Process of Making Aluminum From Bauxite in Arkansas Mills Runified bauxite from the Hurricane Creek Alumna Plant is shipped to the Jones Mills Aluminum Plant, only a few miles, where it is processed into aluminum ingots. This new plant, the Jones Mills operation for manufacturing aluminum, takes the alumina, or now commercially pure aluminum oxide in powdered form, and processes i into aluminum pigs. It would seem to the average observer that all one had to do to transfer the powder to metal and pour the ingots would be to heat it to a high temperature when it would take a liquid form. This idea, if carried out, would result in an unusable charry mass entirely of waste materials. It would destroy the very curalities which make aluminum one of the most valuable wartime metals. Not high temperature for 24 or more hours but electrolytic cells which fuses the moulten alumin is necessary to bring forth pure aluminum they combining the use of electricity, for the electrolytic process, fusing the powder into a white hot mass at 1,260 degrees F. is accomplished. Plant Uses Much Electricity. But it is not the electrolytic prosess.

First Bauxite

Plant Uses Much Electricity.

But it is not the electrolytic process itself which makes necessary the huge plant at Jones Mills which will cost when entirely completed \$33,000,000. It is the manufacture of the requisites for the anodes and cathodes used in the electrolytic process. Practically all elements used in the process are manufactured within the plant. All maintenance, including that of the largest assembly of transformers in the state of Arkansas, is carried on there.

Enough electrical equipment to the finished ingot ready for the

If one is to study bauxite and aluminum production, from the mine to the finished ingot ready for the rolling mills, which is accomplished for the first time in Arkansas under wartime pressure, the origin of the name should come first, and a study of its history next. Arkansas, is carried on there.

Enough electrical equipment to supply half of Arkansas in normal times is used within the plant, it has been estimated, and enough electrical energy to supply the entire state will be required when the plant is in maximum production. The latter statement is also a comparative element contingent on various figures which can only be determined after maximum production is established.

aluminum production, the to the finished ingot ready for the rolling mills, which is accomplished to the finished ingot ready for the rolling mills, which is accomplished to the finished ingot ready for the rolling mills, which is accomplished to the finished ingot ready for the rolling mills, which is accomplished to the finished ingot ready for the rolling mills, which is accomplished to the finished ingot ready for the rolling mills, which is accomplished to the finished ingot ready for the rolling mills, which is accomplished to the finished ingot ready for the rolling mills, which is accomplished to the finished ingot ready for the rolling mills, which is accomplished.

In this reduction plant there are batteries of huge electrolytic cells in which the alumina from the Hurrican Creek plant is reduced to aluminum. Each battery of the enormous cells, which might be described as rectangular vats for clarity, is housed in a runway 750 feet long.

Processes Described.

The cells, or vats, consist of steel shells lined with a suitable refractory material for insulation with inner linings of carbon which serve as cathodes. The cathodes serve as the negative poles on the conducting of electricity through the alumna being processed into aluminum. The

Arkansas deposits were discovered in 1897 by State Geologist John C. Branner on Sweet Home Pike near the outskirts of Little Rock, Production in Arkansas began in 1899. A mineral not unlike the French Bauxte had been discovered near Bauxte had been discovered near Baux-

and a half of twisted copper wire.

Much Carbon Used.

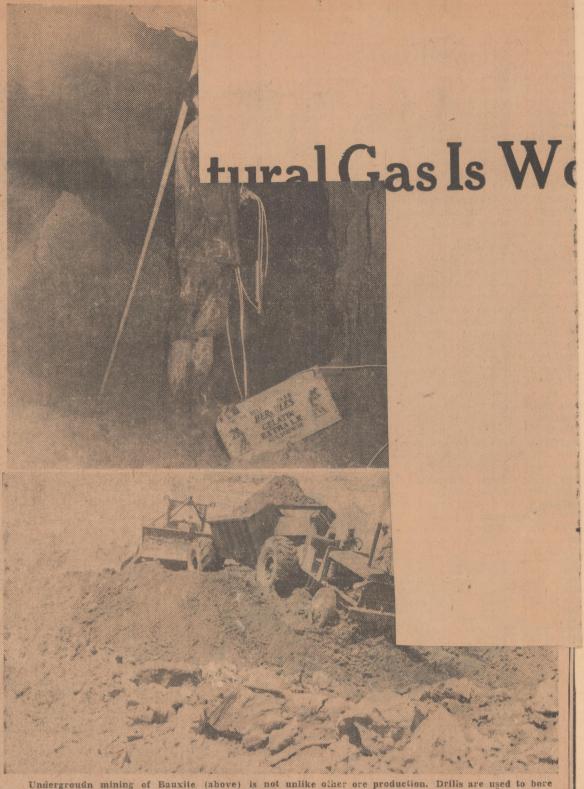
The huge 150 pound carbons used as anodes are cast and fitted within the plant. Some plants have been known to use as high as 1,500 of these a day. Relining the cells is an operation necessary at intervals. About three-fourths of a pound of carbon is used for each pound of aluminum produced. Twelve killowatt hours is consumed in the production of one pound of aluminum.

In the electrolytic cells the pure aluminum settles to the bottom to be taken off. More alumina is added and the process goes on. The moulten aluminum must be skimmed to remove the remaining dross and electrolyte. Under the old process the aluminum was permitted to cool and was then reheated before the dross removing process. Now the molten aluminum is not permitted to cool before it is molded into ingots.

ed into ingots.

Aluminum's value lays in its light weight and tensile strength. Its specific gravity is 2.7, about one-third

Surface and Un



Undergroudn mining of Bauxite (above) is not unlike other ore production. Drills are used to bore into the deposits and then dynamite dislodges the lode. Here a shot firer is working dynamite and fuse back into the holes. (Bottom) Moving 15 yards at a load, these huge trucks pulled by tractors are handled over seemingly impossible hazards in the surface mines. To save time this tractor is dumping its load down a 45 degree angle.

BAUXITE ROUTE

Cut-Off Road In Poor Shape.

The War Production Board may assist Pulaski county in obtaining a federal grant for extensive repairs to Dixon road, known as the Sweet Home cut-off between Arch. a federal grant for extensive re-Sweet Home cut-off between Arch

the degree on the conducting of electricity brough the alumna heing processed into aluminum. The anodes for positive poles are 150 pound squares of carbon held at the top of the headed rectangular cells through which the electricity passes into the alumna and brough the headed rectangular cells through which the electricity passes into the alumna and brough the headed rectangular cells through which the electricity passes into the alumna and brough the headed rectangular cells through which the electricity passes into the alumna and brough the headed rectangular cells. This electrocytic action is aginected through which the electrocytic action is aginected through which is in the process as is this heat which if develops to 1260 degrees F.

After 24 hours at this temperature and under the electrocytic action is aginected through the process as is the process of the process as is the electrocytic action is aginected to the process as is the process of the process as is the process of the process o

Increase Road Work.

War activities has caused much additional work and expense to the department. County employes have constructed five access roads to the Arkansas Ordnance Plant at Jack-

The county furnished materials, men and equipment for the roads and are maintaining them. The

gravel but this has been unsatis-factory.

was said.

gaged in hauling pipe and other materials for the water pipeline A representative of the Metals from the Lake Winona main line A representative of the Metals Reserve Corporation, division of the Reconstruction Finance Corporation has indicated his agency may place the road on the list of the "musts." He predicted aid would be forthcoming.

War Activities

in traffic on the county's secondary roads, resulting in increased bills for culvert lumber and other road building materials.

The county was unsuccessful in its applications for assistance under the Lanham Community Facilities Bill, as well as other requests for federal aid, the county judge said. Workmen have been able to keep the roads in good condition despite

Deposits of Bauxite Found in Georgia.

Gazette 8 27 A.2 Aides of Secretary Ickes announced to-day that more than 500,000 tons of bauxite, the ore from which aluminum is made, had been blocked out in two Georgia counties, Sumter and Macon. Some of the bauxite may be used at once, they said. The new deposits were found in the Andersonville district in west central Georgia.

The Bureau of Mines and the

Geological Survey reports indicate that more than 200,000 tons of the deposits contain better than 50 per cent alumina and rate as a "Grade B" ore,

Arkansas Becomes Aluminum Manufacturing Center

Bauxite Ore Processed Near Mines

U. S. Has \$65,000,000 Investment in Two Huge Plants in State.

For the first time in history Arkansas, which now produces 98 per cent of native bauxite of the United States, has become the aluminum manufacturing center of the nation

Straight line production of aluminum, from the mines to the finished ingot, ready for the rolling mills of the East, is completed within the bauxite area of the state.

The first ingot was poured Tuesday 'night, August 4, at the Jones Mills Aluminum Plant between Malvern and Hot Springs. This ingot is the prize passession on display at the administration building at the Jones Wills plant at the Jones Mills plant.

at the Jones Mills plant.

The erection of the two plants, the Hurricane Creek Alumina Plant for the preparation of aluminum oxide, known as alumina, and the Jones Mills plant for the processing from alumina to aluminum ingots, was completed from January 1, 1942, in less than one half the time the jobs would have been accomplished under normal conditions.

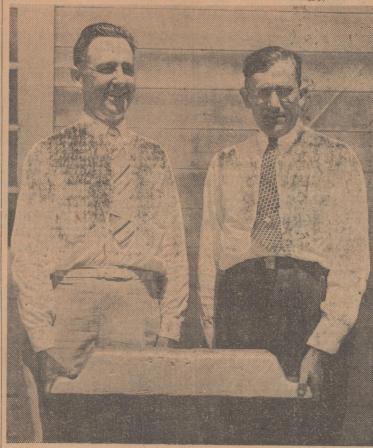
Plants Cost \$65,000,000. Under forced draft the construction of the \$33,000,000 alumina plant on Hurricane Creek, and the \$33,000,000 aluminum plant at Jones Mills, started operating with only a few days delay behind schedule. And weather and knee deep mud was not the cause of the delay.

After the original plans came the submarine blockade, and the shortage of ships which made it expensive and difficult to obtain Bauxite from Surinam. Surinam, prior to the United States entry in the war, furnished 75 per cent of the Bauxite used in this country. Arkansas then furnished 25 per cent.

The shortage of shipping bottoms

The shortage of shipping bottoms, and the danger of loss of ships, forced the government to trake plans for confining aluminum production to this continent. The result was a decision, after work was under way on the two plants, to increase the capacity so the greater portion of the aluminum needed in the manufacture of airplanes, and for other war uses, could be produced within the mining area of Arkansas.

State's First Aluminum Ingot



Regional Manager Thomas Ct. Jones, of the Aluminum Company of America, and General Supt. Harry C. Slagle, hold the first pure aluminum ingot manufactured at the Jones Mills Aluminum Plant. This first production was on August 4. Mr. Slagle was transferred here from Pittsburgh, Pa. Mr. Jones was the key man on the ground in the Arkansas Bauxite area and it was his mission to co-ordinate and speed construction throughout the development of the \$66,000,000 program at the two separate mills.

in the cost, added many days to the construction period.

Today Bauxite in native form is brought from mines by truck, carried through the processing to the alumina stage on belts and mechanical elevators and conveyors, transported in waterproof railroad cars to the aluminum plant where it is processed into aluminum ingots without being touched by human hands.

Wholly a Mechanical Operation.

Starting from the mines, where either surface or underground operations are carried on to secure the ore, the entire operation is mechanical, aside from direction and control. Before weeks were consumed in the reduction and transportation. The bauxite was mined in Arkansas, shipped to an alumina plant hundreds of miles away, and in turn alumina was shipped hundreds of additional miles to the aluminum plant. From there it went in the cost, added many days to the construction period.

Mining bauxite is a varied proof gram. The ore is found on or near the surface and it is found at great the surface and it is

co-ordinate and speed construction throughout the development of the \$66,000,000 program at the two separate mills.

This increase in the capacity, and in the cost, added many days to the construction period.

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The two ground raw materials are carried by screw conveyers and bucket elevators to the fine material bins in an adjoining building.

Bauxite and Lime Mixed.

These materials are spouted by gravity into hoppers. Charges of bauxite and lime are weighed at regular intervals with the relative amounts of each used in the mixture depending on laboratory analysis of the bauxite and the liquor which is to be mixed before being processed. The liquor is a solution of the storage than 1,000,000 yards a month to reach deposits near the surface. In surface mining all dirt down the bauxite, forming a solution of the storage through as series of washing thickeners. These thickeners are carried by screw conveyers and bucket elevators to the fine material bins in an adjoining building.

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These materials are spouted by gravity into h

of United States

cause of the small amount of ore to be obtained, the location must be abandoned for another.

Some Mines Deep in Earth.

Underground mining of bauxitie is much like mining any other mineral. The deeper the mine the more expensive the operation. Present mines extend underground hundreds of feet. Ore is brought to the surface ore going to the Hurricane Creek Alumina Plant is loaded into trucks by clam shells and hauled to the ore dumps at the alumina plant.

Clam shell buckets and gantry cranes unload the bauxite on a belt conveying system which discharges A hopper in the floor of the building discharges the ore onto another belt conveyor which carries it to the grinding building.

All tramp iron that may be present it is free recompanity by the property carries the crushed ore to a bucket elevator which hoists it to the series it is then dropped into a primary hammer mill. A screw conveyor carries the crushed ore to a bucket elevator which hoists it to the screen feed bins located at the height of an average six story building. These bins discharge the ground ore into vibrating screens which separate the fine material from the course.

It is then dropped into a primary hammer mill M screw conveyors and the material from the course feed bins located at the height of an average six story building. These bins and then fed through two secondary hammer mills which separate the fine material from the course fixed by conveyors to special bins and then fed through two secondary hammer mills which carries it to the grinding building.

Proceptitation and the fed through two secondary hammer mills which exparate the fine material from the course fixed the process as it reaches the grinding of little process in the first to the screen feed bins located at the height of an average six story building. These bins and then fed through two secondary hammer mills which carries it to the grinding building.

When circulated for the course fixed by conveyors to special bins and then fed through two secondary hammer mills which carri

in diameter and 250 feet long.
Enormous Heat Required.
The material leaves the kilns at 1,800 degrees Farenheit after having been dried to a powder in this process. The hot alumina passes through a refractory spout into a rotary cooler where the temperature is reduced by air blasts.
On leaving the coolers the alumina gravitates to a conveyer which elevates it to the top of the shipping bin, From here the finished alumin

bin. From here the finished alumina is loaded into water tight cars for removal to the Jones Mills Aluminum Plant where it is processed into

eral Defense Housing Administration.

Many of these will be two-family units of four rooms each of pre-fabricated materials that are being erected within a single working day. Other frame structures, 50 in number, have been erected to house the construction crews at the plants. These will be diverted for the use of permanent workers as soon as the construction is completed.

In the town of Bryant, near the Hurricane Creek Plant, a 50-unit FHA program is under way.

Most of the construction and operating workers at the plants have been living in Hot Springs and Little Rock. Some live in Malvern.

Arkansas Democrat 1-31-45

More than 2,000,000,000 pounds of aluminum were used in United States munitions and airplane plans in 1944.

Every Day Scene in Bauxite Mining Area



the surface by an electric mine locomotive,

Alumina Plant Gets

Alumina Plant, Congressman Norrell (Dem., Ark.) said today.

The new equipment is for the lime, sinter and soda process. Mr. Norrell said. He said the equipment will make it possible to reprocess certain red clay which now is discarded, and extract from it additional alumina which now goes to waste.

Mr. Norrell said the new processing methods will enable the plant to use poorer grade bauxite. He said installation of the machinery is about nine per cent completed. He believes that no new buildings will be constructed. Alumina processed in the Hurricane Creek Plant is sent to the Lake Catherine (Arkansas.) Aluminum Plant.

Alumina Plant.

al Geographic Society. It is mined the town of lvigitt, in a pit several hundred feet across, and about 200 feet deep.

In 1852, produced by other processes, it was valued at \$545 a pound, more precious than gold. The mire is a typically drab mining town. Many of its homes have electricity and central heating. The income of a miner every ceded the salary of the Danish governor of the island.

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The memous aloute.

The income of a miner every ceded the salary of the Danish governor of the island.

The microm Discovery.

It is mined in the spould the pound in the produced on a bout 20 or estimate of the kitchen stove.

Like Packed Sno

Aluminum Production Needs Odd Mineral From Greenland

New Devices

Washington, D. C.—Use of more than two billion pounds of aluminum could be electrically sepnum in U. S. airplane and munitions plants in 1944 has called attention to cryolite, the little-known mineral that opened the way to the industrial use of aluminum, the most abundant of all the metallic elements found in the earth's crust. Commercial cryolite all comes from the southwest corner of ice-towered Greenland, says the National Plant, Congressman Norrell (Dem., Ark.) said today.

The new equipment is for the control of the contr

Autumn In The Ozarks

Narrow, restful, peaceful valley, stenciled with rushing rippling rivulets, mirrowed by cooling lakes of blue, ruggedly framed in rock-ribbed hills, richly embellished with colorful forests; truly a scenario of unsurpassed beauty -a valley in the Ozarks.

All varieties of trees are collectively engaged in heeding the silent summons to dress for autumn-to change their robes of vivid green to subdued tans and somber browns, in evidence of the first sharp sting of invading winter.

I pause and hold my breath while my bewildered eyes feast upon the glamour, as each whispering breeze wafts down torrents, clusters and sheets of withering leaves; spreading a rich and beautiful blanket, replacing the gay carpet of green that has faded in autumn sun.

Another day, a sharper wind. Clouds hover low, cold rain descends, a harsher season calls. Through my window I catch the spell of shrouded gloom; a dome of dismal gray so deep overhead, there's not a tiny slit of blue to let the smallest sunray through.

Now, as the fog and mists disperse, I scan again the lovely vale, flanked on each side by sugar maple trees, each an array of refined delicacies of beauty which the finest touch of mortal brush can only feign. Some are vividly scarlet, some mellow and subdued, some glamorous, and some pastel, some like steeples of glowing gold, others blazing torches of flaming red, towering from rifts and pillows of shaded foliage, but all a grand assembly of constantly changing tints and

The giant white oak with its fascinating color of port wine-no wonder we grow dizzy looking at it. The black oak in its favorite dress of scarlet and maroon, the gum tree robed in royal purple, co-mingled with old rose, offers worthy competition to its neighbors. The elm dons a coat covered with spangles of yellow-gold; while the dogwood is clad with oval leaves rimmed in gray, with centers softly blending into a delicate pink, whose daintiness the forest envies. Colorful supremacy seems to be the urge of every exhibit.

As I view this panorama of grandeur my thoughts are buried in a reverie of retrospection. I wander back down memory's lane through the fleeting years of life's short span, through the valley of sweet and bitter memories, across the speechless vista of wayward years, back to my first childhood memory of autumn. Then as I recount the years, I am convinced that each succeeding autumn is richer, sweeter, grander and more glorious.

Now, as the golden sun, in all its pomp and splendor, seeks rest beyond the western slopes; as it bids adieu to another glorious day-flinging its goodnight kiss back through the canyons and over the crags-when its last magic touch of strands of gold nestle closer and tenderly linger around the fast fading halo of nature's loveliest bouquet, Ozark autumn, nature's masterpiece-blends into the twilight and is buried in the shadows of a vanishing day. Thus, the vivid reality of unsurpassed beauty is transformed into sweet and cherished memories.

Not banished, not dead, but asleep in peaceful solitude; hurrying to mix with the elements and be resolved again to earth; yet in due season to come again in grandeur, excellence, magnificence and glory, to amaze, to comfort and to inspire the children of nature and glorify the Author of all things beautiful.-H. Frey Wilson.

WITH COWS AND HENS.

By dairying, Mrs. E. R. Davis of Central does her part in the Food for Victory campaign, according to Ruth Fairbairn, north Sebastian county home demonstration agent.

Mrs. Davis herself milks 16 cows twice daily. During the past year she has made 3,120 pounds of butter, that sold for an average of 40 cents a pound. About 60 pounds a week are sold to Camp Chaffee, which is near by.

Forty-five pullets have been raised to increase Mrs. Davis' flock of 50 hens.



Southwest Power Pool Congregates Electricity From Six States To Transform Native Bauxite Into Precious Metal For Airplanes

Invading Axis strongholds in everincreasing numbers, sleek and shiny American bombers—made from alum-inum processed in Arkansas from the state's own bauxite deposits—are deal-ing death and destruction to the enemies of democracy!

ing death and destruction to the enemies of democracy!

High upon hillsides and deep in the bowels of the earth, thousands of dirtstreaked miners continually dig bauxite bearing ore to be transformed into Dive Bombers and Flying Fortresses.

In never-ending procession, puffing locomotives haul it to alumina plants to be precipitated into fine white powder—alumina. Then it is transported again to the huge aluminum reduction plant on Lake Catherine, where great charges of electricity transform it into the featherweight of metals—aluminum, ready to be formed into large sheets for use by airplane plants.

It is a new and tremendously important contribution that Arkansas is making to the war effort. For years the state's beds of bauxite have been utilized to a small extent in producing aluminum. But because South American bauxite could be brought into this country far cheaper than its own deposits could be used, the foreign ore prevailed. And it was not until Axis submarines halted imports that necessity forced the utilization of Arkansas's latent supply.

Requires Great Power Supply.

Requires Great Power Supply. Because the production of aluminum requires great quantities of electric power—from 10 to 12 kilowatts-hours per pound—the projected production of 100 million pounds of aluminum per of 100 million pounds of aluminum per year in Arkansas at first seemed to the uninformed to be an insurmountable problem. It meant that one aluminum plant would require far more power than the entire state ever had used. And since it was planned to install a power plant at the aluminum mill, it meant that sich themendous amounts of power would be required for only a short time—just long enough for the aluminum mill's own power plant to be completed.

But because experienced electrical

But because experienced electrical engineers of power companies knew that great quantities of power could be made available almost instantly by interconnecting separate systems, the problem presented difficulties but they knew it could be solved.

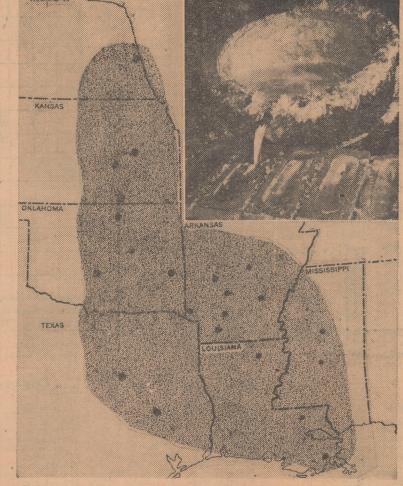
A. P. & L. Turns Trick.

A. P. & L. Turns Trick.

The Arkansas Power & Light Company, largest of the state's electric companies, took upon itself the responsibility of supplying these power requirements. The way the company accomplished this task is one of the brightest spots in the history of voluntary co-operation to further the wareffort. Within a few days after announcement had been made that an aluminum plant was desired for the state, 10 companies in Arkansas, Louisiana, Mississippi, Texas, Oklahoma, Kansas and Nebraska, agreed to pooltheir resources and guaranteed an ample supply of power for it.

Although this meant the immediate

Although this meant the immediate expenditure of nearly five million dollars of their own funds, the companies agreed without hesitation to make



Shaded area—larger than all England!—is territory embraced in Southwest Power Pool, formed voluntarily to supply electricity for Arkansas aluminum plant. Inset shows how aluminum—which requires great amount of power—is poured from pot into ingots.

this contribution to the war effort. They realized it meant taking a tremendous business risk—that they might never get back all of the money they were investing. But they also realized that to win this war all forces and all agencies must exert them-selves to the limit, and they knew they would be making a lasting con-tribution to Victory.

Giant Power Pool Formed.

Thus was formed the Southwest Power Pool, which this week rounds out nine months with as fine a recout nine months with as fine a record of performance as any electric operation ever achieved. By construction of a few high tension transmission lines, the power output of some 50 major generating plants and more than 100 small scattered plants was made available. More than 10,000 miles of high voltage transmission lines are being utilized to make power available to the aluminum plant. In order to operate such a vast grid, immediate telephone service was essential, so wireless telephones that use the transmission lines to carry the voice were built and installed.

This power pool, extending from Omaha on the north to New Orleans on the south, embraces an area larger than the whole of England. And the transmission systems voluntarily interconnected are bigger than the famous British "Grid System" which has been so widely publicized.

Big Job Done.

Big Job Done.

It was December 18, 1941, just 11 days after Pearl Harbor, that the Power Pool contracted to deliver on July 1, 1942, power for operation of the aluminum plant. To get this job done in time, construction crews went to work simultaneously in Texas, Oklahoma, Nebraska, Arkansas and Kansas. Starting from scratch, their work was completed in less than six months, although lines had to be surveyed by airplane, right-of-way had to be bought and cleared, poles had to be erected and wires strung. And all the while the 10 participating companies were taking care of their regular business and additional business brought on by location of other war plants in their territory.

their territory.

The contract called for the power to be delivered on July 1, 1942. The Arkansas Power & Light Company and the nine companies co-operating and the fine companies co-operating with it had power ready on that date. But because construction of the aluminum plant had not progressed as rapidly as had been planned, it was a full month later before the aluminum plant could begin taking power.

Pool Makes Arkansas History.

Pool Makes Arkansas History.

It was an historic moment on that day in August, 1942, when the first ingot of aluminum ever produced in Arkansas was poured at the Jones Mills plant on Lake Catherine. It was the first time that Arkansas bauxite had ever been processed into aluminum in Arkansas. Since then there has been a continuous flow of power from the Soutinwest Power Pool to the Arkansas aluminum plant.

The co-operating companies and the locations of their general headquarters are: Arkansas Power & Light Co., Pine Bluff, Southwestern Gas & Electric Co., Shreveport, La.

Kansas Gas & Electric Co., Topeka.

Lousiana Power & Light Co., Jackson, Nebraska Power & Light Co., Jackson, Nebraska Power & Light Co., Olchahoma City,

Public Service Company of Oklahoma, Tulsa.

City.
Public Service Company of Oklahoma, Tulsa.
Southwestern Light and Power Co., Chickasha, Okla.
Texas Power & Light Co., Dallas.

Texas Power & Light Co., Dallas.

Every feature of this gigantic undertaking was a voluntary contribution to the war effort. It is doubtful if so much could be accomplished so speedily under orders. Evidently the Axis bullies who think that eveything has to be done by orders never figured on the American system of free enterprise and its capacity for co-operation, or they never would have picked a fight with Uncle Sam.

Ark. Gazette 43 Shutdown Deferred

Washington, Jan. 4 (P).—Members of the Washington and Oregon congressional delegation obgon congressional delegation obtained today what they accepted as a promise from the War Production Board that no aluminum plant in the Pacific Northwest would be shut down until after further study of the nation's aluminum program.

Senator Bone (Dem., Wash.) said after a conference with Philip Wilson, chief of the WPB light metals division, that the delegation learned from Wilson that he had no figures on which to determine whether it would be more seen on the form. it would be more economical for the government to cancel its contract for 646,000,000 pounds of aluminum annually from the Ship-shaw plant in Canada than to close American plants. The Canadian plant was financed by the United States at a cost of about \$67,000,000 to be repaid in aluminum. Members of the delegations have contended it would be better for the government to pay five cents a pound pen-alty for aluminum contracted for and not taken from Shipshaw by the United States than to close American plants and permit the Canadian concern to continue to

furnish the metal.

Bone said aluminum produced in hydro-electric plants in the North-west cost 15 cents a pound against 21 cents a pound at the Canadian

Assails Shutdowns Of Aluminum Plants.

Pittsburgh, Jan. 4 (P).—N. A. Zonarich, international president of the C. I. O. Aluminum Workers of America, today charged the War Production Board with ignoring civilian needs and possible future military needs in closing aluminum

Zonarich, noting that there has been no manufacture of aluminum cooking utensils, power transmission lines and equipment, aluminum foil and other peacetime civilian necessities since before the war began, said:

"A proper stockpile of aluminum should be built up now that it is possible and feasible. The president and other high officials tell us that the European war is far from won. We cannot tell when there may be a sudden change in requirements and, therefore, an adequate reserve must be built up."

He suggested a committee composed of management, labor and government be set up to make decisions as to which plants ought to be shut down.

While big aluminum plants at Badin, N. C., Alcoa, Tenn., and Massena, N. Y., are being shut down, Zonarich declared, the WPB is purchasing aluminum from a plant in Canada financed by the United States government.

He also charged that a number of bauxite (aluminum ore) miners in Arkansas had been laid off, but that shipments of bauxite still are being received from South America for reduction in American aluminum plants close to bauxite sources.

Aluminum Production In 1943 Up 75 Ptc.

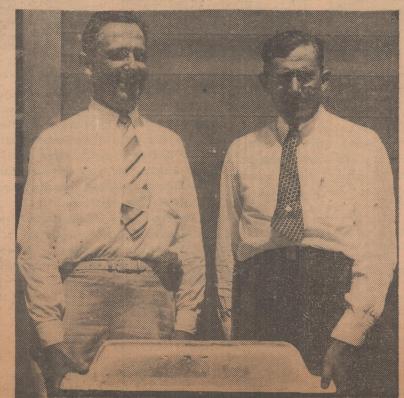
Washington, Feb. 21 (P).—Production of primary aluminum in 1943 totaled 1,800,000,000 pounds, a 75 per cent increase over 1942 the War Production Board reported today.

A canvass of all United States

production reports, the board said, showed peak production of primary aluminum was reached during the final quarter of 1944, when average monthly production was 185,000,000

Aluminum recovered from secondary sources during the year exceeded 500,000,000 pounds, the WPB reported, up sharply from the 370,400,000 pounds recovered in

During 1943 Canadian aluminum snt to the United States amounted to 428,700,000 pounds, compared to the 262,800 pounds Canada shipped to the United States in 1942. The WPB recently ordered a number of aluminum production lines closed down because the output of primary aluminum exceeded combined military and essential civilbined military and essential civilian requirements.



Officials of aluminum plant hold first ingot of this precious war metal ever processed in Arkansas—poured August 1, 1942, after being manufactured with power from Southwest Power Pool.

Confederate Home Ore

Reports that sentiment attached to the aging Confederate Home may give way before the nation's need for bauxite were confirmed yesterday when Governor Adkins said he was informed the War Production Board desires the aluminum-producing ore underly-

Production Board desires the aluminum-producing ore underlying the institution.

The governor said he would take no action until an official request for the bauxite deposits is received. He said the United Daughters of the Confederacy will be consulted before any move is sanctioned.

A 1941 survey of the 40-acre tract, lying a stone's throw from the Sweet Home bauxite deposits, indicated it contained about 350, 1000 tons of high grade ore. An official of the Republic Mining and Manufacturing Company estimated the reserve as much higher. On the basis of prices being paid for Sweet Home ore, the state deposits probably would produce about \$1,500,000 or more. The first indication that early action was considered came Friday when H. K. Thatcher, executive director of the state Geology Department from Washington for an estimate of the total deposits beneath the Confederate Home property.

Home Needed for Inmates. Confederate Home property.

Home Needed for Inmates.

"Any plan to develop the property would require an investigation of possible housing facilities for the five remaining Confederate veterans and the 80 wives and daughters of veterans now in the

daughters of veterans now in the nome." the governor said.

One official suggested a one-story building might be constructed on property of the Arkansas Schools for the Blind and Deaf on West Markham street.

The Confederate Home appropriation is \$53,920 a year, which provides \$1.43 per patient daily. Of that figure, 65 cents is allocated to salaries for 50 employes, leaving 78 cents for maintenance and care of patients.

Aluminum Cutback To

being studied. 3. Shutdown of about 17 lines, government and privately owned, were said to be planned, including four halted by WPB last week. Alcoa is closing five of the 12 lines at its plant in Alcoa,

Tenn, biggest in the country.
Such action would cut production over 500,000,000 pounds a year, or about one-fourth of the country's capacity. The nation, however, has never produced at capacity. Four West coast lines, finished last year, have never been brought into production. At first they couldn't be manned; later they remained idle

because of the surplus Wilson's statement, declaring continued "overproduction "seems patently inconsistently with the cause of Allied victory" when both coal and manpower are scarce, followed charges by the C. I. O. Aluminum Workers of America. The union's president, N. P. Zonarich, asserted Friday that the cutbacks were due to "collusion to advance private in-terest" and were "depriving the military forces and the civilian pop-ulation of vital aluminum products."

WPB Desires ALUMINUM FOR WAR PROGRAM FAR OVER TOP

11-3-43 Gains by Industry Prodigious.

Washington, Nov. 2—It cost a billion dollars plus, but the aluminum-for-war work is over the top, producing 100,000,000 pounds in excess every three months.

Arthur H. Bunker, director of the Aluminum and Magnesium Division of the War Production Board today unfolded the hitherto secret story of prodigious growth from a pre-war midget to an industrial giant.

Highlights of the report:

When the rearmament program began in mid-1940, the United States produced a limited amount of aluminum unsuited for war needs, and almost no magnesium.

Fabricating equipment could not be converted to military produc-tion, and a billion-dollar fabricating plant system was built from the

ground up.
Plane production was measured in dozens per month; in October, 8,-300 units were produced, each utilizing light metal.

Bunker estimated the following production increases for 1943, as compared with 1939. Domestic bauxite, 1200 per cent; aluminum tubing 300; aluminum sheets, 700 per cent; aluminum rod and wire 1200; per cent; extended shapes, 1006 per cent; aluminum forgings, 4,500 per cent:

Aluminum supplies for the fourth quarter of 1943 were set at 871,200,-000 pounds, almost 100,000,000 pounds in excess of the 774,000,000

Scrap aluminum salvaged for resmelting now amounts to 70,000,000 pounds a year, double the total pre-war United States production of primary aluminum.

Employment in the industry has grown from 30,000 in 1939 to 200 pounds required.,

grown from 30,000 in 1939 to 200,

Present annual requirements of the industry include: 200,000 tons of

There were these other developments affecting an industry on which the government alone has spent \$500,000,000 for new plants and which now is production have been closed down with the government alone has spent \$500,000,000 for new plants and which now is production for the War Production Board reportedly was preparing to annunce that currently planned decreases will be closer to 25 per cent than to the 40 per cent siash officially announced last week.

2. Influstry sources said the contemplated cuts still would leave a surplus of supply over demand for the light metal, although structural shifts from steel is altiminum in some munits.

Since then Russi the entry remainting production prograde and workers to allow for turn decreases will be closer to 25 per cent than to the 40 per cent siash officially announced last week.

2. Influstry sources said the contemplated cuts still would leave a surplus of supply over demand for the light metal, although structural shifts from steel is altiminum in some munits.

Since then Russi the state of a prominent part in the aluminum industry from the light metals picture. He estimated the freight rates, plus developments making possible so economical a system of processing low grade ore, has given the Hurricane Creek process.

In the state of a prominent part in the aluminum industry, long after the war is over. The climination of expensive freight rates, plus developments making possible so economical a system of processing low grade ore, has given the Hurricane Creek process.

In the state of a prominent part in the aluminum industry that of the structural state of a prominent part in the aluminum industry that of the state of a prominent part in the aluminum in the system of processing low grade ore, has given the Hurricane Creek processes in the state of a prominent part in the aluminum in the system of processing low grade ore, has given the Hurricane Creek processes.

In the state of the state of a prominent part in the aluminum industry of the registration of expensi

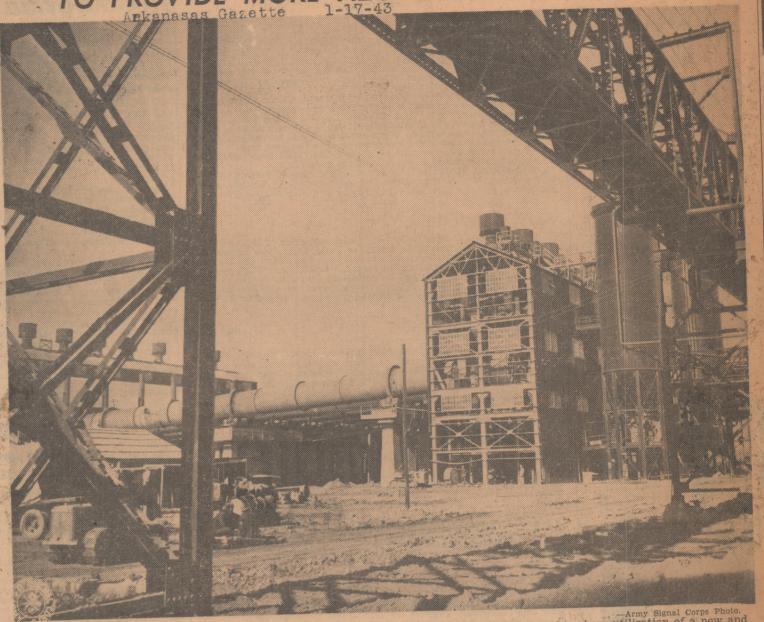
quirements.

Since then Russia has agreed to take one-third of its fourth-quarter aluminum requirements in secondary metal, and secondary metal is being used in place of some former metal substitutes.

tion. And from the processing operation.

Man-made mountains of high grade ore are being piled at the back door of the plant, and enough has been accumulated to operate the plant for several months at the plant for several months at

HURRICANE CREEK ALUMINA PLANT IN SALINE COUNTY SOON TO PROCESS LOW GRADE BAUXITE TO PROVIDE MORE ALUMINUM FOR WAR EFFORT



An unusual view of a major unit of the new Hurricane Creek alumina plant in Saline county, where utilization of a new and economical process for handling low grade bauxite promises to give Arkansas a permanent aluminum industry, even in the post-war era when high grade ores can be imported cheaply from South America. Large calciners used for drying the ore are at the left and precipitators used in the process of claiming the alumina are at the right. Some idea of the size of one of the plant's principal buildings can be gained by comparing it with the workmen and tractor in the lower foreground,

the plant for several months at full capacity. The plant is in pro-duction, but several of its processing units still are in the blueprint

Spirit of Co-operation Evident Among Workers.

Everywhere in the Hurricane

ficer at Camp Robinson, designated as safety officer for the plant, a Gazette reporter climbed steel stairs following the ore through its miles

following the ore through its miles of processing.

Initial Operation Separates
Silica From Bauxite Ore.

In dump trucks, the ore is brought from the mines into the plant's stockpiles, from which it is loaded on other trucks and dumped into large crushers to begin the actual processing This crushing unit has the appearance of any rock crusher, except the conveyor towers, larger than average, seem small by comparison to the rest of the Most Impressive Scene.

After passing through the filters, the sodium aluminate solution is dumped into precipitating tanks as high as the average six story building. The tanks are about 20 feet in diameter, and are open at the top and funnel-shaped at the bottom The solution enters from a constant agitation by air pressure from a pipe in the center.

After passing through the filters, the sodium aluminate solution is dumped into precipitating tanks as high as the average six story building. The tanks are about bottom The solution enters from a constant agitation by air pressure from a pipe in the center.

After passing through the filters, the sodium aluminate solution is dumped into precipitating tanks as high as the average six story building. The tanks are about 20 feet in diameter, and are open pipe near the top and undergoes constant agitation by air pressure from a pipe in the center.

After passing through the filters, the sodium aluminate solution is dumped into precipitating tanks as high as the average six story building. The tanks are about 20 feet in diameter, and are open pipe near the top and undergoes actual processing This crushing unit has the average six story building. The tanks are about 20 feet in diameter, and are open pipe near the top and undergoes actual processing This crushing unit has the average six story building. The tanks are about 20 feet in diameter, and are open pipe in the centers.

Everywhere in the Hurricane Creek system is evidence of production and construction side by side, each co-operating in an effort to speed both phases. Trucks bringing in ore for the stock piles give way steadily to other trucks with construction materials.

Construction workers build receiving pits for the crushers at the initial stage of the process, while other workers unload trucks to send the ore on its way to become fighting planes and other vital units in the United States big part in the war effort.

Accompanied by Thomas C. Jones, in charge of operations in Arkansas for the Aluminum Company of America and Lt. Walter

res, larger than average, seem small by comparison to the rest of the plant.

After the ore is ground into small units not more than two inches in diameter, the ore is sent through a washing process to remove as much of the clay as possible. As the bauxite comes from the mines it contains clay which has a high percentage of silica (silicon oxide) which is an undesirable impurity and must be separated from the bauxite in the initial operation.

Bucket conveyors and belts carry the bauxite from this first cushing operation to large screens where the ore is sprayed with water. It is washed several times, then dried and ground into a powder.

Workers Salvage Canvas

Filters for Tent Habitations.
In a complicated procedure which involves a series, of huge round tanks, cannected with pipes and other conveyor systems, the ore is mixed with hot caustic soda solutions. These units are called digestions. These units are called digesters the sodium aluminate solution while the red mu dresidue is retained.

The filters require enough canyas each month to house a goodsize circus, because each filter will in last about eight hours on the average of it if becomes strained or sustance are filt if the comes strained or sustance are filt in the center becomes and the permanency of the plant date of the bediening and the permanency of the building is under construction, with steeplejacks hamber of the building is under the bui

to moisture-proof cars for delivery to the Jones Mills Works or to similar plants in more distant parts

Everything about the plant furthers the impression that it was built as a permanent unit. It is entirely of steel and concrete The future of the plant after the war depends upon the amount and quality of ore availble in the vicinity and whether the plant can produce aluming. er the plant can produce alumina more economically than other more economically than other plants, using higher grade imported ore. With use of even lower grade ore, the Hurricane Creek plant may give the foreign-produced ore real competition. There is a possibility that foreign ore may be shipped to the plant for processing

New ore bodies discovered in the

Sees Hope For Civilians to Get Plant At More Aluminum Plant At Catherine

Arkansas's aluminum plant at Lake Catherine may be one of the very few war industries that will survive the war, Engineer-Director L. A. Henry of the state Planning Board, said yesterday. He based the prediction on a report recently released by the Senate's Special demand in stockniles of the area. Lake Catherine may be one of the released by the Senate's Special demand in stockpiles of the area.

Wyoming, chairman of a subcommittee on industrial reorganization,
attitude toward the future. said the cost of operation of several other of the "10 or 12 new aluminum plants" in the United States may be too high for them to produce the smaller amount of aluminum which will be needed

after the war.

All the plants make monthly operation reports to the Defense Plant Corporation, including the cost of production, Senator O'Mahoney's report said. "These figures disclose the probable extent of survival after the war and, the chances of competition in the alum-inum industry," said the report.

Plants' Chances Analyzed. The largest aluminum plant in the world is in Greater New York. was built there as a war emerpower from the Consolidated Company, but at a prohibiprice per kilowatt for peace-

Other huge plants are in Eastero areas where power cost also is prohibitive from the point of view survival after the war. Other his aluminum plants are in the Pa-Northwest where power costs quite low. However, trans-

plants is expensive."

The report said a "probable decline immediately after the war" in aluminum production "creates postwar problems of the first recommendately after the war" in aluminum production "creates postwar problems of the first recommendately after the war" in aluminum production "creates postwar problems of the first recommendately after the war" in aluminum production "creates postwar problems of the first recommendately after the war" in aluminum production "creates postwar problems of the first recommendately after the war" in aluminum production "creates postwar problems of the first recommendately after the war" in aluminum production "creates postwar problems of the first recommendately after the war" in aluminum production "creates postwar problems of the first recommendately after the war" in aluminum production "creates postwar problems of the first recommendately after the war" in aluminum production "creates postwar problems of the first recommendately after the war" in aluminum production "creates postwar problems of the first recommendately after the war" in aluminum production "creates postwar problems of the first recommendately after the war" in aluminum production "creates postwar problems of the first recommendate production" in aluminum production "creates postwar problems of the first recommendate production" in aluminum production "creates postwar problems of the first recommendate production" in aluminum production "creates postwar problems of the first recommendate production" in aluminum production "creates postwar problems of the first recommendate production" in aluminum production "creates postwar problems of the council are production" in aluminum production "creates production" in aluminum production "creates postwar problems of the council are production" in aluminum production "creates production" in aluminum production "creates production" in aluminum production "creates production" in aluminum production" in aluminum production "creates production" in aluminum produ postwar problems of the first magniture." It said the DPC has a staff "analyzing and organizing arkansas Gazette the great volume of material in the direction, first, of readjustments in the production program that may be required during the war, and second, those which will that may be required during the war, and second, those which will hot Springs

Silence May Be Significant. Mr. Henry considered it was significant that the report did not mention the Arkansas plant as one are in the Tennessee valley.

The combination of potentially low electric power costs and nearness to raw materials (since Ar- companies of the country, arrived kansas produces more than 95 per in Hot Springs tonight following cent of the nation's domestic baux-inspection of the alumina plant on its may mean the Lake Cathanian ite) may mean the Lake Catherine plant will be operated after the war, Mr. Henry said.

An electric generating plant at the aluminum plant, now about 85 per cent complete, probably will be able to produce power at less

than three mills per kilowatt hour, he predicted. The plant cannot be operated until the War Produc-Board grants priorities for

With installation of the latest type of steam boilers, which have a 34 per cent efficiency compared with a 20 per cent average for older type plants, the Lake Catherine plant may be able to obtain electricity at rates lower than those

It can be fueled by purified sour gas from South Arkansas fields. The gas is obtainable for five cents 1.000 cubic feet and is considerably cheaper than coal, he

Hydro power from White and Ouachita river dams will add to the available supply. Norfork dam on the White river, scheduled to begin generating next February, will at first have a 70,000 kilowatt power unit but will be capable of having another unit of the same potential, he said.

Arkansas' greatest contribution to the war effort has placed the aluminum industry in a position to start supplying some civilian needs, Pres. Roy A. Hunt of the Aluminum Company of America, indicated in a statement made in Pittsburgh today.

Committee on Postwar Economic
Policy and Planning."

A report to the committee by
Senator Joseph C. O'Mahoney of
ed out although independent opera-

Study Aluminum

The critical part that aluminum is

The critical part that aluminum is playing in the present world conflict and the importance of that industry to the state of Arkansas resulted in the project, "The Study of Aluminum" being cartied on in three 7A geography classes directed by Mrs. Ruby Weatherly in West Side Junior High School.

Materials for study were gathered from reference books and periodicals, especially the current newspapers. Each student felt it his responsibility to find interesting and valuable information to present to the class for discussion. Many students made trips to the State Museum, the State Capitol Building, the office of the state geologist and office of the state geologist and aluminum plants gathering informa tion and specimens of bauxite to give to the class.

At the completion of the project Richard J. Anderson, state geologist, spoke to the classes, bringing them first hand information as to the processes used in the plants in the

Sponsors for the Student Council have been elected as follows: 9A, Mrs. Mary Harrison; 9B, Miss Flora Hammett; 8A, Miss Olive Chandler; 8B, Mrs. Ella Humble; 7A, Mrs. Ruey Weatherly; 7B, Miss Myrtle Williams

Special to the Gazette. Hot Springs, Nov. 9.—More than 40 representatives, including superof those with high production costs, intendents and electrical engineers The only others not so mentioned of all reduction plants of the Aluminum Company of America, and of leading electrical manufacturing Hurricane creek, near Benton, and the properties of the Republic Min-

said the impression the visitors re-ceived "was that of the great magnitude those industries represent-

"This was the first time that a majority of our party had ever visited those plants," he said. "The inspection of both was a revelation. Many of them had not seen the mining operations, and they marveled at it. The day will long be remembered, and most pleasantly,

Kiwanis Club Guests. Mr. Bohn and Victor C. Doer-

schuk, Pittsburgh, general super-intendent of all reduction plants, will address members of the Kiwanis Club tomorrow night.

Members of the party will be the guests of Harry S. Slagle, super-intendent of the Jones Mills Works aluminum plant, Lake Catherine, tomorrow. The inspection will take the greater part of the day.

Friday and Saturday will be given

over to executive sessions, at which problems having to do with the production of aluminum will be dis-

No End of Aluminum in The Earth—If You Can Get It.

To describe clay as "aluminum-bearing" is like describing water as wet. The statement that large bodies of clay discovered in Oregon, Washington and Idaho contain better than 30 per cent aluminum and fall into the "potential commercial class" of such deposits was the significant part of an announcement made by the United States Geological Survey.

Until recently aluminum has been produced in relatively limited quantities by comparison with metals like iron or copper, but in reality it is the most abundant of all metals, and, second only to oxygen and silicon, the most abundant of all chemical elements. It is believed to constitute a thirteenth part of the earth's crust.

Abundant as it is, however, aluminum is never found in a metallic state. The bulk of it is diffused all through the earth's clay banks and clay beds, whose principal constituents are aluminum oxides or silicates. The remainder is concentrated in hard ores, chiefly bauxite.

Heretofore industry has relied on bauxite, which has an aluminum content running from 50 to 65 per cent in the Arkansas rock to as high as 75 per cent in some French bauxite, as the source of commercial aluminum metal. But every deposit of clay might truthfully be called a deposit of lowgrade aluminum ore, and clay containing better than 30 per cent is now believed to be workable. In fact, a pilot plant for processing the Oregon, Washington and Idaho 30-per cent clays is already in operation, and a \$4,000,000 commercial plant has been approved by the War Production Board.

The reason for this intensive interest in aluminum from clay is that the known domestic supplies of bauxite, chiefly in Arkansas, are limited. The Geological Survey is looking toward a time when the country may have to depend on clay as a domestic source. But that time is not yet in sight. For present needs, Arkansas has plenty of bauxite left, and other deposits have been found in Mississippi, Georgia, North and South Carolina and Ala-

Aluminum Cut Not to Affect State's Plants Democrat. Jan. 1944 Maximum Capacity **Maintained Despite**

Order From Ickes. Although the War Production Board Friday night ordered a reduction in production lines in several federally - owned aluminum plants in the East in the apparent sweeping cutback in aluminum output, the Jones Mills and Hurricane Creek plants in the Arkansas bauxite area are continuing operation ite area are continuing operation at a maximum capacity, Harry Sla-gle, works manager, said yesterday. Arthur H. Bunker, WPB vice chairman for metals and minerals. indicated the board may order the shutdown of as many as 15 lines within the next few days.

within the next few days.

Alcoa had previously voluntarily taken one line out of production at its Alcoa (Tenn.) plant, and a company spokesman said more lines would be closed there. The WPB order curtailed production in the federally-owned Burlington (N. J.) and Massena (N. Y.) plants. Represented and Massena (N. Y.) plants. Representative Horan (R., Wash.) said Mr. Bunker informed him the Massena plant would be closed January 30. Both are operated by Alcoa.

30. Both are operated by Alcoa.

Certain Factors Lacking.

Mr. Slagle said fuel and transportation will probably be made deciding factors where reductions in production are made. Coal is used in generating the steam for power in the plants at which lines have been closed, and will be a factor in future decisions.

With the Arkansas alumina and aluminum plants within the mining belt where 96 per cent of native ore is produced, and piped-in gas-burning Deisel engines are used for power, there is neither the problem of draining the nation's coal supply or the use of rail transportation facilities involved here, Mr. Slagle stated.

However, he cited the fact that any reductions, anywhere, are unpredictable from his source as decisions are entirely up to WPB, and not within the power of dictation by Alcoa in the plants which it operates for the government. Alcoa has already curtailed production of aluminum in the plant and 10 per cent in its East St Louis plant, where one is processed to purity necessary for the electrolytic process which reduces it to ingots. These plants are completing the same process as the Hurrican Creek alumina plant near Bauxite.

The WPB action Friday night directed the closure of two out of three lines in the Burlington plan and two out of eight lines in the Queens plant in Maspeth. Further

three lines in the Burlington plan and two out of eight lines in the Queens plant in Maspeth. Furthe cutbacks were predicted by Mr. Bunker, and he also indicated th coal shortage would be taken int consideration in future decisions.

Ickes Pessimistic.

thousands of persons in these other industries have, during the war, learned to work aluminum for the first time, and many new businesses have become acquainted with the metal's advantages.

Other Contrasts.

Further significant

Aluminum's Expansion

has been a year of encouraging contrast to the somewhat apprehensive early years of World war II.

In February 1941, aluminum was the first essential material to be placed under priorities. In November, 1943, it became the first priority material to achieve production so vastly increased that the government was able to invite manufacturers to request allotments for economic and constructive civilian uses.

tive civilian uses.

In 1940 and 1941, there existed in certain quarters highly vocalized fears of shortage. Those fears have now been answered by ingots and sheets, and other forms of aluminum, in definite and growing surpluses over military needs. The aircraft industry, consuming 90 per cent of the aluminum that goes for war needs and now producing at a war needs and now producing at a rate of more than 100,000 units a year has never been short of the metal.

The aluminum industry, in 1943, reached an actual production rate of more than 2,100,000,000 pounds of metal annually. This is seven times the nation's peak peacetime production. It is one and one-half times the annual production of the whole world before this war, when Germany, building the Luftwaffe, for a short time exceeded the production of the United States, where only a few thousand planes were then on order to be delivered over a period of several years. America's capacity to produce aluminum, as we enter 1944, is certainly far in excess of what all the Arcountries together can produce.

In Terms of Future Jobs.
What this vast aluminum expansion will mean in times of future jobs will become clearer as the metal is released for civilian consumption. This is especially true as industry begins to use it for new applications growing out of wartime experiences or encouraged by the present favorable price position of aluminum. Alcoa's

Further significant contrasts noteworthy in the industry today

coal shortage would be taken in consideration in future decisions. Ickes Pessimistic.

However, Secretary of Interior Ickes has stated that he is "not impressed by statements that we have too large a surplus of aluminum." And the fact that WPB asked in November for requests for alloiments of aluminum for use in producing metal products is also a factor favoring continued maximum operation of the alumina and aluminum plants in the Arkansas bauxite field. "Everything favors the Arkansas plants," said Mr. Slagle. "We are keeping up to capacity production and the only curtailment here has been in mining which was ordered grown to proportions which will permit continued capacity operation for months without the coal shortage or transportation problems entering the picture."

Tells Of

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The september 1, 1939 are: Aluminum to company of America was a secondared to pacetime days become a for would go on county tomorrow to inspect the on county tomorrow to inspect the on county tomorrow to inspect the company of America was a september 1, 1939 are: Aluminum the United States; now plants owned by the

Aluminum Exhibit Given To

through Harry Slagle, superintendent of the Jones Mills Plant at By ROY A. HUNT.

President, Aluminum Company of:

America.

For the aluminum industry, 1943

miner and from the Jones Mills Plant at Lake Catherine, has donated to Hot Springs National park museum material from the Bauxite miner and from the Jones Mills Plant at Lake Catherine, has donated to Hot Springs National park museum material from the Bauxite mines and from the Jones Mill and Hurricane Creek plants.

years arbitrarily.

STATE SALE OF Arkansas Gazette **40-ACRE TRACT** TO BE PROBED

Appraisal Under Scrutiny.

Two state officials will go to Washington county tomorrow to investigate appraisal and sale at \$1.50 an acre of state-owned land that was assessed at \$50 an acre when certified to the Land Office two weeks earlier for non-payment of taxes.

A 40-acre tract in the fruit-producing section near Springdale was assessed at \$2,000 when it was forfeited to the state for non-payment of 1939 taxes. After an accumula-tion of three years' taxes, the land was included in the list of delin-quent property certified to the state November 11, 1942.

November 11, 1942.

Although appraisers employed by the state Land Use Committee do not usually inspect and place an appraisal so quickly after land is certified to the state. Appraiser M. I. Shuster visited the 40-acre tract November 27 and filed a report valuing the land at \$1.50 an acre.

The land was bought immediately by Lofton and Hal Brogdon, Springdale farmers and orchardists.

Make Investigation.

Advised of the transaction Land Commissioner Bush Binley an-counced he would go to Washington county tomorrow to inspect the property. Comptroller J. Bryan Sims assigned Auditor Homer Jack-

Mr. Brogdon said he was forced to pay Mr. Schuman several hundred dollars for the latter's state deed, which was necessary to re-Hot Springs Museum.

Hot Springs, Jan. 19 (Splf.—The Aluminum Company of America,

Mr. Brogdon said he didn't care

at to explain why the county assess-ment on his property was \$50 an to acre, but said it was too high. Formerly, persons who desired to pur-chase state-owned lands for a frac-tion of their accumulated taxes and Hurricane Creek plants.

The exhibit includes bauxite ore, alumina oxide and aluminum in-

This measure, Act No. 282 of 1939, was abused so widely that the Land Use Committee and Mr. Bin-

ley, as secretary, co-operated in an

injunction suit to halt the practice.

Mr. Binley suggested that the
1939 Land Policy Act be amended
to prohibit the sale of tax-forfeited
land for less than the amount of
accumulated taxes when an appraisal discloses the property to be ery desirable. Mr. Shuster, a former Madison

Mr. Shuster, a former Madison county judge and state senator, was appointed a member of the state Corporation Commission by Carl E. Bailey when the latter assumed the governor's office in 1937. A few months later, he was removed from office when the then governor announced that Mr. Shuster's services had proved unsatisfactory. The ex-commissioner camfactory. factory. The ex-commissioner campaigned vigorously against Mr. Bailey in the gubernatorial campaigns of 1938 and 1940.

Considerable State Land In Bauxite Area Sold.

State officials admitted day they did not know whether re-cent purchasers of tax-forfeit i ands in Pulaski and Saline counties were producing bauxite with-out remitting severance taxes to

Speculation arose when a Little Rock real estate broker purchased about 10 acres found on the state's about 10 acres found on the state's books as town lots and described as situated in Diana's Addition to Little Rock. Although far outside the city limits, between Sweet Home and Mabelvale, the property

till is classified as town lots.

The property is near the bauxiteproducing area. It was bought for

Land Office officials said about 7.000 acres of state-owned lands had been sold in the Pulaski-Saline area since passage of a statute requiring the state to retain mineral ights in all deeds to rural prop-

They said bauxite or other minerals probably could be removed from the lands without reporting the action to the state. But any person who severed minerals under

such conditions would be violating the law, they explained.

The state is empowered to lease its mineral rights on the basis of 10 cents an acre and one-eighth royalty after production begins.

BAUXITE MINING AT SWEET HOME MAY. ELIMINATE VILLAGE

Arkansas Gazette 10-11-42

ago as having an official popula-tion of 2,579 persons.

Tunnels Near Highway. f 2,579 persons. Production Increases.

Bauxite miners, drillers and truck her old home. Throughout the day haulers are giving out discordant she sits on her back porch, smokhaulers are giving out discordant she sits on her back porch, smokhaulers are giving out discordant she sits on her back porch, smokhaulers are giving out discordant she sits on her back porch, smokhaulers are giving out discordant she sits on her back porch, smokhaulers are giving out discordant she sits on her back porch, smokhaulers are giving out discordant she sits on her back porch, smokhaulers are giving out discordant she sits on her back porch, smokhaulers are giving out discordant she sits on her back porch, smokhaulers are giving out discordant she sits on her back porch, smokhaulers are giving out discordant she sits on her back porch, smokhaulers are giving out discordant she sits on her back porch, smokhaulers are giving out discordant she sits on her back porch, smokhaulers are giving out discordant she sits on her back porch, smokhaulers are giving out discordant she sits on her back porch, smokhaulers are giving out discordant she sits on her back porch, smokhaulers are giving out discordant she sits on her back porch, smokhaulers are giving out discordant she sits on her back porch, smokhaulers are giving out discordant she sits on her back porch, smokhaulers are giving out discordant she sits on her back porch she sits on her

Tunnels Near Highway.

The Sweet Home Bauxite Company the Sweet Home Bauxite Company, are making rapid progress increasing production of bauxite. This group so far has had little difficulty persuading residents to move from property where bauxite is located. Four houses have been torn down, one had a little difficulty persuading residents to move from property where saidents to move from property houses have been torn down, one had probably that all houses located. houses have been torn down, one has been moved out of the producting area and another, occupied by an aged Negro woman who has refused to move, is being circled with exceptions of the highway will be moved or torn down. Business establishments probably will be left stands

with excavations
The old Negro, who declared she didn't remember how old she is, "guessed" she "was around 80." She lives on the western edge of the producing area. She told miners she did not care where they dug she just didn't want to leave ments probably will be left stanging, they said.

Company officials said bauxite ore was being produced at a rapid rate at the mines. The only difficulty encountered, one official said is transporting the ore from the mines to a stockpile at Ward's spur, six miles from Little Rock

the WPB would have requested

mining of the tract and pushed plans to have the ore utilized, if it were not needed badly for the war effort," he said. The Confederate Home tract continues one of the few known high grade ore deposits remaining in the United States.

A contract with the Metals Reserve Company must be approved by the state Bauxite Commission, established by the 1943 legislature to supervise mining of the tract, and by the Confederate Home Board before work begins. Gov-ernor Adkins said he had not been notified by the WPB of any change in plans regarding the Confederate

CAPITOL Estimates Placed On

State Bauxite

Complete data concerning the estimated amount of bauxite underlying the Confederate Home is ready for mailing to the Metals Reserve Company at Washington today, Joe Hardin of Grady, chairman of the state Bauxite Commission, said here yesterday.

At the request of the federal agency, which has tentatively offered the buy the bauxite, the state has prepared estimates of only the highest grades of bauxite at the 20acre Sweet Home site, Mr. Hardin said.

State Geologist Joe W. Kimzey has estimated 361,000 tons of ore with an average alumina content of 52.46 per cent, silica content of 10.17 per cent and ferrous iron content of 4.59 per cent are available, Mr. Hardin said.

to 470,000 tons with a higher silica and iron content, he said.

The state would receive more than \$1,800,000 from Metals Reserve if all the ore were mined on either

Adkins Urges Approval. Governor Adkins prepared a letter to the War Production Board, which must approve any contract Metals Reserve proposes to make, southeast of Little Rock was being

The War Production Board's new ters. order reducing bauxite mining Commission Would operations because of the manpower shortage probably will not affect plans to mine ore under the

STATE BAUXITE BEING DRAFTED

Arkansas Gazette 1-25-43

Metals Reserve will pay premium prices of \$5.06 per ton for this ore compared to \$4.01 for the 400,000 \$1,000,000.

A bill to enable the state to cash

in on an estimated \$1,000,000 worth urging favorable action.

Mr. Hardin said WPB officials terday for introduction this week.

Material terday for introduction this week.

Collaborating on the measure were Representatives Parker of furnish priorities for relocating the Confederate Home. The Bauxite of Clark, Senator Reaves of Herman mitage and several state officials. Commission and Confederate Home mitage and several state officials.

Board recently voted to build a Parker said the move to sell the

Board recently voted to build a \$100,000 home on property of the deposits and to move the home to old Arkansas School for the Blind on South Center street.

Letters of intent given the commission by Metals Reserve several months ago specified an advance of \$200,000 for beginning the mining operations and relocating the home.

Expects to Mine Land

At Confederate Home.

Parker said the move to sell the deposits and to move the home to a new location had been given impetus by a War Production.

Previous moves to mine the property have been vigorously opposed by the United Daughters of the Confederacy and the Sons of Confederacy and the Sons of Confederate Veterans. There now are five veterans at the home and a dotal of 84 residents, including veterans, wives, widows and daugh-At Confederate Home. erans, wives, widows and daugh-

fect plans to mine ore under the Confederate Home at Sweet Home, Governor Adkins said yesterday.

He said the state has gone to considerable expense to make tests on the property and expressed belief that at least 300,000 tons of bauxite at the home should be high grade ore. He said the federal government still needs such ore badly for abrasive. "I don't believe

Sweet Home cut-off.
Road Needs Repairs.

Trucks, loaded with approximate-ly five tons of ore each trip, have reduced to 50 miles an hour Octomade huge holes and ruts in the road, causing much time to be lost in making the trip to the stockpile. In some stretches on the cutoff there are holes as deep as deep are researched.

haulers are giving out discordant notes to the old refrain of Home Sweet Home, as they go about the work of producing the huge quantities of ore needed to make aluminum for the war effort.

Residents of Sweet Home, the few remaining, definitely believe it isn't as sweet as it once was. The little village, about six miles from Little Rock, was listed a few years ago as having an official popula-It was pointed out that the great majority of the county's bauxite deposits are on the Sweet Home side of Granite Mountain. It has been estimated that more than 325,000 tons of bauxite, of which 159,000 tons is of unusually high grade, can be mined on the Arkansas Confederate Home property.

pany said government agents had discussed the prospects of a stockpile near College Station but said they believed no action would be taken before the middle of Desamber.

Addifficial of the bauxite company said government agents had discussed the prospects of a stockpile near College Station but said they believed no action would be taken before the middle of Desamber.

cember.

is to retain title to the property and to contract with a dependable mining firm to mine the deposits and deliver them to the government stock pile on a fee basis," the Hot Spring county legislator said. Figuring that there are approximately 325,000 tons of merchantable for two more to be operated on the

new buildings. He suggested that cottages might be built on the old Arkansas Deaf School property in Little Rock.

Revenue Could Be Applied on Bonds.

toward retirement of the remaining \$\\$6,119,000 worth of Confederate pension bonds issued from 1927-30 and scheduled to mature in 1951. A two-mill property tax is levied for debt service on the bonds, pension payments and upkeep of the Confederate Home.

Governor Adkins made public Saturday a letter from Director A. H. Bunker of the WPB's Aluminum-Magnesium Division which said the amount of high-grade lowsilica bauxite which was essential for certain uses had declined alarmingly and that under these circumstances the high-grade ores on the Confederate Home tract "should be made available for the

war program."
The legislature, which has moved slowly the first two weeks of its session, is expected to gather speed this week with introduction of first budget bills and committee consideration of liquor, labor and racing

bills.

A member of the Joint Budget Committee, who declined to permit use of his name, said proposals for further consolidations of state departments probably would be discussed this week. He said consolidation of the insurance and bank-ing departments had been discussed. ed. The committee recommended last week that the Publicity Department, Agricultural and Industrial Commission and Planning Board be merged in one depart-

Most of the legislators returned home over the week-end. The House will reconvene at 1 p. m. and the Senate at 2 p. m. today.

Milum Willing To Meet With Adkins.

Roy Milum of Harrison, leader of an anti-administration group in the Senate, said yesterday he would be glad to confer with Governor Ad-kins on the latter's invitation, concerning two bills which he intro-duced in the Senate Friday, to aid the State hospital. One would provide a \$450,000 building program for the Benton unit and the other would appropriate \$110,000 to supplement the food budget for the remainder of the biennium. Gover-nor Adkins said Saturday he would be glad to have Mr. Milum sponsor regislation to aid State hospital. The governor said he welcomed all help possible on the hospital problem and "I'm not going to carry personalities into this matter.'

on the Arch street pike. Transportation of the ore from Sweet Home to the stockpile is principally on the Dixon road, known as the 60 miles an hour.

ber 8, 1941, as a safety measure. The reduction was made on an experimental basis, but, after three

perimental basis, but, after three months, it was made permanent. Governor Adkins ordered the limit cut to 40 as a tire conservation measure last June 5. Co-operating with President Roosevelt's suggestion, the Highway Commission fixed a war speed limit of 35 miles an hour September 17.

The National Safety Council announced vesterday that the Arkan-

The National Safety Council announced yesterday that the Arkansas traffic fatality rate during the first eight months of 1942 was 32 per cent less than in the corresponding period last year. The council reported the Arkansas decrease was the twelfth greatest in the nation.

Confederate Home property. An official of the bauxite com- Additional Bauxite

bauxitic material have been discovered in Pulaski county recently,

mately 325,000 tons of merchantable bauxite on the 40-acre Confederate Home tract which would sell for an average of \$4.50 a ton, Parker said the state should net \$1,000-000 after paying all mining charges. The proposed bill would leave to the board the matter of arranging new living quarters for Confederate Home residents. It will provide that part of the funds from sale of the bauxite could be used to erect posits last week, but failed to find new buildings. He suggested that

anything of commercial value.

CAPITOL

Parker said moneys derived from saie of the bauxite could be applied toward retirement of the remaining \$\$ 6.119,000, worth Board Agrees Ark. Gazette

Members of the Confederate Home Board of Trustees have agreed to a War Production Board request that bauxite deposits beneath the surface of the institution's property near Sweet Home be developed to aid the war effort, Governor Adkins said yesterday.

"The board felt it should take advantage of the opportunity to dispose of the ore," he said. "But we will be certain that the large deposits supposed to be under the home are really there, before we

The executive said the state's fiscal authorities have been asked to work out a plan under which \$15,-000 would be made available for new drilling tests and \$100,000 for a building in which to house the dwindling number of veterans, their wives and daughters. He said an interested federal agency might be willing to provide funds to meet the cost of drilling.

Tests have indicated that about 300,000 tons of high grade bauxite are deposited in the area.

Governor To Name Bauxite Commission

Ark. Gaz. 5-4-43

Governor Adkins announced yesterday he would appoint a state Bauxite Commission this week to negotiate for mining bauxite deposits underlying the Confederate home at Sweet Home as provided by a 1943 act.

The Geology Department has estimated the 52-acre tract contains 350,000 tons of ore valued at about

The commission would supervise a survey of the Confederate home property to determine how the state will have it mined. The bill provides patients at the home must be provided facilities equal to those at Sweet Home if the buildings are dismantled to permit minings Three Years' Supply of Bauxite. Sept. 10,1943

Known supplies of bauxite in the United States would fast only about three years if all imports were stopped, according to the Federal Bureau of Mines.

This means Arkansas bauxite for the most part, since comparatively little has been found elsewhere in the country. Presumably, too, the estimate is based on the present high rate of war consumption for turning out aluminum, and it refers, of course, to the better grades of bauxite required for processes now in use.

Improved processes might make a huge total of lowgrade Arkansas bauxite available for aluminum production. Yet this is only a hope and no very bright one, all things considered.

For years there have been reports of new methods for processing low-grade bauxite, even for extracting aluminum from clay. But evidently the methods haven't proved economical in competition with bauxite of good quality, for nothing came of them. And though better processes may yet be developed, that is still a maybe, against which is the certainty of large imports of high-grade South American bauxite after the war.

Not very promising either is the possibility of substantially more high-grade bauxite being discovered in the state. Discoveries could also be made in other states.

The situation reminds us that many Arkansas minerals which we have regarded as materials for industry, are limited in amount. This is true of our manganese, zinc, titanium, antimony and some others, so far as is known now,

Even our petroleum reserves, though still large, are not inexhaustible. Only a few of our broadly useful minerals seem abundant enough to sustain long-lasting pay rolls.

In contrast with that fact, we do have endless resources for industry, if they are properly cared for, in our timber and farm production. Moreover these have the widest and surest industrial outlets.

Mineral industries can help the state much, and we should go after any in sight. But the main routes to greater and enduring prosperity for Arkansas lead from our farms and forests. They alone replenish their yields—for markets which ingenuity is constantly expanding.

'E' AWARD THURSDAY PLEASES LEADERS IN BAUXITE PRODUCTION



L. R. Branting, left, superintendent of the Republic Mining and Manufacturing Company operations at Bauxite, and J. W. Lewellen, assistant, have served an aggregate of 55 years in the Bauxite fields and plant.

and Navy "E" to the Republic Min-ing and Manufacturing Company at Bauxite Thursday, probably will mean more to L. R. Branting, superintendent of the operations at Bauxite, and the assistant superintendent, J. W. Lewellen, than any other two persons connected with the industry.

They have served the company a total of 55 years between them. They came to Bauxite because it was a place neither had been be-fore, and remained because "it was a good place to work.'

Because of tremendous production required in the war effort, the executives expanded operations of their ore treatment plant to its capacity, then took charge of exploration and ore finding activities for their parent company, the Aluminum Company of America, in the Bauxite area. They have directed activities which you are prorected activities which now are producing 10 times as much ore from the area as was mined during their

he received a telegram offering him a job as civil engineer at the Bauxite mines. He had been over most of the United States, a large section of Europe, and had assisted in the construction of the main thoroughfare through Buenos Aires Are oughfare through Buenos Aires, Argentina, and fought through four

major campaigns in France during the World war, before his marriage. The railroad job kept him away from home most of the time. He wanted a change, and accepted the Arkansas offer in preference to a college professor's job in Oregon, or a mining post in South America. He took the job January 15, 1920, as chief engineer at Bauxite He became superintendent of operations in 1994

Bauxite Commission to Plan Development of Deposits.

Governor Adkins announced yes-terday that the new Arkansas Bauxite Commission will meet with the Confederate Home Board at his

office at 8 p. m. Tuesday to prepare for the development of bauxite de-posits underlying the institution's property near Sweet Home. "I presume the joint boards will

discuss plans to make preliminary tests for the ore," he said. "They have complete charge of the

The presentation of the Army | Pine Bluff, when a friend left the erine may be the most valuable in by the Hall-Heroult electrolytic the lumber business, so the latter kind, its versatile facilities could inquired about the way to Bauxite, be used for numerous operations, and arrived there, 28 miles away, July 6, 1910.

In Washington company and took a job at Bauxite. He wrote Mr. Lewellen that Baux-July 6, 1910.

He has been there since. He manufacture of al went to work under the late Col. at that location.

J. R. Gibbons who had done the The plant has on first mining in the Bauxite fields in 1889. He became the chief clerk.

as superintendent.
Mr. Lewellen can remember well when the company received its first order for 10,000 tons of ore to be delivered during July, 1910. He remembers that Colonel Gibbons exhibited the order with pride to

his associates.

Took Job As Newly-Wed.

Mr. Branting, a native of Nebraska, was a newly-wed and fresh out of the army, with a job as district maintenance superintendent for the Burlington railroad, when he received a telegram offering him. either side to dry it.

It was transported to the railroad at Bryant over rutted roads with wagons and mules, for shipment to Memphis, Tenn., where it was transferred to barges for Pittsburgh, Pa., for reduction and processing.

railroad system to Bryant when Mr. Lewellen started to work, but loading of cars was by hand. He has watched the ore drying system advance from the time when ore was heated in furnaces fed by pine knots, until installation of the huge rotating furnaces heated by natural

gas.
Mr. Branting and Mr. Lewellen Mr. Lewellen, a native of Panola county, Miss., was working for the Bluff City Lumber Company at

ALCOA'S JONES MILLS WORKS ON LAKE CATHERINE NOW PRODUCING METAL FROM ARKANSAS BAUXITE



in the same office he now occupies state. This unit will be fed by Of Aluminum Each Day.

The Bauxite industry was small in those days. The major industry in the county was the big sawmill at Bryant, then one of the largest sawmill towns in the state.

Recalls Old Methods.

The assistant superintendent has notes from the company's records in the early days, when all the ore

resources, even in wartimes at the expense of our government and possibly at the expense of American boys' lives and the lives of our Al-

boys' lives and the lives of our Allies."
Great Reserve Supply.

The geological survey handed the committee a report on its field studies, saying that the existence of large manganese deposits near Batesville has been proved, and that "these reserves constitute a known source of manganese whenever national requirements demand the systematic development of oves of the grades that exist there."

E. W. Pehrson, chief of the economics and statistics service Bureau of Mines, said that in March, 1943, Arkansas produced 97.3 per cent of the bauxite produced in the United States.

Dr. R. S. Dean, assistant director of the Bureau of Mines, said there are about 60,000,000 tons of bauxite and alumina bearing clay "that we know of" in Arkansas, and that about 16,000,000 tons of this represents bauxite of a grade that can be used in existing plants or plants now under construction.

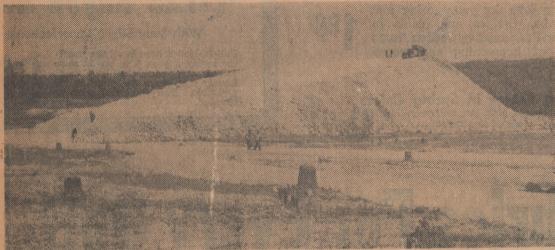
New processes are being developed, several witnesses said, for extracting alumina from the lower grade bauxite and from the lower grade baux

Loughlin, chief geologist of the geological survey, said:

"The present demand for aluminum and the prospect that there will be for aluminum a much greater demand after the war than there was before, and the relatively small reserves of bauxite, which are mainly in Arkansas and are supplemented in a major degree by bauxite in certain other Southern states, makes the low grade bauxite and the clays the coming material from which, so far as I can see, aluminum must be extracted after a while."

Wants Local Processing.





Man-Made Mountain-One Is Valuable, Too

The Is Valuable, Too

the overburden removed in the mining of bauxite on the Reynolds Minay 55 from the Arkanasa Confederate Veterans' Home, near Sweet Home, arthough the processes. The pit created is from 300 to 800 feet deep and extends for more than a half-mille in two hich bauxite is being taken today no effort is being made to replace the until it is needed. It is located in the Sweet Home area. Notice is truck that is bring in in the bauxite in the bauxite is being the continuation of the project at Batesian the stream of the construction of the project at Batesian the stream of the project at th This man-made mountain is the overburden removed in the mining of bauxite on the Reynolds Mining Co., lease just across Highway 65 from the Arkansas Confederate Veterans' Home, near Sweet Home. Hundreds of thousands of tons of earth are removed each month in these mining processes. The pit created in this particular operation ranges from 300 to 800 feet deep and extends for more than a half-mile in two directions. In the speed with which bauxite is being taken today no effort is being made to replace the soil or restore the property although some leases call for restoration. Below: This mountain is a bauxite dump where the mineral is stored until it is needed. It is located in the Sweet Home area. Note the comparative size of the dump and the truck that is bringing in the bauxite from a nearby surface mine. Both surface and underground mining are used in obtaining bauxite. Although the operations are playing havoc, with the scenery, and the surface, most leases bring many times the amount the land is worth in royalties alone. More than 90 per cent of the nation's aluminum is made from bauxite from the Central Arkansas area. (Democrat Photos.)

State Mineral **Deposits Aired** In Washington Pemograt 5-43 From Bauxite Mines

Processed on Ground.

Processed on Ground.

Washington, D. C. (P) — Bauxite, manganese, coal, diamonds, quartz—Arkansas minerals passed in review during congressional hearings on the Interior Department appropriation bill, the record of which was made public today.

The mass of testimony, covering dozens of printed pages, brought forth not only glowing reports on the state's mineral wealth, but also declarations that it ought to be taken out of the ground faster.

Representatives Norrell (Dem., Ark.) and Jensen (Rep., Iowa) charged that efforts are being made to prevent the development of man-

from Africa and India in ships that otherwise would have returned empty from the war zones.

Profits "Awful."

That led Rep. Fitzpatrick (Dem., N. Y.) to assert that the cost of importing a ton of manganese ore has jumped from \$6.50 or \$7 to \$22 and \$23—and "somebody must have realized and a world profit." He

lies."
Great Reserve Supply.
The geological survey handed the committee a report on its field studies, saying that the existence of large manganese deposits near Batesville has been proved, and that "these reserves constitute a known source of manganese whenever national requirements demand the systematic development of ores of the

charged that efforts are being made to prevent the development of manganese mining in Arkansas and other states. Norrell criticized curtailment of manganese operations in the Batesville, Ark., area.

D. F. Hewett, chief of the metals section of the U. S. Geological Survey, testified the Arkansas ore is of a high grade, but that plans for installing a mill there were stopped by the War Production Board be cause—"I am told"—the manganese crisis has passed.

Hewett said large quantities of manganese ore are being brought from Africa and India in ships that otherwise would have returned of the bauxite produced in the United States.

Dr. R. S. Dean, assistant director of the Bureau of Mines, said there are about 60,000,000 tons of bauxite and alumina-bearing clay "that we have an alumina-bearing clay "that we have of" in Arkansas, and that about 16,000,000 tons of this represents bauxite of a grade that can be used in existing plants or plants otherwise would have returned.

New processes are being development of ores of the grades that exist there."

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Dr. R. S. Dean assistant direct

New processes are being developed, several witnesses said, for extracting alumina from the lower grade bauxite and from clay. G. F.

found, but that no government department has ever made an extensive investigation of the diamonds there. Loughlin said the Geological Survey would make an exhaustive study of Arkansas diamonds "if called upon by the WPB"

Coal: Dr. A. C. Fieldner, chief of the fuels and explosives service of the Bureau of Mines, said the coals of Arkansas and Oklahoma are the logical sources for coking coals for the Texas coke ovens and also for general industrial use in Missouri.

N. Y.) to assert that the cost of importing a ton of manganese ore has jumped from \$6.50 or \$7 to \$22 and \$23—and "somebody must have been making an awful profit." He suggested an investigation.

Norrell said, "Frankly, I am of the opinion that efforts are being made to prevent the development of these projects, and especially do I believe this is true with reference grade bauxite and from clay. G. F.

Missouri. "There is a real shortage of bituminous coal in the district around. St. Louis and Kansas City," Dr. Fieldner said, "which logically should be supplied from the territory. There is a demanda to the tuminous coal in the district around. St. Louis and Kansas City," Dr. Fieldner said, "which logically should be supplied from the territory. There is a demanda for the tuminous coal in the district around. St. Louis and Kansas City," Dr. Fieldner said, "which logically should be supplied from the territory. There is a demanda for the tuminous coal in the district around. St. Louis and Kansas City," Dr. Fieldner said, "which logically should be supplied from the territory. There is a demanda for the tuminous coal in the district around. St. Louis and Kansas City," Dr. Fieldner said, "which logically should be supplied from the territory. There is a real shortage of bituminous coal in the district around. St. Louis and Kansas City," Dr. Fieldner said, "which logically should be supplied from the territory. There is a real shortage of bituminous coal in the district around. St. Louis and Kansas City," Dr. Fieldner said, "which logically should be supplied from the territory. There is a real shortage of bituminous coal in the district around. St. Louis and Kansas City," Dr. Fieldner said, "which logically should be supplied from the territory. There is a real shortage of bituminous coal in the district around. St. Louis and Kansas City," Dr. There is a real shortage of bituminous coal in the district around.

lignite, a type of coal between pear hew quarters for the veterans will and bittom nous coal. Fieldner replied that the lignite reserves of realized from the first \$100,000
Arkansas are estimated at 90 million tons, but

"You have, however, sa

"You have however, so much high-rank bituminous coal that I should think the development of the lignite deposits would be rather slow."

Confederate Home Properties

Surveyed for Bauxite.

Caze the 5-30-43

The state Geological Department

Democrat State Bauxite **Board Holds** First Meeting

federate Home Board, discussed sevneeded when bauxite mining opera-tions begin on the present grounds.

The location that seemed to be most favored by members of the two agencies was a site just north of the Arkansas School for the Blind on state land. There also was some discussion on the old Shrine Club building in Saline County.

Bauxite ore.

Ruling Asked On Mortgaging of Or Gazette 6-1-4
An opinion from Attorn

The group discussed plans for making a preliminary survey to determine the amount and the quality of the bauxite ore. Under provisions of the act, passed by the 1943 legislature, \$15,000 would come from geieral revenue funds for this purpose, with this amount to be repaid from proceeds of the sale of the ore.

Hewett said he would expect Arkansas to make "a small but note-worthy contribution" to the more than 2,000 tons of crystal the Army hopes to get in 1943.

Diamonds: Dr. Dean said "I do not think anybody" knows the extensiveness of Arkansas' diamond deposits. He said Arkansas is the only state where diamonds are found, but that no government department has ever made an extensiveness of the sponsors of the 1943 act permitting the Confederate Home. of Arkadelphia, the commission's lawyer member, secretary. All of the other members attended. They are A. D. Mason of Camden, Sloan

Also present were state Geologist Joe W. Kimzey and Representative Nelson Cox of Ouachita county, one of the sponsors of the 1943 act permitting the Confederate Home property to be mined. Data for a second meeting was not set. It will be fixed by Chairman Hardin.

Democrat 5-27-43 Bauxite Location Tests Are Started

Locations for bauxite drillings or the west grounds of the Confederate Home were begun vesterday by the State Geological Department, A. contract for test hole drillings will

be awarded by the commission in a few days on the basis of the loca-

State Geologist Joe Kimzey bes sufficient ores could be ob-d on the west grounds with-disturbing the buildings im-

The state Geological Department will attempt to determine if there is enough bauxite ore on the back side of the Confederate Home at Sweet Home to justify the new Bauxite Commission entering into

obligations for new buildings, if the property is mined, Geologist Joe W. Kimzey said yesterday. No buildings, are located in the area and inmates of the home would not be bothered by mining of the back side.

The Geological Department com-

Members of the new Bauxite Completed drill hole locations on the property yesterday. Mr. Kimzey said an estimate of the footage ernor Adkins' office with the Confederate Hams Bauxite Confederate H

eral possible locations for a new first meeting Tuesday in Gover-nor Adkins' office and made plans

Mortgaging of Ore. Gazette 6-1-43 An opinion from Attorney General Guy E. Williams may deter-

ortgage.
The commission, needing funds

Gazette 6-9-43 Tells of Bauxite Production.

The commission, needing funds

The commission is production.

The production of the bauxite is not found continity in production of hily important in production of a clause providing alternative production in production of a clause providing a transfer of the wind production of a clause providing a clause is enforced.

Tax Collections Up.

The telegram, which went to A. A. The telegram which went to A. A. The telegram

Warning 15 15 in Given Bauxite

Raney, chairman of the Pulaski County War Price and Rationing Board, said last night at a board meeting held to act on cases of misuse of gasoline and tire allot-

"A majority of the war industries have transportation panels to recommend issue of supplementary gasoline rations," he said. "In most cases they have adhered strictly to the rationing regulations and have co-operated with this board in every

Bauxite workers are not handled Bauxite workers are not handled through the transportation panel system because of the number of companies involved, Mr. Raney said. He warned that their place in the essential category did not entitle them to misuse allotments which are not available to the average citizen.

average citizen.

Five Lose Ration Books.

R. M. Breen, 3225 Arch street, was asked to surrender to the board his "A" and "C" books. He was charged with allowing a traveling companion to drive his car 60 miles an hour on an out-of-state trip. The board warned that persons charged with speeding outsons charged with speeding outside of Arkansas would be held responsible to their local board.

"A" cards were surrendered to

state land. There also was some discussion on the old Shrine Club building in Saline County.

Must Obtain Priorities.

It will have to be determined whether priorities can be obtained for materials for a new building for the inmates of the home. Members believe, however, that since the government is eager to secure bauxite believe, however, that since the government is eager to secure bauxite of sign and that priorities will be forthcoming for new housing for the inmates.

The group discussed plans for making a preliminary survey to determine the amount and the quality.

Mortgaging of Ore.

Gazette 6-1-43

An opinion from Attorney Gentle builting may determine beauxite ores underlying the Confederate Home at Sweet Home.

Dwight H. Crawford, Arkadelphia lawyer and commission secretary, asked the attorney general yesterday whether the body can workered to surrender gasoline rations issued for use in his sister's car, which he was driving when arrested for speeding.

Warnings Issued.

Others warned by the board on charges of speeding by R. F. Carson, 3816 West Seventeenth street, and Thomas Mitcham, Horace Morris, 1327 Hanger street, for 60 days. Fred Brooks, 1817 High street, was ordered to refrain from driving for 60 days. He was ordered to surrender gasoline rations issued for use in his sister's car, which he was driving when arrested for speeding by R. F. Carson, 3816 West Seventeenth street, and Thomas Mitcham, Horace Morris, 1327 Hanger street, for 60 days. Fred Brooks, 1817 High street, was ordered to surrender gasoline rations issued for use in his sister's car, which he was driving when arrested for speeding by R. F. Carson, 3816 West Seventeenth he board on charges of speeding by R. F. Carson, 3816 West Seventeenth he board on charges of speeding by R. F. Carson, 3816 West Seventeenth he board on charges of speeding by R. F. Carson, 3816 West Seventeenth he board on charges of speeding by R. F. Carson, 3816 West Seventeenth he board on charges of speeding by R. F. Carson, 3816 West Seventeentheenth he b

move Confederate Home inmates to other suitable housing facilities. If the commission cannot legally negotiate the mortgage, no funds will be available to care for the approximately 85 patients at another location.

State's Bauxite Ore

Warning: Issued.

Others warned by the board that a second infraction of regulations would result in severe penalties were: W. R. Campbell, 2507 Howard street; J. R. McHugh, 1515 West Eighth street; J. R. McHugh, 1515 West Eighth street; E. H. Martin, 3200 Fair Park boulevard; Doyle Hazel, 2001 Fair Park boulevard; Virgil Not to Be Mortgaged
Attorney General Guy E. Williams has announced that the State Bauxite Commission had withdrawn its request for an opinion on its plan to mortgage bauxite deposits underlying the Confederate Home. Dwight H. Crawford, Arkadelphia, commission attorney-member, explained the agency had decided against a mortgage.

The commission, needing funds

Bauxite Mine

The 43-cent penalty was inserted in recent contracts between the Metals Reserve Corporation and small independent operators. The operators said that while drill test showed minimum ferrous iron content, tests when the metal was stock piled, made on a formula of a big aluminum company caused penaltics.

Workers

Bauxite workers have been guilty of more violations of rationing regulations than any other group of essential workers, Alton B. iron penalty clause, and these operations are expected to continue until the expiration of the contracts.

RULING BY WPB CAUSESBAUXITE MINES TO GLOSE

An operator whose mine had been s24,000, halted operations when the new ruling was announced. He claimed that operators had considered bauxite upon the basis of available alumina rather than upon per cent of iron content and were taken by surprise at the sudden WPB provision. The WPB had previously imposed a penalty upon silica content in the ore, he said.

Since silica or iron is always present in our ore, the two penalties make profitable operation impossible," he said.

Operators suggested that a ruling allowing a premium of 43 cents for ceach per cent under the prescribed six per cent would allow profitable operation, provided WPB allowed blending of ores to meet requirements.

"So far as it influences the operators seriously," said one spokesman, it is seriously, said one spokesman, it is seriously, said one spokesman, it is believe the situation has been greatly exaggerated. Another said, out of business, since more than low grade cotton that you would for low grade cotton that you would for higher grade would you?"

Still another said, "This entire matter has been grossly exaggerate."

Bauxite Mine Owners Offer To Erect Plant

Alumina Processing Unit Proposed To

Overcome Handicaps.
Contractors and independent oprators working bauxite mines in

perator whose mine had been and stripped at a cost of halted operations when the uling was announced. He d that operators had consider the control of the co

Merchants at Sweet Home
Fearful of Consequences.

Some Sweet Home merchants said they would be forced to sell their stocks and go out of business if the mining trade was removed. A grocer said he opened his store eight years ago with a stock worth \$550.

matter has been grossly exaggerated."

KIMZEY OFFERS

for several reasons. They charged that WPB had ceased releasing necessary mining machinery and cases, been called for service in the armed forces.

Invests \$24,000, Then Has

To Cease Operations.

Producers be given a premium on ores of less than 6 per cent ferrous enjoy more protection against loss not be a solution since many operators could not qualify for premiums sufficient to offset penalties.

Larg ecompanies with several large pits in operation are already applying the blending methods, Kimzey said. reach a solution of the problem which is so far reaching from the standpoint of individual operators, the county, state and nation. Hence I assume that without much delay a system of blending high ferrous ores in stockpiles with low ferrous will be adopted so the ferrous ores will not be lost to the war effort and those independent operators who have invested their money in good faith will not be victims of a failure of those in authority to apply all

practical means to a solution.
"There may be other angles of which we are not advised but in the light of obvious material it is my opinion that to allocate the high ferrous ores to stockpiles of low ferrous would be a simple means of holding the average ferrous content below six per cent, by which means no one would be injured and the enemy would not enjoy the satisfaction of our failure to enjoy the full use of a vital resource.

"In any consideration of a penalty for ferrous iron above six per cent it would appear to be consistent for produ premium on ores of less than per cent ferrous. However, this would not alone be a solution since so many operators could not qualify for premiums suffi-cient to offset penalties.

"Large companies with several pits in production are already applying the blending methods above proposed.

Sunday, September 12, 1943.

There Must Be a Way to Iron Out This Bauxite Trouble.

of virtually prohibitive penalties on War Production Board and Metals of virtually prohibitive penalties on bauxite with a ferrous oxide content of time.

Geologist Proposes

To Blend Bauxite.

of virtually prohibitive penalties on bauxite with a ferrous oxide content of time.

Of more than six per cent, the effect of this action was to change the rules in the middle of the game in a way that is said not only to involve serious formancial loss for mine operators.

The Metals Reserve Company for any length of time.

"The federal agencies have of this action was to change the rules in the middle of the stream once," an operator said. "We don't know when the same thing might occur again."

The Metals Reserve Company but to threaten to deprive the war recently offered new contracts to the field are hurt at the moment,

group for the purpose of installing and operating their own alumina plant for the reduction of bauxite ore to meet the recent War Production Board penalty ruling, a spokesman for the independent operators stated today.

The Metal Reserve Co., recently penalized all operators producing ore of over 6 per cent ferrous iron content 43 cents for each 1 per cent 45 cents for each 1 per cent 65 cents 65

Penalty Strangles
Small Operators.

The spokesman for the independent operators and contraction which penalty of business to far a future contractor and object of business to far a future contract are company has offered new company has offered n

Contractor Prepares To
Move Out Machinery.

One mining contractor, who was prepared to start operations when the penalty was imposed, moved his machinery from the mine yested the "WPB with failure to apply all practical means" in solving the problem which he said penalty. He dismissed his employes after retaining them on the passested the war agency allocate high ferrous bauxite ores to stockshow the force to leave the field.

An independent operator said mining would continue in some fields until January, when contracts not fincluding the new provision expire. "The no revision of the ruling is made, mining will cease in these locations," he said. "Operators cannot afford to sign contracts which call for operation at a loss."

Operators and contractors said finat operation at a loss."

Operators and contractors said finat operations had been curtailed for several reasons. They charged that WPB had ceased releasing necessary mining machinery and that skilled workene had, in many collection since a large proof the duration. The content of a penalty on ferrous iron content of a penalty on ferrous and also has caused some of less than ferrous or to stock-distingth on ferrous and a penalty on ferrous and since a large projection of Arkansas bauxite runs less than six per cent ferrous oxide the difficulty might be overcome by blending high and low ferrous iron content ores to maintain an average content below the price contains too much ferrous iron.

The pile new centains shout 750. determination by technically qualified ment has paid about \$3,000,000.

men. But certainly every effort should Much of it was furnished by Amerbe made to find a practical remedy. ican Cyanamide, which last week

PULASKI MINES

Operators Distrust U.S. Agencies.

A compromise under which Pufederal agencies was proposed by education depend on development and sale of this state-owned baux-

They suggested that operators ite. blend ores containing high and low ferrous iron content in an effort to obtain an average percentage that would not be penalized. They outlined a plan under which one truck loaded with bauxite from a low-content pit be timed to reach the Ward's Spur stock pile simultaneously with a truck from a high percentage mine. A sample nom each truck would be taken and mixed together, and each load would be given credit for the resulting average.

federal official would sent to direct quotations, implying that specific announcements must be made at Washington. They said they had received no instruc-tions to place the blending pro-posal into effect, but indicated such a plan might be approved if discussed with Washington autnor-

Operators Lack Confidence In Federal Officials.

Independent operators, who own only one pit, were reluctant to agree to the plan declaring they Whatever the reasons which may still had no assurance that the waverage" after blending would have seemed to justify the placing continue to meet approval of the

Stockpile Continues to Grow.

Company and other producers who hold contracts without the penalty

The pile now contains about 750,received the Army-Navy "E" award for its work in producing this baux-ite that's being permitted to pile

An official in authority said shipthat this equipment would be installed September 1.

stalled September 1.
Governor Adkins, moving cautiously after the new penalty was inserted in contracts without warnBoard of Directors. ing, said he will recommend that the state Bauxite Commission postpone development of deposits underlying the Confederate Home un-

til the stuation is cleared up.
Funds for the Arkansas Livestock laski county bauxite producers Show Association's proposad permight escape the strangulation of mament quarters, for a new buildprohibitive penalties imposed by ing to house residents of the Confederate Home and for vocational

Compromise Expected In Bauxite Row

Settlement of the conflict over the penses, including taxes, for the person of the person content, is possible during the coming week, spokesmen for the producing operators and government authorities agreed to day.

Settlement of the conflict over the penses, including taxes, for the person between the conflict over the ers, a total of 107,755, an increase of five per cent under the same period last year.

Net income for the 12 months was \$1,427,760, or 1.51 times the full dividend requirements for the current year. Tayes charged to operate year.

and the mining and operating inter-ests, are checking the reported re-duction in the ferrous content of ore through Oxidization while on stock

through oxidization while on stock piles.

Both government officials and operators agree that blending of the high grade ore with that containing more than six per cent ferrous content may prove the ultimate solution. Representatives of the operators, especially those in the Sweet Home and other bauxite mining areas of Central Arkansas, where the lower grade ore is found say the recent penalty will practically put them out of business. They contend the penalty is discriminatory in that it applies to them while the larger operators can mix low

tockpile Continues to Grow.

American Cyanamide & Chemical

American Cyanamide & Chemical

by the Republic Mining and Manufacturing Company, a subsidiary of the Aluminum Company of America, is composed of 2,300 volt circuits serving 325 customers. It has obtained power from the Arkansas Power and Light Company. The power company's standard rate schedule for fourth class towns will apply to the system, Mr. Moses said. Regulatory bodies have approved the purchase.

The power company also has purchased the distribution system of the village of Norton, near Bauxite, serving about 15 customers. This town was developed by the Norton company, which uses baux-

ite to make abrasives.
Arrangements for the power com-An official in authority said shipments from the stock pile will begin October 1 after mixing with bauxite from the Sweet Home area. He said the Republic company is perfecting its settling equipment to handle this type of ore. Operators were told several weeks ago that this equipment would be installed September 1.

Arrangements for the power company to take over the generating and distribution system of the Citizens Electric Company at Hot Springs, which the company recently leased for 35 years at \$200,000 a year, were outlined at the meeting. The power company has an option to buy the Hot Springs property at \$2,000,000.

The directors' meeting followed the annual stockholders' meeting, at which the Rev. Ben L. Bridges, general secretary of the Executive Board of the Baptist State Convention, was added to the board.

A total of 1,242,451 shares of

stock, amounting to about 90 per cent of the total outstanding, was

represented,
Mr. Moses was chairman and
L. Garrett of Pine Bluff secretary
of the stockholders' meeting. J. A.
McDougal, and Binch Bottroff,
Little Rock stockholders, were ballot inspectors.

Taxes Take Big Part Of Company's Income.

The company's operating revenue for the year which ended August 31 were \$12,419,906, a decrease of \$1,065,841, or eight per cent under the same period last year, Mr. Ark. Dem. 9-13-43 Moses reported. Operating ex-Settlement of the conflict over the penses, including taxes, for the pe-

Chemists representing both sides, ating expenses during the period through Metals Reserve Company, were \$2,020,620, equivalent to 16 a subdivision of the RFC, the WPB, and the mining and operating interparts on each dollar of operating and the mining and operating interparts. revenue, and they exceeded dividend requirements by \$1,073,580 and exceeded pay roll requirements by \$96,679.

At the end of August the company was serving 101,843 electric customers and 5,912 gas customers, a total of 107,755, in increase of three per cent for the year.

Bauxite Ore Situation

Another large operator said "the monopoly" is not going to aid either production or price, eventually, but will merely work against the small one-pit operator and put them out of business.

of business.
One operator, classed as a large operator, said, "The great danger lies in the fact that larger operators are becoming fearful of the future of their investments and some of them will go out of business. Possibly this is what they want. If so they may as well turn the entire bauxite industry over to 'the monopoly'."

The problem arose when new contracts, made by the Metals Reserve

a clause penalizing operators 43 cents per ton for each per cent over six per cent ferrous iron content in Fair Treatment Promised

Reserve Co. and Pulaski operators, treatment. and that the WPB is preparing a de-tailed memorandum on the subject.

Governor Adkins, who recently protested the penalty in a telegram to the WPB, told newspapermen he woud be slow to recommend signing of a contract for development on the Confederate Home grounds as long as the provision is in effect. The WPB has said, however, what effect the clause will have on mining at the home cannot be determined until text dealling and the long cannot be determined until text dealling and the long cannot be determined until text dealling and the long cannot be determined until text dealling and the long cannot be determined until text dealling and the long cannot be determined until text dealling and the long cannot be determined until text deal til test drilling and assay work re-veals the iron content of the depos-

Ark. Gazette U. S. Official Gives Says Kimzey Assurance.

quest that something be done to assist Pulaski county operators and to maintain the flow of ore to Hurbard have been found feasible. ricane Creek alumina plant and the Jones Mills Aluminum plant.

with high grade ore, appears as an ill omen to me," said this large operator. "We had asked for permission to do this. It was refused."

The spokesman predicted that unless there is a change of attitude on the standpoint of the government "one-pit operators will be wiped out."

Three Proposals Advanced As Possible Solutions.

A high ranking official of Aluminum Company, express deep interest in any solution to recue the Pulaski county product said three proposals could be to said three proposals could be to said three proposals. A high ranking official of the clay but lower than the 50 per cent Aluminum Company, expressing deep interest in any solution to rescue the Pulaski county producers,

The south half, especially, of Arsaid three proposals could be dis-cussed to advantage. Blending high and low ferrous con-

tent ore in the field.
Weighting average over the life of have each contract permitting the alumina. producer to offset high ferrous

rous iron content above six per cent.

Co., a subsidiary of the RFC, carried bauxite deposits under the Confed-

delivered ores.

Large contractors are said to be mixing low and higher grade ores in stock piles to bring the grade within the required six per cent, while single pit operators, in sections of the bauxite field where the ferrous content is over six per cent, have no means of raising the grade on their production.

WPB officials have refused to accept the responsibility for the penalty, saying their agency controls production and allocation of equipment, and not the price of ore.

Senators John

By Federal Official.

Following are excerpts of Mr. Bunker's letter to Senator McClellan:

The new ferrous iron regulation "was neither aimed at any individual producer or group, nor inspired by any of the large production."

"It is the common practice in the purchase of ore of any metal to apply a system of penalties and premiums to insure that metallurgical specifications are closely approximated. Until the present great expansion of aluminum production, it was unnecessary to apply a system of aluminum production, it was unnecessary to apply a system of aluminum production, it was unnecessary to apply a system of aluminum production, it was unnecessary to apply a system of aluminum production, it was unnecessary to apply a system of aluminum production, it was unnecessary to apply a system of aluminum production, it was unnecessary to apply a system of aluminum production, it was unnecessary to apply a system of aluminum production, it was unnecessary to apply a system of aluminum production, it was unnecessary to apply a system of aluminum production, it was unnecessary to apply a system of aluminum production, it was unnecessary to apply a system of aluminum production, it was unnecessary to apply a system of aluminum production, it was unnecessary to apply a system of aluminum production, it was unnecessary to apply a system of aluminum production. it was unnecessary to apply a system to bauxite. It was well known

In Bauxite Protest

Moving to aid Pulaski County bauxite producers, Sen. Hattie W. Caraway and Sen. John L. McClellan have added their voices to the demand that the War Production Board eliminate a penalty on bauxite ore containing ferrous iron.

A dispatch from Washington stated the senators believe the provision would affect development of Pulaski County deposits, and requested revocation of a clause written into contracts made by the Metals Reserve Co. with Pulaski operators which provides a penalty of 43 cents a ton for each one per cent of ferrous iron content over six per cent. The senators were informed by a WPB official that the agency will discuss the problem with the Metals Personne Co. and Pulaski operators. serve Corporation similar equitable

"Our initial impression is that there will not be many instances where relief will have to be extend-

current requirements, but that WLB has achieved its objective of a reserve of about 2,000,000 tons in

"We can now call a halt to further expansion and even contem-plate some reduction in current production so as to avoid further stockpile accumulation," he wrote. "Obviously the logical place to halt. expansion is not to sign new contracts for the purchase of bauxite

BAUXITE MINES Bauxite Clays Plentiful,

The War Production, Board is ready to aid Pulaski county bauxite producers who have signed con-

producers who have signed contracts in good faith "and stand to lose because of a previously unsuspected high ferrous iron content."

This promise was made by A. H. Bunker, director of the Aluminum and Magnesium Division, in a letter fo Senator McClellan following a re-

Tells of State's Supplies. Infavorable

The present investigation of the bauxite ore situation, being reviewed by government agencies, does not look favorable for the small operator, a spokesman for the bauxite producers said today.

The fact that the government has refused to permit one-pit operators for the purpose of mixing low grade with high grade ore, appears as an ill omen to me," said this large operator. "We had asked for permission to do this. It was refused."

The spokesman predicted that un-The area south and east of a

The south half, especially, of Arkansas' coastal plain has clays bearing a high per cent of alumina, Mr. Kimzey said. Some clays used around Malvern for making brick have "30 per cent or better" of

producer to offset high ferrous content with ore of known low content.

Increase the basic price or reduce the new penalty of 43 cents per ton for each one per cent of ferrous iven content.

When the material from syenite, or "mother of bauxite."

Mr. Kimzey said Congress has the first of the material from syenite.

When the material from syenite.

or "mother of bauxite."
Mr. Kimzey said Congress has shown an interest in production of Governor Adkins asked WPB to increase the basic price or to approve a plan for blending. WLB's response will have a bearing on the monopoly which existed before the

Plant Could Be Converted. Mr. Kimzey said he believed there was "no quest n" that an By Federal Official.

Following are excerpts of Mr. ling Company, a subsidiary of Bunker's letter to Senator McClel-Aluminum Company of America,

Fight to Get

Bauxite Mined
Democrat 2-12-45
Washington — Arkansas congressmen are making every effort to have
the government mine the rich fields
of bauxite in Arkansas, which are
rapidly being wined

rapidly being ruined.

Representative W. F. Norrell is leading the fight since most of the ore lies in his district south of Little Rock.
The War Production Board claims

it has sufficient reserves of bauxite to last another year and has no au-thority to act to conserve the Ar-

Meanwhile, the Bureau of Mines has reported that the bauxite is being spoiled by the caving in top crust of earth. Silica is seeping into the ore and in time will make it worthlass.

the ore and in time will make it worthless.

The matter is now before the Budget Bureau.

Norrell emphasizes that the Arkansas delegation does not want to interfere with the war effort but that they are hopeful that some government agency has the authority and funds to save the ore.