Auto Magnates See Cinnabar

As Motor Fuel Democrat 11-12-37

Oklahoma, Texas Men Interested in State's Quicksilver Deposits.

to Replace Steam and Cut Interest Fuel Costs For Ocean Liners Increasing Advocated

New York (P)—An invention to use mercury power—the energy of hot molecules—to drive steamships and reduce the cost of shipping was announced today to the Society of Naval Architects and Marine Engineers.

Naval Architects and Marine Engineers.

The architects were informed that the Normandie, trans-Atlantic record holder, can substitute mercury for steam and cut her annual fuel bill \$400,000, with no speed loss.

The proposal for this new type of sea power was made by William L. R. Emmet, Schenectady, N. Y., engineer who started use of mercury power eight years ago. Five American plants are using it but mercury never has been feasible at sea.

An improvement in boilers, Emmet said, recently made at the Pittsfield, Mass., General Electric mercury power plant, makes it possible to extend the new hot molecule principle, and in many cases mercury can

extend the new hot molecule principle, and in many cases mercury can be installed on existing steamships.

Mercury power is made exactly like steam. The metal vaporizes and turns a turbine the same as steam. But it puts more of the heat of the fuel to work than does steam power. This extra efficiency of mercury is due to a seeming paradox. Its vapor develops very little pressure. It will take a tremendous heat with very little pressure increase. Mercury at 675 degrees, for example, has a pressure equal to steam at 212, the boiling point of water. To the layboiling point of water. To the lay-man this lack of pressure seems like a handicap for mercury. But scientists explain that steam's

But scientists explain that steam's tremendous pressures are really only necessary evils. The heat is what really does the work. The proof that they are right is in the efficiency reports of the five power plants using mercury. With steam one pound of coal will light a 60-watt electric lamp 16 2-3 hours. With mercury the same pound will light the lamp 24 hours.

New Hope for Cinnabar Mining stronger financial backing. In Arkansas Seen.

4-10-38 special to the Gazette. 4-10-38 er demand because from San Francisco today saying that than \$50,000 worth of quicksilver in the bar, the mercury producing ore, last 10 days was of great interest to Clark, Pike and Howard counties where extensive deposits of cinnabar are been from time to time 12 to 20

known to exist. At present mining in these three counties virtually is at a standstill but informed persons say that major de-Continent Company has invested Murfresbore, O Mour cestivity. velopment is bound to come as the field something like \$50,000 in equipbecomes better known and promoted by ment five miles south of Amity in

one of the few located in county, as most of this ore is located every week. A discovery only 12 miles west of Arkadelphia was reported to-day. Geologists recently found many will become one of the greatest ganese in the Amity area. There is a dormant lead mine east of Amity and in Clark county.

There is a strip of territory 30 miles of Arkadelphia was sample of 447 tons of county.

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Mercury Vapor long starting south of Amity and running westward through Pike county that

Cinnabar Mine

Special to the Gazette. 4-24-38

Arkadelphia, April 23.—Encouraged by reports of the purchase by banks of large stocks of cuicksilver and statements that the mercury-bearing ore of Clark and Pike counties is among the richest in the world, residents of Amity and Murfreesboro are taking steps to make the potential mining areas more accessible.

It is said that the embargo placed on It is said that the embargo placed on the exportation of quicksilver from Spain and Italy where large quantities are mined and refined has caused a shortage in this country and that the United States army will have to look to American supplies for quicksilver for munitions and other uses.

American supplies for quicksilver for munitions and other uses.

A delegation of Amity residents, including W. H. Olds, A. J. Hunter, T. W. Rose, Ed Holmes, C. W. Wheeler and ot. ers, called on County Judge Joseph Callaway here and a Pike county delegation called on Judge Tom Jones at Murfreesboro requesting that a good road be built into and through the cinnabar belt of the two counties. Existing roads are rough. The delegations received encouragement from the judges who said they would act favorably if possible.

nitions and war equipment as well as many articles of commerce. Cinnabar, quicksilver-bearing ore, is found in only

Is New Demand For Quicksilver

and steam. Mercury boils at 675 degrees. After it turns a turbine, in these plants, the metallic vapor heats steam while itself turning back into a liquid ready for reheating.

The plants using mercury are the Hartford Electric Light Co., Kearney (N. J.), Public Service of New Jersey and General Electric Co., at Schenectady and Pittsfield and Lynn, Mass.

Thomas is no danger of mercury development is bound to come as Mass.

There is no danger of mercury poisoning, Emmet said. The mercury is sealed airtight and used over the field becomes better known and an arranged by companies with and promoted by companies with

Recent reports indicate that Mining Of quicksilver will be in much greater demand because of wars and

Numerous discoveries of cinnemines in operation, all but a few Amity—Renewed interest has been awakened in the cinnabar mines near Amity in the past few weeks and scouts from Oklahoma and Texas have been investigating the region covered by these mines and it now looks as though real production would be started soon.

New ledges of this ore are being discovered constantly and while there is no boom, it is creating much interest. Last week several scouts from Texas investigated the mine four miles south of Amity and were sold on the fact that there was ore in paying quantities. This mine is situated on what is known as the Deering farm and the leases are owned by O. W. Wheeler, of this place.

Mr. Wheeler said the ore taken of the plant of the ton. The Weaver that there was ore included in the cinnabar with stronger financial backing.

Many discoveries of cinnabar, the mercury producing ore, have been made and there have been, from time to time. The Holmes Mining and Development Company continues to operate on a small scale, however. The Midcontinent Company has invested about \$50,000 in equipment five miles south of Amity in the eastern edge of Pike county. The deastern edge of Pike county. The Loss and have closed down their plant. The Holmes Mining and Development Company continues to operate on a small scale and is believed making a steady profit. The Wheeler mines are dormant but Amity people declare their ore is among the richest ever found, yielding as high as 75 percent to the ton. The Weaver mine also has shown remarkable ore. Some that yields fluid mercury some that yields fluid companies with stronger financial the eastern edge of Pike county.

There is a dormant lead mine 30 miles east of Amity and in Clark county. There is a strip of territory 30 miles long starting south of Amity and running westward abounding in many ores.

Production Of Cinnabar Possible

7-26-38

Cinnabar "probably can be produced" in Arkansas "at a profit under conditions similar to those of 1936 provided the enterprise is not burdened by too great an expense in the finding of ore bodies similar to some already mined," the Geological Survey of the federal Department of the Interior reported yesterday in a report on the "Geology and Ore Deposits of the Southwest Ar-kansas Quicksilver District." kansas Quicksilver District.

The report said "Geologic indications appear to warrant further prospecting and development in favorable areas. It

seems likely that in a time of national emergency, when cost is no obstacle, the Arkansas district can produce a large amount of quicksilver."

It was recalled that cinnabar was

discovered near the southern border of the Ouachita mountains in 1930. Several Western banks are reported to be buying quicksilver and storing it in their vaults. Quicksilver is indispensable in the manufacture of certain mu. acture of certain mu- a maximum width of about six miles though it has

Authors of the Arkansas report said the United States ordinarily only about half the quicksilver it con-

They said "Any new source of this essential metal is therefore of relatively great importance. For this reason, and because of the possibility of financial gain attending the development of any new mining district, the Arkansas

quicksilver district has attracted con-The plants all use both mercury and steam. Mercury boils at 675 de
Mining of Cinnabar in Clark siderable attention from geologists, mining engineers and others * * * "

Mercury On Increase

10-23-38

eral eight years ago. Like all new out making any investment have been mining fields it has had its ups and a deterrent to capitalists. with the state of of the leading producers of quicksilver in the United States.

Sees "Bright Future." W. E. Thorn, an engineer of inter-national experience and a member of two of the world's largest mining institutes, said that in his opinion the district has a bright future. The Big Six Mining Co., composed of a group of men from Minia, Okla., is working night and day on property west of the Little Missouri river, while the Magnolia Mining Company a new Arkense service. Six Mining Co. composed of a group of men from Minia, Okla., is working people say that its ore is among the richest ever found, yielding as high as Mr. Wheeler said the ore taken from his mine this week will run from 30 to 50 per cent quicksilver as a fuel is one of the reasons for this renewed interest in this product, and while this phase of its use is still in its infancy, there is a probability of its becoming one of the major fuels for motor vehicles. Experiments in this line is now being made by the General Motors Corporation.

The Midcontinent Quicksilver Corporation operating near Amity is turning out quantities of this metal. This company has a \$50,000 plant that has been in operation for several years. The Wheeler mines are dormant but Amity Down and the leases and high as Shown remarkable ore, some that yields fluid mercury upon being broken open. Most of the companies that have come in have kept their leases paid even though they are not operating.

A. J. Hunter, editor of the Amity Owl, said today that mining company officials have told him that the chief drawback is lack of roads and highways in that section, A road from Amity through the cinnebar section of its property.

The Midcontinent Quicksilver Corporation operating near Amity is turning out quantities of this metal. This company has a \$50,000 plant that section, A road from Amity by and Murtreesboro would facilitate operations greatly.

Prospectors are coming and going every week. A discovery only 12 miles west of Arkadelphia was reported to day. Geologists recently found mancounty, as most of this ore is located in Pike county.

Mining engineers believe this field of the Amity of the company and producing high grade ore. This company is trucking its ore nine miles to a plant belonging to the Mid-Continent of the Amity Owl, said mining company officials have said the chief drawback is lack of roads and highways in that section. A road from Amity through the cinnebar section of the termine and producing high grade ore. This company is truc

reported. Geologists recently found county. A mass sample of 447 tons of manganeze in the Amity area nine pounds of quicksilver to the ton.

ton processing plant.

The companies are receiving an average of \$1 a pound for the mercury which has been the average price for the past 10 years. The United States produces less than one-third of its supply, having imported 10,000 flasks last July

Corporation Will Mine Cinnabar.

1-29-39 Gazette A corporation to mine cinnabar, the ore from which quicksilver is derived, in Clark county has been organized by T. C. Moore, W. M. Coffield and Dr. J. D. Jordan of Little Rock, and J. M. Eunson and T. J. Pate of Murfressboro. Articles of incorporation were filed yesterday with Secretary of State G. Hall.

Dr. Jordan said that Clark county apparently was rich in cinnabar, out-croppings being visible in several sections No mining operations have been conducted by the company, he said.

The articles said the purpose of the corporation, to be known as the Caddo Quicksilver Corporation of Little Rock, was to sell \$50,000 worth of stock with which to buy equipment for mining. They listed 90,000 shares of authorized capital stock at \$1 each and capital of \$2,500. Offices will be at 2812 Asher

Big Possibility Seen in State Cinnabar

Special to the Gazette.

Murfreesboro, April 1.—Dr. W. E. Thorne, mining engineer, said today that cinnabar (quicksilver) undeveloped mines of southwest Arkansas may prove an important factor in the vast rearmament program now under way throughout the world, Dr. Thorne, a reconsulting engineer for the Consolidated Gold Field of South Africa Ltd. of London, England, and a member of the Mining and Metalurgic Institute of London and the American Min-ing Institute, has spent more than two years here studying the possibilities of the cinnabar deposits in Pike and Clark counties, which are operating only on a prospecting basis.

In an opinion directed to the newly organized Caddo Quick Silver Company of Little Rock, Dr. Thorne said that there was little doubt that the cinnabar supply located in these vines could furnish the United State vith a large part of its entire quicks r needs in-

tions from which we now receive our imports become involved in war, the Arkansas mines quickly could be developed very much heavier than lead. kansas mines quickly could be developed to furnish enough of the mineral for

Financing Has Retarded Development.
Slow development of these mines has Murfreesboro, Oct. 22. — There is been due largely to a lack of cinnabation activity in the mercury belt in been due largely to a lack of cinnabation within experience and finance. Prospecmore activity in the mercury belt in Pike and Clark counties than has been mining experience and finance. Prospecshown since the discovery of the mining experience and finance. Prospectors who hoped to get rich quick witness and Like all new out making any investment have been

> selective mining the ore probably would run 10 pounds per tor, which in most instances doubles the output of low grade mines in other countries, Dr.

Quicksilver Deposits May Pay Profit

9-17-39 Gazette

A ribbon of quicksilver deposits about 40 miles long soon will be detonating the shells of war while its owners in southwest Arkansas become wealthy.

Already the forerunner of a mining boom has developed in Howard, Pike and Clark counties. The price of quicksilver has soared from \$88 a flask August 31 to \$150 yesterday. A flask contains 76 pounds. The average price in 1938 was \$76.10, or about \$1 a pound.

Dr. George C. Branner, state geologist, obtained reports from field forces that property embracing potential cinnabar mines is in demand. Leases are being bought on a 10 per cent royalty

The deposits which were discovered in 1930, and which have not been mined extensively, were described as mined extensively, were described as extending from northwest of Murfreesboro, three miles east of the Howard county line, across Pike county and into Clark county, southeast to An-

Dr. Branner said the area contains

"an enormous tonnage in the aggregate" but that it is undeveloped.

The first quicksilver was mined in Arkansas in 1932. The value of the state's production ranged from \$4,311

to \$49,033 annually since then.
Yesterday's price of \$150 a flash was
\$25 higher than the average for any year during the World war; Dr. Bran-ner said. For that reason, he said. mining in southwest Arkansas "should be very profitable at that price." Other Prices Higher.

Lead and zinc prices also have in-creased in the last two weeks as a result of the European war, the geologist said. The state produces much zinc, particularly in north Arkansas. Zinc prices jumped from 4.74 cents a pound August 31 to 6.1 cents yesterday. As a result, Dr. Branner said, lease activity has gained near Yellville and other

Price comparisons of other Arkansas minerals reported are: Lead—4.9 cents a pound August 31;

5.35 cents Thursday.

Antimony—12 cents a pound August 31; 12.25 cents Thursday, Manganese—Little change,

Mine Activity Reflects High Ore Prices

Arkadelphia, Sept. 23.—With an increase in price from \$76 to \$150 per flask for quicksilver because of the outbreak of war in Europe, the several cinnabar mines near Amity, Clark county, and Murfreesboro, Pike county, have taken on new activity.

The Caddo Quicksilver Company,

whose officers and most of its stock-holders are residents of Little Rock, is preparing to erect a large refining ant to convert the ore into fluid mercury. This company organized about a year ago and now is erecting dwellings for workers. It plans to give emcyment to a large number of men at the mines and the refinery.

It was announced at Amity the

Wheeler mine will start operations about October 1. The Hintze mine, running on a small scale, has excited its owners because traces of gold and silver have been found. Ore with traces of precious metal in it is being banked for future smelting, as quicksilver production is regarded as of more importance because of present high prices. The Gene Holmes and McElwain

definitely, whereas for the past several mines are running at full production, years it has been forced to depend on Spain, Italy and Austria for about 54 per cent of its supply.

mines are running at full production. The old Mid-Continent Quicksilver Corpora on mine has shut down for repairs.

per cent of its supply.

He said that quicksilver is a vital necessity in the manufacture of high explosives, also it is used extensively war be prolonged the price will be redoubled, even on the basis of the present state.

Declares Arkansas Has Great 9-38-39 Gazette

To the Editor of the Gazette:

In an article in Sunday's Gazette, captioned "Mine Activity Reflects High Ore Prices," you seem to be striking below the belt as it concerns me and my mine in these parts.

I am not operating on a small scale as alleged by you, but on the contrary am employing a greater number of workmen than any other mine in th district. I am not excited over gold and silver showings by my operation Moreover, let me assure you, both such gold and silver showings, thus far, have been far in excess of mere "traces" as you would have it.

In this state your publication is here alded as an apostle of progress. Why don't you have your field reporter drop around and make a visit to the severa cinnabar mines now in operation in these environs for gathering such news concerning quicksilver in Arkansas the world should know? Your state Geological Survey, by its many erroneous statements, branded the Arkansas quicksilver field as a flop when in truth and in fact we have the richest med cury deposit in Pike county in the world and my operations reflect the fact. Reliable Arkansas citizens w vouchsafe to the truthfulness of m statement that I averaged 420 pound of mercury per ton on some of my bet ter ores and that my average ores aver aged around 120 pounds of quicksilve per ton. I am now installing two Gould "D" type distillation tubes and I wish it was possible for you to have you own representative to observe my metal recovery by these tubes when they go under heat so that some of the state ments about Arkansas quicksilver can be refuted. I am selling no stock and owe no one anything and would have no use for publicity, save and except that the world know true facts apropose Arkansas quicksilver, my firs

kansas; a led who will not be awaiting you with a stock certificate pad in hands ready to take your cash as I have nothing to sell in the way of stock. I will convince you that Arkansas ha real quicksilver field. W. F. Hintze Murfreesboro, Ark.

Machinery For Quicksilver Mine Ordered

10-8-39 Gazette

A 50-ton daily capacity Cottrell furnace for processing and reducing cinnabar ore to mercury will be shipped to the Caddo Quicksilver Corporation's mine near Amity, Clark county, in about two weeks, T. C. Moore of Little Rock, president of the corporation, said yesterday.

The mining property consists of 640 acres, 11 miles from Amity. Ore has been taken from a 150-foot shaft and from test pits for several months but lack of machinery has made sible the processing of any of the mine. Approximately 500 tons ore from the mine were processed by another quicksilver corporation at Amity several months ago to prove its mercury content.

Mr. Moore said the reduction fur-

nace would be ready for operation at the Caddo company's mine by November 15. It will cost about \$10,000. Explaining the reduction process, he said cinnabar rock gives off a vapor when results from condensing this vapor

Fifteen men are employed at the mine, which is being worked 24 hours a day-three eight-hour shifts, so that for processing when machinery is in-stalled. Mr. Moore said quicksilver prices ranged from \$150 to \$165 for a 76-pound flask.

erected on the mine property and three additional ones will be built soon. A boarding house is being operated for

the convenience of the employes.
Dr. J. D. Jordan of Little Rock is vice president of the corporation, which was formed last January, and W. M. Coffield, also of Little Rock, is secretary-treasurer. Directors besides the three officers are: M. J. Eunson, mine superintendent, and T. J. Pate, supervisor, both of Murfreesboro, and J. E. Berry, Smackover bank president, oi company executive and drug stora own-er. W. E. Thorne of Murfreesboro is

consulting engineer for the corporation Mr. Moore said all of the company's 153 stockholders are Arkansas citizens

Quicksilver Properties To Be Developed

Gazette

the quicksilver properties of the South-

The Valley mine is being worked at the 250-foot level, and has been producing steadily the past four months, Mr. Yount said. Work of sinking a shaft on the Parker Hill mine on the Southwestern's holdings has been started. It will be a three-compartment shaft, with two five-by-five hoist compartments and a three-by-five manners are payed to find ling new equipment capable of handling nine tons per day and employs 32 persons with an average pay roll of \$400 per week. Officers of the company are: C. A. Hirch, Kansas City, president; W. F. Hintze, vice president and resident engineer.

The Caddo Quicksilver Co., whose incorporated stock is listed at \$90,000. Clark county. This work of the company are: C. A. Hirch, Kansas City, president; W. F. Hintze, vice president and resident engineer.

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The Caddo Quicksilver Co., whose incorporated stock is listed at \$90,000. Clark county. with two five-by-five hoist compartments and a three-by-five man-way. This shaft will be continued until it reaches the 350-foot level. A similar shaft will be started soon at the Gap Ridge mine, also on the Southwestern's

A power plant is being installed just

in the mines, and this number will be doubled within 90 days, it was said.

Cinnabar Industry In Rapid Gain

12-31-39

Special to the Gazette.

Murfreesboro, Dec. 30.-The European war was credited today by mining experts with the fast development of the cinnabar mining industry in south-west Arkansas, which has just passed from the prospecting stage into what promises to become one of the largest and most profitable industries in the

that it was not the demand from the war itself which caused this sudden activity, but the fact that the war practically had shut off the entire imports of this metal to the United States, which in the past had amount-ed to approximately 75 per cent of its consumption, thus causing America to start looking for its own supply at

Nome. New Machinery Installed.

While the mines were discovered in 1931, very little mining other than prospecting was done until last September, when an increased demand caused a price jump from \$82.50 per 10-pound flask in August to approximately \$170 per flask in October, Single mercury poisoning may cocur without being commonly known, and larger equipment to meet the mines are situated in isolated mountainous districts and native bought and are installing new and larger equipment to meet the minereased demand for mercury. The Big Six Mining Co., which owns a large acreage in Pike county 16 miles north of Murfreesboro and which has spent the past two years prospecting or developing its holdings, is installing new machinery which can handle approximately 30 tons of ore per day and will operate on a 24-hour basis, giving employment to about 15 men. Harold Kennedy, general manager and resident engineer of the company, said that he believed the company, said that he believed the company, said that he believed the company, many enter the body through the skin, gastro-intestinal tract, or respiratory to the company mine will produce from 10 to 15 pounds of mercury per ton of ore. Mr. Kennedy pointed out that although this amount of metal might look small to the average person, it actually is compara-to-laced in the past would be provided and the past would be provided and provided in the formal provided in the formal provided in the formal provided in the first provided in the first provided in the first provided and unsured to the state's largest and most important enterprises in the past two years prospecting or developing its holdings, is installing new machinery which can handle approximately 30 tons of ore per day and will portate on a 24-hour basis, giving a provided and possibilities of the United States and most important enterprises in the past wo years prospecting or developing its holdings, is installing new machinery which can handle approximately 30 tons of ore per day and will not the mineral provide erage person, it actually is compara-tively large, as some mines in Spain as low as 8.5 degrees Fahrenheit, the and other countries only produce three fumes inevitably are present, especially

to six pounds of metal per ton, but have been operated profitably for the past century. He said this leaves little doubt that the development of the new field is assured.

World's Best Field Predicted. World's Best Field Predicted.
The United States Mercury Co. received its incorporation papers the past week, listing its property value at \$12,000. W. F. Hintze, named as agent of the company, has prospected the company's holdings for the past eight months and believes that these holdings cover prohably the richest cinna-Murfreesboro, Oct. 28.—Two new companies have been organized to develop the quicksilver properties of the Southper ton and had an average of 122 pounds since prospecting began. This company is installing new equipment capable of handling nine tons per day

vice president and resident engineer.

The Caddo Quicksilver Co., whose incorporated stock is listed at \$90,000, is the only company now operating in Clark county. This company is installing equipment capable of handling 50 tons of ore per day, and employs approximately 30 men. Other companies already in the field include the Mid-Continent Co., the Southwestern, the Valley Mining Co., the McElwayne Co., and the newly-organized American Quicksilver Co., whose company stock is listed at \$100,000

A power plant is being installed just west of the Little Missouri river which will generate about 350 kilowatts. The power will be used for development work at all three mines. A separate power plant is being installed at the Valley mine to generate 150 kilowatts. A 20-ton Gould rotary furnace on the Southwestern property, erected in 1932, will be used to reduce the high grade ore from the mines. The rest of the ore will be stacked in ore piles until completion of a larger furnace. There are about 45 men now at work in the mines, and this number will be

doubled within 90 days, it was said.

Mr. Yount started work on the Southwestern Quicksilver Company's property August 8, 1931, and has been active in the quicksilver industry since. Mr. McElwaine developed the Valley mine, which has been producing four years.

While much "gossip" was heard concerning mercury poisoning and many reports were received of persons being salivated, in only one case workman was affected seriously by the disease, W. H. Tomlinson, associate mining engineer with the United States Bureau or Mines, reported to Ed I. McKinley, state commissioner Ed I. McKinley, state commissioner of labor, following a survey of the cinnebar mining district of Arkansas. Mr. Tomlinson was accompanied by Wilson E. Runton, safety engineer for

wison E. Runton, safety engineer for the state Department of Labor.

Mr. Tomlinson reported that the victim suffered the loss of his teeth as a result of the poisoning, but his health was not affected seriously otherwise. The engineer said the poi-soning resulted while the worker was employed at the retort, where the processing of ore is accomplished. He said the man subsequently was trans-

ferred underground.
Mr. Tomlinson reported that officials and employes reported that on many occasions slight attacks of poisoning resulted from workers' breath-

out definite instances of chronic mercurialism in the quicksilver mining district, there can be little doubt that men after long exposure become to always wash defore eating. Smoking or taking anything by mouth while underground should be discouraged."

He also suggested provision for that men after long exposure become miners to bathe when leaving the

of metal might look small to the av- mouth while eating, smoking, chewing at the retorts, he said.

Personal Hygiene Held Best Solution.

"Possibly the best method of attack of this problem is through a campaign of education among both operators and employes in the quick

(Wallis, Idaho "Miner" - latter part of week of Jan. 28, '40)

QUICKSILVER TRADE RULED BY GAMBLERS

International Manipulators Control Mercury Price Levels

Back of the recent rise in the price of quicksilver from \$150 to \$200 per flask in London is a smooth-working cartel of international manipulators, says Business Week, which practically considers the London market a branch office. About 45 per cent of the world's yearly output of mercury (125,715 flasks in 1938, excluding the Spanish war time production) comes from mines in Italy and Spain. The United States ordinarily produces another 15 per cent.

The Italian and Spanish mines are the richest deposits in the world and production costs run from \$30 to \$40 a flask. Since the cost of production in the United States is figured normally at around \$65 a flask, all that keeps American mines running against the foreign competition in depression periods is a \$19 per flask

The Italo-Spanish mines are government-controlled and united in a monopoly. First intimation that traders had of strong-arm economic methods by the cartel came shortly after the outbreak of the war, when mercury was selling here for \$80. Before the end of September, the price had been bid up to \$170 and it has not dropped below \$130 since then. Market experts say neither increase in actual consumption nor the possibility of a shortage accounts for the price rise. They feel that European money, put up by the cartel, was behind the recent domestic price advance. The explanation is that the United States, which represents the largest share of world production outside the cartel, is too large a source of supply to be ignored by a group interested in raising the ante.

Mercury is a strategic material because about 15 per cent of production is used to make detonators for ammunition. The larger share of the market represents industrial users of mercury but, in recent years the peacetime outlets for mercury have not expanded.

There are two critical points in the price of quicksilver that are useful in analysis of the American market. When the price hits \$100 a flask, domestic mines approach capacity production (about 30,000 flasks a year); at \$130 a flask, some industrial users of mercury begin to turn to substitutes. Both critical points have been exceeded since the war began.

(Above clipping obtained from D. I. Hayes, Western Manager, American Zinc, Lead & Smelting Co., 943 Paul Brown Bldg., St. Louis, Mo. Feb. 27, 1940.)

ing mercury fumes while working hygiene will go a long way toward around the retorts. None of these was serious, however, Mr. Tomlinson said.

He added that there was no doubt that there was considerable more poisoning suffered than reported.

"Although we were realist to realist the sum of the s ning suffered than reported.

be provided and the men encouraged to always wash before eating. Smoking

affected to some extent. Since, as far mines, provision of exhaust system to as is known, no investigation has ever carry away fumes, and compulsory use been made as to the presence or ab- of respirators while cleaning the dis-

Amity Is Nation's Largest; War Demand Spurs Activity Unheralded and unsung— One of the state's largest and most important enterprises in these days of armed conflict and cossibilities of the United States becoming involved in the European war, are operations of the operand war are operated at the plant war purposes, Dr. George C. Branner ent production and market price, the estimated value would be st.750 a day, he said. Dr. Branner explained about 78 furnace tons are being produced war two-day, he said. Dr. Branner of 780 pounds of quicksilver ore. The daily production of quicksilver are recovered per ton, estimate of 10 3-4 flasks. At a price of \$175 operand war are operand war and operand war are operand would be st.750 a day, he said. Dr. Branner operand war are production and war at woo-day, he said. Dr. Branner operand war are production and

The mine, located 23 miles west of Arkadelphia, near Amity, is operating daily with a staff of 27 employes, and to date has sold 45 flasks of mercury, or quicksilver, if you please, containing 76 pounds each, of the highest quality, at \$180 a flask. The prospect for development is so encouraging that promoters of the mining operations are in-

of the mining operations are in-stalling additional mining equip-ment to augment the present plant, in order to produce 12 to 14 flasks weekly to meet the demands of the trade.

being operated at the plant which is the largest producer of quicksilver, or mercury, in the nation today. Day and night shifts are operated daily, min-ing 25 tons of ore every 24

hours.

The plant is located in the center of a 640-acre tract in the foothills of the Ouachita

mountains.
Officers of the corporation in Officers of the corporation in charge of operations are: T. G. Moore, president; Dr. J. D. Jordan, vice president, and W. M. Coffield, secretary-treasurer, all of Little Rock.

The board of directors is composed of Mr. Coffield, Mr. Moore, R. J. Pate, M. J. Eunson, Dr. Jordan, J. E. Berry and G. A. Dodson.

A staff of engineers and assayists is employed by the company which has an authorized capital stock of \$90,000.

\$5,000Worth One rich body of ore has been struck, he said, with the operators reporting 60 pounds of mercury recovered from a ton of ore. The average recovery is five to 20 pounds. Dr. Branner spoke to the DeQueen Commercial Club Thursday night on mineral development in Polk, Howard, Sevier and Little River counties. 5-21-40 Mined Daily has been made since Jahuary 1. One rich body of ore has been struck, he said, with the operators reporting 60 pounds of mercury recovered from a ton of ore. The average recovery is five to 20 pounds. Dr. Branner spoke to the DeQueen Commercial Club Thursday night on mineral development in Polk, Howard, Sevier and Little River counties. A statement in Sunday's Gazette

from a peace-time price of \$80 a ton

to \$175, Dr. Branner said.
"Activity in the district is the greatest since the ore was discovered in silver at nine active mining operations 1931," he said. "About 3,500 flasks in Pike and Clark counties is valued of 76 pounds each have been recovat at about \$1,800, state Geologist George of 76 pounds each have been recovat about \$1,800, state Geologist George ered, with about one-third of the total C. Branner said yesterday. Dr. Branproduced in 1939.

Quicksilver Mines In State Are Busy

5-19-40

High prices for quicksilver have brought renewed activity in the cinnabar mines of Arkansas, Dr. George

has been made since January 1.

Nine active mining operations in ner, state geologist, as saying that the value of quicksilver ore mined in Pike and Clark counties are producing about \$5,600 worth of quicksilver ore 600 a day was incorrect. Dr. Branner daily in response to the demand for said last pight. Based on the pres-

Valued at \$1,800. 5-21-40 Daily production of Arkansas quick-

ner was erroneously quoted last week

as placing the value at \$5,600.

The geologist said the higher figure was probably reached by assuming all mine operations were working at full capacity of 105 tons of ore daily. He explained that some of the furnaces are not now working to capacity and others are not yet in regular operation. "I would estimate that the total

C. Branner, state geologist, reported yesterday on his return from a three-day trip in southwest Arkanhe said. "If the average ore recoveries Arkansas mines have produced 3,- for this tonnage is assumed to be 10 Arkansas mines have produced 5 for this tolling is assumed to 50 to 4,000 flasks of quicksilver since the price rise made the mining more profitable, Dr. Branner said.

About two-thirds of this production 1780 pounds, or 10.2 flasks of quicks silver, which at \$175 per flask would

"It is not at all impossible that counties, as a strategic mineral. The values may rise to \$5,000 per day with the full use of the present furnace Survey about the offer, returned to installation and a slight improvement in the average grade of the ore mined. With the opening of new mines and the installation of new furnaces, the ed by H. K. Thatcher, who is directiving could go considerably higher.

State Demands Reports From Six Quicksilver Companies.

E. R. Richardson, supervisor of the tate Revenue Department's Severance Tax Division, prepared yesterday to act against six quicksilver mining companies in Pike and Clark counties which have failed to report producion for taxation purposes.

Production of quicksilver is taxable at the rate of 2.5 per cent of the gross cash market value, the same levy against severance of most other natural resources. Payments must be made each month when production reports are filed.

"Until receitly, quicksilver mining was considered on an experimental basis and no effort was made to colect the tax," Mr. Richardson said. Since the price has soared because war demand it has gone beyond

The state notified the nine companies operating in the two counties in April that reports must be made and taxes paid. Mr. Richardson said x companies have failed to comply

He said auditors will go to the mine offices in an effort to determine production. It was said the state estimate the severance tax if denied access to the books. Certificates of indebtedness would be filed with the circuit clerks for judgments against

Quicksilver and Manganese To Be Needed for Defense to

Quicksilver and manganese are trategic minerals in Arkansas which may be developed by the United States Bureau of Mines in connection nation's defense program, Governor Bailey was informed yester-day by a telegram from State Geologist George C. Branner, who was in Wash-

Dr. Branner, following a conference charge of strategic minerals, said a oject "to drill in quicksilver area has been favorably considered, but be-ginning date not definite." Quicksilver deposits in Pike and Clark counties are being mined. "Project to drill in Batesville manganese area under consideration," the geologist continued. He said Bureau of Mines representatives, after surveying a Sevier county area producing antimony, were "not op-timistic as to the quantity of ore available and doubt if their drilling can be conomically justified. I am to sup-ply the bureau with additional data which will be considered with respect to the possibility of justifying the rilling program.

A message to the governor from . K. Thatcher, executive director of state Agricultural and Industrial Commission, said that a location in the Munsey building land been obtained for the state's office at Washington, established for the purpose of bringing war industries to Arkansas. Mr. Thatcher, Dr. Branner and L. A. Henry, engineer-director of the state ing Board, went to Washington en the office

quicksilver Corporation Gets State Charter.

GAZETTE 6-14-40 The National Quicksilver Corporation of Murfreesboro, organized to mine or to contract for the mining of cinnabar, quicksilver or "all other minerals," filed articles of incorporation at the office of Secretary of State C. G. Hall yesterday. The corporation, authorized to issue 2,000 shares of no par value each, will start business with a capital of \$51,000 in the form of a cinnabar lease.

Incorporators were B. D. Sponhaltz of Oklahoria City, Okla., president; Charles A. Salyer of Murfreesboro, vice president, and Rodney Janeway of Oklahoma City, secretary-treasurer, each having 338 shares; and Alfred Featherston of Murfreesboro, resident agent, six shares.

Coring Tests for Quicksilver Urged by Branner.

GAZETTE 6-26-40
Dr. G. C. Branner, state geologist, notified Governor Bailey that a representative of the Mid-Continent Quicksilver Company of Arkansas had said the company is willing to loan a core drill outfit to the state Mineral Survey, if the survey will furnish labor to operate the outfit in the quciksilver area. The company also would furnish a director for the drilling.

Dr. Branner said he believed such program is "desirable" inasmuch as he War Department has classified quicksilver, found in Pike and Clark

figure could go considerably higher. "At the present time, however, I believe that an estimate of about \$1,800 daily as the value of metal recovered would be liberal." Wining of an Important War Material, as Demonstrated Here Seems Simple Process



-Democrat Photo.

Ever see a man milk a rock?
That is what E. Smith Reed, industrial engineer of the state Agricultural and Industiral Commission, is doing in the accompanying picture, and the stuff he is recovering from the rock is pure mercury, one of the most important of war materials.

globules of mercury, which can be shaken out, and is quite rare

However, H. K. Thatcher, director of the Agricultural and Industrial Commission, wanted the ore to take with him to Washington as a graphic illustration of the state's possession of war minerals. of war minerals.

such action, into mercury sul-phide.

type of ore shown has not been recently opened in Washington by the Agricultural and Indus-

Recovery of mercury from cinnabar is relatively simple. The ore can be crushed and heated in any kind of still, even the crudest. The sulphur burns off and the mercury vaporizes. In fact, it is so easily recovered, according to experts, that cinnabar mine operators have a great deal of trouble with "high

cinnabar mine operators have a great deal of trouble with "high

These people steal the ore by pocketfuls or in similar small quantities. Even a teapot with a tight lid, and a piece of hose, can be put together into an effective still. With mercury sell-ing at fabulous prices because

Quicksilver Mines In State Are Busy

The Owl, Amity 5-23-40 High prices for quicksilver have brought renewed activity The piece of ore he is holding was found in Pike county. The area abounds in rich cinnabar, the ore from which mercury is obtained. The rock shown is not technically cinnabar, but is a first cousin, and so composed that it is honeycombed with tiny globules of mercury which can his return from a three-day trip Fork river northwest of De Queen,

The picture was posed by Mr. Reed, but the mercury he holds in one hand was actually shaken out of the piece of ore by a reporter. More could have been obtained by more vigorous shaking, or more simply by crushing the rock and heating.

The distance in the producted distance in the producted distance in the product of the price rise made the freesboro.

Mabry, so Commercially, and the production has been made of this production has been made took the 3,500 to 4,000 flasks of quicksilver J. W. Penney on Monday, at Mursince January 1.

One rich body of ore has been struck, he said, with the operat- Kraft paper mill company which ors reporting 60 pounds of mer-

The ore shown, as previously stated, is a rarity and usually occurs in small pockets, according to experts. Some of the mercury or quicksilver obtained in the early days of California and some Italian mercury is obtained from similar deposits.

Most recovered from a ton of ore. The average recovery is 5 to 20 pounds.

Dr. Branner says, "I would estimate that the total tonnage of ore passing through furnaces now in actual use does not exceed 78 tons daily, and may be over the state and where a thriving cinnabar mining industry is now under way.

According to Mabry, the geologist instantly saw the possibilities of the samples and compared them with stones taken from the Murfreesboro mines. The stones were identical in appearance. ceed 78 tons daily, and may be appearance. less." "If the average ore re-The extent of deposits of the coveries for this tonnage is asdetermined, Mr. Reed said, but sumed to be 10 pounds (instead it is known that Pike and ad- of 20 pounds) the total daily rejoining counties abound in rich covery would be about 780 pounds ones located on islands, and dethose deposits as part of the na- or 10.2 flasks of quicksilver which scribed the formation at the Sevier tional defense program, is one at \$175 per flask would be worth county location, although he had of the objectives of the office \$1,785.

\$5,000 Worth of Quicksilver Gurdon TiMined Daily

Nine active mining operations in Pike and Clark counties are producing about \$,600 worth of quicksilver ore daily in response to the demand for war purposes, Dr. George C. Branner reported

ing at fabulous prices because of the war, the operation is a highly profitable one to the "high grader." mines, employing about 100 men, have retorts to handle 162 tons of furnace ore daily. Ordinarily five to 200 pounds of quicksilver five to 200 pounds of quicksilver Mercury is an important min- are recovered per ton, but one

operator received 60 pounds. Price of the mineral has advanced from a peace-time price of \$80 a flask to \$175, Dr. Branner said.

"Activity in the district is the greatest since the ore was discovered in 1931," he said. "About 3,500 flasks of 76 pounds each have been recovered, with about one-third of the total produced in 1939.

QUICKSILVER MINES

ROLLING FORK

De Queen Bee Kraft Geologist Finds Sevier Specimens Appear Identical to Those of Pike County.

Assurance that samples of ore taken from a tract of land on Rolling contained cinnabar in paying quan-Arkansas mines have produced tities, was given Gordon Mabry and

> Mabry, secretary of the De Queen Commercial Club, and Penney, De Queen's "one man mineral survey," took the samples to the office of Geologist Thorn, who is head of the geology department of the vast owns thousands of acres near Mur-

Thorn expressed keen interest in visiting the Sevier county deposits, Mabry said. He told of having inspected every cinnabar mine in the world, with exception of two small

Penney believes that the Sevier county deposits cover a wide area and reach great depths, from his explorations. The area is across on the west side of Rolling Fork river from the original deposits found by Penney.

Mabry said that there is no doubt but that the mineral is now awaiting only development by those financialquantities.

To Speed Up Production Of Cinnabar

Special to the Gazette.

QUICKSILVER MINES

IN STATE ARE BUSY

Pike Go Gourier

High prices for quicksilver
have brought renewed activity production of mercury in the cinnabar mines of Arkansas, Dr. George C. Branner, state
geologist, reported on his return from a three-day trip in
southwest Arkansas.

Arkansas mines have produced 3,500 to 4,000 flasks of quicksilver since the price rise made
the mining more profitable, Dr.
Branner said. About two-thirds
of this production has been
struck, he said, with the operatords reporting 60 pounds of mercury recovered from a ton of
ore. The average recovery is five
to 20 poonds.

Mine defines program,
members of 14 cinnabar mining
more profitable, Dr.
Branner said. About two-thirds
of this production has been
struck, he said, with the operatords reported here yesterday. Engineers
methor to meet nation's need for
the defines program,
members of 14 cinnabar mining
member of 14 cinnabar mining
members of 14 cinnabar mining
member of 18 cinnabar mining
member of

sponsor a WPA road.

Mines represented at the meeting, and the number of workers employed by each mine, included the Big Six Mining Co., 22; Z. B. Lewis Mining Co., 16; Arkansas Quicksilver Company, 64; Holmes Mining Co., 7; Hale Mining and Development Co., 30; Mercury Mines, Inc., 16; Southern Mining and Reduction Co., 5; United States Mercury Co., 32; J. O. Wright and E. B. Guess Mining Co., 8; Caddo Quicksilver Co., 37; National Quicksilver Co., 3; Jack National Quicksilver Co., 3; Jack Fork Mining Co., 8.

Sued for \$925.69.
Gazette 7-27-40
J. O. Wright and E. B. Guess filed suit for \$925.69 against the Caddo Quicksilver Corporation in Circuit Court yesterday, claiming the sum was due them for mercury which escaped as gas while being processed by the firm.

The complaint said that last April 16 the plaintiffs delivered to the firm at its reducing plant near Amity 33.67 tons of ore which had a mercury content of 14.571 pounds per ton. The company agreed to recover 95 per cent of the mercury contents and agreed to extract it for \$5 per ton, the complaint said. Under those terms, the plaintiffs alleged, they should have recovered 490.6 pounds of mercury valued at \$2.23 per pound. The total value would have been \$1.094.94 less the milling cost of \$168.35, leaving \$925.69.

The plaintiffs alleged that the

\$925.69.

The plaintiffs alleged that the company was careless in processing the ore and recovered only 40.5 pounds of mercury. They said they believed the negligence consisted of applying too much heat

Cinnabar

Operators

Want Roads

Gazette 8-1-40

county, a distance of 40 miles. Leo Yount of Amity, operator of the Arkansas Quicksilver Mines, Inc., who started development as long ago as 1931, constructed a pioneer road system for himself. The Civilian Conservation Corps later built roads, but they were not kept in good condition, Mr. Yount said. Lumber trails also have been used.

Roads In Bad Condition.

Crowded and worn down by mine traffic, the roads "wear out" an automobile in six months, Mr. Yount Murfreesboro, July 25. — In an reported here yesterday. Engineers and geologists have been reluctant effort to meet nation's need for to examine the mining areas be-

inate officers to be voted on August 8.

The Road Committee indicated that it would request the state to sponsor a WPA road.

Mine same mines have a daily capacity production of 105 tons.

Mr. Yount said the Arkansas Quicksilver Mines, Inc., has invested \$150,000 in cash, to date, and will have invested more than \$250,000 in the next six more than \$250,000 in the

Cinnabar Area. 8-11-40 G&Zette

A proposed rural electric line for the development of the cinnabar Caddo Quicksilver Corporation area in southwest Arkansas will be

Area May Get **REA Project** Democrat 8-11-40

A proposal to extend rural electrification lines into the Arkansas cinnabar mine area, located in Pike. Howard and Sevier counties, as a national defense measure, was being considered today by the State Department of Public Utilities and the Rural Electrification Administration. Thomas Fitzhugh, chairman of the Utilities Commission, said the proposal to extend the lines and form a rural electrification co-operative in the area, considered as necessary for advancing the quicksilver mining, was advanced by Ray Ward, an Amity mine operator, and had already been received in favor by Washington officials.

Quicksilver mine operators of ly able to take it out in paying southern Arkansas whose industry is flourishing because of national defense needs, plan to send a committee to the state Highway Department to ask that an all-weather road be built across the Arkan-sas quicksilver district.

The cinnabar (quicksilver) area extends from the western edge of Clark county, across Pike county to the eastern section of Howard

chasing.

Road Plans Drafted.

Already the State Highway Department has mapped out a proposed 63-mile road to be constructed through the area as a national defense measure. Plans for construction of the route have been turned over to the Works Projects Administration along with other highway and airport plans considered important to national defense.

Several weeks ago REA officials advised that \$285,000 was available for establishment of new Arkansas rural electrification co-operatives, and added that if more REA money was needed in the state it would be available if the Arkansas projects were approved in Washington. To date the state still has approximately \$100,000 available from the first

Power Line to Cinnabar Area

To Be Surveyed.

8-15-40 to Zette
A proposed rural electric line to

A proposed rural electric line to serve the cinnabar area in Pike, the ministration. He will be accom-panied by Thomas Fitzhugh, chairpanied by Thomas Fitzhugh, chair- Ward of Amity, vice presidents, man of the state Utilities Commis- Judgment of \$600 Awarded

sion; Dr. George C. Branner, state geologist, and H. K. Thatcher, director of the Agricultural and Industrial Commission.

Special to the Gazette. Murfreesboro, Sept. 20.—The Midcontinent Quicksilver Company was continent Quicksilver Company.

ible, work on the line could start in two weeks, Mr. Fitzhugh said. The cinnabar area is without electric power at the present.

Cinnabar Area Likely To Get Power

The Rural Electrification Administration will do "everything in its power" to build rural power lines into the cinnabar area of Southwest Arkansas, R. J. Bemish Jr. of Washington, D. C., power consultant to the REA administrator, said last night.

Mr. Romish returned late vester.

Mr. Bemish returned late yester-day from a tour of the area with

state officials, investigating the feasibility of granting an REA loan to extend rural electric lines

in the area.

He said farmers and mine operators are extremely anxious to

secure a power line and indications are the REA will assist them. Cinnabar is the ore from which mercury is obtained. Mercury is a product vital to the national de-fense program being used in many industries including the manufac-turing of shells and firing caps.

Present Operations Said Only to Scratch Surface.

He found the entire area ex-periencing an overnight boon due to the closing of Sanish deposits of the mineral which formerly supplied the greater part of American mercury. The Arkansas area formerly supplied between five and 10 per cent of the domestic consumption, he said, and indications are that it may supply as much as 50 per cent in the future. He said oresent operations were "only cratching the surface."
State officials making the trip

with Mr. Bemish were Thomas Fitzhugh, Utilities Commission chairman; state Geologist George

C. Branner; and H. K. Thatcher, executive director of the state Agricultural and Industrial Com-

Mr. Fitzhugh said construction the lines would start in two weeks if the extension was considered feasible. Mr. Branner said use of electric power would reduce eosts of mining operations con-

Mr. Fitzhugh said he had talked with Dr. Ralph V. Craig, Washington, assistant REA administrator, and that Dr. Craig had advised him he would send an engineer to Arkansas Thursday to discuss the proposal. A definite answer on the problem is expected within two weeks, Mr. Fitzhugh said.

Ward said the addition of rural electrical lines to the mining area was badly needed to advance the mining of quicksilver, one of Arkansas's most valuable products concerning the national defense purchasing.

Road Plans Drafted.

Already the State Highway Department has mapped out a proposed 63-mile road to be constructed through the area as a national defense measure. Plans for construction of the route have been turned over to the Works Projects Administration along with other highway introduced through the area as a national defense measure. Plans for construction of the route have been turned over to the Works Projects Administration along with other highway into the manufacture of the Rural Electrification Administration seeking early action on a proposal to extend an REA power line to the southwest Arkansas cinnabar mining area, Chairman Thomas Fitzhugh said yesterday. The proposed line would be connected with that of the Southwest Co-operative Corporation, Texarkana. Negotiations are being made with the Arkansas Power and Light Company for furnishing current.

The cinnabar area.

The state Utilities Commission will communicate with a Washington representative of the Rural Electrification Administration seeking early action on a proposal to extend an REA power line to the southwest Arkansas cinnabar mining area, Chairman Thomas Fitzhugh said yesterday. The proposed for the Southwest Co-operative Corporation, Texarkana. Negotiations are being made with the Arkansas Power and Light Company for furnishing current.

The cinnabar area extends from Administration seeking early action on a proposal to extend an REA power line to the southwest Co-operative Corporation, Texarkana. Negotiations are being made with the Arkansas Power

was needed in the state it would be available if the Arkansas projects were approved in Washington. To date the state still has approximately \$100,000 available from the first allotted fund.

The state it would duction proces here, officials of the duction proces here. sity of Arkansas was present at the experiment and helped impro-

A proposed rural electric line to serve the cinnabar area in Pike, Howard and Sevier counties will be surveyed today by an engineer from the Rural Electrification Administration. He will be accomministration. He will be accomministration.

awarded judgment of \$600 against the United States Mercury Company by a jury in Circuit Court here today. The suit was based on a breach of contract. The Midcontinent company alleged it had processed more than 400 tons of cin-nabar ore to extract mercury for the United States Mercury Company and that a balance of \$774 was due for the processing. About 2 and 1-2 flasks of mercury is held by the sheriff under an attachment issued when the suit was filed.

Judge Minor Millwee set next Wednesday for trial of the election contest brought by County and Circuit Clerk C. G. Bolin against J. D. Thompson, for the office of representative. Each side has challenged approximately 500 votes.

Cinnabar Mines to Get REA Line

Gazette 9-24-40

Washington, Sept. 23 (A). — The Rural Electrification Administration announced today allotment of \$240,000 to make power available for operating 18 Arkansas cinnabar mines.

The allotment was to the South-west Arkansas Electric Co-operat-ive, Texarkana. The 154 miles of line would serve 403 members in Pike and Clark counties in addition to the mines. The REA said electrification of the mines would double or treble their quicksilver production and aid national de-

Electricity is highly important in mine operations. It is used for light in the mines and to force air into them as well as operate power drills, lifts and other equipment. Most of the operators have been forced to produce their own electric power on small portable gasoline

units, at high cost.

Much of the low quality ore not removed from the mines. The new power rates will make the ore

It is probable electrical transport equipment for hauling ore from the mines to reduction plants will be placed in service when the cheaper power becomes available.

DESPITE DISHEARTENING HANDICAPS, RICH CINNABAR DISTRICT IS PROSPERING WITH QUICKSILVER PRICE UP TO DIZZY HEIGHTS

By CLOVIS COPELAND. Staff Correspondent of the Gazette

Murfreesboro, Sept. 21.-A big increase in the price of quicksilver caused by the European war and the national defense program has caused a new boom in the rich cinnabar district of this section and Good Ore of Mercury.

Special to the Gazette.

Fayetteville, Sept. 14.—Ore from a mine near Amity yielded four and five-eights ounces of mercury from all and faced the handicaps with-

out outside assistance see a chance to reap their rewards on an ab-normal market, from which they can build their own roads and pro-vide power to continue operations

when the emergency ends.

The story of the district is no different from that of other virgin fields. Prospectors have known all along that the metal was there in rich quantities. However they were forced to use gasoline motors for power and move the reduction units from mine to mine.

This has meant that much of the

This has meant that much of the manpower has been used in operations other than removing the ore and extracting the quicksilver. The current price is approximately \$90 a flask (about 76 pounds) above the normal price, which means that even with crude methods of extraction, a fair profit can be real-

Indications are that imports of the metal will be cut off or curtailed to a great extent. The United States ordinarily produces only 54 per cent of the quicksilver it consumes. This new field therefore is becoming of great importance and is being watched closely by officials of the national defense program.

Despite handicaps, the region has produced more than a million dol-lars worth of quicksilver since the first flask was shipped out about nine years ago.

Industry Carried on Under Discouraging Conditions.

Cinnabar has been found in narrow belt about 26 miles long and a maximum of six miles wide, all the way across north central Pike county and extending a short distance into Howard and Clark counties. The best road in the area is State Highway 27, which almost bisects the district.

The country is rough and cut up by the Little Missouri river and Antoine creek, both of which flood and applied the land applied.

the lowlands in the fall and spring The section has been useful only for its timber, except for some farming in the creek and river

inhabited. Prospectors were forced to cut their own roads to the mines, and to ford the mountain streams or construct rude bridges.

Small reduction units and only absolutely necessary mining equipment has been carried into the in-terior until recently, when two of the larger concerns built temporary bridges which would permit passage of trucks carrying heavier Diesel

The Arkansas Quicksilver Company plant, one of the leading producers of the area, can be reached only by travers ng a six-mile road, which is knee-deep in dust in the

Cheaper power will cause a new boom in the cinnabar mining district, mine operators said. Many claims, which are not being worked because of the low quality ore, will be profitable with characteristics.

nature of the underground struc-





The top picture shows J. Barrett, left, and H. Stewart, working 260 feet under the ground in the Parker Hill mine, where the first cinnabar deposit was discovered in the southwestern Arkansas quicksilver district near Murfreesboro. The bottom picture shows the modern reduction plant of the Arkansas Quicksilver Company, where the quicksilver is extracted from the ore.

trucks transporting the ore from mine to plant. This winter, small boats will be pressed into service.

Even with this system, the plant is paying dividends. The concern has purchased the latest type of mining and refining processes, and has been doing some reduction work for smaller mine units in the area.

Mining is difficult because of the Mining is difficult because of the The sulphur gas escapes through a

through the underground struc-ires.

The quicksilver is purified through the use of heated lime. It then is placed in flasks, and is deposits. Some has produced 1,000 ready for the market. It leaves even pounds of metal to a ton of ore. the crude refining plants in the Still Doing Business.

How Quicksilver Is Produced
From Cinnabar Ore.

The power problem may be solved within the next year. Engineers say that a dam on Little Missouri river sizes, from one to two inches in diameter. Then the ore is placed

Engineers of the Arkansas Power

Light Company are said to be working on the idea of supplying the area from Remmel or Carpen
Light Company are said to be with the diamond mines, less than the area from Remmel or Carpen-

ter dams near Hot Springs, or from other dams which could be constructed on the Ouachita river. The existing dams are not more than his own operations from the begin-

pounds of metal to a ton of ore. The usual ore produces from 15 to 50 pounds of quicksilver per ton.

Some ore veins have been discovered on the surface, reaching to a denth of 260 feet. The veins usually take a diagonal course. Shafts follow the veins from a central shaft, from which the ore is removed in large buckets.

Still Doing Business.

Most of the adventurers who opened the fields in 1931 still are operating. Leo Yount, who erected the first two plants and started the first two plants and started location, and bring the ore to the plants.

This would make possible a systematic reduction of certain types of ore at the same time and greatly the development include State area, as a national defense propositional stage and that the production of quicksilver in paying quantities is a reality. It is exponented the fields in 1931 still are operating. Leo Yount, who erected the first two plants and started the first two plants and started and production will be increased at least 25 per cent during the first two plants and started the first two plants are operating. Leo Yount, who erected the first two plants are operating. Leo Yount, who erected the first two plants are operating. Leo Yount, who erected the first two plants are operating. Leo Yount, who erected the first two plants are operating. Leo Yount, who erected the first two plants are operating. Leo Yount, who erected the first two plants are operating. Leo Yount, who erected the first two plants are operating. Leo Yount, who erected the first two plants are operating. Leo Yount, who erected the first two plants are operating. Leo Yount, who erected the first two plants are operating. Leo Yount, who erected the first two plants are operating. Leo Yount, who erected the first two plants are operating. Leo Yount, who erected the first two plants are operating. Leo Yount, who erected the first two plants are operating. Leo Yount, who erected the first two plants are operating. Leo Yount, who erected the first two plants are operating. Leo Yount, who ere

water would flood some of the It still is one of the most produc-most valuable mines.

operated day and night. The operators say the field has passed the promotional stage and that the production of quicksilver in pay-

ect or as a community enterprise.

Work Begun On Cinnabar Electric Line

9-27-40

Special to the Gazette. Murfreesboro, Sept. 26.-Engineers arrived today and crews im- View Cinnabar Area

Cinnabar Merged

fazette_10-6-40 Murfreesboro, Oct. 5.—A consolidation of the Craig Mining Company and the Southern Mining and Reduction Company was announced here today. The new company will be known as the Craig Mining Com-

By B. N. TIMMONS.

Company and has an authorized capital stock of \$100,000.

Company forficials announced that they obtained a new lease on the Luig Bell property, containing 40 acres, which lies in the heart of the cinnabar belt, and also a lease on 40 acres belonging to the Ozna Lumber Company joining the Bell tract. The new leases specify that the company must go on a produced in the cinnabar district of the cinnabar belt, and hours per down which would take the company poining the Bell tract. The new leases specify that the company must go on a produced in the cinnabar district of the

struction of the line.

Cinnabar Firms Involved In Sale to Remain Separate.

Murfreesboro, Oct. 8.—Roy Ward, vice president and engineer of the Southern Mining Company, said today that an article appearing in the Arkansas Gazette Sunday statthe Arkansas Gazette Sunday stating that the Southern Mining and Reduction Company and the Craig Mining Company had consolidated was in error. Mr. Ward said that the Craig Mining Company was taken over as a subsidiary by the Southern Mining and Reduction Southern Mining and Reduction Company and will be operated and financed by the parent company as a separate holding. He said the Southern Mining and Reduction Company will continue operations.

Cinnabar Section Power Line Started

10-16-40

Special to the Gazette.

Murfreesboro, Oct. 15.—Work was resumed today on the construction of the REA line into the cinnabar belt. Work had been suspended for 10 days while mining company and REA officials attempted to reach an agreement on the power purchase

Approximately 300 farmers and farm laborers started clearing right-of-way through the district, which extends from the Clark

county line through Pike to the eastern boundary of Howard. Company officials said that the work scheduled called for the clearing of Washington, October 19. The purpose of the contract was first announced by Senator Hattie W. Caraway and Congressman Fadjo Cravens in Washington, October 19. all the right-of-way in 18 days and chase is being made under an ap-that construction of the line will propriation for strategic and criticthat construction of the line will pr follow immediately. Several miles al of rural line to serve farmers in the southern part of Pike county will be built as soon as the cinna-bar line is completed. It is expect-ed the line eventually will cover the entire rural section of Pike county.

Expert Coming to

Government Mining Firms Buys Mercury By JAMES D. MONTGOMERY. In Arkansas

May Open Way For Further Sales Of Mineral in State.

Democrat 10-20-40 By B. N. TIMMONS.

Delivery Of Mercury To Start Dec. 1

furnace having a daily capacity of largest holdings.
to tons at its plant, located in Pike 'Grass Roots' Mining. ounty, seven miles southeast of Amity, Clark county. The company, a reorganization of the former Mid-Continent Quicksilver tunnel extending 60 feet into a largest holdings.

'Grass Roots' Mining.

'Grass Roots' Mining.

'Mr. Rowe said one of Mercury a boom is under way, but declare while a road was being built. A this is going to be the greatest thing this part of the country ever had."

materials.

\$125,000 Purchase Of Arkansas Mercury.

Washington, Oct. 31 (A).—Senator Caraway and Representatives Cravens and Terry, Arkansas Democrats, announced today the government would buy \$125,000 to \$150,000 worth of Arkansas mercury under a contract recently awarded to Mercury Mines, Inc., Pike coun-

ty, Ark.
They said the contract would give employment to about 100 persons in Pike county, direct attention to Arkansas's mineral resources and perhaps result in se-lection of other firms in the state for defense contracts.

Many Jobs Provided In **Cinnabar**Area

Amity, Nov. 2.-Southwest Arkansas's cinnabar field, which landed the state's first national defense contract, is providing steady

facturers have been taking a large part of the output. A chemical company has been buying from the Caddo Quicksilver Corporation at \$181 to \$183 a flask. Representatives of the Western Cartridge Company, St. Louis, Mo., recently inspected the field. New private contracts, possibly others for national defense, are expected. A power line extension of the Rural Electrification Administration is

Corporation, has headquarters at hillside is a continuation of devel414 Union National Bank building,
building, opment which started at this road.

"This is 'grass roots' mining," a

WHERE MERCURY IS 'MADE'



Mercury to be sold to the United States government under Arkansas's first national defense contract will be extracted from cinnabar at the plant of Mercury Mines, Inc., located on a Pike county today.

Most cinnabar miners are farmers whose regular incomes needed bolstering. A comparatively small number of men handling technical details came from other states Pike and Clark county residents, mountainside overlooking Big Antoine creek and neighboring Clark county. The plant is seven miles

Cinnabar

antimony and bauxite.

"The government is manifesting an increasing interest in the mineral resources of Arkansas," they said, "and durin, the past week has sent the detonation" of a shell, before experts from the United States Geological Survey into western Arkansas for the purpose of studying meracury and manganese deposits."

War Boomed Market.

The government contract provides that the mercury must be packed in clean wrought-iron or al resources of Arkansas," they said, market for mercury, which "makes steel flasks, securely stoppered the detonation" of a shell, before defense preparations started in the lubricated with oil, white lead "or other suitable lubricant." They will be shipped from Glenwood.

Deceptive in Weight.

The field, discovered 10 years

power line extension of the Rural Electrification Administration is nearly complete.

Gazette 10-31-40
Arkansas's first national defense contract, awarded to Mercury Mines, Inc., calls for the delivery of \$120,000 worth of prime virgin mercury, 750 76-pound flasks having a unit price of \$160 per flask, in a 12-month period, starting tomorrow.

The first delivery will be made about December 1, said James F. Pigg, vice president and general manager of Mercury Mines, Inc., which received a purchase order from the Branch of Supply, Procurement Division, Treasury Department, yesterday. The flasks will be delivered to a government warehouse at Columbus, O.

Mercury Mines, Inc., maintains a Nichols - Herreschoff quicksilver runace having a daily capacity of \$00 acres and owning 103, has the furnace having a daily capacity of \$00 acres and owning 103, has the furnace having a daily capacity of \$00 acres and owning 103, has the furnace having a daily capacity of \$00 acres and owning 103, has the furnace having a daily capacity of \$00 acres and owning 103, has the furnace having a daily capacity of \$00 acres and owning 103, has the furnace having a daily capacity of \$00 acres and owning 103, has the furnace having a daily capacity of \$00 acres and owning 103, has the furnace having a daily capacity of \$00 acres and owning 103, has the furnace having a daily capacity of \$00 acres and owning 103, has the furnace having a daily capacity of \$00 acres and owning 103, has the furnace having a daily capacity of \$00 acres and owning 103, has the furnace having a daily capacity of \$00 acres and owning 103, has the furnace having a daily capacity of \$00 acres and owning 103, has the furnace having a daily capacity of \$00 acres and owning 103, has the furnace having a daily capacity of \$00 acres and owning 103, has the furnace having a daily capacity of \$00 acres and owning 103, has the furnace having a daily capacity of \$00 acres and owning 103, has the furnace having a daily capacity of \$00 acres and owning 103 acres and owning 1 tion secretary.

Production

Gazette 11-5-40

Washington, Nov. 4 (AP).-Construction of additional rural power lines in Arkansas will enable the cinnabar mines of that state to step up production soon, Harry Slattery, administrator of the Bural Electricians. He said the officials were "sold" on the Arkansas fields and predicted other contracts would follow soon. He explained that the foreign supply, coming mostly from struction of additional rural power administrator of the Rural Electrification Administration, said today.

Cinnabar is the ore from which mercury is extracted and is vital

to the national defense program.
Until recently, much of the mercury used in American production had been supplied from Spanish mines. Before these deposits were closed to the American market, only 5 to 10 per cent of domestic needs were supplied by a few Arkansas mines.

On September 24, the REA allotted \$240,000 to the Southwest Ar-kansas Electric Co-operative Corporation, at Texarkana, to serve 18 cinnabar mines, as well as 403 farmer-members.

The cinnabar field in Pike, Howard and Clark counties in southvest Arkansas will benefit. Lines Will Be Completed To

Several Mines This Week.

The REA lines are expected to be completed to several mines in the cinnabar area this week. Construction was delayed several weeks while mine operators and the REA agreed on rates. A contract, agree-able to both parties, was approved at a conference several weeks ago, called by the state Utilities Commission. The REA has expressed interest in construction of new lines to other areas with mineral

deposits. Mercury Of Arkansas Finds Favor

Akers. Little Rock lawyer, yesterday.

He returned yesterday from Washington, D. C., after spending more than four months representing the Mercury Mines, Inc., of Murfreesboro, which obtained a \$120,000 mercury contract from the \$120,000 mercury contract from the size.

terials, only after foreign supplies are exhausted, unless they were confident the domestic supply was adequate for a long period, he said.

At least three government experts inspected the fields and pronounced the supply adequate, be-fore the contract was signed, he

Spain and Italy, had been cut off in recent months, but an inferior quality of mercury was coming from Mexico.

Financing Aided.

A recent law (Public Law No. 811, approved October 9, 1940), will greatly aid in financing production of large government contracts from the Arkansas mines, the lawyer said. He explained the contracts would be available to banks and other lending institutions as col-

Mr. Akers said much credit for obtaining the contract should be given Congressmen D. D. Terry and Governor-elect Adkins and H. K. Thatcher, executive director of the Arkansas Agricultural and Industrial Commission.

Compromise Power Sought

Alarmed over the possibility that

contracts for power, the State Department of Public Utilities scheduled a conference with the miners in Murfreesboro at 2 p. m. today.

"We are determined to find out the cause of this trouble." Thomas Fitzhugh, chairman of the commission,

Finds Favor

Gazette 11-10-40

National defense authorities are convinced there is an "almost limitless" supply of mercury in the Arkansas cinnabar mines, Will G. Akers, Little Rock lawyer, said yesterday.

He returned yesterday from Washington D. C. after spending washington D. C. after spending awarded in Arkansas to date. That

CinnabarArea REA agreed to waive the demand billing on meters not in use. May Lose REA Line

man of the state Utilities Commission, and last night. Mr. Fitzhugh will meet with members of the Quicksilver Producers' Association at Murfreesboro at 2 p. m. today to deliver the message from

Construction of the line, estimated to cost \$110,000, was started in September after the association tentatively agreed to contract for the electric service. A "great majority" of the producers have not yet signed the contract. Mr. Bemish

If construction is stopped, Mr Bemish and Mr. Fitzhugh said they would request the REA adminis-

trator to "ask for an investigation of the obstruction of the project."

The line was approved by the REA as a national defense project to facilitate production of cinnabar, from which quicksilver is produced. One of the producers, Quicksilver Mines The recently was silver Mines, Inc., recently awarded a government contract for \$120,000 worth of quicksilver, Ar-kansas's only defense contract. Ii construction is stopped, this com-

Power for the line would be bought wholesale from the Arkansas Power and Light Company.

"Because of the need for materials in other parts of the country, it is doubtful if construction can be started again if work is halted," Mr. Bemish said. "This project is a precedent for the country and we had planned to extend lines to other areas in Arkansas with rich mineral deposits without electric serv-

The Utilities Commission originated the project and secured approval of the REA.

Cinnabar Miners Sign REA Contract

Gazette 11-15-40

By CLAUDE CURLIN. (Staff Correspondent of the Gazette.)

Murfreesboro, Nov. 14.—A threat by the Rural Electrification Administration to halt construction on a 110-mile rural electric line into the cinnabar area in Pike, Howard and Clark counties was removed today when six of the operators signed contracts for electric power. The last remaining obstacle to the completion of the line, which operators said would hasten the development of the field, was overA. Salyer, vice president and gen-

Companies that signed were: Sucompanies that signed were: Superior Mercury Mines, Arkansas Quicksilver Mines, Inc., Big Six Mining Company, Southern Mining and Reduction Company, Mercury Mines, Inc., and Wright & Guess. At least six others have indicated they will approve the Shows Big Increase.

Work on a 152-mile rural electric line in Pike, Howard and Clark counties to serve more than 20 cinnabar mines will be stopped at 4 p. m. today unless mine operators sign contracts for electric power by that time, R. E. Bemish of Washington, national defense consultant for the Rural Electrification Administration, and Thomas Fitzhugh, chairman of the state Utilities Commis-Mr. Fitzhugh Sees Warning.

panies, you wouldn't have this line under construction now."

He said the Southwestern Gas and Electric Company refused to build the line because its officials believed the area would not be profitable. The Arkansas Power and Light Company agreed to build the line but proposed to secure a cash contribution of \$40,000 from the mine operators, he said. REA later agreed to lend to the A. P. and L. sufficient funds to construct the line for 25 years at 2 1-4 per cent interest, but the offer was refused, Mr. Fitzhugh said.

Other areas rich in mineral deposits but without electric service would stand less chance of securing power if the line were abandoned. "Not only would it hurt you operators but it would be detrimental to the mineral development of the entire state," he said.

Mr. Fitzhugh said the rate "compares favorably, with the rate offered by private companies to coal of the current price.

Dr. Branner said during the nine, year production in the field was 4,98 flasks which sold for \$393,261.

25 The 1931 production was only 305 flasks, worth \$15,200.

Production this year would exceed 4,000 flacks, based upon the bressent daily output, Dr. Branner said operators who are "finding riches in them tha hills."

Exception 1932 through 1935 total production was only 305 flasks, worth \$15,200.

Production this year would exceed 4,000 flacks, based upon the bressent daily output, Dr. Branner said.

He estimated the total value of the production at \$700,000.

Spurred by an increased demand of the production at \$700,000.

Spurred by an increased demand sa a result of the defense program, operators in the area greatly except and operators who are "finding riches in them tha hills."

Tris area is fer past the specularity of the defense program operators who are state. The said operators who are "finding riches in them tha hills."

The ore containing the bright companies to call the field was 4.

The said the correction plant is the production at

pares favorably with the rate offered by private companies to coal and bauxite mines," adding that it is as low as the co-operative can possibly offer "in view of what it is paying for wholesale power."

Operators Optimistic. George Buchholz, of the Mercury Mines, Inc., urged signing of the contract. He said a \$120,000 government order secured recently by his company "was predicated on this line." He said his company would be forced to spend \$50,000

for equipment to supply adequate

Operators predicted the cinnabar area would be developed into one "of the richest in the world." Mr. Fitzhugh said he had been assured the National Defense Commission "counting on the production in

Continued lack of electric power would seriously cripple develop-ment and would prevent operators from reducing production costs, the operators said. They agreed the energy could be bought from the co-op more cheaply than it could be generated at their own

New 50-Ton Mill Planned

assured through approval of the REA project.

Utilities Department Chairman Fitzhugh said abandonment of the power line project would be a blow to the state. It is the first project of its type ever approved by REA, he explained, and added that failure at this critical stage would not only immeasurably handicap development of the cinnabar area, but would delay exploitation of other mineral resources of the state.

Prior to meeting with the mine operators, Mr. Fitzhugh could not say what caused the situation, "An unfortunate misunderstanding" over a rate factor might be the difficulty, he said but added that "we are going to get to the bottom of it."

That "misunderstanding" came about in making rate revisions to meet mine operators' objections to the rate structure set up when the project was started.

Mr. Fitzhugh also said the department of the commission assured them that the writing of a new contract to clarify the disputed points will be recommended to REA by the state commission.

The contract establishes a demand billing of \$1.50 a month per kilowatt plus energy charges of narkansas mercury production in its plans.

Of the 20 mines operating in the three-county area, it was said that construction and the state Utilities Commission here.

R. J. Bemish of Washington, nastillation and operation of a 50-ton defense consultant for the REA, had said that construction will be stopped unless the contracts were signed by 4 p. m. today. Tonight he said the project will be rushed to completion. Some of the mines may have power available by Saturday morning.

New Contract to Be Asked.

Operators objected to certain features of the commission assured them that the writing of a new contract to clarify the disputed points will be recommended to REA by the state commission.

The contract establishes a demand billing of \$1.50 a month per kilowatt plus energy charges of narrow production in its plans.

Of the 20 mines operating in the three-county area, it was said that construction and the state Utilities Commission here

pany, scheduled for today, was postponed because of the funeral of the mine superintendent, M. J. ("Scotty") Eunson, who was killed in an automobile accident Tuesday night.

Similar to gold veins, the cinnabar night.

Eunson will be chosen soon and that the assistant superintendent tion of Pike county, nearly through that the assistant superintendent tion of Pike county, nearly through the center running west and east, it has proved to be one of the really large and growing industries of the Eunson was one of the organized and global state.

The seven major companies now

Gazette 12-22-40 The value of quicksilver produced

Ore Fissure and Plant

At Left-A fissure in a small mountain near the site of operations

of the National Quicksilver Corporation, from which the peculiar or-ange-colored ore, cinnabar, is taken. Heated in large retorts and then condensed, cinnabar gives up mer-

cury, the quicksilver of the ancients, used in medicine and the commercial arts, and now much in demand by the United States government

for use in its defense program.

More than 13 times heavier than water, it is now selling at about

\$2.50 per pound.

The National Quicksilver Corporation is now building a reduction

plant near the fissure shown.

At right, one of the reduction plants already constructed and in operation by one of several mercury producing firms operating in Pike county.

Cinnabar, That Turns Into Magic Liquid Silver, Helps

To Make Pike County Rich

Democrat 12-29-40

Muffreesboro—The development of the "Cinnabar" area in Pike county for the past three years has been slow but steady until the past six months. Since then, wars abroad, coupled with the United States defense program, has created a strong market at premium prices, and development has increased accordingly.

Seven "major" companies with working stock and capitalization of more than \$100,000 are now operating, most of them on two eighthour shifts. "Cinnabar" has been found over an area about 15 miles in length and one-half mile in width extending from the western edge of Howard county across Pike into the eastern edge of Clark county, near holding company with authorized capital stock of \$100,000. Its holdings lie in the heart of the cinnabar belt.

Death Postpones Caddo Meeting.

A meeting of the Board of Directors of the Caddo Quicksilver Company scheduled for today was Amity.

night.

Jack Pate, official of the company, said that a successor to Mr.

Eunson will be chosen soon and continuing. Situated in the hill secthat the assistant superintendent

The seven major companies now operating are:
Caddo Quicksilver Company,
Cottrell reduction plant, with a
Gould condensing system; Mr. Pate,
organizer and manager.
Mid-Continent, with a Hershoff
retort; Frank Pigg, manager.
Superior Mines, Inc.; Gould reduction plant recently installed; V. B.
Lewis, owner and operator.

Arkansas Quicksilver Mines; Gould reduction plant, R. B. McEl-waine and Leo Yountz, owners and

operators.
Hales Mining and Development
Company; Cottrell reduction plant
recently installed; Mr. Hale, owner,
and Mr. Crockett, manager.
National Quicksilver Corporation.
Chas. A. Salyer, organizer and
manager; now installing a huge 50ton Gould reduction plant.
Pusides these major companies

handicap. The mine owners and operators have had to build their own roads. State and federal agencies have made no step toward building up a system of roads to adequately and safely provide for transportation.

Power has been some handicap in the operation of the reduction plants. Most of the mills are using Diesel power but this situation will be changed the first of January, when the power lines recently constructed under the Rural Electrification. Administration at a cost of

nabar belt is practically complete, mabar belt is practically complete, gin using place.

E. Weddig, general manager of the Killoren Electric Company, contractor, reported today. Mr. Wedtractor, reported today. Mr. Wedtractor, reported today. dig said the only thing now standing between the mine operators and electricity is lack of power which will be furnished under contract by the Arkansas Power and Light Company to the REA Codig said the only thing now standoperative Association which will resell it to the mine operators. The power company has not connected with the Co-op's line, which meets the power company's line at Antoine on the Clark county line. Construction of several miles of additional line to serve rural sub-scribers is scheduled to start next

Power Line To Cinnabar Mines Begun

Antoine, Pike county, to supply Entertainment Committee was no power for the cinnabar mines of tified vesterday by the governor

tract with the Southwestern Rural the program. Electric Co-Operative Corporation, which will distribute the power had been approved, we were ready he said. "We had materials on hand and men ready for the job." Power Declared Adequate.

Declaring that the company's ability to construct the line and supply power is additional proof that no power shortage exists or is in prospect for his company's territory, Mr. Lynch said. "Our contract for power with the Southwest Electric Co-Operative calls for a maximum of more than 17 million kilowatt hours per year. We

were able to meet this demand without even slightly disturbing our system. The line to convey this power will represent an in-vestment of nearly \$30,000. "Because of our flexible opera-

tions, due to interconnection, we are prepared to meet any demand from normal growth or from the defense program."

The Southwest Electric Co-Operative also will provide power for

Cinnabar Field Line Energized

Special to the Gazette. 2-19-41 Murfreesboro, Feb. 18.—Electricity was turned on at the Arkansas Quicksilver Mines, Inc., plant 13 miles northwest of Murfreesboro at miles northwest of Murfreesboro at 5 p. m. today, marking the first use of REA power in Southwest Arkansas's great cinnabar field.

The new lines was energized yesterday when the A. P. & L. connected its line with the REA line at Antoine, Pike county.

Tunnels at the Arkansas Quick-giver Mines Ing will be electrified.

when the power lines recently constructed under the Rural Electrification Administration at a cost of \$250,000, are energized.

Reasonably cheap power will serve the entire area. The water supply is plentiful, and the activity in this area, nine miles north of here has been one of the biggest factors in the steady growth of Murfreesboro, supplying the supplying the steady growth of Murfreesboro, supplying the supply

area, nine miles north of here has been one of the biggest factors in the steady growth of Murfreesboro, county seat of Pike county.

The future is hard to predict, but research engineers have estimated that the supply of cinnabar will not be exhausted within the next 400 years. The United States government has contracted with one of the larger companies for \$120,000 worth of mercury. Many and varied are the uses of mercury.

Contrary to the course of events in most new fields, there never has been any great amount of speculation here. Men with capital, after thorough investigation, entered the field, invested and worked and are now reaping some of the rewards of their faith and labor.

Power Line to Cinnabar Field

Nears Completion.

Special to the Gazette T-4-41

Murfreesboro, Jan. 3.—Construction of the REA line into the oinnabar belt is practically complete, E. Weddig, general manager of the

gin using power so Governor to Visit

that Governor Adkins had accepted an invitation to visit Pike county early in April to inspect the cinnabar mining district and the diamond mines. He has been requested to include in his road-building program the paving of a nine-mile gap on Highway 27, the direct route into the cinnabar belt from Murfreesboro and which mine operafreesboro and which mine opera-tors say is handicapping the development of the mining district.
After inspection of the mines the
governor will be guest of honor at
a fish fry, sponsored by the Boost-

Governor Will Inspect Mining Area Near Murfreesboro.

Special to the Gazette 4-18-41 Murfreesboro, April 15.—Plans were completed today for the entertainment of Governor Adkins and his party during their visit here Saturday when the governor Special to the Gazette.

Pine Bluff, Jan. 16.—Construction of a 33,000-volt transmission and diamond mines as guest of the Murfreesboro Booster Club. The tified vesterday by the governor southwest Arkansas, was started that he expected to arrive in Mursouthwest Arkansas, was started to to arrive in started today by a crew supervised by William Cole, C. S. Lynch, executive vice president of the Arkansas Power and Light Company, announced.

The will be with the club until 2 p. m. The entertainment will include a trip through the ministrator and a luncheon at 1 p. m. Floyd Sharp, and the will be with the club until 2 p. m. The entertainment will include a trip through the ministrator also has "Within a few hours after we state WPA administrator, also has received notice that the power con- accepted an invitation to attend



Tour Route Leads to Scene

Governor Adkins lived the life of a cinnabar miner briefly yesterday when he inspected the huge Southwest Arkansas field. He is shown here as a workman instructs him in the use of machinery at

development of south Arkansas's cinnabar belt, which some mining experts already describe as the richest in the world, Governor Adkins told 100 members and guests of kins tol the Murfreesboro Boosters Club today that their plea for a better road to the ore field will not go unan-

the Superior Mercury Mines Co.

GOVERNOR SEES

BUSY ARKANSAS

BUSY ARKANSAS

CINNABAR FIELD

CONNABAR FIELD

CINNABAR FIELD

CINNABAR FIELD

CINNABAR FIELD

C the Superior Mercury Mines Co. mill. V. B. Lewis, owner of the company (right) looks on.

"Today has given me a new vision," Governor Adkins said in opening his address. He said that his administration will continue to fight for lower freight rates and

45 .

Governor Studies State's Newest Industry



Governor Adkins went to the cinnabar field of Pike County yesterday to learn first hand something of the fledgling industry which will soon be bringing \$1,000,000 a year to the state. He is shown above inspecting raw ore at the shaft of the Superior mine, 14 miles north of Murfreesboro. V. E. Lewis, head of the Superior mine and president of the Murfreesboro Booster Club which sponsored the governor's tour, is at the left, and Ezra Ballard, a miner, is at the right. The governor also visited the Arkansas Quicksilver Co. mine, owned by Lee Younts and Robert Mackelwain.

The European supply of mercury, controlled by Italy and Spain, has been earmarked for the Axis powers, he declared, leaving the United States to supply "the democracies."

The first two have been accomplished but the third we still lack," he asserted, listing the immediate power supply, workmen's compensation and good roads to serve the area.

"The first two have been accomplished but the third we still lack," he said in urging the immediate paving of an eight-mile stretch of State Highway 21, the only road to the mine fields,

"United States production at present is only one-third of the domestic demand. If the price remains at \$100 a flask, which makes it profitable to mine the lower grade or ree, we can increase many times the present production in Arkansas," and Reduction Company's 30-ton of the said.

Mr. Salyer added that 300 men of the mineral helt.

Cinnabar Mine Industry Asks

The number and guests of the town of the control of

Fortunes Lie in State's 22 Miles of Quicksilver

Ore Says Capitalist

Democras—Untold possibilities await industrialists investing in mine equipment along the 22-mile-long quicksilver deposit which runs from Howard County, through Pike to Clark County, according to Charles A. Salyer, vice president of the National Quicksilver Corporation of Murfreesboro.

Salyer, who came here to address a civic club, declared that the government surveys show that the quicksilver deposit in that section is 22 miles long and from one-half miles. However, despite the fact that the deposit has shown great possibilities, with some 14 pounds of mercury being obtained from each ton of ore, only 18 operators, large and small, are now engaged in active mining for the much-sought defense material. Of these operators, only eight are of any size, Salyer declared. Between 500 and 1,000 men are now employed in the mines in that section.

"With the price of mercury now running at about \$2.50 a pound, extended to the commercial that deposit is the largest undeveloped quicksilver field in the United States.

There are three tunnels several hundred feet back in Chalybeate

Cinnabar Reported.

Special to the Gazette 1-31-42

Arkadelphia, Jan. 30.—What its discoverers believe is the richest vein of cinnabar ore found in the Chalybeate mountain range near here has been located in new workings of the Humphreys Gold Corporation on International Paper Company land five miles southeast of Amity in Clark county. The site is 25 miles northwest of Arkadelphia.

several shafts and tunnels have been dug into Jack mountain at an elevation of about 500 feet: The Humphreys company is developing a large acreage. An 80-ton mill has been bought for installation at the mine, where several hundred tons of ore await refining. Mr. Walker said the ore assayed far above the average. Mercury (or quicksilver) now is selling for about \$200 a flask of 76 pounds, more than 100 per cent above prewar prices.

There are 90 men on the pay roll, 25 of whom are engaged in clearing

There are 90 men on the pay roll, 25 of whom are engaged in clearing for the new processing plant. A. E. and I. B. Humphreys are the owners. The mine and the plant will be operated with electric power furnished by an REA line. The company has head offices in Denver and in addition to operations in Colorado, dredges for gold in California it has other mining properties in Arizona.

The official said here yesterday. The official, who asked not to be quoted by name, said R. E. Vandruff had built a laboratory retort at Glenwood which would increase the ore yield of mercury from 75

Price Ceiling On Mercury Established

Gazette 2-5-42

Washington, Feb. 4 (A).—The Office of Price Administration fixed maximum prices today on mercury at levels lower than the prevailing

Machinery For Mercury Plant Arrives

Amity, Feb. 7.—The Humphrey Gold Corporation of Denver, engaged in quicksilver mining on lands five miles south of Amity, received two carloads of reduction plant machinery yesterday and will half the special plant machinery yesterday and will special to the Gazette. 2-8-42 retort. Arkansas Quicksilver Corp. is concentrating on their Parnell Hill property. The initial work as planned calls for a new 200-foot shaft and a 600 to 700-foot drift to pick up known ore bodies, and a small crew is working on Parker Hill in an effort to develop new ore bodies. begin immediately installation of two recovery plants, each with a daily capacity of approximately 80 tons. Rich veins of cinnabar ore have been discovered which give

There are three tunnels several hundred feet back in Chalybeate mountain from which the firm mining ore, storing it until re-covery plants are installed. Col. A. E. Humphreys of Den-

is 25 miles northwest of Arkadelphia.

O. M. Walker of the company office, who lives in Arkadelphia, said
several shafts and tunnels have
been dug into Jack menuscip at an

druff had built a laboratory retort at Glenwood which would increase the ore yield of mercury from 75 through 90 per cent to 99 per cent and would reduce the cost of the process by half.

A larger test plant is now under construction there and will be inspected by WPB officials when completed soon he said

completed soon, he said.

Steadman Williams, a mining engineer here, said Vandruff's method was "at least 50 years in advance of anything that has ever been at-

market.

The ceiling, effective at once, sets maximum base prices for prime virgin mercury produced in California, Oregon, Washington, Idaho, Utah, Nevada and Arizona at \$191 a 76-pound flask at point of shipment, and \$193 for mercury produced in Texas and Arkansas.

The maximums approximate prices prevailing on mercury between October 1 and October 15, and the reconstruction and enlargement of the bins at the plant and portals are being pushed to completion.

Machinery

Activity Pushed

Democrat 4-15-43
Amity-Activities at the climabar mines in this area are still being pushed by several mining interests. The Ozark Quicksilver Corporation is continuing its underground explorations after cutting through several veins of good cinnabar ore. The reduction plant is being made ready and the reconstruction and enlargement of the bins at the plant and portals are being pushed to completion.

The Wall Mountain Mercury Cor-The Wall Mountain Mercury Corporation has completed its new road construction and in co-operation with Antimony, Ltd., is rebuilding the old which jointly serves both properties. Wall Mountain Mercury has completed the shops and other utility buildings and will start the erection of their 35-ton plant in a few days. Antimony, Ltd., is sinking shaft No. 1 after rebuilding the head frame and is erecting a test retort.

surveyed the workings of the Humphrey Gold Corp. properties. The report of these surveyors will be released in a short time.