly direction, crossing the too, rode down the trail on horseback Little Current river about where the to seek their fortunes and added much present Arkansas-Missouri line is loto the history of Arkansas.

in the territory and it is for this reason that markers are being placed along the trail to designate the course of the old route. The following sites have been denced by the fact that artifacts of approved for marking on the Southwestern trail:

Hix's ferry, on Little Current river, in the northeastern corner of Randolph

Davidsonville, in Lawrence county. McNeil's ferry across the White river,

in Independence county, near Batesville. Ferry across the Little Red river, in

White county, near Searcy. Ferry across the Saline river, Saline

county, near Benton. Ferry across the Ouachita river, near

Old Rockport, Hot Spring county. Ferry across the Caddo river, near Arkadelphia, in Clark county.

These sites show the course of the the Red river crossing, at Fulton. At

The establishment of these ferries took place early in the last century, Next came the French traders, who probably shortly after the Louisiana Arkansas. Most of these were in the The new country was an open invi- eastern part of the territory and along

The old Southwestern trail was the natural resources provided the needs first all-land route to the Southwest. It fort. Clad in buckskin and armed with through Arkansas and Missouri, the heavy rifles, good men and bad men old Indian trails that had been used

Shortly after the Louisiana Purchase, trappers, traders and adventur-Down the Southwestern trail, accorders began crossing the Mississippi at cated. Then southwest along the first hills raising above the coastal plain, using as a road the old Indian trails that had followed the same terrene.

> That these trails are all old is evicivilization preceding the Indians have been found along practically all of them. It is not beyond reason to believe that the Toltecs coming to this section many years ago, used the trails in their pilgrimage from Central America.

When the government recognized the value of this transportation lane, appropriations were made to improve it for military purposes. In time it acquired the name Military road and certain sections of the old Southwestern trail are now known exclusively as the old Military road.

Apparently two Military roads were built by the government, but the Southwestern trail (which was the north and

Crossing on the Little Missouri river, south Military road) was begun as early as 1832 in Arkansas Territory. It was opened at Hix ferry on Current trail across Arkansas from the Mis-river, continuing through Little Rock on to Fulton and into Texas.

This road was used by trading parties from St. Louis loaded with cargos of many kinds of goods for trading with the people of the far Southwest. During the War of 1812, soldiers used the old route through Arkansas. It was romantic, adventurous and dangerous. Every inch of the way was the constant threat of danger, either from outlaws, animals or Indians.

With the increased ingress of settlers the means of travel changed. Trails became more marked and joined together into a condensed route which was greatly improved, first by the settlers themselves and then by the government, until sections of it were usable for the wagons and stage coaches.

About 1815, more men brought their entire families into the new territory and the Conestoga wagon played an important part. Introduced in the East a few years earlier, this wagon, boatshaped to hold the goods in place and arched with hoop-shaped slats covered with canvass to protece the merchandise, was popular with the pioneers. Named for the town of Conestoga, Pa., where it was made, it soon acquired another, more suitable name. West of the Mississippi the settlers called it the "praire schooner" and the "covered wagon." It was practically the only vehicle on wheels used by the incoming

Most of the travelers used the "big route" into Arkansas and regardless of the danger, men brought their families, built crude cabins, planted cotton, corn and some vegetables and made their homes permanent. Each year newcomers pushed farther into the wilder-

About 1835 or 1836, the stage coaches made their appearance and took over the mails and freight, and the carrying of passengers.

The trail was still the main road of travel, swinging down from St. Louis to the foothills of the Ozarks, crossing the Arkansas river at Little Rock and

adavid sonville ROCKPORT ARKADELPHIA WASHINGTON (arkana

Route of the Southwestern Trail.

the Red at Fulton. From there it wound on down into Texas and Mexico.

In 1846. Texas declared her independence and called on her neighbors and relatives to help her. Then began the stream of pioneers, soldiers, adventurers, gamblers and outlaws, all marching over the old route until it became

deeper and wider and developed into a

During the hostilities with Mexico the volunteer fighters from Arkansas were encamped at Washington and ready to march to San Antonio, but shortage of provisions delayed them. An investigation showed the supplies had been delayed at Fulton because Red river was at a low stage. The supplies would have to be sent by wagon train or the troops re-routed and this meant further delay, because of the roads. Later it developed the commander of the companies had failed to receive a letter informing him of the change in plans.

After Texas won her independence the migration of settlers to Texas increased. An article in the Gazette Centennial says: "The movement of settlers to Texas through Little Rock, over the old Military road has come to be almost a continuous procession."

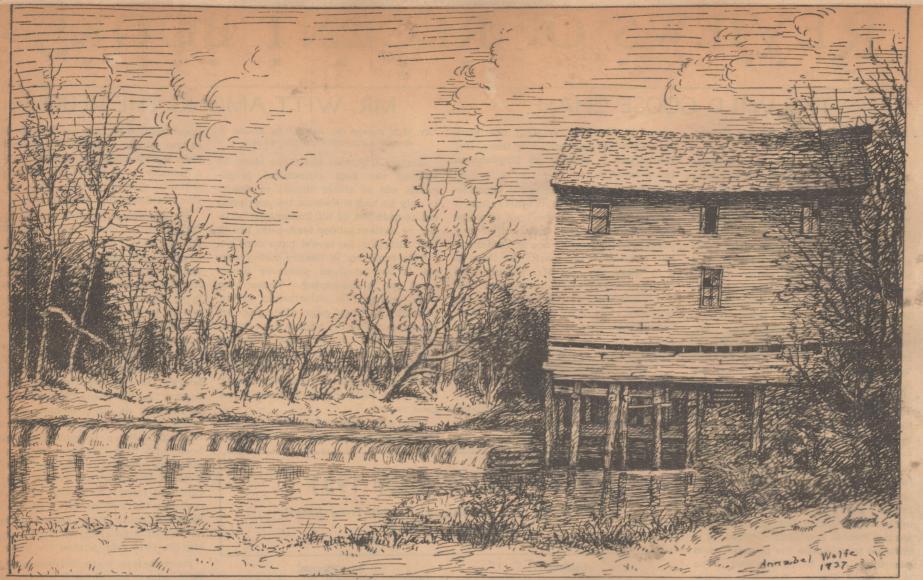
Davidsonville, in Lawrence county, one of the places to have a marker, was the site of the first courthouse in Arkansas Territory. The mails were always late until a postoffice was established in June, 1817, at Davidsonville, where the post rider left the packs of mail. Even then it wasn't always on time, the weather having much to do with the conditions of the roads.

Another historical place along the trail was Washington, in Hempstead county. In 1863, during the Civil war, and the capture of Little Rock was anticipated, the capital was moved from Little Rock to Washington. Stephen Austin, founder of Texas, Sam Houston, Albert Pike and Augustus Garland were among the many famous men associated with this little town.

After the Civil war and during the Reconstruction period, transportation was a problem. During the summer roads were dry and dusty, the dust lying inches thick on the roads. Worse, by far, was traveling in winter when

the roads were just mud. The automobile made its appearance about 1900, and the owners used their influence for road improvement. With swifter transportation came the need for better highways.

From the early days before the Louisiana Purchase, each generation has contributed some improvement on the old Southwestern trail until today it is known as United States Highway No. 67, and though incomplete as to the original program, it serves as a link connecting Arkansas with other Broadways of America.



Sketched by Annabel Wolfe.

OLD HAWKINS WATE

Pictured Wather is the old Hawkins served a large area of the mountain bullet holes in the walls are mute tessaid to be the oldest water mill still in operation in the Arkansas Ozarks. The mill was built in 1835 by Matt Hawkins, one of Madison county's earliest settlers. At that time Huntsville, the county seat, was a settlement of a few log cabins and a trading post. This mill settlers in the community. The many and brought by water to Clarksville up around Huntsville.

water mill, located five miles from country. People came as far as 50 miles timony of the shooting that occurred then taken by ox wagon to the mill Huntsville on War Eagle creek. It is to have their grain ground, and generation after generation has followed them. The pioneer customers of the old mill claim the grain ground on the old water mill makes a superior grade of meal. During the Civil war the old mill was used as a fort by the owner and

there. Although 103 years old, the mill site. The old mill is three stories high has been in the Hawkins family ever since it was built, until recently when it was purchased by Bud Combs and Virgil Weathers, who operate it. It is on the ground floor, turned by the said that the millstones were imported water wheel. There are many descenfrom France, unloaded at New Orleans dants of the mill's builder in and

the Mississippi and Arkansas rivers, and while it once was lighted with tallow dip, it now has electric lights, the current furnished by a small dynamo

Gives Some Facts About the Old Military Road.

To the Editor of the Gazette:

I read with pleasure in the Gazette Magazine that markers are to be placed in Arkansas at some of the most prominent places along the old Southwestern Trail, which in this (Lawrence) county is known as the old Military Road. Here it is understood to have been opened in 1811. It is the route over which most of the early settlers came into this county. It is no longer a through route of travel but sections of it are used locally. Enough of it remains to make it easily treaceable through the county. It crossed Spring river from Randolph county a short distance down the river from Imboden and passed through the county by way of the village of Denton and Lynn, crosses the Strawberry river at the still so-called Old Military Ford and passes just west of Saffell into Independence county.

Until I saw the map in the magazine I never heard that the road went by or very near Davidsonville. If it had gone by Davidsonville in order to continue its course it would have been necessary for it to cross Spring river below its junction with Eleven Points river, at which point the river is not fordable,

and a bridge has just recently been built across that part of the river.

However, tradition says that Solomon Hewitt was operating a ferry across Spring river at the mouth of Eleven Roints river in 1818, and there was evidently a mail route from Davidson-ville toward Batesville. The court record at Powhatan reveals that the first court appointed a commission instructed 'to lay out and mark a road from the town of Lawrence (Davidsonville) to the Arkansas county line in the di-rection of the town of Arkansas (Ar-kansas Post.)" The records do not reveal that the road was ever opened. It probably was not opened as an inde-pendent road, but only far enough to connect with the Military Road a few miles to the southwest.

miles to the southwest.

These facts reveal to my mind that Davidsonville was not on the Military Road by a few miles.

I have been advocating a suitable marker for Davidsonville, not because it was on the Military Road but because of its historic interest by reason of its being the first county seat of Lawrence county and the first postoffice in the state. The first court in the county was not held at Davidsonville, but three or four miles from there at the home of Solomon Hewitt on the bank of Spring river, early in 1815. Davidsonville was not made the county seat until 1816. The postoffice was established there in 1817. On the spot where the court-1817. On the spot where the courthouse stood a suitable marker should be placer, whether or not it was on the Military Road, or better still a memorial park made of the entire town site, or at least of the courthouse scource.

Walnut Ridge, Ark.

ROAD TO GREENSBO

Winding through the hills northeast of Jonesboro, past decaying farm homes that were beautiful mansions in the 90s, is the old Greensboro road-a romantic thoroughfare down which the early settlers traveled to old Wittsburg in the ante-bellum days before either Jonesboro or Paragould were laid out.

Like other early roads in Arkansas, it was cut out along an old Indian trail. The road follows closely the old trail leading from the Delaware Indian village, just north of the present site of Greensboro, to Jonesboro and down Crowley's Ridge almost due south to Wittsburg, an old river port on the St. Francis river near Vanndale.

With the development of Wittsburg as a river port, merchants and traders from Greensboro, Gainesville and other northeast Arkansas towns, including old Davidsonville, traveled down the road to obtain goods.

Greensboro was laid out along the headwaters of Lost Creek, 12 miles northeast of Jonesboro, in 1837 and in few are used. Perhaps two or three miles up the road stands the old J. N. 1847 Gainesville, just north of Para- homes may be glimpsed where the oc- Burk home, occupied by the county's gould, was established.

Down the road came creaking ox tivation

Driving out from Jonesboro today the visitor can see the site of many of family resided, adjoining the Ransome these old homes—and not a few old cemetery. Not far away is the site

By W. Clarence Adams.



Decaying residence of Tom Lane at Greensboro. He was the first sheriff of Greene county.

cupants have remodeled the homes.

It was along this road that Joe Clark, carts from Missouri, Kentucky and the first photographer in Craighead Tennessee. Along the roadside were county, first lived. Nearby is the old homes constructed as pioneer families homestead site of Ben Freeman, who surveyed out their lands and settled. kept the mail for the settlers, his home The land was all forests in those days, being the half-way house for the mail but plots were soon cleared up for cul- riders who carried the mail from Bolivar to Gainesville and Greensboro.

Further up the road the Ransome log structures still standing, though where Major Warner erected the first brick house in the county in 1862. Two

first surveyor.

The homestead site purchased by W. T. E. Armstrong, the county's first

sheriff, is nearby, now owned by the William Burdyshaw estate. The old log house where Mr. Armstrong lived has been torn down.

Scattered along the road are homes and the sites of early homes where lived the Kitchens, Gibsons, Willeys, Dicksons, Culberhouses, Nutts, Smiths, Puryears, Nisbetts and the McCullars.

1

The road winds over the hills, into

Lost creek bottoms. When the road was following the decline of the old town. first hewed out from the wilderness, Today it is "just a country road." the valley was in forest, and wild game abounded, including deer, bear and other animals. But today it is all in farming lands.

Within two miles of the site of old Greensboro, the road cuts sharply into the hill. On each side are high wallsshowing unmistakable signs of heavy traffic that must have passed along this way in the early days when the road was first cut out before the Civil

At the top of the hill overlooking the little valley of Lost creek, the site of old Greensboro, is the old decaying residence of Tom Lane, one-time sheriff of Greene county and father of W. T. county. The house is not occupied now and is rapidly falling into decay.

Descending the little hill into the valley, the visitor sees little evidence of the bustling little town that thrived there from 1837 through the 80s. A wooden bridge crosses Lost creek, about the spot that was known as the main street of Greensboro. To the right is the site of the old postoffice and upon the eroded hillside nearby is the site of early business

It's a lonely road—the Greensboro road that leads northward up from Jonesboro. What a thrilling history it could unfold of the early days if it could only speak! Down it rode the pioneer families of Craighead county in

valleys and over hills again. Atop a their oxen carts. Down it came the little hill six miles out from Jonesboro early merchants and traders with their the visitoir slows his car to gaze out goods. Down it came the early settlers westward over the wide expanse of the of Jonesboro and surrounding vicinity,

The History Of Flat Creek Valley

Only a Few Descendants Remain of the Early Pioneers Who Settled Along the Springs of Flat Creek in Southwest Corner of Flat Creek.

By W. E. McLeod.

Arkansas pioneers Selected the sites for their settlements usually along streams, for their abundance of water. In the southwest quarter of Lawrence county was one of those favorable spots, probably the most favorable within the present limits of the county. It was the valley of Flat creek, extending from the part of the county called the Flat Woods on the northwest and from the divide between Black and Strawberry rivers on the west, in a southeast direction, to its junction with the Black river bottoms at the bridge on the Powhatan-Lynn road, two miles southwest of Powhatan.

Through this valley from end to end flows Flat creek, fed by many springs. The two prongs of the creek each have a spring as a source, and from there to its entrance into the flood plane of Black river, the springs seem to have been spaced at exactly the right distance apart for homesteads. It is the same on the several lateral branches.

The low land along the creek is from a few yards to a quarter-mile wide, but the higher slopes of the valley are, for the most part, gentle, affording fine locations for homes. In its primitive state the soil of the valley slopes was. fertile and covered with heavy timber, oak, hiskory, gum, etc.

At about equal distance to the west and the east of the valley, after about 1836, were the young towns of Smithville and Powhatan.

At the spot now called Denton, about the middle lengthwise of the valley, two roads crossed, the Military road extending north and south through the county, and the then new Smithville-Powhatan road, extending east and west along the northern slope of the valley. These roads gave unusual facilities for getting into and out of the valley. The valley must have seemed very attractive to the incoming homeseekers.

That is a picture of the valley about 1840, ready and waiting for its inhabitants. Before that date and soon after, a few bold "squatters" located there. The dates of their coming are hard to determine exactly. The dates of the entry of their lands may or may not be the same as the dates of their first settlement. They may have "squatted" for years on their lands before entering them. In that they were protected by the pre-emption laws of the federal government. The dates here given are the dates of land entries. Judging from all the state north of the Arkansas some of the dates known and other in- river, in 1815, and the next year reformation, there is reason to believe that the dates are of settlements as well as of entry.

of Virginia, was the first settler in the far as known, none of them preached valley, in 1816. He and his wife, Rebeca, in the present limits of Lawrence are the ancestors of one of the out- county before the Rev. Isaac Brookstanding families of this county. A son, field came in 1820. The Rev. Mr. Lind-C. T. Stuart, was one of the leading sey also is credited with having organbusiness men at the old county seat at ized Flat Creek church, but it hardly Davidsonville, and when the county time there was, so far as can be ascerseat was moved to Jackson, in 1839, he tained, only one family in Flat creek moved there; but when the county seat valley, and apparently there were not was moved, in 1836, to Smithville, he a half-dozen families there until after located for a time on a farm on Stin- 1840. But recorded evidence reveals nett's creek and later moved to the new town of Powhatan, where he spent the that he speculated. He had a fine home Hiram Dorter (1849).



The old Military road through Flat Creek Valley, said to have been opened about 1811.

treasurer of the county from 1836 to neers of the county. They settled mainfied with the Democratic party.

the land on which they had lived since sheriff from 1880 to 1886. 1816, and she entered it probably after mind, that the first Methodist church Lawrence county was organized there in the valley, and some have said that it is the oldest Mothodist church in Arkansas. It may be; there is no positive proof to the contrary; but it seems improbable. It is a fact that Eli Lindsey, a pioneer Methodist preacher, established the Spring River circuit, the first in Arkansas, and embracing ported it to the Missouri Conference. Tradition says that William Stuart signed regularly to the circuit, but, so Davis, Emanuel Good, Murdoc McLeod, could have been that early, for at that

The only other settlers known to be remainder of his long life in various in the valley before 1850 are William kinds of business. Records show that Wayland (1826), Taylor Fortenberry he entered much land, so it is presumed (1836), Hugh Rainwater (1849) and

that there was a Flat creek "meeting

house" as early as 1844.

for that day in Powhatan. He was Many Waylands were among the pio-

1840. He was the father of Cicero, C. A., ly in the Spring river country, some F. C. and C. T. Stuart Jr., who were miles to the north of Flat creek valley. leaders in the affairs of the county One of them, Jonathan Wayland, was after the Civil war. Capt. C. A. Stuart a noted local Methodist preacher, who was sheriff of the county from 1880 had much influence in shaping the reto 1886. The other brothers did not seek ligious life of the Flat creek commuoffice, but for many years were identi- nity. Another local Methodist preacher in the valley was Hugh Rainwater, While tradition says that William father of the numerous Rainwater tribe Stuart settled in Flat creek valley in in this county. Hiram Dorter is said to 1816, the records do not show that he have brought in the first copper botever entered any land. He could not tom evaporating pan for making have done so before 1820, when the sorghum molasses, an important sublands of Arkansas Territory were stitute for sugar in those days. His son, opened for entry. The records show John Dorter, was an early school teachthat his wife, Rebeca Stuart, entered er in the valley and was surveyor for 320 acres in 1825, which no doubt was, the county from 1876 to 1880, and

The influx of settlers into the valley his death. This family played an im- started in 1850 and continued for ten portant part in the religious develop- years, with the greater number coming ment of Flat creek valley. It is said in 1850 to 1854. I will attempt to name that it was through the influence of only the well known families. In addi-Mrs. Rebeca Stuart and others of like tion to those already mentioned, they were, in somewhat regular order down the valley: A. F. Phillips, 1851; John Davis, 1854; S. W. Dodson, 1853; Allen Moore, 1851; W. E. Moore, 1852; W. G. Howard, 1850; Joshua Moore, 1851; S W. Moore, 1850; W. L. Wasson, 1851; Jefferson Webb, 1851; D. W. Moore, 1850; W. G. Hammond, 1850; John L. Matthews, 1852; Jeremiah Brady, 1851; G. B. Richie, 1854; W. J. Matthews, 1852; Thomas J. Guthrie, 1854; Marston Morris, 1850; W. G. Morris, 1854; W. H. Richie, 1854, and W. M. Moore, 1851.

A few of those who were a little later After that time preachers were as- residents in the valley were James John W. Wasson and Jeni Ivie. All the names are mentioned because those to whom they belonged played important parts in the economic, moral and social development of the valley.

In the days when the valley was new and the soil fertile, the farmer population was prosperous for that time, and the valley was outstanding, for its good citizens. They were of good families, mostly of English descent, through Virginia and Tennessee, for the most part. They were religious folks and believed in education. So they attached themselves early either to Flat Creek Methodist church in the lower end of the valley or to New Hope Baptist church near the upper end. That church, one among the oldest Baptist churches in northeast Arkan-



The New Hope church, the third building on the site in Flat Creek Valley. The first building of the congregation, organized in 1844, was built in 1853; the present building was built in 1892

sas, was organized with five members other parts. If the call of the names in 1844. Both churches were in existence several years before 1850. Both nad church-school houses, and schools before the Civil war. Both had noted camp grounds at which great camp meetings were attended by people from all over the county, and even beyond the borders of the county. The valley, with its two oldest churches in the country, was easily the religious center from which the influence radiated pulling that led to the formation of several other churches of both denominations, quite probable that they will attend the

Each church occupies its third build- competitive military drills at Austin, ing. The site of the Flat Creek church was moved in 1884 to its location on The Crystal Guards also held a meeting the Smithville - Powhatan highway, in the Senate chamber last night. three miles west of Powhatan. New Jacob Brooks, who is employed by a Hope church built a new building on the original site in 1892. It is on the New York syndicate as mineral prospec-Smithville-Powhatan road about four miles east of Smithville.

Today on every hand are marks of decay and erosion. Nearly all the old sources in this state and that he will homes are gone. The creek, fringed with cotton wood trees, still winds its Branner to allow him the use of his way through the valley, but the once maps, etc. fruitful soil, robbed of its fertility, no longer responds with bountiful harvests. About the only thing that remains unchanged are the crystal waters that gush from the springs, once the joy and pride of their owners.

Descendants of the pioneers have wandered away to seek a livelihood in

of the pioneer families once in the valley were called, only a very few could answer here.

2-13 Firty Years Ago. -38 (Arkansas Gazette, February 13, 1888.)

The Literary and Music Club entertained most pleasantly last night at the rooms of the Young Men's Christian Association. In addition to the usual exercises, the members of the club and their guests enjoyed an old-fashioned candy

The McCarthy Light Guards had a very satisfactory drill last night. It is Tex., and in order to get themselves in

tor, writes Dr. J. C. Branner, state geologist, that he has been ordered to make a thorough investigation of mineral rebe here as soon as weather opens suf-

Market For Bat Guano Developed Gazette 2-13-38

Special to the Gazette.

Batesville, Feb. 12.—The first cash market for bat guano in the White river country, has recently been established at this place by Roy Jeffery, who is buying it, and drying it in the big sheet iron warhouse near the depot.

The price is gauged on the nitrate content, taking into consideration, the moisture. At present, it is bringing from \$1 to \$1.50 per point. Farmers are digging it from caves within hauling distance of this place. If the venture turns out to be profitable for both the buyers and sellers, markets will probably be established at points north of this place on the White River railroad. Guano being marketed here at this time runs around 10 per cent nitrate. It is the droppings of bats that hiber-

nate in the caves.

Where the deposits are old, the guano has rotted and the nitrate content leached into the clay. During the Civil war, several of these nitrate caves in the White river country were worked by the Southern army, and the nitrate recovered used for the manufacture of

Explains Discrepancy in Maps Of Old Military Road.

To the Editor of the Gazette:

When I saw on a map published in the Gazette Magazine two weeks ago the old military road located by Davidsonville, I challenged its correctness in a letter published in the January 13 issue of the Gazette. I did so because many old people here affirm that it was located by Jackson and I did not see how it could be located at both places when they are several miles apart in an east-west line across the direction

Since the publication of my letter I have received letters from two prominent men, one it Little Rock and one at Searcy, about the matter and I have thereby been prompted to try to get at the truth of the matter and I be-

lieve I have done so.

On a map made by Col. John R. Fordyce from one made by James Fallon's may of roads in 1836 and published in the Centennial Edition of the Gazette in 1919, the road is located

To Last but 35 Years

by Jackson.
I think this apparent disagreement in the maps may be explained as follows: In 1808 when the road was opened there probably were no settlers at Jackson, but there probably was a small settlement at Davidsonville. This statement is supported by records in the courthouse at Powhatan, but no more can be said about it here.

A glance at Colonel Fordyce's map will show that from Black's Ferry, where the map shows the road crossed Eleven Point river, a ridge of land lies between that river and the Black river to the junction of Eleven Point and Spring rivers. It was on the lower end of this ridge that Davidsonville was located, surrounded on three sides by Black, Spring and Eleven Point rivers. These rivers are non-fordable all or most of the year. That ridge, with Davidsonville at the lower end of it, was, and is, an ideal location for a road. In 1808 when the road was laid out, that place, notwithstanding the diffi-culty of getting across Spring river, two miles to the south. After the road was opened the settlers began to come in but much of the time they could not get across the river. So in order to overcome the difficulty they crossed Eleven Point river at Black's Ferry (or ford in dry weather) and veered a Cor ford in dry weather) and veered a few miles to the west to a ford on Spring river at or near the present town of Imboden. This detour soon took the place of the original road by Davidsonville. Jackson grew up by it and Davidsonville lost its road, travel and trade, and in 1829 the country seat.

Smart of the Pontiac Motor Division of General Motors.

Before indium was tried the linings brought to this country from Holland by his father, Michael Wolf. The anvil which Jacob Wolf used in his black-smith shop still is in use at McPherson, and if possible will be added to the museum.

The program will begin at 10:30 a. m. and trade, and in 1829 the county seat Adding the indium to the alloy stops Basket

cut off from Lawrence county, the county seat was moved to Smithville and Jackson slowly declined but old road remained there. The first maps located the military road by Davidsonville, but after the rise of Jackson it was located by that place. This, I think, explains the disagreement in maps as to the location of the

Walnut Ridge, Ark.

Miners Making Prospecting Big Temple Of Missouri Hill

Gazette 2-15-38 By HOWARD W. BLAKESLEE.

(Associated Press Science Editor.) New York, Feb. 14.-Miners in Missouri, blasting rock for the calcium carbonate of toothpaste and other chemicals, are changing a limestone hill into a huge "temple" to surpass ancient Karnak's Temple of Amen, largest

The mining methods creating this Karnak were described to the American Institute of Mining and Metallurgical Engineers here today by Ralph W. Smith of Ste. Genevieve, Mo. The hill, nearly pure limestone, is located

The portal is cut into side of the hill from the base nearly to the top. This entrance is 100 feet wide, 80 high, and 110 deep, and thousands of persons could be seated there. It opens into the "temple," a pillared labyrinth running deep into the hill's interior. Red flares light these depths as warnings of dynamite blasts.

of dynamite blasts.

The pillars are part of the limestone left to support the roof, which is the top of the hill, a crust of rock and dirt 20 to 60 feet thick. Each pillar is 80 feet tall, 20 square and there are 12 to the acre.

Egypt's Karnak temple began in pre-historic times. It was enlarged during 2500 years of Egyptian dynasties. The Misscuri "Karnak" started in 1900. It will be several hundred years before the needs of commerce take the last limestone from this spot, a series of connecting hills. Ancient Karnak was

square, enclosing 45 acres. The Mis-

square, enclosing 45 acres. The Missouri mining temple will enclose 150 acres and will be irregular.

These 150 acres are only a small bit of 12 square miles of similar limestone deposits in the Ste. Genevieve district.

At first mining of the hill was done to produce building store. But using

to produce building stone. But using the essential stuff of limestone, calcium carbonate, became more profit-able. Calcium carbonate is used for high-grade drugs, toothpastes and tooth powders, stomach disorders, paper coating, baking powders, grease making, gas purifying, brick, dyes, insecticides, tanning, ore dressing and steel and

To Last but 35 Years.

Thirty-live years is the limit of the present main iron ore supply of the United States, the engineers were told. This supply is the reserves of the Lake Superior district, which furnishes 85 per cent of the country's present iron. After that supply is gone, it was predicted the country still will have iron, but at a higher cost.

The figures were given at a sym-

ron, but at a higher cost.

The figures were given at a symposium of the institute's Steel Division by Carl Zapffe of Brainerd, Minn.

He is manager of the iron ore properties of the Northern Pacific Railway

Sunday

Rare Metal Lengthens Life Of Auto Engine Bearings. Gazette 2-16-38 By HOWARD W. BLAKESLEE.

New York, Feb. 15.—A new automobile alloy, made with indium, a rare, soft, white metal discovered 75 years ago, was Davidsonville was the only settlement in all that region, and naturally it was an inducement to locate the road by that place, notwithstanding the difficulty of the difficult ing and Metallurgical Engineers here

today.

The indium is used for linings of bearings for engine crank shafts and connecting rods. It lengthens the life of the linings by 200 to 300 per cent. The experiments were reported by C. F. Smart of the Pontiac Motor Division of

o Jackson, and soon after ceased to be. corrosion. Four to five-tenths of one In 1835, when Randolph county was per cent of indium is enough.

Date of Jackson and soon after ceased to be. corrosion. Four to five-tenths of one of Batesville, descendants of Jacob

Gold Found by Electricity. ported by Sherwin F. Kelly of New York. folk singers will entertain. The new mine is near the famous Pa-

to the surface of the ground showed re- stood for 129 years, the yellow pine logs sistance in two areas. Engineers figured in the walls are as sound as ever. The the resistance was about the amount rafters were joined with wooden pegs which would be due to buried quartz and the door and window frames also veins. Borings showed the diagnosis was were put on with pegs. The heavy clapthe other contained gold in paying quan-ities. There is no electrical way of di-made by Jacob Wolf in his blacksmith rectly detecting gold.

Made Easier By Chemicals Democrat 2-17-38

New York (P)—Invisible metals reveal themselves by imitating the brilliant, iridescent colors of beetles brilliant, iridescent colors of beetles in a new method of prospecting reported to the American Institute of Mining and Metallurgical engineers what was then Indian territory, as required by law Kickenee Coulombia.

Mining and Metallurgical engineers today.

The prospector polishes a sample of ore and dips it in a chemical bath. The polished face, frequently a single uniform color before dipping, comes out of the bath spotted with rainbow colors. Each color reveals a different metal and indicates the quantity of it.

This discovery was reported by A. M. Gaudin, research professor of mineral dressing at the Montana School of Mines. He offered it as a short-cut to locating the largest class of commercial minerals, the sulphide ores which include iron, silver, copper, tin and most of the great metals of commerce.

For many years metallurgists have sought to identify metals in ores by color staining, the same way a doctor finds germs with his biological stains. But most metals did not take stains.

In place of stains, Professor Gau-

stains. But most metals did not take stains.

In place of stains, Professor Gaudin has substituted colorless liquids, which form thin films on polished ore. The films break up the waves of light and the reflected waves appear in colors. This is the same way that nature makes the iridescent colors of beetles.

These rainbow effects are named

Historic Road

To Be Surfaced

Washington, Ark.—It has been decided by County Judge Frank Rider and WPA officials that work will and WPA officials that work will begin on surfacing and repairing the Military road, from here to Blevins, on the east and then to Columbus on the west, and surveys have been

This is one of the most famous This is one of the most famous roads in Arkansas and was built by Andrew Jackson more than 100 years ago, and was used for transportation of Indians to the Indian Territory, and also was used by men of national repute, as David Crocket, Concerned Houston and Austin and Generals Houston and Austin, and Thirty-five years is the limit of the many thousands of covered wagons carrying travelers to Texas and the

Wolf House Dedication

6-3-38

Special to the Gazette.

Mountain Home, June 2.—The Wolf
house at Norfolk, built in Indian terrimuseum Sunday

wheels, a yoke of oxen and old tools, have been placed on exhibit. Others will be donated. Miss Ruth Wolf of Chandler, Okla., descendant of Maj. Jacob Wolf, Indian agent, who built the house, will bring many of the family

of Batesville, descendants of Jacob Wolf; the Rev. W. H. McCuistion and Discovery of a gold mine in northern Judge R. C. Love. Tom Shiras will be Ontario by electrical prospecting was re- master of ceremonies. A group of Nor-

First House in Baxter County. mour Porcupine and Hallnor mines.

Electrical currents of 100 volts applied

Baxter county, and although it has One of the veins was barren but board doors still hang on the hinges shop. The rooms are 18 feet square and halls, 12 feet wide, run the full length of the house. Large fireplaces of stone

and home dried bricks are in every room. The largest room in the upper story was the scene of the first court held in this section, then Izard county. The other attic room was used during the War Between the States as a jail. A broad veranda faces the river where the Northfork runs into the White. the white man's country and Indian

quired by law. Kickapoo, Creek, Choc-

Special to the Gazette 6-5-38
Evening Shade, June 4.—In speaking of the rapidly expanding use of native limestone in building houses, fences, porch columns and "underpinnings" as an innovation that has spread over north Arkansas, we are apt to forget a earlier use of these same stones. Namely, the chimneys that are to be

found with practically all old houses. These rainbow effects are named Newtonian colors, after Sir Isaac Newton, the scientist who discovered their secret.

Like much of custom, language, and folklore the construction and use of these chimneys is rooted in a past that goes back to the Anglo-Saxon history of old England and France. The fire-place was first used in the feudal days of Europe, just before the discovery of America, at the time when England was soon to pass into the Elizabethan age. The old Saxon hall was large, being used for everything from kitchen to council hall. There was no opening to these first fireplaces. Smoke poured from the fire, to fill the great room and darken the faces of the inmates.

Finally, an overhead opening so that smoke and soot might escape, and then the chimney evolved with its height and draw. The fireplace came to be the chief social and decorative center of home, hall, and public tavern. The utensils changed from black nots and pans to shining copper and brass. But still food was stored in the chimney ovens that had been invented, and strings of vegetables and seasoning hung

above the fireplace to cure and dry.
While early Arkansas houses followed the same pattern, this was not altogether true with the chimneys. Composition of the soil, presence and kind of stone in the vicinity, would de-termine the structure of the chimney. Three types of chimneys came into use, the stone, the "stick-and-dirt," and the "tom-cat." Of these the native stone was most generally used in north Ar-

The "stick-and-dirt" chimney was made of short poles or sticks, either hewn or merely barked and dried, and placed one upon the other from the ground upward: A large opening was left near the base to hold the cooking Mountain Home, June 2.—The Wolf house at Norfolk, built in Indian territory in 1809, will be dedicated as a inside and out with similar clay. Such chimneys served their purpose The house has been repaired and the grounds landscaped by NYA workers under supervision of Dave Torrence. Many relics, including two spinning ney was so called because it was made of balls of palstic clay into which a of balls of palstic clay into which a binder of tough grass had be worked.

Branner Pamphlet Describes State

"A Few Facts About the Natural Wealth of Arkansas" is the title of a 10-page folder received from the press this week by Dr. George C. Branner, state geologist

The publication contains a store of facts and figures heretofore un-assembled in a single text and shows the value of seven major state prod-ucts, headed by agriculture. to be

Agricultural products at \$208,241,-000 comprises 54.7 per cent of the values, with manufactured products at \$97,272,122 being 25.6 per cent.

Other valuations are listed: Forest products, \$22,386,250; minerals, \$19,438,448; electricity generated, \$11,635,216; wild life products, \$6,250,000; water consumption, \$5,425,679.

Transportation facilities are: Railroads, 4,740 miles; highways, 9,112, divided 2,274 miles hard-surfaced; 5,476 graveled and 1,362 earth surfaced; water, 2,248 miles, divided 1,558 miles in 17 navigable streams for year-round transportation, and seasonal transportation, 690 miles; airways, 278 miles.

Marvels Of Magnet Cove

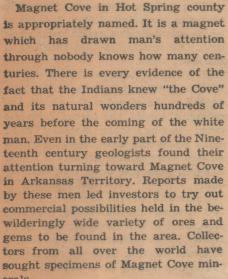
Wide Variety of Minerals Is Found in Unique and Limited Area in Hot Spring County

the Wealthy men who have visited Hot Springs for many years have not taken advantage of its promises. When "Diadvantage of its promises. When "Diadvantage of its promises."

Which Has Been Visited by Many Scientists and Investigators.

Arkansas Gazette

By Mary Dengler Hudgins. 7-31-38



State Senator Joe W. Kimzey, who lives at Magnet Cove, says that one of the best and most elaborate collections to be assembled there was prepared and shipped to Germany about the year 1900 by Dr. Otto Koonce. It is believed to be in a Berlin museum. It has been said that there is scarcely a collection of minerals in the United States which attempts completeness that does not boast a few Magnet Cove specimens.

Books and pamphlets have described the region and its wonders for better than a century. Scientific brochures are released on Magnet as a whole and on certain of its products in particular with surprising frequency. G. W. Featherstonhaugh, Englishman, who visited Arkansas in 1834, was the first geologist to report on the district. The book he wrote about his trip, "Journey Through the Slave States," was published in London in 1834. The picture of Hot Springs reproduced with the Frederic J. Haskin page in the Gazette Magazine of May 29 was taken from the Featherstonhaugh volume.

Quite a number of details about the Cove are given in the book. The geologist was amazed and delighted with what he saw, both in quality and quantity of minerals. Since his time expert after expert has given serious attention to the phenomenon of Magnet Cove. A current pictorial map, "Historic Map of Arkansas," sold on behalf of the building fund of the 4-H Club girls' dormitory to be erected at the University of Arkansas and sponsored by the Arkansas Council of Home Demonstration Clubs, gives Magnet Cove a place of prominence. A pamphlet released by the Arkansas Highway Department describes the spot as a "Point of Interest" for tourist travel. The Encyclopedia Britannica neglects to mention the Arkansas diamond mines at Murfreesboro, but gives Magnet Cove Que attention.

Many persons probably have passed through Magnet on United States Highway 270, 12 miles east of Hot Springs, without realizing they were encountering anything unique. This eliptical bowl when mapped looks a bit like a giant oyster on the half-shell. The whole district covers scarcely 5.1 miles—a space about 15,000 by 10,000 feet, at its greatest length and width. Yet within that space may be found more than 50 different minerals. There is every reason to believe that not nearly all of the varieties have yet been isolated.

Of the four-page list of "Gems and Semi-Precious Stones of Arkansas," distributed by the Geology Department (Miss Lucy Crooks is librarian for the extensive collection of books and brochures) 30 may be found in the



Cove. Old-timers tell of finding garnets

Cove. Old-timers tell of finding garnets and opals lying on the surface. So many specimen hunters have traversed the little bowl and the district has been so long under cultivation that few are encountered today. But pyrites still may be seen gleaming along the shoul-

der of the highway between Malvern and Hot Springs. Up to the time of the hard-surfacing of United States Highway 270, fragments of magnet could be picked up in the middle of the road, especially in the stretch fronting on the Magnet Cove Consolidated School grounds.

Magnet is a strange district. Topping the hill just beyond the Remmel dam cut-off, the motorist dips down into the natural bowl of the Cove. Unless he is quite observant he will fail to notice anything unusual in his surroundings. Perhaps he will notice that trees tend to be all hardwood, instead a blending of pine and oak. Maybe he will note outcroppings of strange rocks, some of them gleaming with flashes of purple and red and green. If he knows tufa he can find at 50-foot hill of it, the only elevation in the bowl. But unless he is interested in geology and steps out of his car to walk, accompanied by a guide or a well planned itinerary (one is issued by the Geology Department) he is unlikely to find out very much about the natural wonders surrounding him. There is the story—to be read plainly-but one must know minerals to be able to read it correctly.

It is said that for its size, Magnet Cove has the largest variety of minerals of any spot in the world. It is also asserted that it is the bed of an extinct hot spring. But whether that completely accounts for the fact that such an accumulation of minerals was joggled into five miles of nature's handiwork, nobody can say.

Perhaps that is why few things have been done about it commercially. Now and then, however, someone discovers new possibilities. On June 8 this year the Arkansas Gazette carried a long story concerning the discovery of taeniolite, an extremely rare lithium magnesium mica (used chiefly in ceramics and enamels). The deposit came to light while Lawton D. Kimzey was searching for titanium, the product which has been most widely commercialized in the Cove. No one can say as yet what the results will be, but the findings of Dr. Branner and the United States Geological Survey have caused the Ceramic Engineering Department of the University of Illinois to investigate possibilities of the Cove product.

However, it didn't take modern laboratories to prove the importance of the Cove. "That ancient Americans engaged in mining," says one clipping, "is evidenced by the old novaculite

The old "Diamond Jo" stopping to "wood up" at Magnet Cove in the

quarries found on Indian mountain, three miles from Hot Springs, and in Magnet Cove. These mines were worked hundreds of years ago in search for the proper kind of stone fitted for shaping into cutting and piercing implements. Weapons were in demand and chert in several forms, including novaculite, jasper, agate and flint and some varieties of quartz with brittle eruptive rocks, were found."

Richard Buhlis, who has been connected with both the one-time Arkansas Permanent Exhibit at Hot Springs and the Arkansas Museum (now stor-

ed) in Little Rock, says: "From all indications, the American Indians were also very much interested in Magnet Cove—there being a prehistoric Indian village site near Lodestone Hill. Archaeologists also have found many artifacts made from the rocks and minerals of Magnet Cove in numerous localities of Arkansas, Louisiana and Missouri."

G. W. Featherstonhaugh, the first trained geologist in the area, visited Little Rock in 1834 and then made his way to Hot Springs by way of Magnet Cove, where he made extensive study of the formations. Of the human side of his trip, he said: "Colonel Conway, the surveyor general of Arkansas Territory, was at this time building a cottage for his family-and has been kind enough to give me a letter of introduction to his lady, desiring her to receive us hospitably for the night if we found it convenient to stay there. The cottage was in a secluded place called Magnet Cove.

"Mrs. Conway received us very politely and though unprepared for visitors, as she was with carpenters and labourers to provide for, she had some supper got for us. Seeing that we were very much in the way, we retired to rest in a room which was not enclosed and still open to the weather on the side the chimney was afterwards to be built.

"Colonel Conway informed me that on surveying the country the needle would not traverse on approaching this locality and the cause was here apparent from a mound in the Cove covered with pebbles of magnetite oxide from one ounce to four pounds in weight. Some of the specimens which I brought away, especially one which contained a portion of a large crystal of iron, possessed of an intensity of magnetic power which is truly surprising."

Featherstonhaugh, highly impressed by what he saw at the surface, predicted phenomenal possibilities in the commercialization of the magnetic ore. Later developments proved that the outcroppings are more concentrated than the deep-lying deposits. One of the largest specimens of lodestone was dug up by a steam shovel in excavating for the Hot Springs-Malvern highway. Buhlis estimates its weight at 100 pounds. Mrs. Bernie Babcock, head of the Arkansas Museum formerly housed in the City hall, Little Rock, refused to estimate its poundage, but said it was 12 to 15 inches in diameter and too heavy for her to lift.

Through the years which followed Featherstonhaugh's visit the Cove grew in reputation. "In 1891 the posthumous report of J. Francis Williams on the igneous rocks of Arkansas was published. This volume contained three chapters on Magnet Cove which constitute a classic in petrographic and mineralogic literature. Further contributions to the petrogenesis were made by H. S. Washington in 1900 and 1901 and by K. K. Landes in 1931."

Men and women have traveled far and near to study Magnet Carried and the best private collection of Cove mineerals in the state, wrote: "I have had the pleasure of being associated with many of the world's best authorities who have come here from time to time to visit and study minerals, and since my father's death in 1906 I have helped many eminent scientists complete collections from this section. My father did a good deal of such work for Drs. Jenny, Foote, Nevin and others, as well as Dr. John C. Branner."

In fact for many years the news that a famous scientist was to visit central Arkansas caused many to jump to the conclusion that Magnet Cove was the destination. Once it was rumored that Madame Curie was coming to Arkansas to investigate the possibilities of radium.

Titanium is a Titan among metals and it has proved so in the Magnet Cove area. The power of its inertia for many years kept it from being commercialized to any extent. It still remains most useful in pigments for paints; but it is also used in arc lamp electrodes, ferrotitanium and smoke screens, continually increasing in importance.

In 1890 Williams mentions rutile and brookite (both varieties of titanium) as occurring in the Cove. Probably on the strength of this report, H. E. Perkins attempted rutile extraction. He dug a shaft 81 feet deep with drifts west 100 feet and east 125 feet. Ore was reported to run high. Today the shaft has caved. Samples of ore still are lying on the old dump. This project was begun about 1912.

In 1931 Senator Kimzey aroused the interest of H. R. McKnight. The Titanium Corporation of America was formed. Shipping began in May, 1932. Since that time work has gone steadily along. The plant is small. The method of extraction is very simple, compared to the elaboration of some processes. But it is highly effective.

Radio is presumed to be affected by the magnetic deposits of the Cove. It has been frequently asserted that radio reception is poor throughout the district. However, many motorists assert that their auto radio sets are undisturbed by passage through the bowl. Programs continue to come through undisturbed, they report. Stephen A. Cisler, general manager of KTHS at Hot Springs, says he has driven all over the Cove for the purpose of determining loss of reception and has found no spot materially affected.

Cove residents love their country and believe in it. The Kimzey family has been untiring in its efforts to bring Magnet Cove into its own. A recent

letter to the Gazette from F. P. Lappin proves that he, too, is alive to its possibilities.

It seems rather odd, with wonders of the Cove known to all that some of Springs for many years have not taken advantage of its promises. When "Diamond Jo" Reynolds, millionaire grain dealer and owner of extensive mines, built his little narrow-gauge railroad from Malvern to Hot Springs he made provision for his pigmy engines to burn wood. The tiny tenders couldn't carry fuel enough for the whole trip. They would invariably stop to "wood-up" at the Cove. The late engineer John Ryan told of the fraternizing on the toy trains by Jay Gould, Phil Armour, Billy Sunday (while still a ball player) and "Gentleman Jim" Corbett. When firemen leaped off the train to throw on wood, millionaire and mauler hopped off too-laughing as they loaded cord wood. Strange it is that men whose eyes were trained to the possibilities in soil and its sub-strata failed to "corner" the Cove. But that is only one of the Magnet Cove mysteries which has

New 'War Emergency' Mineral Found

8-29-38

Special to the Gazette. Hot Springs, Aug. 28.—A new mineral known to geologists as heckomite, said to be of the sodalite family of rocks, is being studied by Miss Jewell J. Glass, Washington, said to be the only optical mineralogist in the country. The new find was located in the Magnet Cove area.

Miss Glass, studying "war emergency minerals," is conducting her investigations for the Department of the Interior. The heckomite came to her attention when a sample was sent to her office for testing. When subjected to violet ray treatment, the mineral was found to be highly phosphorescent and very valuable to collectors of that type of mineral. It is found in large quantities in Magnet Cove, she reported, but the other minerals have been found only in small veins.

Miss Glass will leave here the middle of the week to go into the Ouachita National forest to continue her survey.

Although a resident of Washington,

Although a resident of Washington, she is a Southern woman, born and reared at Meridian, Miss. She is a cousin of Senator Carter Glass of Virginia.

Calls Attention to Errors In Article in the Gazette. 9-5-38 To the Editor of the Gazette:

To the Editor of the Gazette:

I read with keen personal interest the article entitled, "New 'War Emergency' Mineral Found" in the Monday, August 29 issue of the Gazette (page 2). The article is well written and essentially correct, with the exception of the accidental omission of the word "woman" before "optical mineralogist." With due credit to the women and true justice to the men this phrase should read, "said to be the only woman optical mineralogist." The spelling of the mineral name should be h-a-c-k-m-a-n-i-t-e (hackmanite). This is another on the long list of unusual minerals found at Magnet Cove. It is not classed as a "war emergency" mineral and does not exist in what may be commonly regarded as "large" quantities. It is, however, present in marketable quantity.

The suggested revision in some of the statements in the article are meant simply to clear up those small points which are normally and frequently made by writers who are unfamiliar with mineralogical terms.

Being an employe of the Department of the Interior, I feel impelled to defend the accuracy of statements pertaining to my work.

With grateful appreciation, I am, (Miss) Jewell J. Glass. Washington, D. C.

Geological Survey Helps **Develop Mineral Resources**

Good Government By GEORGE C. BRANNER State Geologist

(This is the first of two articles on the work of the State Geological Survey.) 9-10-38

Although Arkansas is known as an agricultural state, the val-1925 was 32 per cent of the value of the agricultural products for the year. This was in the days when the production of the to do with: Smackover oil field was at its peak. During the year 1936 the value of the mineral products was \$19,438,448 or approximately 11 per cent of the value of the large reserves there of high agricultural products of \$208,-241,000. During 1936 the mineral industry employed about 8,000 persons, met payrolls aggregating \$8,250,000 and paid state taxes estimated to be in excess of \$1,500,000.

In view of the importance of mineral production, the legislatures of 43 states have believed it to be good public policy for the state to assist in the development of mineral resources and to this end have created and maintained state geological discussed in two reports. One of

the Office of State Geologist is authorized by the Constitution of 1874. The present state survey was created by an act of the legislature of 1923 and has functioned continuously ever since. Prior to that year independent surveys had functioned intermittently from 1857 to 1860, 1871 to 1875 and from 1887 to 1893.

A state geological survey should perhaps better be called a "Bureau of Mineral Resources, Mapping and Stream Measurement," as it is primarily interested in the development of mineral resources and secondarily in mapping and the measurement of streams for the development of water power and other uses.

The work of the geological survey is usually carried on by the prosecution of field studies of mineral occurrences, detailed information on which is lacking and concerning which there seem to be reasonable chance for commercial development. To undertake a study of any mineral resource usually requires the investigation of an entire region in which it occurs and to do this often requires the work of a crew of men for months at a time. Private corporations will very seldom undertake a regional, or even a county, study and it is therefore essential that, if such studies are made that either the state of federal government agencies undertake them. For example, in 1929, the Arkansas Geological Survey undertook a study of the oil and gas formations of western Arkansas and published a 368 page report on the subject. This covered an area of approximately 10,000 square miles and included maps showing the position of 168 structures and many cross sections of the area. The basic information set forth in this study has served as a groundwork for the detailed

areas by private groups. In 1935 the Survey published

investigation of many small

a report of 538 pages on the oil and gas possibilities of the Gulf Coastal Plain, or lowland portion, of southern and eastern Arkansas. This report contained 117 maps and figures and county by county descriptions of the formations to be expected. This report has proved so valuable ue of the mineral products in that the edition of 1,250 copies has been exhausted.

> Other surveys undertaken during the past few years have had

> (1) The glass sands of northern Arkansas. This investigation covered some 12 counties and indicated the presence of grade silica sand.

> (2) The quicksilver region of southwestern Arkansas. This report covered the entire area of occurrences through Pike, Clark and Howard counties.

(3) The black marbles of northern Arkansas. This study covered five counties of the eastern Ozarks.

(4) Barite in Hot Spring County.

(5) Bauxite deposits in central Arkansas. These have been these, "A Geomagnetic Survey In Arkansas the creation of of the Bauxite Region in Central Arkansas," sets forth the results of a magnetic survey of Pulaski and Saline counties. The second report was published from a manuscript supplied by the U.S. Geological Survey and contains drill hole records of 55 test holes drilled in two

Federal Agencies Co-Operate In State Geological Survey

State Geologist

PART II

(This is the second and final article on the work of the State Geological Survey.)

It is estimated that during the last 10 years 20,000 publications, reports and maps have been distributed by the Arkansas Geological Survey in response to requests for geological and mineralogical data on Arkansas. These requests have come in from all points of the world.

Since 1933 much of the money expended by the Survey has gone into state-federal cooperative projects. Under the C. W. A., the F. E. R. A. and the W. P. A., both statistical and field projects were set up. Under these. mineral data from all sources have been compiled and five volumes published. These include a report on mineral production statistics, a report on mineral producers for 1935, a list of oil and gas wells, a list of water wells, and a list of elevations. The data for these reports were compiled and the master sheets were typed for reproduction by relief personnel.

Files Completed

In addition, oil and gas well and water well log files have been completed which have brought together the largest collection of Arkansas well logs in existence. A map reference library project has also been set up and is in operation.

have been approved with the Survey acting as sponsor. These are (1) a state leveling and traverse survey; (2) the state mineral survey; (3) a limestone drilling project and (4) a mapping project.

Under the C. W. A. program a U. S. Coast and Geodetic Survey mapping program in 1933-1934 employed 420 men in Arkansas for a period of several months. This project ran 557.4 miles of leveling, 199.4 miles of traverse, established 550 level stations and 322 traverse stations and erected 228 monuments. This work was continued on a reduced scale under the F. E. R. A. in Pulaski and Jefferson counties after the close of the C. W. A.

This field work was done in order to provide the preliminary information for the making of accurate topographic maps by providing the necessary vertical and horizontal control points.

County Groups

initiated to make a study of the easily recognizable and easily accessible minerals and mineral waters of the state. To accomplish this, county groups were established in 32 counties, each functioning under a county supervisor. Up to June 29 a total of 5,192 square miles of the state had been surveyed in these counties. This is 14 per cent of the total area of 35,515 square miles which has been selected for surveying. A total of 562 per-Under the C. W. A. and W. P. sons were employed on this pro-

ject on August 14.

In making this investigation, every square mile of each county being surveyed is walked over by field parties. Each section of land is mapped as to roads, houses and streams and the locations of all rock outcrops and mineral deposits and water wells are shown. Specimens are systematically collected and sent in to the state office for identification and analysis. To date a total of more than 2900 specimens have been submitted. These include lead, zinc, manganese, iron, quicksilver, copper, clay, chalk, limestone, dolomite. tripoli, glass sand, sand and gravel and building and road construction materials.

Information on caves, springs, and other items of interest to tourists is also collected.

Crews Prospecting

A crew of 15 persons including one foreman has been prospecting for limestone in Pulaski and Saline counties since January of this year. Up to the present time 50 holes have been drilled and beds of limestone which cover several square miles in the vicinity of Alexander, Collegeville and Mablevale have been locat-

At the present time a topographic mapping project is being carried on in eastern Arkansas. About 400 square miles in Lonoke and Prairie counties have been mapped and one quadrangle, the England quadrangle, containing 250 square miles, has been completed and is now being prepared for publication. A second quadrangle of similar size, the Lonoke quadrangle, is about 2/3 completed.

It is interesting to note that no systematic program for the completion of the topographic mapping of the unmapped area in Arkansas now exists due to lack of funds for that purpose. By GEORGE C. BRANNER A. four important field projects It is estimated that of the total area 18,328 square miles or 34.3 per cent is adequately mapped; 20,689 square miles or 38.7 per cent is inadequately mapped and 14,318 square miles or 27 per cent is totally unmapped.

In addition to sponsoring the W. P. A. projects described above, the Arkansas Geological Survey is cooperating with the U. S. Geological Survey in its stream measurement program

Future Studies

Future studies on the following minerals are much in demand: Clays, manganese carbonate ores, petroleum in the deep producing horizons, lignite, oil shales, building stones, mineral waters, tripoli, phosphatebearing rocks, brines, sand and gravel, fullers earth and bentonite, limestone suitable for rock wool manufacture, greensand, cinnabar, rutile, antimony ore, iron ore.

In view of the fact that only The State Mineral Survey was 27 per cent of the state is not mapped, it seems highly advisable that a systematic program for the mapping of the unmapped areas cooperatively with the U. S. Geological Survey on a 50-50 basis be followed. An appropriation of \$15,000 per year would permit the cooperative mapping of all unmapped areas in about 17 years. Funds are also needed to the increase in contributions to the cooperative stream measurement program.

Gazette Onlist.

Dr. W. T. Thom Jr., Blair professor of geology at Princeton University, where he is in charge of structural



geology and coal and oil geology in that department, has been in Little Rock the past few days gathering available recent information that sheds light on the depth and con-tours of the basement complex of south Arkansas. Which means that

000,000 and 1,000,000,000 years ago. On that basement, as it is known geologic-ally, was deposited in much later years the accumulation of sediments which are now producing oil. Dr. Thom compiles his figures from data secured from state offices and from the actual drillng experiences and findings of oil companies. Each bit adds to the general ation-wide report which Dr. Thom and is associates will present at the 1989 ting of the International Geophysial Union. He is chairman of a com-nittee of the American Geophysical nion which will offer the meeting an approved and more comprehensive model of the basement surface, based on a similar model which Dr. Thom took to the last meeting of the Union at Edinburgh, Scotland, in 1936.

Dr. Thom, who prior to joining the faculty of Princeton University had several years as head of the Oil, Gas and Coal Division of the United States Geological Surcey, is the guest here of McCombs Hardy, 2400 Broadway, who came home from Tennessee for the duration of Dr. Thom's visit, Mr. Hardy, who graduated last June at Princeton, where he had several courses under the professor, accompanied him earlier in professor, accompanied him earlier in the summer on a tour of Wyoming, Kansas, Texas and Oklahoma, when they did the same sort of work that Dr. Thom is doing here. Dr. Thom commended Dr. George C. Branner, state geologist, for the general efficiency of his office and his assistance in this study. Dr. Branner is a member of Dr. Thom's committee. Dr. Thom's committee.

cialist said that the world's supply said that although the more obvious dissupply will increase under more elaborate geological and geophysical meth-ods and improved drilling, and will be stretched because of less wasteful re-

Ore in Bald Knob Area As Yet Unclassified

Bald know of the Chetton, in draining an old pond on his farm near Bald Knob, dug up a quantity of a strange looking rock which neither he nor any of his friends could classify, but which persons who claim to know, declared was radium-bearing ore. The ore is of a light gray color, heavily impregnated with a bright, silvery metal. It is extremely hard and all attempts to melt it have failed. The lode seems to be located in a comparatively small area, but extends deeply into the ground. Samples will be sent to the state geologist for an authoritative test. Meanwhile there is much speculation as to what the rock really is. Bald Rhot Pemocshaton, in to what the rock really is.

COUNTY HAS SIXTH PLACE IN VALUE OF To the Editor of The Gazette: We have a statute requirement of the gazette of the Gazette. MINERALS PRODUCED be repealed or complied with. In its present form it only serves to work a hardship on the honest owner of min-

thin beds of limestone.

The exposed rock in the highland area consists of sandstones, quartzites, shales, slates and novaculities and are consistently folded. Igneous rock are exposed in the Fourche mountain area.

Sixth in Mineral Value. The county ranked sixth in the value of all minerals produced from 1923 through 1935, being exceeded only by the oil, coal or bauxite producing counties of Union, Ouachita, Sebastian, Saline and Johnson. In that period, the minerals produced in the county were non-metallic except a portion of the

Value of the minerals produced during the 15-year period was \$11,361,618.74, of which the bauxite produced amounted to \$5,018,935.76, or 44 per cent of the total value. More than 800,-000 long tons of bauxite were produced.

Other minerals produced and their value in the same period: Sandstone, 3-158.031 short tons, \$3,484,425; clay (brick). 173,426 thousand, \$2,022,396; sand, 1.046.500 cubic yards, \$334.172; gravel, 1,346 cubic yards, \$1,043; Fuller's earth, 61 short tons, \$645.

Arkansas in 1937 supplied 95.7 per cent of the total production of bauxite in the United States. Pulaski county produced an estimated 23.4 per cent of the state supply. The deposits in the

the state supply. The deposits in the county are located southeast of Little Rock and northeast, south and south-west of Fourche or Granite mountain. The reserves in Pulaski county have been estimated at 1,600,000 long tons. Bedded sandstone, the harder variety

of which is known as quartzite, is found throughout the highland section of the county. Some of the beds are undeveloped for commercial purposes. The same is true of several other mineral

Huge Clay Supply.

The reserves of clay for commercial purposes are "practically unlimited." From 1923 through 1930, the Arkansas Brick and Tile Company and the Acme Brick Company produced 438,565 short tons of clay for the manufacture of

eyenite, novaculite and peat.

Copper, Silver, Lead. Copper ores found near Ferndale have been mined but the venture proved unprofitable. Iron and manganese de-posits also have been investigated, but the ores were either in too small quartity or of too poor quality to be of

The Kellogg mine north of Little

Would Repeal or Enforce Law On Mineral Rights,

We have a statute requiring that minerals separated from the fee title are subject to taxation. This law should

STATE SOIL VALUES TRACED TO WEATHER OF MANY EONS AGO

geological origins. The groups are:
1. Arkansas river valley soils, including
2. are limited to one estimates.

all those derived wholly or partially from materials collected and deposited by the Arkansas river.

The Coastal Plains soils, derived from materials transported and deposited beneath the sea and subsequently ex-

The Fourche mountain soils, developed by the weathering of sandstone isolated areas.

Many individual soils differ widely cation.

even though all of them originated from Eleve the same geological materials. The difference has been caused by changes that occurred very slowly over many

The corn yields, based on statements proper use of land."

Keorganization to its final stage of conference with the House after more than two Battle Is Over: Was It Sham?

Christian Science

Senate action paves way for speedy agreement; efficiency, not economy

is major aim.

March 24, 1939 By a Staff Correspondent of The Christian Science Monitor WASHINGTON, March 24 -Passed by the Senate 63 to 23, the

In addition to nitrogen and phossoil types are found distributed in large consolidated areas or scattered in small

Types Located.

Slightly more than one-third (34.2) per cent; electric refrigerators at whole-post of the weathering of slates, shales and sandstones in place.

The Granite mountain soils, developed by the weathering of igneous rocks in place.

Soils Are Rated.

Types Located.

Slightly more than one-third (34.2) per cent; electric refrigerators at whole-per cent; electric refr

cation.

Eleven per cent of the rural area is in the Coastal Plains classification, where slopes range up to eight per cent.

Wost of the remainder is in the Fourche. where slopes range up to eight per cent. Most of the remainder is in the Fourche

Federal reorganization bill now goes years of political controversy. Action practically completes one of the most extraordinary chapters of the New Deal. The measure has already passed the House and quick settle-ment of minor differences in conference is anticipated.

As now passed it finally gives President Roosevelt for the remainder of his second term, the following authority:

1. To transfer, consolidate and abolish boards, bureaus, commissions, and other agencies of the Government, apart from 21 such agencies which have been specifi-

cally exempted.

2. To name six administrative assistants, who are supposed to

ARKANSAS'S ECONOMIC DEVELOPMENT IN 1938 ANALYZED BY MILAM

pers and read by our legislators, public spirited citizens and property owners who have the influence to bring about the corrections as set forth herein John R. Riley.

Labor income was maintained at high levels in 1938. Manufacturing wages are estimated at \$30,000,000 compared with estimated at \$30,000,000 in 1937. Most of the decline \$31,000,000 in 1937. Most of the decline in income in 1938 was due to the defining income in 1938 was due to the decline in income in 1938 was due to

ers, 21 per cent.
Sales measured in physical units in-

phorous content and acidity reaction, which cause the difference in fertility, two other factors must be considered.

Sales measured in physical difference in fertility, creases occurred in sales of goods, gasoline, telephones and electric power. The following declines were recorded: Cigar-They are steepness of slope on each following declines were recorded: Clgar-field and the extent to which individual ettes, three per cent; Hot Spring baths, ettes, three per cent; Hot Spring baths, six per cent; life insurance, 13 per cent;

Types Located.
Slightly more than one-third (34.2) cent; electric refrigerators at whole-

Fuller's Earth.

The first discovery of Fuller's earth in the United States was made in 1891 near Alexander in southeastern Pulastic Ceological Survey records show. Many of the Wilcos and Midway clays can be used successfully for bleaching oils, faty, waxes and soaps. No attempt has been made to test the clays systematically.

A 1934 test showed the Fuller's earth found in the county to be the equal of standard English product to the equal of the english product to the equal of standard English product to the equal of standard English product to the equal of the english product to the english product to the peak in the english product to the peak in 1930.

Were only 10 per cent of the peak in 1930.

Appreciable declines occurred in production in most non-manufacturing that are most active in the engine production which increased the end of each, acreage distribution and location of each, acrea Geological Survey records show. Many of the Wilcos and Midway clays can be used successfully for bleaching oils, fat; waxes and soeps. No attempt has been made to test the clays systematically.

A 1934 test showed the Fuller's earth found in the county to be the equal of standard English production for clarification of cottonseed oil. There is a large deposit 10 miles south of Little Rock on the Arch street pike at the home of T. P. Brooks.

Minerals which exist in Pulaski county, but have been economically produced to a very small degree or not at all are copper, iron, manganese, zinc, lead, bentonite, limestone, slate, nephelite evenite, novaculite and peat.

A read of the Mileos and Midway clays can be used successfully for bleaching oils, fat; waxes and soeps. No attempt has been made to test the clays systematically.

A 1934 test showed the Fuller's earth found in the county that should be discussed in another than the county that the problem of proper agricultural utilization will be discussed in another than the problem of proper agricultural utilization of cottonseed oil. There is a large deposit 10 miles south of Little Rock on the Arch street pike at the home of T. P. Brooks.

Minerals which exist in Pulaski county, but have been economically produced to a very small degree or not at all are copper, iron, manganese, zinc, lead, bentonite, limestone, slate, nephelite evenite, novaculite and peat.

Corn Ratings Estimated.

Corn Ratings Estimated.

The corn vields, based on statements of the Wilco and the total the maximum is more than on soil and slope characteristics.

It is the great variety of soil conditions of soil condition of ifficult to solve. Land toons found within the county that to generally declined. Cotton production of 1937 to 262,700,000 in 1937 to 262,700,000 i

Powers of President

At the last minute the Administration accepted the O'Mahoney amendment which specifies that the President may not abolish "func-tions" of agencies though he may end the agencies. In other words the function may be transferred but must be preserved.

With all its concessions, the modified bill just squeaked through the Senate in what is felt to be a practical form. The restrictive Wheeler amendment was finally defeated by only a two-vote majority. The amendment would have blocked any presidential program not affirmatively approved by both Houses of Congress. It gave either chamber a pocket veto. As the bill now stands Congress still has a veto, but both Houses must agree to pass a resolution of disapproval within 60 days

The last scene on the Senate floor

cline in business profits and professional incomes. Total spending, measured by bank field monthly production increased from debits of reporting banks, declined from 246,000 barrels in January to a peak of 728,000 barrels in September but design per cent. The decrease in total clined to 550,000 barrels in December 101 between 102 barrels in December 102 barrels in December 103 barrels in Dec spending corresponded closely with the decline in income, but there was much shifting in spending for various purposes. The United States Department of Commerce reports that total dollar retail sales declined slightly over six percent. Changes in spending in various 29,000 barrels in December in December as the result of proration. The Buckner field increased from a production of 13,000 barrels in January to 40,000 barrels in December relatively as the result of proration. The Buckner is in December as the result of proration. The Buckner is in December as the result of proration. The Buckner is in December as the result of proration. The Buckner is in December as the result of proration. The Buckner is in December as the result of proration. The Buckner is in December as the result of proration. The Buckner is in December as the result of proration. The Buckner is in December as the result of proration. The Buckner is in December as the result of proration. The Buckner is in December as the result of proration. The Buckner is in December as the result of proration. The Buckner is the result of proration. The Buckner is the result of proration. The Buckner is the result of proration as the result of proration. The Buckner is the result of proration as the result of proration. The Buckner is the result of proration as the result of proration. The Buckner is the result of proration as the result of proration as the result of proration. The Buckner is the result of proration as the re the year were producing at the rate of 39,000 barrels in the month of December, A total of 207 producing wells were (One of a series of articles on information contained in the preliminary report of the Pulaski County Planning Board.)

Although there are 59 different kinds of soil in Pulaski county, they can be classed in five groups having common geological origins. The groups are:

1. Arkansas river valley soils including the presence of the river valley soils and based in five groups are:

1. Arkansas river valley soils including the rate of 39,000 barrels in the month of Decement. Changes in spending in various bines from 1937 to 1938 are as follows: lines from 1937 to average of 14,500,000 barrels.

Several developments occurred in the political field that were of interest to business concerns in Arkansas. Consti-

tutional amendments were adopted providing for a special tax inducement for new passengers automobiles, 38 per business expansion and for a workmen's compensation act. The federal wage-hour law became effective. The initial disturbances from the law were relatively mild. However, more serious disturbances may arise if the step-up provisions regarding hourly wages are strictly applied in future years. It is contended by many that it will slow down the rate of expansion of manufacturing in Arkansas and thus retard the transfer of the low-paid agricultural population to the relatively high-paid manufacturing jobs. Others claim that Despite considerable recession in profits in 1938, failures remained at a profits in 1948, failures remained at a able to secure jobs in manufacturing relatively low level. Liabilities of bank-will enable these workers to increase thousands of years, so that color, texture of size of particles, acidity and relative fertility vary greatly. Local variations in the rate of change are caused by differences in temperature, rainfall, sunshine and steepness of the remainder is in the routine for agricultural purposes on about 50 per cent of the area of the two classifications.

Despite considerable recession in mountain and Ouachita hills classifications where the slopes are steeper. With proper erosion control, however, slope conditions probably would be suitable for agricultural purposes on about 50 per cent of the area of the two classifications.

Despite considerable recession in mountain and Ouachita hills classifications where the slopes are steeper. With proper erosion control, however, slope conditions probably would be suitable for agricultural purposes on about 50 per cent of the area of the two classifications.

at a relatively high level caused exports from August 1 to February 1 to drop to 2,198,285 bales from 3,832,247 bales during the corresponding period last season. With the exception of the war period in 1917, this is the lowest level since 1885. However, the increased consumption of foreign cotton at the expense of American cotton by reducing the foreign surplus to a low point will soon result in an increase in cotton exports. It seems unlikely, however, that there will be a sufficient improvement in the de-mand situation to more than offset the prospective decline in government pay-

how the earlier measure kept th ether waves tingling with passionate

Slapped on Back

Senator Burton K. Wheeler (D) of Montana, who had warned the bill might tend to "dictatorship" without his amendment jecosely slapped the rival leader, Alben W MINERAL SPRODUCED

present form it only serves to work a hardship on the honest owner of mineral pipe.

Gezette – Feb. 5—29

One of a series of articles on information contained in the preliminary report of the Pullacki County Planning Board.

MINERAL RESOURCES.

The presence in the preliminary report of the Pullacki County Planning Board.

The resonance in Pullacki County and its repossable in the mine. In 1927 there were a severance tax is everance tax is equilable tax.

Here is a support of the pullacki County and its presence in the mine. In 1927 there were a severance tax is equilable tax.

However, if the law is not repeated in the county. The three rock groups are:

1. Unconsolidated, relatively young sedimentary rocks.

2. Consolidated, relatively young sedimentary rocks.

3. Ignous rocks, or those formed by action of heat within the earth. Pullacki county is divided into a lower was a site to the owners at a unminial value found in the set on the present of the law was believed sliver within the earth. Pullacki county is divided into a lower season of the lead sulphide of Alphorotion and a highland portion, and a Barkley (D) of Kentucky, on the back. Writers who had interpreted the fight as largely a sham battle

Segment of Meteorite Found In compared with 50 and \$5,963,756. Independence County.

Special to the Gazette. 3-4-39
Batesville, March 3.—William Rinehart, who has charge of the state mineral survey in Independence county, said that among interesting discoveries is a specimen of a metallic meteorite, weighing 20 pounds, found on Clyde Lesley's farm, eight miles north of Batesville. It was sent to the Field museum which commented: "It is a very beautiful specimen." It is comvery beautiful specimen." It is composed of iron, nickel and other elements, and is so hard that a piece cannot be chipped from it with a cold chisel.

Mr. Rinehart, treed the

tion he can get, it is a piece of a meteorite which fell on the Joe Wright mountain, six miles south of Paterials. Mr. Rinehart traced the source of the

Recent reports from the Department of Chemistry, University of Wisconsin, show that Arkansas has a result of Arkansas show that Arkansas has a new metal known as rhenium. It is an element discovered in Germ by about 10 years ago, and is very rare. It seems to occur with manganese and iron. Several months ago, Mr. Rinehart sent specimens of manganese, maganiferous ore, iron ore and clay to the University of Wisconsin for analysis. He recently received its report. One sample carried one part rhenium in twenty millions; another one part rhenium in ten millions, and a sample sent from Cushman, one part rhenium in four millions. is said that the richest ore carrying this mineral has been found in Norway. It carries two parts rhenium to one million. No general use has been found for it. Germany produces about 100 pounds a year, which is sold to laboratories. It belongs to the iron family, and melts at 6,000 degrees F. If found in sufficient quantities it might be sufficient as a filament for light bulbs.

Mineral Production in Southern 160 Geologists Visit Glenwood States Has Doubled.

Production of minerals in 16 Southern states has doubled since 1905, Dr. George C. Branner, state gelologist,

The Arkansas authority discovered the significant increase while com-piling data for use in a survey of Southern minerals requested by the Manufacturers' Record, industrial mag-

Virginia, with their oil, and West Virginia, with its great coal mines, led the states in production. Although 99.9 per cent of the patients leave to the patients beautiful t per cent of the nation's bauxite which aluminum is processed which aluminum is processed) was mined in Arkansas, the state placed tenth in value of total minerals pro-

Production Of State Industry On Increase

4-13-39

Arkansas's 1,048 industrial establishments with annual production valued at more than \$5,000 each, produced \$164,more than \$5,000 each, produced \$164,-673,277 in manufactured products in ber of Commerce, which arranged the 1937 as compared with 1,066 plants producing \$119,340,868 in 1935, a report of the Bureau of Census released here yesterday disclosed.

The report said wages paid by the opening session. industries totaled \$24,734,112 and went to 37,280 employes in 1937, compared to \$17,327,951 paid to 29,076 employes

ber of plants, employes and total wages.

The industry manufactured \$35,963,098

He cited the four regional research The industry manufactured \$35,963,098 worth of products in 1937 in 290 estab-

Next came the furniture industry, ment is gaining momentum. payroll of \$1,434,842. Its products were valued at \$6,827,435. The cottonseed, noon easier. which employed 1,962 workers with a cake and meal industry employed 1,318 workers, had a payroll of \$771,744 and produced \$16.643,725 worth of

Leading Counties Listed.

Seven Arkansas counties had manufacturers in 1937 producing more than \$5,000,000, including

Pulaski, 139 establishments producing \$29,720,980 compared with \$24,272,573

Sebastian, 77 producing \$18,744,903 compared with 78 and \$12,446,077 in

Union, 37 producing \$17,942,868 compared with 39 and \$13,408,678 in 1935. Ouachita, 25 producing \$10,053,516
The "pure line and hybridization compared with 30 and \$8,564,764 in 1935."
method" of cotton breeding, adopted Phillips, 22 producing \$7,765,922 compared with 25 and \$7,107,806 in 1935.

Arkansas, 19 producing \$5,873,465 compared with 22 and \$5,097,279.

City Production.

The leading cites were:
Little Rock, 112 producing \$19,757,909.

vey, in his study of outcropping of the upper and lower cretaceous period and its relation to the oil and gas fields of panies have indicated intentions of of telephone lines.

Fruit Possibilities Discussed.

Two large California canning comcreased to 84 towers and 3,600 miles its relation to the oil and gas fields of panies have indicated intentions of of telephone lines.

Five million acres of forest land have

ological Survey, composed of geologists scribed probation Texas, Oklahoma, Kansas, Louisithe laboratory ana and Washington, D. C., stopped here late this afternoon on a tour of Arkansas. The party was traveling in five buses. They planned to spend the night

5-3939

Permanent solution for agricultural ills lies in the test tubes of research workers, Dr. Harry E. Barnard, research director of the National Farm Chemurdiffector of the National Farm Chemur-gic Council, told Arkansas farmers, agri-cultural workers and business men at the opening of a two-day chemurgic conference at the Hotel Marion yester-

When the research workers begin looking for new uses for agricultural products, they find them," Dr. Barnard said. "To the man intent on making discoveries, nothing is impossible."

Grover T. Owens, Little Rock lawyer.

Science and Industry, presided at the

Sees Hope for Agriculture. 37,280 employes in 1937, compared \$11,327,951 paid to 29,076 employes 1935.

The lumber industry led in the num
Sees Hope for Agriculture.

Because of a growing recognition of agricultural products as a "source of chemical raw materials," agriculture "is the lumber industry led in the num-

lishments employing 17,322 workers with as evidence that the chemurgic move-

Agricultural Work Described.

Livestock Improvement Told. Disease control and better breeding programs during the past 10 years have eliminated largely the "hit and mis production of livestock, M. W. Muldrow, animal husbandman, Agricultural Extension Service, said at the luncheon presided over by C. C. Randall, assistant director of the Extension Service.

An annual income to Arkansas farmers of from \$30,000,000 to \$35,000,000 from poultry is possible by improved industry by about 30 per cent or 2.500.-000 hens, S. A. Moore, extension poultryman, University of Arkansas College of Agriculture said.

Jefferson, 42 producing \$6.746,831 ompared with 50 and \$5,963,756.

Arkansas, 19 producing \$5.873,465 ompared with 22 and \$5,097,279.

City Production.

Arkansas College of Agriculture, has tion withdraws insurance on its deposits produced three varieties best suited for under Act 10 of 1939.

Corporation Commission.

Department of Thomas Fitzhugh Utility rates reduction. cation preparatory for release to farm-bring about equalization of tax assess-ers. Aided in multiple-us

Mineral Industry Described.

Development of the mineral industry
which in 1929 paid 7,391 workers wages the state with \$45,000 of state funds totaling \$7,563,000, is dependent on and federal aid. economic elements determining the extent to which mineral products can be last six months. produced in the South, such as supply demand, transportation costs, competi-demand, transportation costs, taxes and service an

tion, credit, insurance rates, taxes and restrictive laws, it was said by Dr George C. Branner, state geologist.

Tax income to Arkansas governmenta units from 1922 to 1931 was about \$19,000,000, of which the oil industry \$100,000 from the state, \$51,500 from paid about 90 per cent, "a remarkable for of the United States Geologic Survey, in his study of outcropping of the total part of the United States Geologic Survey, in his study of outcropping of the total part of the United States Geologic Survey, in his study of outcropping of the total part of the United States Geologic Survey, in his study of outcropping of the total part of the United States Geologic Survey, in his study of outcropping of the total part of the United States Geologic Survey, in his study of outcropping of the total part of the States, \$38,720 from the federal government and \$48,520 from private contributions in January, 1937, have intributions in January, 1937, have intribution

its relation to the oil and gas fields of Louisiana, it was said here tonight after 165 geologists, guests of the Shreveport Geological Society, arrived for a night's stop. Dr. Stephenson is assisted by Dr. W. H. Monroe, a member of the survey.

Also with the party are Henry A. Ley, San Antonio, president of the American Petroleum Institute, and Dr. E. Floyd Miller, Tulsa, secretary-treasurer of the organization.

Accompanying the geologists is Leo.

E. H. Sayle of Little Rock described proceeds of licenses, quick-freezing plants. William Johnson, Little Rock newspaperman spoke Dr. George C. Branner, state geoon Tour of State.

On Tour of State.

6-3-39

Special to the Gazette.

Glenwood, June 2.—One hundred sixty members of the Shreveport Geological Survey, composed of geologists from Texas, Oklahoma, Kansas Louisia from Texas, Oklahoma,

the laboratory.

Laboratory for testing minerals, water

Today's Program.

Louis J. Tabor, national master of the Grange, and R. W. Blackburn, national secretary of the Farm Bureau Federation, will make addresses today.

Mr. Tabor will speak at 11:20 a. m. Lonoke quadrangles, 250 square miles the highest point between palachians and the Rockies.

Folks near Paris in we kansas who have boasted for years, simply because thought to contradict the startled yesterday when Lonoke quadrangles, 250 square miles took a squint at Rich mote and the Rockies.

The South was producing 16.7 per cent of the nation's minerals in 1905. Largely through the discovery of vast oil and natural gas fields, the percentage had soared to 32.4 in 1926, Dr. Branner said.

Branner said.

The value of pertoleum sold in the 21-year period was placed at \$5,968,-217,639,300. Texas and 239,000; coal, \$3,170,000, and natural gas, \$2,217,639,300. Texas and continue to Mena and De Queen tomorrow. Henry A. Lay of San Antonio, Tex., said the party is 100 per cent for "Jack" Garner for president.

Today's program will include addresses by Henry Bull of the National Forestry Research Laboratory, New Orleans, La.: H. K. Thatcher, executive director of the Arkansas Agricultural and Industrial Commission; W. L. Lear, assistant state forester; George Pecaro of Memphis, Tenn., official of the National Period of Memphis, Tenn., official of the National Processor inaugurated.

Tabor will speak at 11:20 a. m. Lonoke quadrangles, 250 square miles Mr. Blackburn at 2 p. m.

Leflore county, Oklahoma, and intimate act.

Today's program will include addresses by Henry Bull of the National Forestry Research Laboratory, New Orleans, La.: H. K. Thatcher, executive director of the Arkansas Agricultural and Industrial Commission; W. L. Lear, assistant state forester; George Pecaro of Memphis, Tenn., official of the National Forestry Research Laboratory, New Orleans, La.: H. K. Thatcher, executive director of the Arkansas Agricultural and Industrial Commission; W. L. Lear, assistant state forester; George Pecaro of Memphis, Tenn., official of the National Forestry Research Laboratory, New Orleans, La.: H. K. Thatcher, executive director of the Arkansas Agricultural and Industrial Commission; W. L. Lear, assistant state forester; George Pecaro of Memphis, Tenn., official of the National Forestry Research Laboratory, New Orleans, La.: H. K. Thatcher, executive director of the Arkansas Agricultural and Industrial Commission; W. L. Lear, assistant state forester; George Pecaro of Memphis, Tenn., official of the Nationa assistant State forester, George Federal of Memphis, Tenn., official of the National Gypsum Company; G. H. Banks of Osceola, Jacob Hartz of Stuttgart, E. F. Johnson of St. Louis, Mo., and W. C. Worl Lassiter of Memphis, Tenn., of the Progressive Farmer.

work added.

Laboratory services extended.

Insurance Department,

M. J. Harrison, commissioner.
Ordered the only two fire rate reductions in state's history in 1938 and 1939.
Secured \$1,000,000 in values on poli-

cies of old Home Life Insurance Com-

Averted 10 strikes in last two months.

Funds provided to complete necessary

Improved Camp Joseph T. Robinson. New hangar completed for latest ob-

nine parks, bringing total to 14,939

Attendance increased from 112,000 to

Completed study of water resources

State Police Department

A. G. Albright, superintendent. Increased personnel from 13 to 65;

State Planning Board.

Parks revenue doubled.

World's Fair

supervises parolees.

Military Department.

Daniel B. Byrd, adjutant general.

Convicted 30 persons for arson.

Labor Department.

Ed I. McKinley, commissioner.

time in state's history.

State Departments' Progress Told

Progress of state departments under legislation adopted by the Arkansas legislature in 1937 and 1939 was provided in the form of thumb-nail armories sketches and presented to legislators

who convened in special session Friday.
Each department head prepared a statement of his accomplishments. The pamphlet, was arranged and distributed

Improved Camp Joseph T. Rob New hangar completed for later servation ships.

142nd Field Artillery organized.
Parks Commission.

by the Publicity Commission.
The statements in brief: Agricultural-Industrial Commission

H. K. Thatcher, executive director. Secured passage of constitutional amendment for exemption of state taxes on new industries or expansion of old

Gave material assistance to passage of the workmen's compensation amend-ment and the amendment which gave the Supreme Court the right to regulate sponsored by state agencies.

Co-operated with prospective new in- (published elsewhere in today's Gazette)

Aided the governor's co-ordinating floods an and attempted to eliminate state trade barriers

State Plant Board.

Paul H. Millar, chief inspector — Fraud in the sale of sorghum seed has been checked; pest control operators now are forced to obtain state licenses. State Bank Department.

Jernigan, commissioner. Relieved banks of assessments of

Adopted rules to control pyramiding of bad assets, frozen loans, excessive dividends.

Gave supervision to certain institu-

tions under Act 287 of 1937.

Assumed more rigid authority over "loan sharks" under Act 135 of 1937.

Ready to assume charge of any bank "Distributed 50 pieces advertising litif Federal Deposit Insurance Corpora- erature a week.

State Employment Service.

Twenty-two thousand jobs filled in

Department of Public Utilities.

Act 155 of 1937 caused federal gov- Mr. Henry said the Eli Collins, director.

has paid \$1,049,680.91 in unemployment

Vocational Education Division.

Fred A. Smith, director.
An acute shortage of funds was noted. Majors Act, levying an additional tax on liquor, "probably will not bring in A textbook on natural resources any money for vocational education," of Arkansas for use in the public although \$125,000 annually was appro-

agricultural training has doubled

State Welfare Department.

John R. Thompson, commissioner.

Payments increased from \$3.98 in Pike hotel yesterday.

July, 1936, to \$6.50 a month; Crippled The sub-committee, composed of Children's Division added; 4,502 perstate officials and educators, have

This Mountain Feud Put Up To Geologist

whatever geologists use to measure elevations, in a patriotic endeavor to uphold Mount Magazine's claim as the highest point between the Ap-

Folks near Paris in western Arkansas who have boasted the title for years, simply because no one thought to contradict them, were

Mobile X-ray for tuberculosis control ting himself out on a limb.

Ork added.

Dr. Branner said there is Malarial control service given in rural doubt as to whether either is higher than Blue mountain in Scott and Polk counties. He said he would "re-run" the Magazine and Blue mountain elevations and possibly Rich mountain's for an official decision this summer.

"From information now available," he said, "it would appear the highest point is the west end of Rich mountain in Oklahoma."
7-28-39 Gazette
COURSE TO BE ARRANGED.

a 1939 legislative act, will be discussed H. Tucker of Little Rock. by the Curriculum Committee of the state Department of Education at Fayerteville today. etteville today. M. R. Owens, committee chairman, indicated material pro-Aided 155,000 flood refugees in 1937, late the state's resources will be utilvided by state departments which regu-Nature study probably will be offered in lower grades. A course in conservation may be included in grades seven to 12. Dr. George C. Branner, state geologist, and L. A. Henry, engineer-director of the state Plan-Sam G. Davies, director.

Six thousand and four acres added to ning Board, will attend the conference.

Meet Friday.

L. A. Henry, engineer-director.

Co-ordinated public works projects preparation of a textbook on rkansas's Industrial Commission and Flood Connatural resources for introduction in the trol Commission. public schools in 1940. Addition of the Prepared relief plan in event of lature,

ago, actual work of writing the manuscript will be in charge of the com- lary. mittee appointed yesterday by L. A. Heads of the departments and a Henry, engineer-director of the board, cies will hold monthly meting.

Established radio station, training school, crime detection laboratory, first aid and safety instruction.

Publicity Advisory Commission.

M. C. Blackman, director.

Started official publicity program for Started official publicity program for Started official publicity program for started of the State Started of Started tary; S. C. Dellinger of the University of Arkansas and member of the state of basic research and other subjects Game and Fish commission; H. E. will be discussed later. With aid of Centennial Commission, Thompson, assistant director in charge of the state Agricultural Extension Service; Dr. George C. Branner, state goologist; A. M. Crowell of El Dorado, repre-

National advertising campaign sched- senting the state Board of Conservation; Mrs. H. H. Tucker, Parent-Teacher Associations, Little Rock; S. G. Davies, director of the state Parks Thomas Fitzhugh, chairman.

Utility rates reduced more than \$800,00 in last two years.

Aided in multiple-use development of state Publicity Advisory Commission; state Publicity Advisory Commission: Little Rock, 112 producing \$19,757,909.

High Taxes Denounced.

Fort Smith, 68 producing \$15,210,610.
Pine Bluff, 32 producing \$4,077,131.
El Dorado was third in the list, but its figures were withheld to avoid giving data on individual establishments the survey announced.

High Taxes Denounced.

High Taxes Denounced on the Advisory Commission:

Reassessed public utilities, producing \$10,000 in taxes this ton seed products were denounced by T. year.

Let the way in fighting for elimination program, including lowest wholesale rate from a private utility in the nation.

Increased investment in rural lines from \$493,185 before 1937 to \$6,500,000 for 6,770 miles of electric lines.

Value of an article in order to regulate to 50 to 75 per cent of the Southwest.

Unemployment Compensation Division.

The College of Conway; J. E. Bishop, supertification program, including lowest the form a private utility in the nation.

Increased investment in rural lines from \$493,185 before 1937 to \$6,500,000 for 6,770 miles of electric lines.

Unemployment Compensation Division.

Act 155 of 1937 caused federal government to return \$750,000 in pay roll taxes collected in 1936.

Administrative costs of \$464.871.04 Administrative costs of \$464,671.04 seminar is held at Fayetteville in June paid by federal Social Security Board. The book will be at source volume for Since January 25, 1939, the division the preparation of courses in conserva-

Has lowest per document administra- Text on Resources Will Be Published

chools will be published by a state waiting list for home economics and Planning Board committee early next year, it was announced by L. A. Henry, engineer-director of the

Panning Board, following a sub--Clients increased from 17,000 to 27,- committee meeting in charge of

urer of the organization.

Accompanying the geologists is Leo

D. Martin, oil editor of the Times,
Shreveport, formerly connected with
the Hot Springs New Era.

The sub-committee, composed of sons hospitalized.

Eleven game refuges are being operated and two or three others will be established; no tax funds were used;
the department is operated with the department is operated with the state of the sub-committee, composed of sons hospitalized.

Division added; 4,502 persons hospitalized.

Division of Research and Statistics taken seven subjects for inclusion in established; no tax funds were used; the department is operated with the department is operated with the state of the subjects has been assigned to stamp fruit shipments with their and rearing ponds improved.

Division of Research and Statistics taken seven subjects for inclusion in established; no tax funds were used; the department is operated with the department of the control of the subjects of the tees. The sub-committee will meet early next month to plan the narrative for each subject.

Textbook of Natural Resources Approved by Committee.

9-27-39 Gazette
An outline of a textbook on Arkansas's natural resources, required for study in public schools under provisions of a 1939 legislative act, was approved by the state Resources Book Committee yesterday. The text will be written and published in time for study after July 1, 1940. Dr. H. W. Blalock, member of the

state Utilities Commission and man of the committee, said chapters and their authors will be:

Soils—H. E. Thompson, assistant director of the state Agricultural Extension Service, and Dr. H. G. Hotz, dean of the College of Education, University of Arkansas.

Forests—Fred H. Lang, state forester, and D. C. Hastings of Crossett.

Wild Life—Dr. S. C. Dellinger, archaeologist of the University of Arkansas and curator of the university museum, and W. F. Hall, state supervisor of elementary schools.

Minerals — Dr. George C. Branner,

state geologist, Alec Crowell and M. R. Owens, state supervisor of high schools. Water Resources-L. A. Henry, engineer-director of the state Planning Board, and Dr. H. L. Minton of the

Arkansas State Teachers College, Con-Parks and Recreation Davies, director of the state Park Com-mission, and J. E. Bishop.

More labor legislation than at any me in state's history.

Selection of a course in Arkansas's Flora—Dr. Dwight M. Moore of the natural recources, in compliance with University of Arkansas and Mrs. H.

Co-Ordination

Administrative heads of 10 state departments and agencies met with Governor Bailey yesterday and formed the Arkansas Natural Resources Coun-Purpose is to co-ordinate activities of the governmental units to increase their efficiency and to eliminate pos-Eible overlapping effort.

The council is composed of the For-Group to Draft Textbook Will estry Department, Arkansas Geological Survey, Department of Public Utilities, Publicity Advisory Commission, Plan-A committee of state officials and educators will meet Friday to begin Fish Commission, Agricultural and

course was authorized by the 1939 legis-lature. ture, council chairman, H. K. Thatcher, Left in the hands of the state Plan-executive director of the Agricultural Planned state's exhibit at New York at the University of Arkansas two weeks

Vorld's Fair. ning Ecard engineer-director, tary. Department Heads To Meet. Heads of the departments and agen-

first will be in the Utilities Commis-Dr. H. M. Blalock, member of the sion's conference room at 2 p. m. to-

lems of taxation, need for certain

Consclidation In Other States. Officials of the council said Michigan

dealing with state forests, minerals, lands, waters, wildlife and parks have peen consolidated.

ARKANSAS GETS PART IN PLAN TO **SPEED INDUSTRY**

In War Program.

Washington, Sept. 1 (AP).-War Department experts have enlisted the serv-Tennessee, Arkansas and Mississippi for Cinnabar Mines Plan the 24-hour-a-day manufacture of supplies for military forces in the event of any war involving this country.

The plants, together with their wartime quotas, are listed in secret files,

The Tennessee plants would supply the armed forces with tentage, lumber products, uniforms, pontoon equipment, field ranges, shoes, photographic equip-ment, flags, chemicals, ammunition components and ship valves, metal concomponents and snip valves, metal containers, iron and steel products, shelter tents and even gas-proof clothing.

One plant would convert part of its equipment for the manufacture of duck

for the armed forces.

Mississippi plants would produce wood products, textile, combat wagons, tentage and uniforms.

Production Contracts Already Drawn.

The War Department and the enlisted plants have copies of "schedule of production" contracts which would become effective in the event of mobili-zation. Under this program, developed as the aftermath of the World war, War Department officials would notify the plants to proceed with the program

The schedules said in part

"In planning for the mobilization of industry in a national emergency, the War Department has surveyed the manufacturing capacities of your facili-ties and estimates that in such an emergency your company, in addition to any other War Department schedules already accepted, could deliver the fol-

lowing items at the rates indicated.
"The purpose of the communication is to inform you that an emergency production schedule as indicated is proposed for your company and to provide the War Department with assurance that industrial resources adequate to its probable war-time needs are avail-

Effective Functioning Goal of Program.

Maj. Ray M. Hare of the Q. M. C. Allocation Division said that the job of this division was to "appraise the measure the war load they are able to

He and others in the division visited plants in every state of the union to formulate a plan for industry's assumption of its wartime load.

Assistant Secretary Johnson's explanation of the government's industrial mobilization program is "the provision of an adequate, co-ordinated and integrated program of war-time procurement adapted to the American system of government and industry which will function effectively in case of war."

Officials Not Worried About Food Supplies.

No food plants have received alloca-tions and officials apparently have no food products in the country.

In many cases, plants now performing certain commercial functions will convert to other uses to supply government needs.

The case was cited of a plant now manufacturing women's underwear. It would convert part of its equipment to the manufacture of mosquito netting as part of the army's necessary camp equipment.

STATE TO OPEN 17 Plants Would Aid STOREHOUSE OF WAR MATERIALS

Gazette

flask," Unison said.

Many Other War Materials

Manganese, bauxite and cinnabar state,

State Offers Minerals In Event of an Emergency.

Other minerals which might be put kansas Lines. to war uses and the areas where found

Cadmium, used to make paints and dyes, in Marion, Boone, Searcy and

Newton counties.

Copper, in unknown quantities in the
Ozark mountains of northwest Arkan-

Helium, for dirigibles, in minor ratio in western Arkansas gases. Iron ore, probably in minor quantities, in the Ozarks.

Lead, in Newton county.

Petroleum, in Union, Columbia, MilMd., or New York.

Potash sands, for fertilizer purposes,

vern in Hot Spring county Pyrites, used to make sulphuric acid,

ot Spring county.

Titanium, used for processing molten steel, Hot Spring county.
Zinc. in Marion, Searcy, Boone and

New Manganese Deposits In Independence County.

Some of the manganese fields in the north part of the state have been worked more or less regularly for the last half-century. Manganese absorbs the bases in molten masses of iron and other ores. It gives steel ductibility, permitting it to be shaped.

covering several square miles recently was made at the Batesville-Cushman

field in Ind endence county. Discovered in 18 h. Eastern capitalists opened the field eriginals but now most of the owners are Arkansans.

To Aid Drive For Industry

9-27-39 Gzette

Aid of six major railroads operating in the state was pledged by their representatives yesterday to the state Agricultural and Industrial Commission's efforts to bring new industries to Ar-

mission to discuss a program under which each railroad company will furhish the commission services of one in-

equipment for the manufacture of duck decoys to the making of shelter tents for the soldiers.

Arkansas plants would manufacture of the soldiers.

Arkansas plants would manufacture other war materials. Records of Dr. George C. Branner, state geologist war would be to stimulate mining activity in Arkansas. He said sharp uptures, tentage, rubber and lumber products, uniforms and cotton duck and webbing for the armed forces.

Available in Arkansas.

Mining Will Benefit.

Dr. George C. Branner, state geologist war would be to stimulate mining activity in Arkansas. He said sharp uptures the state has deposits of 17 war minerals.

Manganese, bauxite and cinnabar were considered the most important from a military-use standpoint.

Dr. Branner estimated that Independence, Stone and Izard counties had deposits of about 420,000 tons of manganese, used in the manufacture of steel. Most of American bauxite, used in making aluminum, is produced in Saline county.

Antimony, used for hardening lead, is found in Sevier county. Quartz crystal, found in the Ouachita mountain area, is used in the manufacture of binoculars and glass lenses of all kinds.

State.

Agencies Te; resented.

Those attending the meeting included:

J. L. Moss, industrial agent for the Cotton Belt Lines; C. E. Palmer of Texarkana, newspaper publisher and chairman of the state Publicity Advisory Commission and the state Centennial Commission; Nathanie' Dyke Jr., Little Rock and Fort Smith in ustrialist and former chairman of the Agricultural and Industrial agent for the Frisco Lines; J. L. Carlisle, industrial agent for the Missouri Pacific Lines; H. D. Sweeten, general agent for the Frisco Sweeten, general agent for the Frisco Lines; George C. Stohlman, general freight and passenger agent for the the Missouri Pacific, and L. A. Watkins, general agent of the Missouri and Ar-

Treasury Adds Tin to List Of

Strategic War Materials.

10-5-39 Gazette

Washington. Oct. 4 (P).—The Treasury added tin today to the list of strategic war materials under Congress \$100,000,000 authorization for storing defense essentials. It will receive bids November 6 for 200,00 pounds of grade A and 200,000 grade B pig tin to be delivered at Columbus, O., Baltimore, Md. or New York.

Phosphates, for fertilizers, in the WHERE "CO-ORDINATION" IS NEEDED MOST OF ALL

The purpose of forming an Arkan-Hempstead county.

Refractories, for fire brick, near Malsas Natural Resources Council is "to increase efficiency and eliminate "possible overlapping effort" by coordinating the activities of 10 state departments and agencies dealing with such matters as forests, minerals, lands, waters, wild life, parks, taxation and industrial and agricultural expansion. As Governor Bailey points out, these governmental units have problems and functions that are frequently interwoven. This plan to call periodically for discussion and ex next two weeks, Raymond Rebsamen, change of information and views president of the Little Rock Chamber The waterworks official suggested that persons interested in extending a that persons interested in exten state and the people.

imize waste and do away with costly which might be assigned to the camp groups making extensions half of the overlapping. This is the co-ordination of the state pay roll. For a year and a half Arkansas had the machinery for it set up and in increasoverlapping. This is the co-ordination will be determining factors, he said.

chinery for it set up and in increasingly active operation. Then the 1939 and Real Estate Board members with legislature junked it by repealing the state civil service law which the 1937 The move to obtain a permanent army post was renewed on the eve of army post was renewed on the eve of the arrival today of the first of a detachment of approximately 2,500 infantry regulars to be sent here for 90 days of winter training. They will services than for any other single item. Last year, out of total expenditures of slightly more than \$38,000,000 for all purposes, only a little less than \$8,000,000 was spent for salaries and wages. More than \$1 was a pay roll dollar.

There are more than 5,000 names be sent also. on that pay roll. Without personnel Realtors to Attempt dustrial agent on a part-time basis, agreed lack of workmen's compensation law and venue fixing laws was the systematic oversight and control of At earlier conferences at the Chamber 180,000 per month in Greater Little Rock, Another \$30,000 will be spent by the systematic oversight and control of At earlier conferences at the Chamber 190,000 per month in Greater Little Rock, Another \$30,000 will be spent by the systematic oversight and control of At earlier conferences at the Chamber 190,000 per month in Greater Little Rock, Another \$30,000 will be spent by the systematic oversight and control of At earlier conferences at the Chamber 190,000 per month in Greater Little Rock, Another \$30,000 will be spent by the systematic oversight and control of At earlier conferences at the Chamber 190,000 per month in Greater Little Rock, Another \$30,000 will be spent by the systematic oversight and control of At earlier conferences at the Chamber 190,000 per month in Greater Little Rock, Another \$30,000 will be spent by the systematic oversight and control of At earlier conferences at the Chamber 190,000 per month in Greater Little Rock, Another \$30,000 will be spent by the systematic oversight and control of At earlier conferences at the Chamber 190,000 per month in Greater Little Rock, Another \$30,000 will be spent by the systematic oversight and control of At earlier conferences at the Chamber 190,000 per month in Greater Little Rock, Another \$30,000 per month in Greater Little Roc Mass Production.

The colon error of the railroads agreed to send members of their industrial speedy development, of the cinnabar of the cinna time quotas, are listed in secret files, and are signed up for the beginning of immediate production whenever the assistant secretary of war, Louis Johnson, should find it necessary to call for the mobilization of industry.

Officials declined today to reveal the names of the plants having wartime orders but they said 115 industrial concerns in Tennessee, 24 in Mississippi and 17 in Arkansas would go intended to send members of their industrial safes anywhere in the United States sheety development, of the cinnabar to contact definite prospects interesting the united statistics possessed by the state would be solved. Port and county planning boards, agreed to send members of their industrial staffs anywhere in the United States sheety elong the united States and county planning boards, agreed to send members of their industrial staffs anywhere in the United States and county planning boards, agreed to said may be were two employee are draw-and county planning boards, agreed to staff and county planning boards, agreed to staff and county planning boards, agreed to staff anywhere in the United States would be solved. Port The 25,000 acres sought is in gath to contact definite prospects interest. The 25,000 acres sought is in gath to contact definite prospects interest. The 25,000 acres sought is in gath to contact definite prospects interest. The 25,000 acres sought is in gath to contact definite prospects interest. The 25,000 acres sought is in gath to contact definite prospects interest. The 25,000 acres sought is in gath to contact definite prospects interest. The 25,000 acres sought is in gath to contact definite prospects interest. The 25,000 acres sought is in gath to contact definite prospects interest. The 25,000 acres sought is in gath to contact definite prospects interest. The 25,000 acres sought is in gath to contact definite prospects interest. The 25,000 acres sought is ing two contact definite prospects are dead on definite prospects and countries of reverlance of their industrial staffs anywhere i

names of the plants having wartime orders but they said 115 industrial substance in the manufacture of high concerns in Tennessee, 24 in Mississippi and 17 in Arkansas would go into production of wartime supplies on any scheduled "mobilization day," installment of larger production of wartime supplies on any scheduled "mobilization day," and the plants in Arkansas Plants Would Make Variety of Products.

Six of the 17 plants in Arkansas are located in Little Rock. Of the 115 entitled in Tennessee, 15 are at Nashville 10 at Memphis, 17 at Chattanooga and 18 the plants having wartime or a prospecting concerns in Tennessee, 24 in Mississippi and 17 in Arkansas are located in Little Rock. Of the 115 entitled in Tennessee, 15 are at Nashville 10 at Memphis, 17 at Chattanooga and 18 they said 115 industrial substance in the manufacture of high substance in the manufacture of high taked and the railroads on definite among state personnel. Any election may throw hundreds or thousands of such materials but did not appear to employe out, with ruinous effects on consultant engineer for prospecting companies near Murfreesboro.

M. J. Unison, mine superintendent for the Rock Island Lines; suggested an advertising campaign conducted through the state commission or granization, in order that these state jobs may be redistributed on a political of the concentrating of the patronage system to be of such material for the tract. The War Department would be interested in obtaining a one-year lease on the area on the experience with the option of renewal for from one to 10 years, he said. Purchase of the land would require an act of Congress, the efficiency of the state's business suggested an advertising campaign conducted through the state commission of the state and the railroads on defining along the prospecting on the experience of the state and the railroads on defining along the prospecting on the expension of the state and the railroads on defining and t arkansas."

Arkansas."

Arkansas."

Major companies in this field already have received orders for all the mercury they can produce and the price jumped from \$82.50 during the latter part of August to \$110 per 70-pound (last." Lipison, said.

Arkansas."

Arkansas."

Fences or property would not be mand certain sections of farms coul of the chief sources in the matural resources of Arkansas are beginning to receive national attention." He said empart of August to \$110 per 70-pound (last." Lipison, said.

Governor Bailey And (last." The Arkansas government." The Arkansas government."

A state that is spending \$8,000,000 phasis should be placed on increasing the state's per capita wealth through the location of industrial plants here of the people's money annually in so the location of industrial plants here. unbusinesslike way has some basic co-ordinating to do.

its agricultural and industrial opportunities, the Arkansas Natural Re-sources Council decided yesterday to lands.

tunities, the Arkansas Natural Resources Council decided yesterday to sponsor a series of showings of several state-produced movie films.

Foremost of these films is "Life in Arkansas," which has been shown at the Arkansas exhibit at the New York World's Fair.

The council is considering publishing a quarterly pamphlet listing attractions and general events in the state during the ensuing three months. These probbably would include such events as county fairs, reports on hunting and fishing conditions, sporting events and meetings of general public interest.

Dr. George C. Branner, state geologist, was named chairman. Thomas Fitzhugh, Publicity Director M. C. Blackman and Planning Board Engineer-director L. A. Henry were named members of a committee to draw up a statement of the council's policy for consideration at a meeting November 6 at the capitol. Meetings will be held the first Monday of each month.

Vent possible speculation in tax-title lands.

Other officials said the Missouri Pacific Lines, owners of about 2,200 acres in the area, had agreed to lease the acreage at "nominal" prices.

Amount of land owned by the state was not determinable yesterday. L. A. Henry, state Planning Board engineer-director, said that many scattered tracts were affected. Data possessed by the board will be given to the Little Rock Real Estate Board members.

Mr. Rebsamen told the Army Mess and other civic groups might be asked for volunteers. Progress reports and maps will be compiled daily after realtors actually begin work.

Floyd Barry, president of the Real Estate Board, said his board would meet in special session today with representatives of other agencies.

troleum, in Union, Columbia, Mil-Nevada, Ouachita and Lafayette Gazette 10-20-39 POST HINGES ON TWO ESSENTIALS THE and other Chamber officials, Commissioner Dan M. Boone and gineer Marion L. Crist of the nicipal Water Department said

Gazette

More Acreage And quate soon. Water Necessary.

their administrative heads together inson will be determined within the guarantee a certain consumption for a sufficient number of years to justify City Club last night.

But there is a co-ordination of a Ability of Little Rock civic groups in financing the project.

broader character—as broad as the to lease 25,000 additional acres for the entire state government - which is camp and to guarantee an adequate would agree to refund to persons or needed to increase efficiency, min- water supply for the number of troops

the railroad representatives, meeting with H. K. Thatcher, executive director, and several members of the commission to discuss a program under was a pay roll dollar.

less than \$8,000,000 was spent for 2,000 more would be sent in January if the facilities required for that number Colonel Dailey Hopes of men could be guaranteed. A tank Problems Can Be Solve company from Fort Snelling, Minn., may

Citizens Act Promptly.

Immediate action followed the officers' announcement that the army was unbusinesslike way has some basic co-ordinating to do.

Resources Council Will Sponsor

Resources Council Will Sponsor

Series of Mayies 31-39
Gazette
Governor Balley Issued a proclamation transferring all state-owned land in the proposed bloc to the state Forsteeking to acquaint residents of the state with its recreational facilities and state with its recreational facilities and that it be leased to the War Department. The action was designed to pro-

If Pipeline Can Be Financed.

One objection recently raised by army officers to a large army concentration at the camp was that the water

supply is inadequate.

All the water necessary is available if a pipeline can be built to carry it to the camp, Mr. Rebsamen said, re-ferring to the Little Rock water supply. nicipal Water Department said water facilities need not stand in the way of

Colonel Herman said a survey showed the present water supply is inade-quate for the 3,000 troops expected

An official of the Little Rock Municipal Water Works said that while the Board of Water Works Commissioners had no way of financing the building of a pipeline to Camp Jo-seph T. Robinson arrangements probably could be made to obtain funds for Whether a regular army post will building a pipeline to south boundaries be established at Camp Joseph T. Rob- of the camp if the government would

work of all for the benefit of the Army Mess, meeting at the Woman's pipe line from Little Rock to the camp might take advantage of the waterworks' regular pipe line extension plan

A tank Problems Can Be Solved.

Colonel Dailey estimated the soldiers already assigned to the camp for winter training would spend approximately \$90,000 per month in Greater Little

CAMP ASSURED OF SUFFICIENT

Business Men Give Guarantee.

An adequate water supply will be fur- Identical Leases Will nished for Camp Robinson should the Be Offered Property Owners. War Department decide to establish a Identical leases will be drawn up by Department officials yeterday.

nanimously to notify the federal government that a 16-inch pipestructed if the World war training site should be assured that all leases were were designated as a permanent army on the same terms.

to have the site selected as a perma- land, Mr. Henry said. nent army concentration point. Army officers have pronounced the present water supply inadequate. The decision was preparatory to conferences scheduled for today with Brig. Gen. Percy Bishop, commanding officer of the Seventh Corps Area. General Bishop with arrive this morning, will inspect the Camp Robinson area in the afternoon, and then confer with Governor Bailey and the group of business men.

Mayor Tells of Indication Camp Will Be Permanent.

The group of business leaders adopted a resolution directing Mayor Satterfield and Raymond Rebsamen, Chamber of Commerce president, to notify the War Department the pipeline would be built upon request. The mayor and Mr. Rebsamen were instructed to notify the department that action to provide a temporary water supply already had

Mayor Satterfield said he learned while in Washington recently that Congress changed the designation of the camp to fort and that he was told that this indicated the army considered this an indicated the army considered this an indication that the camp would be permanent

The resolution also included provisions for setting up a Quota Committee to solicit funds to finance construction of the pipeline. That committee may be appointed this afternoon after conferences with General Bishop. Chamber of Commerce officials also will notify federal officials of the appointment of such a committee immediately.

Officials attending the meeting said

of the army would assure that 5,500 regulars will be stationed at the camp in January.

Under the present assignments the pay roll will be approximately \$1,980. 000 annually, he said. Should the camp be selected as a permanent division post, with as many as four divisions there, the pay roll amount to about \$12,600,000, he added.

It also was announced at the meeting that Justin Matthews, realtor, had offered 1,000 acres adjoining the camp for use by the trainees without charge for one year, for half the taxes the second year and for all the taxes as ficials of the state and county Planning Boards continued arrangements for leasing about 25,000 acres north of the present camp property. Seventh Corps officers have opened negotiations for lease of approximately that amount of acreage for training purposes.

Three Infantry Companies Arrive During the Day.

Three companies of the Seventeenth Infantry from Fort Crook, Neb., including 286 men and eight officers, reported at the camp early yesterday. Two companies of the Sixteenth In-

fantry are expected late today.

The men at the camp were housed in tents yesterday. Advance detachments are preparing camp for troops who will arrive as rapidly as facilities are provided. National Guard equipment will be replaced with regular army

permanent army post there, Little Rock the state and county Planning Boards civic and business leaders notified War for use by members of the Little Rock Real Etate Board in contacting property owners in the Camp Robinson area, L. Meeting at the Chamber of Commerce

A. Henry, chairman of the state Planning Board, told members of the Real Estate group at the Woman's City Club

Mr. Henry said the identical leases line to cost \$180,000 supplying 3,700,000 would be drawn up following the suggallons of water daily would be congestion of realtors that property owners

Leasing of land in the camp area will The action was a major step in plans not interfere with normal use of the

"If a property owner leases 100 acres to the government and 40 acres is filled with crops, troop movements will not come in contact with the cultivated land. Any actual damage caused by movement of troops through crop-filled acreage will be adjusted by an official

adjustment committee of the camp.
"Leasing of the lands will not require that any family move out of the area. The owner will not be handicapped in any way. If a farmer wishes to expand his cultivation next year or the year after, he may do so as the troop maneuvers will not trespass on ground used for the cultivation of crops," he

V. B. Buckley, engineer-director of the Pulaski County Planning Board, said the county organization is spending all its available time in acquiring names of owners of property adjoining the

Camp Success Gazette-11-3-39 Gen. Bishop, Corps Commander, Here to Survey Training Site.

Success or failure of Camp Rob-inson as a winter training camp for the United States army as shown during the three-month training pe-

of the Arkansas Highway Department will run a stryey from Sylvan Hills to Remount Station today and construction of a 6 1-2 inch temporary pipe line will be rushed.

Present plans call for the construction of a line from Sylvan Hills to Remount Station today and construction of a 6 1-2 inch temporary pipe line will be rushed.

Present plans call for the construction of a line from Sylvan Hills to Remount Station today and construction of a line from Sylvan Hills to Remount Station today and construction of a line from Sylvan Hills to Remount Station today and construction of a line from Sylvan Hills to Remount Station today and construction of a line from Sylvan Hills to Remount Station today and construction of a line from Sylvan Hills to Remount Station today and construction of a line from Sylvan Hills to Remount Station today and construction of a line from Sylvan Hills to Remount Station today and construction of a line from Sylvan Hills to Remount Station today and construction of a line from Sylvan Hills to Remount Station today and construction of a line from Sylvan Hills to Remount Station today and construction of a line from Sylvan Hills to Remount Station today and construction of a line from Sylvan Hills to Remount Station today and construction of a line from Sylvan Hills to Remount Station today and construction of a line from Sylvan Hills to Remount Station today and construction of a line from Sylvan Hills to Remount Station today and construction of a line from Sylvan Hills to Remount Station today and construction of a line from Sylvan Hills to Remount Station today and construction of a line from Sylvan Hills to Remount Station today and construction of a line from Sylvan Hills to Remount Station today and construction of a line from Sylvan Hills to Remount Station today and construction of a line from Sylvan Hills to Remount Station today and construction of a line from Sylvan Hills to Remount Station today and construction of a line from Sylvan Hills to Remount Station today and constructi

and the decision of a group of business men yesterday to underwrite a \$180,000 water line to the camp.

May Await Funds.

General Bishop said the order for winter field training will keep 5,000 troops of the infantry on the move,

here during the past several days that it is possible 5,000 men will be sent here within the next two or three months.

The corps area commander also oiced the opinion during several voiced the opinion during several conferences that the establishment of a permanent post here is contingent on congressional appropria-

of the camp acreage, state and county planning board statistics, and various other data.

General Bishop would give no opinion on the possibilty of cavalry troops being sent here, "until I have couragement from General maners post at Camp Robinstant and the camp Robinst

had an opportunity to digest this material and inspect the camp."

He was to continue his conference with the officers through lunch and inspect Camp Robinson before meeting Governor Bailey at 4 p. m. Officials of the Chamber of Commerce were to meet with him following the conference with Governor Bailey.

Leasing Begins.

Planning Board officials and members of the Little Rock Real Estate Board launched nto the actual leasing of approximately 30,000 acres of land adjoining Camp Robinson this afternoon. Model contracts from the War Department were received here yesterday and copies were made

the entire area should be leased and ready for maneuvers by December 1. General Bishop will leave for Omaha tomorrow, following comple-tion of his survey of Camp Robinson

Hope for Army Assured For Camp Here

Intensive winter training of at least 1,000 cavalrymen at Camp Joseph T. Robinson in addition to approximately 2,000 infantrymen was assured last night when Little Rock business and civic leaders announced a temporary pipeline would be constructed to Remount station to guarantee an adequate

water supply.

Maj. Gen. Percy Bishop, commander

"My survey here today and tomorrow will give me information as
to how many of these troops can
be trained at Camp Robinson."

Other than to point out that the

Chamber of Commerce officials immediately promised General Bishop an
adequate water supply would be available within the next three weeks. Crews
of the Arkansas Highway Department

Announcement last week by Maj.

He expressed appreciation to the contizens of Little Rock for the coperation shown in acquiring the additional 30,000 acres of land the additional 30,000 acres of land water troughs constructed during the World war. The line will connect with

Hill Water District, pledged their co-operation in seeing that Camp Robinson will receive an adequate supply of water.

mount cavalry station until a perman-nent 16-inch pipe line is constructed from Little Rock. Camp Robinson at

Omaha.

The general was met at the Missouri Pacific station by Col. George F. N. Dailey, commander of the 17th Infantry, Fort Crook, Neb.; Lieut. Col. Frederick Herman, corps area engineer, and Col. William H. Smith of the medical corps.

Immediately after the press conference this morning, General Bishop and the staff officers here launched into a study of the information compiled during the past four days. Colonel Dailey and his aides were notified with aerial maps of the camp acreage, state and countries of the little Rock Water Company and Mayor Neely of North Little Rock Water Company and Mayor Neely of No

Little Rock officals received no encouragement from General Bishop had an opportunity to digest this about the establishment of a perm-material and inspect the camp." anent army post at Camp Robinson.

will remain was the consensus. They already had pledged they would underwrite the cost of a 16-inch pipe line from Little Rock to the camp, estimated at \$180,000. They went so fare in their offers that General Bishop repeated time and again "I can't

General Bishop, who is no stranger to Camp Robinson, said he was well pleased with the set-up here. He said the only purpose of his visit to be sure of safety and health of his troops.

The general said he was carrying

out War Department orders for three-months of intensive winter training for troops, and had no idea what orders would be thereafter. He asserted he was forced to conduct the maneuvers "on a shoe-string basis," but would send as many troops here as could be accommodated.

ofifcer, who assisted in surveying the \$10,000.

Two Companies Added To Population of Camp.

Col. George F. N. Dailey, commander of the camp, went ahead with plans to care for 2,000 infantrymen. Two companies of approximately 200 men arrived late yesterday by truck

from Jefferson Barrack, Mo., along with the 14th Brigade Headquarters Company from Fort Snelling, Minn.

Members of the 6th Infantry from Jefferson Barracks and of the 17th Infantry from Fort Crook, Neb., will arrive November 9 or 10. A truck convey which brought in three companies. convoy from Jefferson Barracks will Lewis said.
rest for a day before beginning the Fifteen n

Announcement last week by Maj. Gen. Percy Bishop, Seventh Corps Area

should be in camp by November 15. The Little Rock. All non-commissioned offiencampment will be composed of the cers have been given the privilege of 17th Infantry from Fort Crook, the Sixth Infantry from Jefferson Barracks, Mo., the Seventh Tank Company from Fort Snelling, Minn., and the 14th Infantry Brigade Headquarters Company from Fort Snelling.

deep artesian were, ing 250,000 gallons per day.

"We are short of money to carry out the three-months training already ordered and are wearing out our trucks because we are required to shuttle them back and forth between the several posts and Camp Robinson in the transportation of soldiers and equipment."

General Bishop was accompanied here by Col. Louis Farrell, also of Omaha.

The general was met at the Mistree general was met

range of army training because so many T. Robinson suitable for use as a permanent regular army post. Army with the training progressing to company, battalion, regiment and then brithat the basic data they required had

high-speed maneuvers and co-operation, 25,000-acre area, with its ownership

Work Begun "Once the troops are sent here they will remain" was the consensus. They already had pledged they would train To Camp

chine over the hills from Sylvan Hill and among those now carrying or last night as Little Rock business mer county planning programs Pulask mount station in their campaign for its Planning Board has accomplished permanent army post at Camp Robin with relatively small appropriations

Worth James of the James Construc Arkansas state Planning Board. tion Company said:

"We contracted to turn the water of Camp Robinson had arisen, it might

if army requirements are met.

24 Business Men Subscribe \$10,400.

Gen. Percy Bishop, Seventh Corps Area commander, that 3,200 men would be concentrated at Camp Robinson will not be realized because of inadequate water and southern Faulkner country for use of Potts of Everton. It is being operated

Troops will be moved to the camp in camp yesterday. Many officers have en trucks, Colonel Dailey said, and all gaged rooms and apartments in Greate

gade maneuvers.

The training ordered by the War Department is designed to give the higher command and the troops experience in showing every tract of land in the and valuation, was ready to lay be fore them, as were other maps deal ing with land use, population distribution, details of topography and the location of all roads and streams.

yet been published. Most cities now have planning 11-8-39 boards. The nation's counties have Floodlights guided a trenching ma been less progressive in this matter laid a temporary water main to Re county stands distinguished for what as it worked in co-operation with the

Suppose no question of enlargin

Still further information was avail-

able in the inventory of all property

throughout the county, which has not

within two weeks. That means we'l be asked, what practical value would The machine was trucked here from there have been in the county Plan General Bishop said his conference with public and civic officials had been "very amicable," and expressed his assume was trucked here from the machine was trucked here from th It will be the first long step toward lected, and kept up to date and imsecuring a post of infantry and cavalry mediately available when occasion troops, the vanguard of which has ar arises. This time it happened to be rived ostensibly for three months o the ownership, character and value The temporary water supply to Re of thousands of acres of sparsely mount station will provide for the firs contingent of cavalry which Chambe of Commerce officials believe will be increased to 3,000 men and 4,000 horse if army requirements are met. Next time it might be that a wood working concern needed to know where stands of suitable timber were located, who owned them, and wha Twenty-four business men subscribe highway or railroad facilities would Infantry from Fort Crook, Neb., will arrive November 9 or 10. A truck convoy which brought in three companies promised Monday at a meeting yester from Fort Crook Wednesday left early day. The remainder is expected to be desired and capabilities for certain types of bring another contingent here. The today, Secretary-Manager D. Hodson agriculture; or of locating a new Officials attending the meeting and would meet adequate water supply would meet a substant of the Seventh Corps are a with officer's beginning anything." Dut Greater Little promising anything. Dut Greater Little promising anything." Dut Greater Little promising anything. Dut Greater Little promising anything. Dut Greate Fifteen men pledged \$500 each, sever schoolhouse; or of adjusting count Fifteen men pledged \$500 each, sever promised \$300 and two \$400.

The first carload of six-inch pipe is expected to arrive from Waukegan, Ill. tomorrow. Two additional cars are scheduled to be unloaded by Sunday.

Mr. James will provide skilled work in the field of public matters or in the first carload of six-inch pipe is expected to do the common in advance for any contingency either in the field of public matters or in the field of public matters or in the country's economic development and progress.

with Little Rock associates is operating Other Little Rock business men were concentrating their efforts in another field. Representatives of the Little to build a 50-ton concentrating plant Rock Real Estate Board, accompanied on the property in the spring. The

Present plans call for the construction of a line from Sylvan Hills to Remount, a distance of 1.6 miles. There the line will connect with concrete water troughs constructed during the World war. The line will connect with the main line of the Sylvan Hills-Park

Hill Water Improvement District, which buys water from the North Little Rock Water Company.

J. H. Montgomery, manager of the North Little Rock Water Company, and commissioners of the Sylvan Hills-Park

| De realized because of inadequate water supply at the camp, Colonel Dailey said. The supply will be adequate for nearly 2,000 men, he said.

Warrant Officer Harry Hartley said two wells were in operation at the camp. He said one well will pump 150,000 gallons daily and the second will pump 160,000 gallons. This supply, he said, was more than sufficient for C. M. T. C. and National Guard encampments held at Camp Robinson last simmer, but there never were more than commissioners of the Sylvan Hills-Park

| De realized because of inadequate water supply at the camp, Colonel Dailey said. The supply will be adequate for nearly 2,000 acres had been obtained last night, including 2,000 from the Missouri Pacific Lines, 1,200 of state work the Missouri Pacific Lines, 1,200 of state reverted lands, 1,000 from a private company and 1,000 from owners of small than been made during periods when the price for ore justified the operations. The present operators except to seek \$180,000 with which to contamp the property Productive.

old tunnels and putting the properin shape for steady operations. In past years Mr. Birch was active.

in gold mining in the West. He thinks

Western Type Mill Planned. The mill, or concentrating plant which they expect to build, will be fashioned somewhat after the Western types. The primary crushing of the mill ore will be done with a jaw crusher. The material then will be passed into

Textbooks May Include Data On Natural Resources.

azette 11-26-39

digest of Arkansas laws pertain-

schools next year under an act of the 1939 legislature.

The proposal was discussed at a neeting of the Natural Resources Council subcommittee, which has been lesignated to co-ordinate the material affected state departments, at the capitol yesterday. If the digest is of law at the University of Arkansas.

W. Roberts, professor of agricultural tained building program education at the university, editor of the text: Dr. George C. Branner, state geologist, and M. R. Owens; state supervisor of high schools, assistant present ones. editors, and L. A. Henry, engineer-director of the state Planning Board. Wage Law Increases

Blakeley Dam Hearing To Be Held Dec. 18

Washington, Nov. 20 (P).—The Federal Power Commission ordered today a hearing to be held December 18 on application of the Arkansas Power and Light Company for indefinite street here about April 1. The divisor headquarters which includes Arkansas. East of the Blakeley dam on the Ouachita river in Arkansas. The commission said it might not "be compatible with public interest to delay further construction of Blakeley dam."

Natchez, Miss., and Shreveport, La., their buying centers now are coming to buying centers now are com

The commissions' order permits interested parties to present appropriate evidence upon the desirability of constructing a multiple-purpose develop-ment at the Blakeley site to serve for States or a public agency of a multiple-purpose reservoir at the Blakeley site, the desirability of submitting a report to Congress upon development of the site for public purposes, and desirability of revocation of that part of the license which authorizes construction, operation and maintenance of the Blakeley development.

TVA Now Supplying Extra Power Needed.

Company for indefinite postponement of the completion date alleged the akeley dam was one of a series of ree, two of which had been completed, was not needed at this time and the application for extension should be granted. The company said that Carpenter and Remmel dams had been completed and would operate largely as peak load plants. It said the load requirement of the system had not been built up to where additional peak capacity was needed.

The company alleged that the market which would be supplied by the additional power was being supplied throung energy bought from the TVA at low rates and the additional power that would come from Plakeley, days that would come from Blakeley dam

The Blakeley development was authorized in the flood control act of 1928 to prevent or control floods and facilitate navigation on the Ouachita river. Government participation was authorized, but not to exceed \$2,-

THE STATE gold mining in the West. He thinks FUTURE FOR SMILODON

LUMBER

The outlook for lumber in Arkan-

Lumber Shipments

period last year. He said he was informed by his division manager here, C. F. Brooks, that this production increase was shared by Arkansas, and that here, as in other Southern states, the shipments of lumber during the half-month period exceeded the output of mills.

of law at the University of Arkansas.

Committee members present were:

Dr. H. W. Blalock, state Utilities Commission member, chairman; Dr. Roy

M. Blatte preference of agricultural general throughout the nation. The period has been marked by entry of

Use of Machinery.

smaller mill operators, the wage and hour law has resulted in increased mechanization throughout the entire industry, Mr. Corley declared. In turn, this mechanization partially has accounted for the increased produc-tion of the year, he said.

Gazette 11-21-39 Lumbermen from many sections of the Southwest who formerly made Natchez, Miss., and Shreveport, La.,

The company under its present license must compete construction by December 31, 1939. At the hearing at Texarkana before his transfer here

the company will be required to submit evidence upon actual construction
which has been accomplished,
of foundation condiwe method of operation
the company. His father, A. J. Corley
Sr., is general manager of the company, which does business in all 48
tates.

was elected president of the Arkansas greater consideration to their mineral future. Department, Reserve Officers Associa Arkansas will bid for a United closed at the Hotel Marion yesterday States Bureau of Mines testing labor-

West, Little Rock, secretary; Lieut bureau official Dr. Branner said the Rudolph Hahn, Fort Smith, treasurer bureau will be asked to co-operate Capt. John W. Kilburn, Little Rock with the state Geological Survey in chaplain; Capt. Clyde H. Brown, Ho testing non-metallic minerals, especings, historian, and Capt. Harry F cially clay and shale. The work would be accomplished in conjunction with

Gazette 7-18-39 Reserve Corps Put Under U. S.

Summer School 1939

Oil Trip

was made, followed by a field investigation of the Great

The material then will be passed into a bail mill for fine grinding, and the concentrating will be done on concentrating tables instead of jigs. By this method, Mr. Birch expects to make a closer saving of ore than can be made on a jig type plant. Mr. Birch and nooga, Tenn., which does a large nassociates also will probably take other leases in this section and have several mines under operation next year.

The outlook for lumber in Arkan-sex field.

East Texas field.

Continuing northeast the trip passed through the oil fields in the vicinity of Shreveport, Homer, and Haynes-president and treasurer of the Corley fields in the vicinity of Shreveport, Homer, and Haynes-president and shovel will reverberate ville, La., as well as the Shuler, Eldorado and Smackover fields of Arkansas, accompanied by the state geologist wisit to the company's new Southments west distribution headquarters here this week. in the Centralia, Salem, Sandoval and Louden fields of the from Hemmed-In Hollow, near Comp-Illino's Basin, followed by an instructive summary of the ton in Newton county, and 22 miles A digest of Arkansas laws pertaining to natural resources may be included in a textbook on resources which will be made available to public which will be made available to public which will be made available to public witnessed an interesting demonstration of the region at the south of Harrison will be made available to public witnessed an interesting demonstration of the region at the south of Harrison will be made available to public witnessed an interesting demonstration of the region at the south of Harrison will be made available to public witnessed an interesting demonstration of the region at the south of Harrison will be made available to public witnessed an interesting demonstration of the region at the south of Harrison will be made available to public witnessed an interesting demonstration of the region at the south of Harrison will be made available to public witnessed an interesting demonstration of the region at the south of Harrison will be made available to public witnessed an interesting demonstration of the region at the south of Harrison will be made available to public witnessed an interesting demonstration of the region at the south of Harrison will be made available to public witnessed an interesting demonstration of the region at the south of Harrison will be made available to public witnessed an interesting demonstration of the region at the south of Harrison will be made available to public witnessed an interesting demonstration of the region at the south o geology, structure and stratigraphy of the region at the south of Harrison will be made,

South's Minerals Dallas Morn.

The value of all minerals produced in the South

since 1924 has been greater than the value of all minerals produced in this region prior to 1924, according to George C. Branner, State Geologist of Arkansas, writing in Manufacturers Record for November. published in the book, it will be prepared by Dr. R. A. Leflar, professor ter of the lumber industry's welfare

Mr. Branner sees great significance in this development in a region that has always been considered one with an agricultural economy. His logic would be even stronger if applied to Texas alone. This state has produced greater mineral value since 1929 than in all preceding history. Texas is also considered a region with an agricultural economy, but the total value of its mineral production in 1938 was greater than the total value of all crop and livestock products. Texas has during the last few years dropped from first to second rank among the states in the matter of While handicapping many of the annual value of crops. At the same time it has forged to No. 1 position in annual value of minerals.

The development of this great mineral wealth in Texas and the South has a significance that has not yet been fully appreciated in the popular mind. This is partly due to the fact that the popular mind continues by momentum to give preponderant consideration to agriculture. It is partly due to the fact that in the matter of the number employed, agriculture still outranks the mineral industries. In this respect popular conception is soundly based; gross value of production is not the sole measure of the value of an industry to the community or region in which it is situated. Nevertheless, the entire South must give greater and more sympathetic consideration to its mineral industries and to the development of these industries and the industries which will logically grow out of them. In view of the international situation and the declining market for agricultural products, the development of the South's mineral industries is doubly significant.

There is also significance in the variety of minerals produced. Texas is top-heavy in fuels with its petroleum, gas, coal and lignite, but its present commercial production numbers about twenty-five metallic and nonmetallic minerals of the nonfuel class. Probably the greatest potentiality for industrial development in Texas lies in its great supplies of fuels, flood control, power development and navigation. It also permits evidence to be presented showing desirability of the construction by the United States or a public agency of a multichemical industries, and the large volume in which such minerals must be handled lends to their economic value because of the greater employment of C.l. Daniel W. Jones, Little Rock labor that will be required. Texans should give

The commission said the application of the Arkansas Power and Light Company for indefinite postponement. Springs, historian, and Capt. Harry Coally clay and shale. The work would be accomplished in conjunction with the state's laboratory at the old penishown yesterday morning at the Pulask theater. Col. Joseph A. Day, Arka delphia, is the retiring president. research men to study the quality and utility of clay and shale.

RESOURCES GROUP MEETS. Employes Compensation Act.

The Arkansas Natural Resources Council announced at a meeting at Washington, July 17 (P).—President Roosevelt signed today a bill extending the benefits of the United States Employes Compensation Act to members of the Officers' Reserve Corps and the enlisted Reserve Corps fof the army who are injured while performing active duty or engaged in authorized training.

Council announced at a meeting at the capitol yesterday it would sponsor showings of the film "Life in Arkansas" at district meetings of the Arkansas Bankers Association at Wynne in January and at Fort Smith in February. The picture was shown daily at the Arkansas exhibit at the New York World's Fair. State Forester Fred H. Lang gave a report on activities of the Forestry Department as part of Guesterday it would sponsor showings of the film "Life in Arkansas" at district meetings of the Arkansas Bankers Association at Wynne in January and at Fort Smith in February. The picture was shown daily at the Arkansas exhibit at the Arkansas as part of greater ay 3 9 rogram.

MINERAL STUDY OF SCENIC HEMMED-IN HOLLOW PLANNED

12-3-39

By CLYDE GREENHAW.

this country, both metallic and nonmetallic, is found in Hemmed-In Hollow. Study of the geological struc- Hollow Once Retreat Of ture is to acquaint geologists with that Famous Illustrator. section and to give some lead as to what might be found nearby, Mr. Watkins said.

Mining activities will not mar the

beauty of the section unless ores are found in sufficient quantities to ope-

rate mining on a big scale.

Most of the study will be conducted in the lower rim of the second basin, which is 1,300 feet from where an auwhich is 1,300 feet from where an automobile can be parked. Within the walls of the canyon there are approximately 60 acres. Hemmed-In Hollow gets its name from its shape which is that of a double horse shoe. The walls are an overhanging ledge for the greater part and are at a height of 300 feet, forming a double hourseshoe in the parth and of the canyon with in the north end of the canyon with several waterfalls ranging from 35 to 280 feet each. The southern end, or mouth of the canyon, is crossed by Buffalo river, and except at the river, the only two places where the can-yon can be ertered are goat trails down the ledge. Cedar Fissure is the only place to descend or ascend in the

Survey Of War Minerals Under Way

12-?#39

Federal authorities have made the first move toward surveying Arkansas's supply of minerals which have been designated as materials of war, Dr. George C. Branner announced yesterday. The state geologist returned from Washington with an invitation from the United States Burreau of Mines to co-operate in a geological survey.

George C. Branner, state geologist. Dr. Branner said Mr. Wilson's visit will be the first step in the ultimate establishment of a federal field office in Arkansas. All samples except those used in the manufacture of burnt-clay products will be tested at the burneau of Mines to co-operate in a geologist. Dr. Branner said Mr. Wilson's visit will be the first step in the ultimate catablishment of a federal field office in Arkansas. All samples except those used in the manufacture of burnt-clay products will be tested at the burner of the product o

Of the 10 minerals now being investigated by the bureau, Arkansas has four in considerable quantities, Dr. Branner said. They are bauxite

They are bauxite (aluminum), antimony, manganese

United States Geological Survey to determine location of the strategic minerals and whether the quantities are sufficient to justify test drilling. Dr. Branner said the bureau will be ready to enter Arkansas when the extent of the state's deposits has been ascertained.

Test Agreement Signed.

The bureau also signed an agree
Test Agreement Signed.

The bureau also signed an agree
Test Agreement Signed.

The bureau also signed an agree
Test Agreement Signed.

Test Agreement Signed.

The bureau also signed an agreement with Arkansas, the geologist said, under which federal laboratories at Tuscaloosa. Ala. Norris, Tenn., and College Park, Md., will test all the state's clay and shale samples except those used in the manufacture of the manufacture of the manufacture of the products. The latter will

"It is not improbable that a federal field office will be established at our laboratory," he said. "That and Navy Departments in our laboratory," at our laboratory," he said. "That and Navy Departments jointly critwould lead to construction of a mining icized export of pig tin and crude experiment station.'

upper rim to the lower section of the canyon. Here a weathered cedar tree stands nearly perpendicular in a narstands nearly perpendicular in a narrow gorge made by rock walls not more than six feet apart. Down the tree one must slide to go to the lower basin, while the tree has to be scaled on the return trip.

Inaccessibility would not hinder mining activities, however, if rich veins of ore are uncovered, Mr. Watins said. Ores could be ferried across the Buffalo river or other ways could

the Buffalo river, or other ways could be provided.

Even in the first basin, rock walls rise majestically, and look as though they almost touch the blue sky. A tiny stream of crystal blue water flows on its devenueral interpretations. Geological structure indicates that every type of mineral ore native to this country, both metallic and nonthrough the air like a huge pendulum

Of the many celebrities who have visited the canyon, the one most closely identified with it is Rose O'Neill, creator of the Kewpie Doll and internationally famous illustrator. Her father, Colonel O'Neill, homesteaded several acres in this romantic spot and lived three years on the lower rim of the basin. The O'Neills lived at Bonniebrook Farm in the Shepherd at Bonniebrook Farm in the Shepherd of the Hills country of the Missouri Ozarks. Bonniebrook was not "wild" enough for her father, so he came to Arkansas and bought a chasm, when tourists began to rob them of the privacy they sought, Miss O'Neill told the writer while on a visit here about two years ago. She dubbed her father, "Wild Irishman," and Hemmed-In Hollow furnished the ideal spot for solitude. Colonel O'Neill died in for solitude. Colonel O'Neill died in California in 1936 at the age of 95. The O'Neill cabin in Hemmed-In Hollow burned a few years ago during a forest fire, but the land is owned by the nurse who cared for the col-onel, and to whom Colonel O'Neill willed the property, Miss O'Neill said.

Testing Agreement Will Be Executed Next Month.

Hewitt Wilson, supervising engineer of the United States Bureau of Mines, will come here in January to com-plete details of an agreement under which the bureau will test Arkansas clay samples without charge. agreement was reached at Washington recently at a conference with Dr. Federal authorities have made the George C. Branner, state geologist.

Aluminum), antimony, manganese and quicksilver.

The geologist asserted \$500,000 has zinc and bauxite mines to "advise" been appropriated to the bureau and operators and owners on safety measunited States Geological Survey to ures," state Labor Commissioner E. I.

heavy clay products. The latter will be tested by the Arkansas Geological Ban On Export Of Survey's new laboratory at the old Tin, Rubber Hinted.

periment station."

The federal laboratories will test "other means" than appeals for co-The federal laboratories will test "other means" than appeals for co-Arkansas clays for use as paper fill-ers, treatment for oils and drilling muds. A technical supervisor will come here to select the samples.

"other means" than appeals for co-operation to curb shipments to Europe. Secretary Edison of the navy and Louis Johnson, assistant secretary of war, dropped the hint in a joint statement on the export of "strategic" materials.

The statement contained no mention of the countries to which the exports were destined. A similar joint statement on October 11 merely appealed for voluntary co-operation.

ManyHazards resources. A Source

Failure to equip ore cars with brakes creates hazards in some of the state's bauxite mines, the report said. The cars are pulled up inclines by cables, miners or mules.

in conservation and natural resources under a legislative act, a Source Book Committee will meet at 8:30 a. m. Saturday in the hearing room of the state Utilities Commission. The committee will discuss the printing of the textbook for use in the University of Arkansas Curriculum Laboratory this

The state Department of Education, the University of Arkansas and state departments concerned with conservation and natural resources are represented on the committee.

Act 312 of 1939 provided that all schools of the state should offer courses in conservation of natural resources and that all students would be required to take the course. The course was made a requirement for promotion in at least two elementary

Three of seven chapters of the textbooks, which probably will be used in schools of the state next year, have been completed and rough drafts have been made of four chapters, L. A. Henry, engineer-director of the state Planning Board and a member

of the committee, said.

A Geologist's Paradise.

A group of 30 geology students and five faculty members from Iowa State College, headed by Dr. J. T. Lonsdale, who has a national reputation as a geologist, will leave Ames next week on a six-day field trip through Missouri, Arkansas and Oklahoma. The party will enter Arkansas from Hollister, Mo., and arrive in Conway the second night through Harrison, Marshall and Clinton. Leaving Conway, they will study the structural Arkaninspect the syenite quarries here and drive to Hot Springs by way of Bauxite, where they will have a look at the bauxite mines. The fourth day will take them through Magnet Cove, where more than 40 minerals can be found, and to Murfreesboro to study the mercury and diamond mines there.

Curriculum for Conservation To Be Prepared.

A "workshop" to prepare a curriculum for studies in conservation and natural resources in Arkansas schools will be financed by the General Edu-cation Board of the Rockefeller Foundation, T. H. Alford, state commissionfoundation has granted the state \$1,-

The "work shop" will be conducted by the state Department of Education, the state Planning Board and the University of Arkansas. It will be at-tended by 30 persons representing the public schools and state agencies re-

used. Mr. Runton said the best practice was to "keep caps and dynamite in separate places until ready for use." Failure to equip one computer they are Attached To

"Most cars hold a ton of ore," the engineer said. "Should the cables break or car connections become unfastened, then the cars would race back down the incline."

Special to the Gazette.

Mountain Home, March 23.—One of the most important geological surveys, designed to bring new industries into north Arkansas, will be tries into north Arkansas, will be tries into north Arkansas Looks to New Hats Protect Heads.

Mr. Runton said all the mines visited, other than those operated by the by this survey will be assembled in

into one comprehensive survey of the panies interested. We hope to be of state's mineral resources. This will put all the assistance possible in bring the facts about Arkansas minerals into ing additional industries into the state."

Many Counties Included.

ble, rock wool material, phosphate, limestone. Izard county for manganese, glass sand, phosphate, rock wool material, marble, iron. Stone county for manganese, marble, iron, phosphate. Baxter for zinc, lead, iron, phosphate, dolomite, limestone. Marion for zinc, lead, marble. Searcy for zinc, lead, marble and phosphate. Newton for zinc, lead, sity of a zinc oxide plant. and phosphate. Newton for zinc, lead, sity of a zinc oxide plant, marble, iron pyrites. Carroll for strontium, zinc, lead, iron pyrites. Minerals in all other counties also will

of the zinc in the United States is recovered from the ores by the electrolytic process. With a large volume of electricity available, this same process could be applied to the zinc ores of north Arkansas. Recent experiments north Arkansas. Recent experiments monopolistic control of the production by government agencies also have ...s-closed that this process can be applied to the recovery of manganese. The location of electro-lytic plants in north on Mines and Mining.

Ore Deposits To Be Studied

Industries.

Mr. Runton said all the mines visited ed, other than those operated by the Republic Mining Company at Bauxite, "seem to give but little attention to size of cables used for loads or to the proper fastening of cables. He said workers in all of the mines visited used "hard hats to protect the head from falling objects but few, if any, were found wearing hard-toed shoes as a protection from foot injuries."

Commissioner McKinley said object of the survey was to bring dangerous practices to the attention of mine owners so remedial action could be taken.

Conservation Textbook Group

To Meet Saturday.

Named to prepare a course of study in conservation and natural resources under a legislative act, a Source Book under a legislative act, a Source Book under a legislative act, a Source Book into the survey will be assembled in toonies but comprehensive form so that it can be placed before concerns intoneonics overed. Size of deposits, mineral value and transportation available will be catalogued.

Harrey C. Couch, president of the company, announced the proposed survey January 1. George M. Fowler of Joplin, Mo., to direct a survey and compile information as to the ore deposits of the section, their concerns interested in the minerals value and power and transportation available will be catalogued.

Harvey C. Couch, president of the company, announced the proposed survey January 1. George M. Fowler of Joplin, Mo., to direct a survey and compile information as to the ore deposits of the section, their company, in a program and Light Company, in a program of assisting industrial development in tonethy assisting industrial development of the proposed survey and compile information available will be catalogued.

Harvey C. Couch, president of the company, in a program of assisting industrial development of the proposed survey and compile information available will be catalogued.

Harvey C. Couch, president of the company of the section, the company of the section assisting industrial development of the company of the sectio

shape where they can be brought to the attention of companies interested. We hope to be of all the assistance possible in bringing additional industries into the state, to take advantage of our many opportunities."

Mr. Fowler has been a consulting geologist in Joplin since 1926. He employs regularly a staff of assistants. Mr. Fowler spent 12 years as mining geologist in charge of investigations in charge of the hard and for the Anaconda Mining Company, one of the largest copper concerns in the West. Although he has made many geological investigations in various geological investigations in various standing in their mineral production as Baxter, Izard, Independence, Stone, Searcy, Boone, Newton and Carroll. Among the minerals which are the mines of these counties are proximately \$56 at no with a content of the largest copper concerns in the West. Although he has made many geological investigations in various geological investigations in various the manufacture of the largest copper concerns in Izard counties.

Many Counties Included.

The survey will cover most of the counties of north Arkansas and esponding to the counties of north Arkansas and espondiates of north Arkansas an

for the Anaconda Mining
one of the largest copper concerns in
the West. Although he has made many
geological investigations in various
parts of Arkansas, he prefers to do
much more additional work before expressing an opinion regarding Arkansas's mineral possibilities.

The survey will cover many counthe survey will cover many counin Izard counties.
With the prospect of mine development it has already been proved that
zinc, lead and manganese can be
smelted most profitably in the field
where they are produced by the use
of electricity, and so this survey will
link with the future development of
electric power to satisfy smelting and

ther demands. L. A. Watkins, president of the Mis-

sponsible for conservation of natural resources.

A Source Book Committee, of which Dr. H. W. Blalock, utilities commis-

Found At

Metal Mines

Safety Engineer Wilson E. Runton of the state Labor Department reported yesterday there were unnecessary hazards connected with the operation of einnabar, lead, sinc, managanese and abuxtice mines of many metal mines in Arkansas.

The report, filed with Labor Commissioner E. I. McKinley, was based on an inspection of cinnabar, lead, sinc, managanese and abuxtice mines used to my manage on a misspector of cinnabar, lead, sinc, managanese and abuxtice mines operators.

Mr. Alford said a study of school district reports on equalizing aid allottent should be completed with the operation of cinnabar, lead, sinc, managanese and abuxtice mines of the course in rural economical instructors.

Mr. Alford said a study of school district reports on equalizing aid allottent should be completed with the organization of many metal mines in Arkansas.

Mr. Alford said a study of school district reports on equalizing aid allottent should be completed with managanese and added:

"It do not consider there are any deficiencies in the state lade covering the problem of the course in the course of the most organization of Harrison, is desirous of obtaining a zinc oxide is the manufacture of paint the transfer of the course will be a teacher of the course will be a teacher of the course will be a teacher of the course of the course will be a teacher of the course of the course will be a teacher of the course er an electric train could be used suc-, in the United States and comprises essfully.

Captain Sadler is a brother of Dr W. L. Sadler and Mrs. F. S. Hezekiah both of this city. He is a graduate of the University of Arkansas. Captain and Mrs. Sadler have one son, Carl L, Sadler Jr. of Dayton, O. Captain Sadler will leave for Washington, D. C to take up his new duties next week.

Chilean Ore Goes To Utah Smelters DEMOCRAT 6-4-40

Salt Lake City, Utah - Utah min ere for processing thousands of tons ere for processing thousands of tons of crude ore and concentrates from Smith.

Smith.

J A. Middleton, Mena, succeeding Paul Guenson.

The Utah plant of the United States Smelting, Refining and Mining Company in Midvale recently received the first of a \$250,000 shipment of lead ore and concentrates. The ore traveled by burro to the ocean, by ship to Los Angeles and thence by rail to Utah.

Year Contract Drawn.

Five hundred tons of ore are shipped monthly for a year under terms of a contract drawn up between the smelting company and Dr. Mauriclo Hochschild of La Paz, Bolivia, multimillionnaire ore magnate of South America.

Hochschild, who is one of the

Mining Laws

Electricity Seen As
Ultimate Power Source.

The survey is of particular importance to the northern part of the state, especially those counties in the manganese and zinc and lead fields. There is no commercial fuel in this section except electricity. Wood is present in abundance, but it is not adaptable for industrial uses except for burning lime. Electricity is the only industrial power the territory can look forward to in large volume.

The survey is of particular importance to the northern part of the state, especially those counties in the manganese and zinc and lead fields. There is no commercial fuel in this section except electricity. Wood is present in abundance, but it is not adaptable for industrial uses except for burning lime. Electricity is the only industrial power the territory can look forward to in large volume.

The bale arge deposits of manganeses.

The bale arge for consummated, will be financed in part by the United States of the Consummated.

The bale arge deposits of manganeses.

The bale arge deposits of manganeses.

The bale arge of the interior control of mine control of mine control of the company's vice presidents who is en route to Rio de Janeiro.

The bale arge of the interior control of mine control of mine control of the company's vice presidents who is en route to Rio de Janeiro.

The bale arge of the argundance argundance argundance argundance argundanc

60 NEWCOMERS WIN NOMINATION TO LEGISLATURE

Gazetto 8-15-40

Primaries Caused Many Changes.

Sixty members of the 1939 legis-lature will be absent when the next session convenes in January. U official returns from the Dem-

octatic primaries showed 52 new candidates for representative and 10 new aspirants for senator were nominated. Most of them will be Nose of them will be elected without opposition at the November general election.

Not all of the new nominees are

strangers to the General Assembly. Former office holders in many counties regained positions they had lost or relinquished.

10 New Nominees And Predecessors Listed.

Of the 10 new Senate nominees. one formerly was a member of that body and three moved up from the House. An eleventh member will be elected in November from Phillips county to succeed Luther J. Wilkes, a holdover member who re-signed this summer to accept appointment as postmaster at Helena The 10 nominated at the pri-

Lyman L. Mikel, Fort Smith, succeeding Paul Gutensohn, Fort maries were:

Faulkner—Dr. H. B. Hardy, Greenbrier, new.
Franklin—Herbert Strickland, Denning, new.
Fulton—H. A. Northcutt, Salem, new.
Garland—Ernest Maner and Jim Campbell, both of Hot Springs.
Grant—Frank Posey, Sheridan, new.
Greene—R. E. McMillon, Paragould.
Hempstead—Royce Weisenberger and
Talbot Field Jr., (new) both of Hope.
Hot Spring—Bascom Parker, Malvern, new.

Howa. d-J. M. Jackson, Nashville, new. Independence—S. E. Wells, Sulphur

Rock, new.

Izard—Guy Gaston, Melbourne, new.
Jackson—Sam Bains, Newport.
Jefferson—H. Kemp Toney, T. M.
Hooker and Merle B. Smith (new) all
of Pine Bluff.
Johnson—Edward H. Patterson.
Clarksville, new.
Lafayette—Pat Robinson, Lewisville,
Lawrence—Farris Madison, Alicia,
new.

new. Lee—Eugene Hampton, Marianna, new. Lincoln-Allen Tarver, Star City,

new.
Little River—Sam Seligson, Foreman.
Logan—Thomas Blakemore, Paris,
new.
Lonoke—Jim Lee Howell, Lonoke,
and Joe Foster, England, both new.
Madison—Carl V. Stewart, Huntsville.

Marion-Henry V. Young, Yellville. Marion—Henry V. Toung, Tellville,
Miller—Ted Goldman and Paul J.
McDonald (new), both of Texarkana.
Mississippi—Frank Williams, Osceola; L. H. Autry, Burdette; and J. Lee
Bearden, Leachville.
Monroe—Ted McCastlain, Brinkley,
new.
Montgomery—Paul Hülsey, Norman,
new

new. Nevada-L. W. Buchanan, Prescott,

new. Newton-Post now held by Republic-an, Democrats held no primary elec-

Ouachita—Nelson Cox, Liberty, new. Perry—Paul Van Dalsem, Perryville,

new.
Phillips—Douglas Heslep and Henry
Rightor Jr., both of Helena and both

Pike—D. Thompson, Glenwood, new. Poinsett—Nabors Shaw, Marked Tree. Polk—Roy L. Riales, Mena. Pope—Laroy Hickman, Russellville,

Prairie—H. B. Eddins, Des Arc, new. Pulaski—Ben D. Brickhouse, John R. Fordyce, Robert W. Griffith Jr., J. Forrest Rozzell, Ernest F. Harper. Edwin Dunaway (new) and John L. Sultivan (new), all of Little Rock. Randolph—Rufus K. Baker, Pocahontas, new.

hontas, new.

St. Francis—E. J. Butler and Fred L.
Hedges (new). both of Forrest City.
Saline—M. M. Little, Benton, new,
Scott—Dr. J. D. Duncan, Waldron.
Searcy—James R. Tudor, Marshall,
new. (Post now held by Republican.)
Sebastian—Means Wilkinson, Greenwood; Floyd E. Barham and Lem C.
Bryan, both of Fort Smith and both
new. new. Sevier-Byron Goodson, De Queen.

Sharp—Dr. W. O. Tibbels, Evening Shade.
Stone—Jack Williamson, Mountain

View, new.
Union—Anthony Kassos (new), Tom
McKinnon and Frank Hudson, all of
El Dorado.
Van Buren—Archie Tipton, Clinton.
Washington—John Cloer, Fayetteville, and J. Frank Holmes (new).

Prairie Grove.
White—Roland Lindsey and Elbert
Leisure, both of Searcy.
Woodruff—B. A. "Fletcher" Long.
Augusta, new.
Yell—Eric Caviness, Danville.

Bailey Calls Resources Conference

a value of about \$151 ton.

U. S. Buys Antimony.

The Utah plant was able to bid for the contract for processing of the South American ore because the United States pays for antimony in ores. The ore contains a high percentage of that metal.

The presence of six per cent of antimony in Julion facilitates the refining process. For this reason it makes recovery of silver easier. The Chilean ore will be rationed over a long period and added in small quantities to local ores in smelting to make the bullion easier to refine.

The ore is shipped in the same burlap bags in which it is placed in Chile after it is mined. It is carried in paper lined railroad cars from the coast.

All South American ore exports previously went to Germany, Belgium, or to the Pacific coast plant for treatment. The war has cut of the European market.

Brazil Railroad Would Place Large Steel Order in U. S.

CAZETTE 6-25-40

Democrat 10-6-40

A conference on the possibilities of developing and processing raw materials in Arkansas will be held in the lated James R. Tudor of Marshall. The post now is held by Orville J. McInturff of Marshall, a Republican.

House Roll Call With

New Members Designated.

Results of the primaries, by counties, with new members so designated.

Results of the primaries, by counties, with new members so designated were as follows:

Arkansas—Fred W. Mahle, Stuttgart, new.

Benton—E. Graham, Bentonville and File Leflar, Rogers.

Brazil Railroad Would Place

Clark—R. Lake Village.

Clark—R. Laked Place by Graham Bentonville and file Lefter Rogers.

Clark—R. Laked Place by

Seven Wonders of Arkansas

Each Loyal Arkansan Has His Own List of the State's Remarkable Features, But Here Is An Arresting Description of One Group Worthy of Pride.

By Irene Carlisle.

mond & ronet and haunch of venison, net Cove.

Saline county.

vidual lists were compared; but to springs long before the coming of the way descent to the hallway lined by to every 100 carloads—a comfortable do so they had to crowd out other white men, and only after long strug- boulders and chasms. A stream flows margin in diamond mining, and that selections, notably the St. Francis gle were the springs made the joint the length of the cave as far as it has Sunk Lands, reminders of the great property of the sick of all tribes. De been explored, and the ceiling height earthquake of 1811; the breath-taking Soto and his band of explorers came ranges to 100 feet. The rooms have largely off the market, due to a marfrom the Panorama drive at to the spot in the fall of 1541, and been given fanciful names, descriptive keting situation which is too compli-Monte Ne; the vast oil resources of from that time forward the spa has of their particular types of formation cated for this article. The Arkansas southern Arkansas, which for the past been the goal of many a pilgrimage, -Solomon's Temple, Fairyland, the diamonds are chiefly used in drills 19 years have supplied the state's sought now by people from all over the Japanese Fish Pond. The cavern has and like instruments, and few are cut and Wonderland Cave at Bella Vista, The Hot Springs National Park restance of about three miles, and walks operation often, and production figwhere visitors dance deep under-ervation includes Hot Springs, North, have been built and passages widened. ures are more or less unpublished. ground. The scenic splendors of the West and Sugar Loaf mountains, a The cave was discovered about the But the diamonds are there, deep in upper White river valley, came in for total area of 900 acres. The 46 hot middle of the last century by Sam and their bed of volcanic pipe. Arkansas enthusiastic mention, along with other springs are grouped about the base Andy Hudson, while hunting. It is grew them, anyway. wonders of the Wonder State.

strange mineral formations than any tive properties. other spot in the world of equal size, Tasteless and colorless, the waters Indians are believed to have used the ought to be familiar to most Arkan-none the less contain over 20 chemical cave as living quarters long before the sans. They probably have driven constituents. The flow from the largest advent of the white man; the front through it unawares, for it lies on spring has varied less than four de-chambers present dark formations as United States Highway 270, a few grees in temperature since it was first if they had been discolored by smoke, miles east of Hot Springs. just beyond tested many years ago, and this tem- while the inner rooms, past an openthe little town of Magnet. Here are perature, ranging from 146 to 150 de- ing which used to be too narrow for

tions, and here garnets and opals What has maintained this constant riety of light and bright-colored forhave been picked up. Novaculite, temperature in waters flowing for mations. Diamond Cave is best reached sought here for centuries by Indians countless ages from the deep under- by State Highway No. 7, from Harrifor use as whetstones; jasper, agate, ground fissures of the mountain? No son or Russellville. flint, quartz, lodestone and pyrite one knows, though many theories have Mammoth Spring, whose effervescent these are only a few of the minerals been advanced. Some release of energy waters flow from a 120-foot opening a of the Cove. Here is found the steel-some deep-lying magnetic body per- the incredible rate of 200,000,000 galgray titanium used in paints, electrodes haps regulates the heat and the flow; lons a day, lies a mile south of the and other commercial products; the whether these are juvenile waters, Missouri border, and is best reached rare taeniolite, discovered here in 1938 never before at the surface of the on United States Highway No. 63 from by Lawton D. Kimzey and used in fine earth but discharged within its depths Hardy. This gigantic spring supplies ceramics and enamels; and the thick by cooling rock; or whether they seep an 18-acre lake with a maximum depth black Arkansite crystals which have from the surface to the cooling rock of 90 feet. never been found anywhere else in the masses and rise again to emerge as The waters of the spring are so

Arkansas officially became "The magnetic iron ore, magnetite, which fantastic lore; understandably, for the ducer to contribute his share to pro-Wonder State" by resolution of the exists here to such an extent that parts seven-mile length of the mountain, its duction. While only about 5,000 long General Assembly in 1923. We forgot of the area cannot be surveyed. If you tumbled, peaks and its slopes laced tons were mined in the first year of about that when we set out to de-suspend a bit of magnetite it will take with springs and waterfalls, make up Arkansas's commercial bauxite protermine "the seven wonders of Ar- a true north-south position, and this one of the most picturesque localities duction, by 1936 bauxite ranked third kansas." One might as well attempt polarity will remain for a considerable in the entire region. From its summit, in the state's mineral value, with 421,to select the seven pretty girls of Hol- time. The "boiling stone" which was it is said, one can see one-fourth of 000 long tons mined for a value of In this state whose terrain ranges here in volcanic rock. Known as Ozark- mountain because of its vague veil of and excavated with steam shovels, and from ancient mountains to broad alluite, this stone is found nowhere else color, the mountain has been made after being crushed and dried is shipvial plains, from whose natural wealth in North America. Few mineral colkings' castles might be built and lections anywhere in the world are the land-use program of the Resettle-ture.

est among these, as named by three way 270, we might as well stop off at the two recreational lakes—Spring John Huddleston in Pike county in of the most impartial and best-in. Hot Springs-everybody else does. Hot and Cove creek, covering more than 1906. The three stones he picked up formed Arkansans we could find—Dr. Springs National Park is the oldest 250 acres—add to its value as a play- on August 8 of that year were the first George C. Branner, Little Rock, state national park in the country, having ground. The area now is operated by discovered in the original matrix rock geologist; Charles J. Finger of Gayeta been converted into a government rest the United States Forest Service. lodge, near Fayetteville, internation ervation in 1832. It now has more than Diamond Cave, near Jasper, is one the Murfreesboro diamond field is the ally noted writer who for many years 21,000 population; but its claim to a of the largest and most beautiful cavhas been a resident of Arkansas, and place among Arkansas's seven won- erns of this country. Electrically diamonds have been found in the orig-L. A. Henry, Little Rock, chairman of ders rests not on the city, the Army lighted and arranged for easy access, inal peridotite formation. the state Planning Board-rank the and Navy hospital and the twin lakes the cave presents a succession of of the recreational area, but upon the rooms fantastically ornamented with size to more than 20 carats have been Magnet Cave, Diamond Cave, Hot healing waters of the hot springs which stalagmites and stalactites of every taken from the Murfreesboro mines. Springs, the diamond field near Mur. flow from the base of Hot Springs conceivable shape and size. Transluting areas, comprising some 105 freesboro, Mammoth Spring, Mount mountain, and which for countless cent pillars of delicate color, curled or acres altogether, have produced the Magazine and the bauxite mines of centuries have been one of the great-sulcate crystals which have been acons stones in this field.

Saline county.

Despite the fact of the great-sulcate crystals which have been acons stones in this field.

of the mountain where their sources still largely unexplored, though light- Seven wonders from the Wonder

world. These last, while without known springs, is not yet known. Perhaps charged with carbonic acid that they commercial value, are sought by min-they will some day run cold; but for are in a continual state of efferves eral collectors because of their gen- the next few generations at least they cence. Silica, sodium, magnesium, calare as reliable as sunrise.

entists because of the many phenomena Sprangs now. It is one of the leading ments found in the waters here. gently here to an elevation of some has its birth at Mammoth Spring; it

1,200 feet, and their scenic attractions is one of the loveliest and most turhave been enhanced without being bulent Arkansas streams.

the park area, are privately owned; who holds that position today, disbut all the hot springs have been set covered the first of Arkansas's bauxite at the disposal of the national gov- deposits near Benton in 1887. His disernment, in order that monopoly and covery, announced in 1889, coincided exploitation may not deprive the peo- roughly with the metallurgical disple of their benefits. The bathhouses, covery of the aluminum process in however, are privately owned. These the North.

sea level, is the highest point between is decreasing its use in chemithe Alleghenies and Rockies. It is cals, abrasives, etc., is on the in-Photographs by State Publicity Department.

The needle of your compass will spin aimlessly in the Cove, deflected by the fortestic loss, understandably for the ducer to contribute his share to profamiliar to the ancient Greeks occurs the state. Locally known as Blue nearly \$3,000,000. The ore is stripped kings' castles might be built and lections anywhere in the world are ment Administration. Stone lodges, arkansas diamonds, those brilliant scenic roads and excellent accommowhite diamonds which rival the world's dations for visitors have been added finest, and the lesser stones of yellow, there are a few natural phenomena While we are on United States High- to Magazine's original attractions, and brown and black, were discovered by

and pools of the inner chambers.

Magnet Cove, the five-square-mile lie; but the area is full of cold springs ing is being extended as rapidly as State! Seven here, and a thousand elliptical bowl which shelters more as well, and these, too, have their cura-possible and the lower level no doubt more within a day's drive. Look them eventually will be opened to visitors. over, and make out your own list more than 50 distinct mineral forma-grees, is typical of the hot springs. comfortable passage, have a great va-

cium, vion, alum, sulphurie acid, axy-Magnet Cove has long attracted sci- wat only the sick come to Hot gen and chlorine are among the ele-

it presents. Aside from its wealth of recreational spots of the nation and A United States government fish minerals it possesses strange charactranks as one of the world's great spas. hatchery supplies bass and crappie to teristics. No static interference with The park lies in a setting of great supplement the rainbow and speckled radio waves exists within the area. natural beauty; the Ouachitas rise trout in the spring lake. Spring river

John C. Branner, then Arkansas The cold springs, which lie outside state geologist and father of the man

are the only government-owned and The bauxite mines near Benton tooperated hot springs in the United day supply more than 90 per cent of the bauxite in the country. While the Mount Magazine, 2,883 feet above use of the material in aluminum

Despite the fact that the Murfrees-They ranked highest when the indiIndian tribes battled for the hot The visitor enters by a steep stair. boro formation assays some 18 carats been explored and lighted to a dis. for gem stones. The mines are not in



ing of bauxite at Bauxite is shown



First Contract Mines in the development and purchase of other Arkansas strategic minerals, including manganese, quartz crystals, antimony and bauxite. The was said that experts of the United States Geological Survey had been sent to study mercury and manganeses deposits in west-what had been sent to study mercury and manganeses deposits in west-what had been sent to study mercury and manganeses deposits in west-what had been sent to study mercury and manganeses deposits in west-what had been sent to study mercury and manganeses deposits in west-what had been sent to study mercury and manganeses deposits in west-what had been sent to study mercury and manganeses deposits in west-what had been sent to study mercury and manganeses deposits in west-what had been sent to study mercury and manganeses deposits in west-what had been sent to study mercury and manganeses deposits in west-what had been sent to study mercury and manganeses deposits in west-what had been sent to study mercury and manganeses deposits in west-what had been sent to study mercury and men's compensation and damage that several Arkansas firms, in-cluding the Ely Walker Dry Goods Company's garment manufacturing plant at Blytheville, have been aided in obtaining contracts under the men's compensation and damage suits, Governor Bailey said yester-cluding the Ely Walker Dry Goods Company's garment manufacturing plant at Blytheville, have been aided in obtaining contracts under the men's compensation and damage suits, Governor Bailey said yester-cluding the Ely Walker Dry Goods Company's garment manufacturing plant at Blytheville, have been aided in obtaining contracts under the men's compensation and damage suits, Governor Bailey said yester-cluding the Ely Walker Dry Goods Company's garment manufacturing plant at Blytheville, have been aided in obtaining contracts under the men's compensation and damage suits, Governor Bailey said yester-cluding the Ely Walker Dry Goods Company's garment manufacturing plant at Blytheville, have been aided in obtai

and mangansese deposits in western Arkansas.

Will G. Akers of Little Rock
Mercury company lawyer, is in
Washington, Oct. 19 (P).—Senator Hattie W. Caraway and Representative Fadjo Cravens, Arkansas Democrats, announced tonight
that the first contract with an
Arkansas firm for government purchase of strategic minerals had

and mangansese deposits in western Arkansas.

Will G. Akers of Little Rock
Mercury company lawyer, is in
Washington. George J. Buchholz
of Kansas City is president of the
corporation, in which several Arkansas residents are stockholders.

Plants Said

The governor explained that inthe industries prefer the "insurance
plan" of workmen's compensation
rather than the "state plan." He
said they also favor adoption of
Referred Act No. 314, which would
fix the venue for damage actions.
"All factors are favorable for
establishment of these industries in
Arkansas, but if these two proposals are defeated the hope of getting any of them is very remote,"
the executive said.

The governor explained that inthat the first contract with an Arkansas firm for government purchase of strategic minerals had

formal contract was expected to be signed soon for the government be signed soon for the government to purchase from Mercury Mines, Labor Law Inc., an Arkansas corporation, a quantity of mercury produced from the Pike county, Arkansas cin-

In a joint statement, Mrs. Caraway and Mr. Cravens said the formal contract was

10-26-40

dustrial managements concerned expected. would not consider the "state plan" for workmen's compensation as "any assurance whatever of pro-

Washington Office Credited. Industrial interests have been attracted to Arkansas by the state's the Pike county, Arkansas cinnabar field.

Efforts also being made, it was said, to interest the national Defense Council and the Bureau of Location of "several extensive in Ington by H. K. Thatcher, dustries" in Arkansas may be affected by the general election vote fected by the general election vote on proposed laws regulating work-

the executive said.

Said, but declined to say whether these types of industries might be

Rare Ochre Deposit Reported

Special to the Gazette. 11-2-40

Russellville, Nov. 1:-- A large sup-Russellville, Nov. 1:—A large supply of a pigment valuable in the manufacture of commercial paint, located by Joe T. Meek, mineralogist of the Smith Mining Company, Inc., of Russellville and Crystal Springs, will be mined for the market, starting next week, Dr. R. L. Smith of Russellville, president of the company, said today.

The pigment deposit is located in a cave, 280 feet from the surface, on Norristown mountain, two miles southwest of Russellville.

R. G. Fiser, representing a large Eastern pigment concern which supplies pigment to leading paint concerns, said the Norristown ore is an ochre. Tests made by Mr. Fiser indicated that the ochre is a rare and desirable Venetian red. While several carloads of the pigment ore are known to be in the cave, work will be started next week to determine the extent of the deposit. A test will be made to determine the proper place to drive a slope to reach the main ore body. The work will be directed by Mr. Meek.

State Mining Inspector Would

The office has co-operated with congressmen and senators in presenting to the Defense Council and others what Arkansas has to offer. Special reports have been presented to every office and department that could be made to show the slightest interest in Arkansas. "We feel that much has been accomplished and that our efforts will have had part interest in Arkansas. "We feel that much has been accomplished and that our efforts will have had part interest in Arkansas. "We feel that much has been accomplished and that our efforts will have had part interest in Arkansas. "We feel that much has been accomplished and that our efforts will have feel that much has been accomplished and that our efforts will have feel that much has been accomplished and that our efforts will have feel that much has been accomplished and that our efforts will have feel that much has been accomplished and that our efforts will have feel that much has been accomplished and that our efforts will have feel that much has been accomplished and that our efforts will ply of a pigment valuable in the

Improve Safety Laws.

Fort Smith, Ark., Nov. 2 (P).— State Inspector J. W. Fitzjarrell said tonight that he would make recommendations to the next Gen-eral Assembly for improvement of state mining safety laws.

The Federal Bureau of Mines, commenting recently on the Bates mine explosion in which 10 miners were killed, recommended that fire ator Hattie W. Caraway and Rep-fighting equipment be installed and resentative Fadio Cravens. Arkanthat first-aid and mine rescue training should be inaugurated im-

Washington Office Costs State \$2,940

Gazette 11-3-40

15 to attract defense industries amounted, through last week, to \$2,940.32, it was revealed in a check strategic minerals, including mangares, and bauxite.

The figure included rent of an office and an apartment, personal expenses of the personnel and office expenses, such as telephone and telegraph. All expenditures were paid from the Agricultural and Industrial Commission's appropriation.

Strategic minerals, including mangares, quartz crystals, antimony and bauxite.

It was said that experts of the United States Geological Survey had been sent to study mercury and mangansese deposits in western Arkansas.

Will G. Akers of Little Rock, Mercury company lawyer, is in

ricultural and Industrial Commission's appropriation.

H. K. Thatcher, executive director of the commission, is in charge of the office. He has been in Washington almost continuously. Mrs. Helen Crawford, formerly with the state Department of Public Utilities, is secretary. The Utilities lic Utilities, is secretary. The Utilities Department has continued to pay her salary.

Expenses Summarized.

Of the amount charged to theoffice, \$534.70 was for railroad
tickets to Washington. These included round-trip tickets for Mr.
Thatcher, L. A. Henry, engineerdirector of the state Planning
Board, and Jack Pickens, Little
Rock husiness man Rock business man.

Expense accounts totaled \$619.13. These included meals and taxi fares. This also included a "breakfast entertainment" for members of the Arkansas congressional delegates at the Mayflower hotel June 14. The bill was \$20.55. Another item was for \$32.50 for Mr. Pickens' expenses July 22-31, Rent amounted to \$976.77. The of-

fice is in the Munsey building and the rent is \$65 monthly. Living quarters were secured at the Presidential apartments at rent of \$110 monthly. Rent was paid from June 15 and to December 1 on apartment and office.

Office equipment represented \$200 of the expenses. Telegraph and tele-phone bills, the latter on two num-bers, averaged \$75 a month each. Postage had cost \$150.

To date the Agricultural and Industrial Commission has spent an unexpended balance of \$9,960.08 of

a \$15,600 appropriation for the fiscal year, which ends June 30. The commission can spend only \$1,-160.08 more before January 1 and stay within its statutory limits, unless Governor Bailey issues a proclamation authorizing it to spend more than 50 per cent of the appropriation. appropriation.

appropriation.

No Concrete Results As Yet.

In a statement prepared for the Gazette, Mr. Thatcher said:

"As to accomplishments, it is hard to say just what has been done. The office has co-operated with congressmen and senators in presenting to the Defense Council and

Meek. State Mining Inspector Would State Given First Contract For Minerals

Gazette 10-20-40

Washington, Oct. 19 (A).-Senresentative Fadjo Cravens, Arkansas Democrats, announced tonight that the first contract with an Arkansas firm for government purchase of strategic minerals had

been negotiated.

In a joint statement, Mrs. Caraway and Mr. Cravens said the formal contract was expected to be signed soon for the government to purchase from Mercury Mines, Inc. and Arkayess corporation. Inc., an Arkansas corporation, a quantity of mercury produced from the Pike county, Arkansas cin-

nabar field. Expenses of the office opened in Washington by the state June fense Council and the Bureau of

TOUR OF DAM SITES WAS FIRST MADE BY SCHOOLCRAFT IN 1818

By TOM SHIRAS.

Gazette 10-24-40

Mountain Home, Oct. 19.—When Maj. Gen. Julian Schley, chief of the United States Engineers, inspected the Northfork and Bull Shoals dam sites near here Wednesday he traversed a part of the

ties and possibilities of north Arkansas can be seen from a letter he wrote to J. B. Thomas, a United States senator.

During an interview by this correspondent Wednesday, General Schley exhibited a copy of School-craft's letter report, and read that part which dealt with the development of water power and industry. ment of water power and industry in the Arkansas Ozarks: "We found the ores of iron, lead,

and abundant undeveloped water power gives it remarkable advantages for mills and other manufactures.

This was the first report on water power and minerals ever made of the Arkansas Ozark region. General Schley and party were standing at the Northfork dam site, probably not more than 100 feet from where Schoolcraft passed 122 years ago.

General Schley Approves Report.

Later in the afternoon, while the party was standing on a high bluff on the Clyde Bryant farm, overlooking the White river and the Bull Shoals dam site, Schoolcraft again figuratively joined the party for a few minutes.

Something of the power and energy now going to waste in White river can be seen from Schoolcraft's result from the national defense description of Bull Shoals, over which he floated in a boat on Jan-12, 1819. He said:

"Bull Shoals appear to plunge down 15 or 20 feet in a mile. The limestone bed of the river has been eroded into several channels and the river foams and roars. The bed of the river seemed to be a perfect shoot of foam, force and tumult. We headed our canoe into this rough water and it struck a sunken rock. We jumped out into the water and twisted it off the rock. Six hundred yards further down the shoals it grounded again and out time it can be completed ready for shoals it grounded again and out we went to save it from capsizing. It struck for the third time at the foot of the shoals and we had to go out again. We were very wet and miserable, but we didn't lose

From the high point on the bluff from which General Schley and party viewed the river, we could see the rough, white water on Bull Shoals, and an occasional breeze

Shoals, Table Rock and Lone Rock dams as a part of the defense system was discussed by the party. The isolation of this tremendous power in the heart of the Ozarks, in the midst of large deposits of manganese, lead, zinc, phosphate and adjacent to the largest depos-its of bauxite in the nation, and big deposits of cinnabar, seemed to make their construction not only feasible but necessary.

Dam to Be One Of World's Largest.

the Northfork dam will be one of the 10 largest dams in the world, on a basis of the amount of con-

crete used in its construction.

The question of whether gener-The question of whether generating equipment will be installed in the Northfork dam is still in the hands of Congress. The engineers have the authority to construct a be industrialized if it expects to

fork dam will be granted after Congress gets down to business again in November.
"Washington authorities have

been making a survey of the power situation in the Arkansas-Louisiana-Mississippi area, and find that more power will be needed each coming year. I recently received a letter from Leland Olds, chairman of the federal Power Commission, in which he stated, in part:

power company.

Mr. Ellis was introduced by Thomas Fitzhugh, Little Rock, chairman of the Arkansas Utilities

the federal Power Commission stated its conclusion that the output of an initial installation of two units, having a combined capacity of 60,000 kilowatts, could be absorbed by the power market at the time when the power project could be absorbed by the power project could be absorbed.

Fitzhugh said that the conference was one of a series to determine the power requirements of the state. Dr. H. W. Blalock and Max Mehlburger, the other two utilities commissioners, attended.

Sees Possibilities in Zinc. time when the power market at the time when the power project could be completed. The commission also concluded that immediate construction of the Northfork project for flood control and for the production of hydroelectric power is desirable to meet the growing pow-

er demands.
"'The first monthly reports to the commission, in connection with the continuing defense power sur-General Schley smiled. "I can rection of the president, indicate theartily approve Schoolcraft's re-that in the Arkansas-Louisiana-Mississippi area the load this year will run considerably above the net assured capacity available to serve the area. This is a danger sign, indicating a possible power shortage in the event of extreme low water

conditions.
"'The commission's preliminary comparison of net assured capacity result from the national defense program indicates that by the end 1941, the Arkansas-Louisiana-Mississippi area will require 76,198 kilowatts of additional capacity; by the end of 1942, 101,198 kilowatts; by the end of 1943, 12,198 kilowatts, and by the end of 1945 adequate plans for national defense should provide for the construc-tion of 156,198 kilowatts of capacity

service. In fact, the indicated growth of load suggests that with- agreed upon in a conference here in a very few years the market in and the REA threatened to the service. in a very few years the market in and the REA threatened to abanthe area will be ready to absorb don the line unless the contracts still further development of the were signed by 4 p. m. Thursday. potential power of this basin.'

There is no doubt but what there is no doubt but what there is going to be a power shortage in this area unless the Northfork and other dams in the White fork and other dams in the White the operators were aired at length.

Murireesboro, Pike county, with pointed to the Refunding the operators by Chairman Thomas tee.

Fitzhugh and Dr. H. W. Blalock

Third Town Shoals, and an occasional breeze brought the roar of the rough water to our ears.

The need of the Northfork, Bull and other dams in the William to Congressman Ellis continued. "And I think that with all of this evidence of the need for earns signed.

The need of the Northfork, Bull all of this evidence of the need for earns signed. will give the needed authority to the commission believed the power include generating machinery in line to the cinnabar area was too Also that they will authorize the construction of Lone Rock, Table Rock and Bull Shoals dams, as the state to allow the line to be special to the Gazette 12-1-40 Mountain Home, Nov. 30.—Special to the Gazette 12-1-40 cert the third new townsite at the state to allow the line to be special to the Gazette 12-1-40 misunder the state to allow the line to be special to the Gazette 12-1-40 misunder the state to allow the line to be special to the Gazette 12-1-40 misunder the state to allow the line to be special to the Gazette 12-1-40 misunder the state to allow the line to be special to the Gazette 12-1-40 misunder the state to allow the line to be special to the Gazette 12-1-40 misunder the state to allow the line to be special to the Gazette 12-1-40 misunder the state to allow the line to be special to the Gazette 12-1-40 misunder the state to allow the line to be special to the Gazette 12-1-40 misunder the state to allow the line to be special to the Gazette 12-1-40 misunder the state to allow the line to be special to the Gazette 12-1-40 misunder the state to allow the line to be special to the Gazette 12-1-40 misunder the state to allow the line to be special to the Gazette 12-1-40 misunder the state to allow the line to be special to the Gazette 12-1-40 misunder the state to allow the line to be special to the Gazette 12-1-40 misunder the state to allow the

State Must Recent investigations by engineers disclosed that the fact that the Northfork dam will be any Ellis Says

exist as a state, Congressman Clyde T. Ellis of Bentonville told COMMITTEESON a conference of government, state and private agencies meeting here

"Should we get our proportionate share of war industries, our per capita income would be increased only to \$350, compared to the national average of \$526," he said. "We cannot expect to go about that when we are additional.

Shoals dam sites near here Wednesday he traversed a part of the country covered by Henry Rowe Schoolcraft in 1818-1819.

Sincolcraft was the first geologist and scientist to investigate the Ozarks, and was the first to call attention to the abundant undeveloped water power on White river and its tributaries. He made the trip from the head to the mouth of the Northfork river on foot and floated down White river from the mouth of Beaver creek, in Taney county, Missouri, to Batesville.

That Schoolcraft was impressed greatly with the resources, beauties and possibilities of north Ar-

Lack of initiative in the state also is a barrier, he said. He paid tribute to the progress made by the Arkansas Power and Light Company in industrializing the state. There are only a half-dozen leaders in industry in the state and only two of these are oustanding, he asserted inferring one was Harhe asserted, inferring one was Harvey C. Couch, president of the

tities and caves that yielded saltpeter. The section is admirably adapted to agriculture and mining

Mr. Ellis was introduced by Thomas Fitzhugh, Little Rock, chairman of the Arkansas Utilities Commission, who presided. Mr. Fitzhugh said that the conference was one of a series to determine the power requirements of the state. Dr. H. W. Blalock and Max Mehlburger, the other two utilities commissioners, attended.

Sees Possibilities in Zinc.

L. A. Watkins of Harrison, president of the Missouri and Arkansas railroad, expressed belief that the zinc industry might be the foundation for industrial development in North Arkansas. He said power would be needed for mining the ore, which could be sent to cen. not needed now.

Arbitrated Dispute 17-40 Without the services of the state Utilities Commission, which acted as an arbitration board, it is doubtful that the Rural Electrification Administration and cinnabar operators in southwest Arkansas could have gotten together on a contract for greatly needed power serv-

commission had no author power now running to waste in the ity in the matter. The only au-White river valley that is now in thority it has over co-operatives is the hands of Congress, that they to allot territory. But in this case, the Northfork dam in a short time. important to the development of

> Operators at the conference said that if the commission had not interceded, the project probably would have been lost.

The line will make an adequate power supply available to the area. It will hasten development of what "richest mine fields in the world."

REFUNDING AND **BUDGET NAMED**

rations Begin.

State Senator Willis B. Smith of Texarkana became chairman of the powerful Joint Budget Committee of the 1941 legislature yesterday He was appointed head of the Senate Budget Committee by Lieut. tablishment of a central laboratory for assembling all of the statistics that might be required.

Lack of initiative in the state also group.

speaker-designate Means Wilkinson of Greenwood announced appointment of Representative Robbert W. Griffith Jr. of Little Rock as chairman of the House Budget Committee. He sutted ally will become vice the All All Sections.

The lieutenant governor said the joint group will begin hearings here about December 15 to draft appropriation bills in advance of

would be needed for mining the ore, which could be sent to central mills. He said he believed an electrolytic processing plant was Barnam of Fort Smith, Fred Manie of Stuttgart, Eugene Hampton of Marianna, J. Forrest Rozzell of Little Rock, J. H. Wright of Arkadelphia, Merle Smith of Pine Bluff and Lee Baker of Lake Villege and Lee Ba not needed now.

Establishment of woodworking plants was advocated by Mr. Wathouse November 5.

Blage. Dr. Hardy, Mr. Barham, Mr. Mahle, Mr. Hampton, Mr. Wright and Mr. Smith were elected to the House November 5.

Joint Refunding

Other Speakers.

Dr. George C. Branner, state geologist, said that geological surveys have been made in this section, but some are not complete enough to draw any definite conclusions.

J. E. Simpson of Berryville, attorney for the Carroll Electric Co-Operative, said that his organization will co-operate in developing industries.

Utilities Commission

Arbitrated Dispute. 17-40

Joint Refunding
Committee Appointed.

Lieut. Gov. Bob Bailey and Mr. Wilkinson announced appointments to a Joint Refunding Committee, which will consider legislation written to enact Gov.-elect Homer M. Adkins' plan to refund the state's \$137,000,000 highway debt. Senator R. L. Gordon of Dermott was named chairman and Representative Rowland H. Lindsey of Searcy vice chairman. Other members:

Senate—T. S. Lovett Jr. of Star City, Willis B. Smith, Jeff Brat-ton of Paragould, J. O. E. Beck Ir. of Hughes and Ed B. Dillon of Lit-tle Rock. Mr. Lovett was elected

House—Eli Leflar of Rogers, John Cloer of Springdale, Dave Partain of Van Buren, Eric Cavi-John L. Sullivan of Little Rock and Byron Goodson of De Queen. Mr. Chances of sharing immediately in defense contracts lie more in oband Mr. Goodson were elected to and Mr. Goodson were elected to the contracts of the National Association of Management of the National Association of the National

Laid Out At Dam Site

cer, the third new townsite at the Norfork dam, is being subdivided and lots will be for sale as soon as the work is done.

With a national per capita of \$66.80 PLANNING BOARD TO MEET.

A proposed public works program for state agencies and institutions Field.

west side of the Norfork river, and joins the new town of Hutcheson-will return to Washington later. ville, which was the first townsite laid off at the dam. The Spencer Refunding Committee Will townsite is being promoted by C. D. Armstrong, of Disney, Okla., who promoted the town of Disney, at the Grand River dam in Oklahoma.

Work on Dam Progresses.

Contractors are making good headway both on the railroad and the heavy duty highway, which are bewith the two groups. ing constructed from points near Norfork. The government village under construction at Mountair. Home to house the key men on the dam construction proper also is taking shape. Six of the modern hours have been raised and interior work is progressing on them. Work is progressing on them.

Eighteen will be built now and nine more later.

Committee will meet December 16 to study proposed appropriation bills in advance of the legislative

Lacks Final Chapter. Five of six chapters of a proposed book on natural resources of Arkansas, which the 1939 legislature instructed be completed for use in schools, have been completed and the sixth will be written in liam Yarborough, Tom Poe and time for publication January 1, Dr. Guy Slaim of Little Rock contime for publication January 1, Dr. H. W. Blalock, member of the state Utility Commission and chairman

wildlife and a summary of laws governing resources.

Joint Budget Committee Will

Mr. Thatcher Sees Possibility In Synthetic Rubber Production

Arkansas has a possibility of benefiting from efforts of defense officials to increase production of synthetic rubber to make the United States independent of foreign supplies, H. K. Thatcher, director of the Arkansas Agricultural and Steel And Oil Industrial Commission, said yester-Lieut. Gov. Bob Bailey and Mr. day. The state is negotiating with vilkinson announced appointments a large company for the location of a plant to produce synthetic rubber, he said following his return from Washington where he has headed an office working for acquisition of defense industries.

Mr. Thatcher said the state has a "superabundance" of the three basis materials needed in the manufacture of synthetic rubber—coke, coal and lime. He said the Washington standing industrial leaders gave asoffice was assembling data on raw surance today that the United States materials and transportation and

llon of Litvas elected

f Rogers,
dale, Dave
Eric CaviWard of
Morritton,

Dower costs.

Several new synthetic rubber plants have been opened recently and additional units will be opened soon. When these reach full production, the output will only be six per cent of the annual consumption.

was prepared sufficiently in steel and oil production and resources against all likely eventualities.

They advocated modification of the 40-hour work week under certain defense circumstances and opposed compulsory arbitration of wage and hour disputes with labor

don the line unless the contracts and Mr. Goodson were elected to taining sub-contracts for work were signed by 4 p. m. Thursday.

A conference was arranged at Murfreesboro, Pike county, with murfreesboro, Pike county, with pointed to the Refunding Committing awards which would acquire large awards which would acquire large awards which would acquire large capital outlays for building large capital outlays for building large capital outlays for building large awards which would acquire large capital outlays for building large registration?" Charles large capital outlays for building new plants. Most of the Eastern

contracts to November 15. This represented \$2.75 per capita for each Mountain Home, Nov. 30.-Spen- Arkansas resident and compared

the work is done.

The new townsite consists of 160 acres and will be divided into approximately 500 lots. It lies on the proximately 500 lots are and will be divided into approximately 500 lots. It lies on the New Orleans and to visit industrial

Meet Friday

Committee and Gov.-elect Homer Governor-elect Adkins in attendance, will be held in Lt. Gov. Bob All work in connection with the funding Committee will meet here

Norfork dam is progressing on schedule. It was retarded somewhat, however, by two days of rainy weather the first of the week, but the interruption was slight.

Contractors are making good head-

The governor-elect announced after his return from Washington last week that several alterations will be made in the tentative bill

The legislature's Joint Budget more later.

Book on Natural Resources session.

The General Assembly will con-

vene January 13. Mr. Adkins can be inaugurated legally any day during the first week of the ses-sion. If precedent is followed, the ceremony will be held January

A committee composed of Wilferred with Secretary of State C. G. Hall yesterday on plans for the

him chairmanship of the joint group. Speaker-designate Means Wilkinson of Greenwood announced appointment of Representative Robbert W. Griffith Ir of Little Rock.

The State Planning Board 4011 Hold First Meeting Dec. 16.
The 1941 legislature's Joint Budget Committee will meet December to begin studies of appropriation.

legislature of a public works program, including necessary capital expenditures by state agencies and institutions for the next biennium.
. Function of the Planning Board

connection with the national

was prepared sufficiently in steel

saying labor has the right to strike

new plants. Most of the Eastern manufacturers are "loaded with contracts" and the tendency is to give sub-contracts to smaller firms, he said.

Mr. Thatcher said he is trying to induce small firms throughout the state to "meal" their research.

the state to "pool" their resources. Me clearly evident that in the inter-A compilation by L. A. Henry, est of the people as a whole, every engineer-director of the state Plan- effort should be made and must be ning Board, showed Arkansas had received \$5,361,452 worth of defense contracts to November 15. This

for state agencies and institutions for the next biennium will be disat a meeting at 10 a. m. today. Joint Budget Committee To

Meet Tomorrow.

Gazette 12-15-40
The legislature's Joint Budget
Committee will meet at the capitol
tomorrow to begin a pre-session The legislature's Joint Refunding study of proposed appropriation measures. The first meeting, with