TINSLEY FIELD 1939 - 1974
A COMMEMORATIVE BULLETIN

William H. Moore

BULLETIN 119

Mississippi Geological, Economic and
Topographical Survey

William Halsell Moore
Director and State Geologist

Jackson, Mississippi
1974
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STATE OF MISSISSIPPI

Hon. William Lowe Waller. Governor

MISSISSIPPI GEOLOGICAL, ECONOMIC AND
TOPOGRAPHICAL SURVEY

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LETTER OF TRANSMITTAL

Office of the Mississippi Geological, Economic and
Topographical Survey
Jackson, Mississippi

June 27, 1974

Mr. Gordon W. Gulmon, Chairman, and
Members of the Board
Mississippi Geological, Economic and Topographical Survey

Gentlemen:


The discovery and development of the largest oil field in the southeastern States is an exciting part of Mississippi's history. The fact that this giant field was discovered through the application of basic geology, in an investigation not necessarily slated toward oil and gas exploration, is a tribute not only to the geologist making the discovery but to all geologists engaged in similar undertakings.

Respectfully,

William H. Moore
Director and State Geologist

WHM:js
CONTENTS

Page

Introduction ................................................. 8
Newspaper History ........................................... 14
Later Development ............................................. 47
Impact on Yazoo County ...................................... 51
Epilogue ......................................................... 55
Acknowledgments ............................................... 55

ILLUSTRATIONS

1. Anomalous outcrop of Moodys Branch on Perry Creek ................................................. 8
2. Union Producing No. 1 G.C. Woodruff Discovery Well on Tinsley Field ......................... 11
3. Location Map of Tinsley Field ................................................. 13
4. Production from Tinsley Field ................................................. 48
5. Pennzoil United Water Flood Equipment for secondary recovery .................................. 50

PLATES
(Courtesy Pennzoil United)

1. Surface configuration of Tinsley Field and structural contours on base of Woodruff Sand . Pocket
2. Electrical Log of Cretaceous Sands. ............... Pocket
3. Cross section of portion of Tinsley Field. ........ Pocket
This commemorative bulletin is dedicated to Frederic Francis Mellen. Mr. Mellen was born at Mississippi State University, then Mississippi A & M, on August 21, 1911. He was educated in the Public schools of Starkville, Mississippi, holds a BS Degree from Mississippi State University and a Master's Degree from the University of Mississippi. Mr. Mellen served on the staff of the Mississippi Geological Survey as a geologist and Assistant State Geologist. From the period of 1962-1965, he served as the State Geologist of Mississippi. His work career encompassed work with the Tennessee
Valley Authority, British American Petroleum and many years as a consulting geologist. He is presently a consulting geologist in Jackson, Mississippi. Although Mr. Mellen is best known for his discovery which led to the establishment of the Tinsley Oil Field, his geological work also led to the establishment of the Mississippi Valley Portland Cement Company in Warren County, the development of an agricultural lime plant at Cedar Bluff in Clay County, and the Miss-Lite Lightweight Aggregate Plant at Cynthia in Hinds County. He also was a leader in the exploration of the Warrior Basin area in northeastern Mississippi. Although Mr. Mellen has received many honors and much recognition of his geological work, we think that on the 35th anniversary of the Tinsley discovery other recognition should be made. Almost daily we see persons of mediocre talents held up as leaders and their accomplishments extolled far beyond their worth. In the day of the ordinary man it seems fitting to pay tribute to an extraordinary man.
RESOLUTION

Board of
Mississippi Geological, Economic and Topographical Survey

WHEREAS the mineral production in Mississippi in
1972 totaled approximately $261 million, and

WHEREAS mineral fuels production was valued at
approximately $266.7 million, and

WHEREAS mineral fuels accounted for approxi-
mately 85 percent of the mineral value of the State, and

WHEREAS Mississippi ranked ninth in the Nation
in production of petroleum (crude) and eleventh in the
Nation as a producer of natural gas, and

WHEREAS the month of August 1974 is the 35th
anniversary of the discovery of the first and largest oil
field in Mississippi,

Therefore be it Resolved that the Board of the
Mississippi Geological Survey recognize publicly the work
by Mr. Frederic F. Mellen which ultimately led to the
drilling of the discovery well in the Tinsley Oil Field, and

Be it further Resolved that this resolution be a part
of the Tinsley Field commemorative bulletin to be pub-
lished by the Mississippi Geological Survey as Bulletin 119.

Gordon W. Gulmon, Chairman
James G. Hawkins, Vice Chairman
Robert L. Abney
O. B. Curtis
Troy J. Laswell
Introduction

At the end of 1938, Mississippi ranked 41 in mineral production among the 48 States and the mineral production for that year amounted to only $5,200,000. In 1938 a chain of events began in the hills of Yazoo County that would change Mississippi’s mineral economics forever. The Mississippi Geological Survey, working in cooperation with the Works Progress Administration, undertook a geological survey of ten Mississippi counties. Dr. William Clifford Morse, Director of the Mississippi Geological Survey, assigned Assistant State Geologist Frederic Francis Mellen to supervise the surveys of several of these counties. Mellen and his workers surveyed Yazoo County with the idea in mind of finding good ceramic clays. In the course of this investigation Mellen found several indications of geologic structure. In February 1939, while observing outcrops along Perry Creek near Tinsley, a small exposure of Moodys Branch marl was discovered at an elevation of 250 feet above its normal position (Figure 1). Mellen reported this discovery to Dr. Morse, along with reports of other structures.

Figure 1 - Anomalous outcrop of Moodys Branch on Perry Creek. (Photo by W.C. Morse)
Dr. Morse decided that the Tinsley structure was of enough import that a press release should be formulated and issued, and on April 12, 1939, the following release appeared in newspapers in Mississippi and others in the South:

MISSISSIPPI GEOLOGICAL SURVEY
University, Mississippi
Memorandum for the Press
The Tinsley Dome

IMMEDIATE RELEASE
APRIL 12, 1939

A structural “High” in Yazoo County has been discovered by Frederic F. Mellen, supervising geologist of the W.P.A.-Mississippi State Geological Survey, in the minerals survey of the county, in which the Yazoo County Chamber of Commerce and Board of Supervisors are acting co-sponsor.

The first indication of the structure was noted in October, 1938, when a thin bed of bentonite in the Yazoo clay member of the Jackson formation, a bed believed to be a reliable stratigraphic marker, was determined to lie at 250 feet above sea level six miles southeast of Yazoo City (Center of Sec. 26, T.11 N., R.2 W.); at 225 feet 2-1/2 miles farther south (SW. 1/4, Sec. 2, T.10 N., R.2 W.); at 220 feet 9-1/2 miles southwest of the latter place (SE. 1/4, NE. 1/4, Sec. 32, T.10 N., R.3 W.); and at elevations of normal southwest dip at points farther south. Approximately the same elevation of the bentonite bed at two places 9-1/2 miles along the dip is the significant fact.

In checking his Yazoo County stratigraphy in February, 1939, Mr. Mellen discovered 12 feet of the Moodys Branch marl member of the Jackson formation on Perry Creek, a mile southwest of Tinsley (SW. Cor. NW. 1/4, Sec. 13, T.10 N., R.3W.), in an area where normally only younger Yazoo clays should have been exposed. Test hole C-60
revealed the base of the Moodys Branch marl 6 feet below water level; and 26 feet of the underlying silty, lignitic, pyritiferous, argillaceous beds of the Yegua. At this point the base of the Moodys Branch marl is 150 feet above sea level; in test C-34 in Yazoo City, ten miles northeast, it is 15 feet above sea level; in a small stream 1-1/2 miles south of Eden and about nine miles northeast of Yazoo City, it is 160 feet above sea level. The inlier of the Moodys Branch marl on Perry Creek at an elevation of 150 feet above sea level shows, therefore, the Tinsley structure to have a northward contour closure of at least 135 feet—a structure so favorable for oil and gas accumulation as to warrant further geologic study and seismographic exploration.

Although the existence of the Tinsley structure in a thickly loess-covered area is based largely on the evidence of a single outcrop of the Moodys Branch marl on Perry Creek, the structure of the higher bentonite bed tends to corroborate its presence; although all elevations are barometrically determined and are, consequently, not precise, and although the area was leased, seismologically surveyed, and surrendered, some ten years ago, nevertheless, the Tinsley structure should be further explored, especially with a seismograph, to determine whether or not the subsurface structure is sufficiently pronounced to warrant a commercial test well, and especially should it be further explored for the reason that it lies less than 35 miles northwest of the Jackson Gas Field.

Because of the great expense involved in oil and gas exploration and especially in deep drilling tests, this press notice is being released by William C. Morse, State Geologist, who spent a few days in the field, and by Frederic F. Mellen, the discoverer, only on the condition that this article be accepted in its entirety.

After the press release almost immediate leasing activity took place centered around the Tinsley structure. Union Producing Company (United Gas, now Pennzoil United) had been interested in Mississippi for some time
and had concentrated some of its exploratory efforts in western Mississippi. After the release, Union Producing was active with its geophysical crews and soon assembled a lease block near Tinsley. Drilling of the first well on this structure began on July 18, 1939, and on August 29, 1939, a successful drill stem test at the Union Producing No. 1 G. C. Woodruff indicated a significant oil discovery (Figure 2). Prior to this discovery there had been natural gas production in Mississippi from two small fields, this production amounting to some $3,200,000 in 1938. Now the boom was on!

Figure 2 - Union Producing No. 1 G. C. Woodruff. Discovery well on Tinsley Field. (Frank Noone photo)
Many oil companies, independent geologists and lease brokers rushed into Mississippi. Jackson and Yazoo City became centers of the activity. Other wells were rapidly drilled in the Tinsley Field, and by the end of the year only one dry hole had been drilled in the growing Field (Figure 3). The significance of Tinsley Field, its production data and other details will be discussed in later pages, but at this time we will turn to actual news releases from the Yazoo City newspaper and other papers throughout Mississippi and the south to chronicle the events of the months after the press releases. The news clippings are from the files of the Mississippi Geological Survey and the personal files of Frederic F. Mellen. They make up a fascinating and exciting story of the birth of a giant oil field.
LOCATION MAP OF TINSLEY FIELD

FIGURE 3
Union Producing Company
Began Active Drilling For Oil
At Tinsley Dome This Week

Thorough Survey Of Oil Possibilities Made Before Company Began Drilling Operations

The Union Producing Company, began active drilling operations this week at the Tinsley Dome in the hope of striking oil in the entrenchment. The drilling operations are being carried on the property of C.C. Woodruff near the well known as Woodruff No. 1.

Just what these operations meant to Yazoo City and Yazoo County can best be attested by citizens residing in the neighborhood of Tinsley, where several thousands of dollars have been paid to landowners for leases on mineral rights. One woman in that section received $2,200 for her mineral rights.

The Union Producing Company made a thorough survey of the possibilities of oil or gas in that section before moving in its derrick and drilling rig from Monroe, La. The discovery of oil or gas in this section would revolutionize economic conditions in the lower Delta.

The Tinsley Dome was discovered in April of this year by the WPA clay and minerals survey project under the supervision of M.F. Mellen, who had charge of the Yazoo County survey for the Mississippi Geologic Survey.

The character of the clays in this county will be shown, and an estimate given of the quantity of valuable clays to be found in this section. The survey of oil or gas in this section would revolutionize economic conditions in the lower Delta.

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TINSLEY FIELD

YAZOO OIL TEST SEEN PRODUCER

United Gas Subsidiary Owns Leases Mile and Half In All Directions

AT YAZOO OIL Co., Yazoo City, Aug 28—Mississippi oilfield experienced a new hole here, commenced earlier this summer, that has the makings of a producer. Oil is showing in the holes and the well is scheduled for test this week.

John W. J. Oxley, president of the United Publishing Company, said it was one of the biggest discoveries in the Yazoo oil field. The well is located in the Tinsley community some miles from the well. The Union Production Company is a subsidiary of the United Gas. Local residents wondered how the discovery of the black stuff would affect their community. Mr. Woodruff, who runs a thriving business in Yazoo City, showed it to the Clarion-Ledger office when H. M. Morse, a gas supervisor, brought back a specimen. He said it was a most exciting time for his customers. He showed it to Mr. Woodruff's friends and everyone was thrilled. Mr. Woodruff is a farmer-planter at Yazoo City and is a Missouri licensed oilman. Mrs. Woodruff, his wife, is a member of the Clarion-Ledger office and is a Mississippi resident. She is a member of the woodruff family. Mrs. Woodruff, the owner of the Woodruff Churn Store Number 2, said the well was an exciting discovery for her customers. Mr. Woodruff is a farmer-planter in Yazoo City and is a Missouri licensed oilman. He said the discovery of the black stuff would affect his business. He showed it to his customers and everyone was thrilled. Mrs. Woodruff, the owner of the Woodruff Churn Store Number 2, said the discovery of the black stuff would affect her business. She showed it to her customers and everyone was thrilled. Mrs. Woodruff, the owner of the Woodruff Churn Store Number 2, said the discovery of the black stuff would affect her business. She showed it to her customers and everyone was thrilled. Mrs. Woodruff, the owner of the Woodruff Churn Store Number 2, said the discovery of the black stuff would affect her business. She showed it to her customers and everyone was thrilled. Mrs. Woodruff, the owner of the Woodruff Churn Store Number 2, said the discovery of the black stuff would affect her business. She showed it to her customers and everyone was thrilled. Mrs. Woodruff, the owner of the Woodruff Churn Store Number 2, said the discovery of the black stuff would affect her business. She showed it to her customers and everyone was thrilled. Mrs. Woodruff, the owner of the Woodruff Churn Store Number 2, said the discovery of the black stuff would affect her business. She showed it to her customers and everyone was thrilled. Mrs. Woodruff, the owner of the Woodruff Churn Store Number 2, said the discovery of the black stuff would affect her business. She showed it to her customers and everyone was thrilled. Mrs. Woodruff, the owner of the Woodruff Churn Store Number 2, said the discovery of the black stuff would affect her business. She showed it to her customers and everyone was thrilled. Mrs. Woodruff, the owner of the Woodruff Churn Store Number 2, said the discovery of the black stuff would affect her business. She showed it to her customers and everyone was thrilled. Mrs. Woodruff, the owner of the Woodruff Churn Store Number 2, said the discovery of the black stuff would affect her business. She showed it to her customers and everyone was thrilled. Mrs. Woodruff, the owner of the Woodruff Churn Store Number 2, said the discovery of the black stuff would affect her business. She showed it to her customers and everyone was thrilled. Mrs. Woodruff, the owner of the Woodruff Churn Store Number 2, said the discovery of the black stuff would affect her business. She showed it to her customers and everyone was thrilled. Mrs. Woodruff, the owner of the Woodruff Churn Store Number 2, said the discovery of the black stuff would affect her business. She showed it to her customers and everyone was thrilled. Mrs. Woodruff, the owner of the Woodruff Churn Store Number 2, said the discovery of the black stuff would affect her business. She showed it to her customers and everyone was thrilled. Mrs. Woodruff, the owner of the Woodruff Churn Store Number 2, said the discovery of the black stuff would affect her business. She showed it to her customers and everyone was thrilled. Mrs. Woodruff, the owner of the Woodruff Churn Store Number 2, said the discovery of the black stuff would affect her business. She showed it to her customers and everyone was thrilled. Mrs. Woodruff, the owner of the Woodruff Churn Store Number 2, said the discovery of the black stuff would affect her business. She showed it to her customers and everyone was thrilled. Mrs. Woodruff, the owner of the Woodruff Churn Store Number 2, said the discovery of the black stuff would affect her business. She showed it to her customers and everyone was thrilled. Mrs. Woodruff, the owner of the Woodruff Churn Store Number 2, said the discovery of the black stuff would a...
Casing Expected At Satartia Oil Well Early This Afternoon

Casing was expected to be set early this afternoon for the Union Producing Company's Woodruff, No. 1 oil well near Satartia, which was brought in with oil yesterday to a depth slightly lower than the high gasoline-coneditary oil of Louisiana and Texas.

The oil was discovered, Mr. Quigles, general superintendent of the company, said today, after a drill stem test, that the well would produce oil in commercial amounts and went on to predict that the well would be in commercial production in a very short time.

Mellon, owner of the land, said the well would produce oil in commercial amounts and went on to predict that the well would be in commercial production in a very short time.

Woodruff Family Man

The owner of the property where the well is located, and slightly less than 800 acres in that particular area, expressed a degree of confidence in the future of the Woodruff well.

The Woodruff well, which is 3 miles south of here and sits on the big Woodruff rig, is expected to be in commercial production in a very short time.

Yesterday, Mr. Quigles was on the scene of the Woodruff well yesterday. He smiled at the jibes about his sudden good fortune, then went on to explain that the well would produce oil in commercial amounts and went on to predict that the well would be in commercial production in a very short time.

The Woodruff well is the third well owned by Mr. Quigles, who operates a large farm near Satartia.

Oklahoma Prospects Good

The Oklahoma Prospects are good for a new era of development, according to Mr. Quigles, who was on the scene of the Woodruff well yesterday.

The Oklahoma Prospects are good for a new era of development, according to Mr. Quigles, who was on the scene of the Woodruff well yesterday.

 Asked for a comment regarding the Oklahoma Prospects, Mr. Quigles remarked that the well was expected to be in commercial production in a very short time.

The Oklahoma Prospects are good for a new era of development, according to Mr. Quigles, who was on the scene of the Woodruff well yesterday.
Yazoo Countians Anxiously Wait As Oil Drama Nears Climax

A battery of steam boilers powers the drilling for oil near Yazoo City, where "black gold" fever is reaching high pitch. A derrick is shown behind the boilers on the farm of G. C. Woodruff, country storekeeper.

A drilling crew sets a "Christmas tree" (drilling apparatus) in place. It will be負け on testing in the new well for actual determination of the oil supply, estimated roughly yesterday at several thousand gallons daily when the well is brought in.

On the derrick floor a drilling crew tightens the collar or casing. Left to right: S. G. McVaulon, driller; L. Gilmore, A. L. Moore, J. B. Moody and W. L. Green.

Storage tanks stand ready to hold the oil if it is found according to expectations when a 30-foot concrete plug in the well is pierced tomorrow night or Tuesday morning.

Helen Leslie Johnson, sister-daughter of Mr. Woodruff, left, and her friend, Clay Martin, dipped their fingers in the oily jack trouten from a test hole.

And here is the impersonally Mr. Woodruff himself, who may be just go ahead marking in his little store—like building in the "town" of Tinsley—once if he gets rich.
Two New Wells To Be Drilled North And South Of Woodruff No. 1, First State Producing Oil Well

John. P. Younger, district manager of the United Gas & Pipeline Company, railroad organization of the Union Producing Company, discoverers of Mississippi's first oil well produced in commercial quantities, has announced that his company is planning to put down two additional wells in the Tuscaloosa section, starting work at once.

It is thought that one well will be drilled in the Tuscaloosa section, about a mile south of the Woodruff No. 1, and another will be put down to the south of Woodruff No. 1.

The pressure in the Woodruff No. 1 well is reported to be increasing steadily, and although apparent, the well is slightly increasing its production. Wednesday the gauge showed an approximate 30 barrels of oil per day through a quarter-inch choke.

It will be about 36 days before the new well is completed, and then arrangements will be made for storage facilities for the normal flow of oil from the well, and in the mean time the crude oil will be bottled and sold on the near by refineries.

In his recent state地质家, Mr. Younger stated that no drilling permits have been issued through Thursday, but it is said that the Southern Natural Gas Company, which has 1200 acres in the Tuscaloosa section, is contemplating drilling at an early date.

It is expected that the work of developing the Tuscarawas Dome oil field, so as to bring it into commercial production on a large scale, will go ahead at once, as that is practically the only "free" territory in the United States, with few state laws regulating drilling or production.

Leasing activities and the purchase of royalties and mineral rights have been going on at a feverish pace, though the excitement caused by the discovery of oil near Tuscaloosa and the attendant rush of those interested in speculation in the field has almost died down.

Mayor Sees Metropolis Here In Near Future On Heels Of Oil Discovery

Mayor Walter Scott yesterday said the City of Jackson is formulating plans to provide facilities for a rapidly growing municipality.

The mayor said city engineers had already been working on plans for a new Jack-Dell bus service, and several other projects have been put on hold until the city can afford to proceed.

The mayor added that it is expected that the work of developing the Tuscaloosa Dome oil field will go ahead at once, as that is practically the only "free" territory in the United States, with few state laws regulating drilling or production.

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Producible area of the order named will be 100,000,000 barrels, according to the following: The Federal government, in Grant a. nee, recently confirmed as untapped, must be reserved.

City must be torn down and another public school in the built at the end of the next school term. Several other schools will have to be enlarged.

Due to the increased traffic, thoroughfares east and west and north and south must be at once improved to relieve the congested areas.

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YAZOO OIL IS SHARING LIMELIGHT

Cotton Combines With New "Black Gold" To Spur "Boom"

By JAMES B. Gibson

YAZOO CITY, Sept. 12 — This little delta-hill city, nestling in the giant elbow of the muddy Yazoo River, finds today between the big "Booms" — one resulting from the discovery of oil and the other from the rising price of cotton and ginned

Its people appear undecided which boom to follow — the "black gold" which is flowing from the poor hills, or the "white gold" which is being hauled by wagons and trucks out of the rich flat lands.

Both booms are contributing their share to the acceleration of business in Yazoo City and few of the natives are seen these days with frowns upon their faces.

Perhaps, the oil boom, which has followed in the wake of the discovery of the magic liquid of wealth on the Woodruff farm, about 12 miles southwest of Yazoo City, two weeks ago holds the major share of attention at present.

This is due to the fact that Yazoo has never had an oil boom before, while cotton booms have become routine affairs in the life of the town.

But while the people everywhere — in town and in the country — talk incessantly of the oil strike and its possibilities, they keep their hands busy picking and ginning the excellent cotton crop which, man's labor and nature's magic has produced.

War Helps Market

And with a war going on in Europe, the market news is getting to be about as exciting as the war news and the oil news from down around Tinsley.

A boom town, Yazoo City is very little different from any other town that happens to be close to the spot where oil is first discovered.

The air is thick with stories of fabulous business transactions and oil millionaires and the chances of any of the "oil fields" being discovered over the past few days.

But in town there is a lot of oil "drilling," leasing, gambling, and planning. You can ask any five men — or women — who meet on the crowded streets and get five separate and distinct answers.

To that respect, the Yazoo boom is running true to the form followed by the booms of other years. There is lacking most of the color which attended the great event in El Dorado eighteen years ago, the Burkburnett development, or the East Texas discoveries some thirty odd years in the past.

True, they talk in low tones, but they eat in the town's restaurants and they sleep in regular beds, either in the hotel or in rooming houses and in private homes. So far there have been no sleepers snoring in the streets, on the signs of public buildings, or in the hotel lobby and you can't sell a cot as quickly as you can dispose of a lease on that "back forty" acres of the old homestead — provided the old homestead happens to be in the vicinity of section 13, township 10, range 3.

They All Sell Maps

Now and then you can see a man — usually one of the army of geologists here for the big show — walking around with knee-high leather boots and khaki trousers and skirt, but most of the "operators" and hangers-on wear ordinary seersucker and linen cloth, plus straw hats of varying types and models.

Almost every business house in town, it seems, is selling maps and "oil forms." Of course, everybody knows what a map is but there may be a few uninformed who can't figure out an "oil form." Well, it is simply a standard form of lease contract, all ready to be filled out and signed before a notary by the parties of the first and second parts and recorded in the office of the chancery clerk.

There is a lull in the oil boom right now and the oil men are taking advantage of the letup to get their cotton out of the fields and to the gins.
YAZOO CITY, MISSISSIPPI
TUESDAY, SEPTEMBER 12, 1939

812 Barrels of Oil Production of Well in Twelve Hours

Showing Considered Excellent by Oil Men As Test Run Was Made
By Officials Monday

Reports here late yesterday indicated that the Woodruff No. 1 well of the Union Producing Co., located on the G. C. Woodruff place near Tinsley, produced at the rate of 812 barrels of oil in twelve hours, in a test run made by officials of the company Monday.

This showing is considered excellent by oil men who are familiar with conditions in a new field, and they say it points to quick development of this area in oil production.

Actual drilling of the Stevens No. 1 well, about three-quarters of a mile north of the Woodruff well, started last night, while Perry No. 1 well, a short distance south of the first discovery, is expected to start very soon. Part of the crude oil coming out of the discovery well will be used for fuel for the engines that will drill the two new wells.

Fred Enslow, Jackson derrick contractor, is in charge of erecting derricks for the Union Producing Co.

Arrangements have been made through J. J. Whelan of the Y. & M. V. R. railroad to ship the crude oil recovered in the Yazoo County field, and he also expects to conclude a deal for spur track facilities with three supply houses who had made applications for sites here.
A group of distinguished Mississippians visited the Woodruff No. 1 oil well near Tinsley last Wednesday afternoon, and made an inspection tour of the roads serving that area. From left to right they were: George Godwin of Jackson, president of Dixie Advertisers, Inc.; Sidney T. Roebuck of Jackson and Newton, highway commissioner of the Middle District; K. J. Ferris, president of the Yazoo County Chamber of Commerce; and C. W. F. Harper, district engineer, with the Mississippi State Highway Department.
Regulations Governing The Tinsley Oil Field Adopted By State Oil and Gas Board

Only One Well May Be Drilled In Each 40 Acre Block Under The Decree Issued Monday

Jackson, Miss.—Regulations governing drilling of oil and gas wells in the newly-discovered and defined Tinsley Field in Yazoo County, include a restriction of one well on each acre block, were issued Monday by the State Oil and Gas Board.

The proven area was described as 34 miles east and west and five miles north and south of Woodruff Discovery Well in the center of the field. Regulations will apply only in this prescribed area and will remain in effect until further developments change the boundary. The board also set up safety regulations. No proration order was issued.

The only objection raised was in relation to limiting the number of wells, which was withdrawn by Lewis Peyton, Jackson attorney representing independent companies when it was shown that major oil companies have most of the holdings in proven territory described by the board.

Tip Ray, Canton attorney, representing the Union Producing Co., owners of the discovery well 12 miles south of Yazoo City, explained the regulations were designed to encourage development of the area by major companies. He pointed out that these companies would not be inclined to spend large sums in development unless some protection were accorded.

Governor White was inclined to elimination of the drilling limit, but agreed when it was pointed out that two major companies, Union Producing and Southern Natural Gas, held most of the land involved under lease. There are, however, several small blocks which will be affected.

As defined by the board's order, the proven Tinsley Oil Field is as follows:

In Township 10 North, Range 3 West, the following sections and part sections: East half of Section 3; east half of Section 10; east half of Section 15; east half of Sections 22, 23, 24, 25 and 26.

In Township 10 North, Range 2 West, all of Sections 6, 7, 18, 19 and 30.

One section of the order requires owners or operators to report all wells producing two per cent or more salt water to W. C. Morse, state oil and gas supervisor. Another requires "plugging" of a well brought in in violation of regulations.

In event of proration, the order states that it shall be on the basis of the drilling or spacing units upon which a producing well is located. With each such producing unit approximately 40 acres constituting a production unit, and each such producing unit less than 40 acres shall be a fractional production unit. The proration from each well would be based on the number of acres in the production unit, whether fractional or not.

With respect to the limitation of wells, the order, adopted by Governor Hugh L. White, Attorney General Greek L. Rice, Land Commissioner Guy McCullen and William C. Morse, follows:

"The Tinsley field shall be divided into drilling or spacing units approximately 40 acres each, conforming as closely as possible to the boundaries of the sectionized subdivisions of said land, and as the limits of said field may be further extended, additional 40-acre units may be added by the board. Only one well may be drilled on each drilling or spacing unit to each producing horizon and in all instances said well shall be located as nearly as practicable in the center of the unit upon which it is drilled.

"Such application shall be verified by some person acquainted with the facts, stating that all statements and representations therein made are, within the knowledge of the affiant, true, and that the accompanying plat is accurately drawn to scale and correctly reflects all pertinent and required data. Such exception shall be granted only after at least ten (10) days' notice to all lessees and operators of adjacent properties affected thereby has been given, and after public hearing at which all interested parties may appear and be heard, and after the board has determined that applicant has been unable to pool his tract or tracts with contiguous tracts or tracts or parts thereof so as to establish at least a 40-acre drilling unit, and has determined that an exception to such rule is necessary, either to prevent waste or to protect from confiscation the property belonging to applicant."
PERMIT IS ISSUED FOR NEW OIL WELL
Shreveport Concern To Drill Test Near Woodruff Producer In Yazoo City

A permit for the drilling of another oil test well on the Jennie Stevens farm in Yazoo county, a short distance from the Woodruff No. 1 well of the Union Producing Company, was granted yesterday by the oil and gas board to Jones and O'Brien, of Shreveport, La.

The new well is located within a few hundred feet of the southwest corner of the northeast quarter of Section 13, Township 10, North, Range 3, West.

The Union Producing company, a subsidiary of United Gas Pipe Line Company, drillers of the first commercial well in Mississippi, is also drilling a well on the Stevens farm.

Jones and O'Brien are just beginning preparations for drilling their well while the Union's well has already been drilled to a depth of 1,527 feet. Casing is now being set in the latter well.

The Union company also is drilling a third well on the Perry farm a short distance from the Woodruff well. This test is known as Perry No. 1. Materials have been delivered to the site and the driller's rig is being assembled. Actual drilling should get under way this week.

Meanwhile drilling crews of the Union Producing company are pushing the work on Stevens No. 1 and Perry No. 1. The Stevens well, just north of Woodruff No. 1 had reached a depth of 1,600 feet today. The Perry well, south of Woodruff No. 1, reached 150 feet last night. These wells are expected to be completed within two weeks.

The Yazoo Realty company today announced the following as base prices for transaction in royalties and leases around the wells: Within one half mile of Woodruff well: Leases, $250.00 to $350.00 per acre; royalties $175.00 to $250.00 per acre. Within three quarters of a mile of well: Leases $150.00 to $250.00 per acre; royalties $150.00 to $200.00 per acre. Within one mile of well: Leases $100.00 to $150.00 per acre; royalties $100.00 to $125.00 per acre. Within one and one half miles of well: Leases $75.00 to $100.00 per acre; royalties $75.00 to $125.00 per acre. Within two miles of well: Leases $50.00 to $60.00 per acre; royalties $50.00 to $75.00 per acre. Within three miles: Royalties $25.00 to $40.00 per acre. Leases slightly less. These figures are approximate as to transactions consummated during the past week. Sales are not as active as in previous weeks are awaiting the showing of the two new wells which is expected very shortly.

Base Prices For Royalties And Leases Given In Yazoo; Work Begins On 4th Well

YAZOO CITY, Sept. 29—Preparations are under way here today to sink the fourth well in Yazoo county. It was announced here this morning that the new well is located just east of Stevens No. 1 and northeast of the commercial producer Woodruff No. 1. Materials have been delivered to the site and the driller's rig is being assembled. Actual drilling should get under way this week.

The well is being drilled for O'Brien Brothers, of Shreveport, Louisiana. The Rex Drilling company is handling the drilling with George Thurber, Jr., in charge of operations.

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OFFSET DRILLING
CALLED GUIDE TO
YAZOO OIL FIELD

BY CHANDLER DIEHL

YAZOO CITY—AP—The
next three weeks may well be clas-
sed as the most important in the 
state's industrial history—they should de-
termine whether Yazoo county's 
newly discovered oil field will be a 
success for all Mississippians or just a
beautiful dream.

Within three weeks drillers of the 
Union Producing Company will have 
completed two offset wells to their 
drilling in Yazoo county, and the 
state will learn whether it has an oil 
field here or just a single well.

The offset wells more than double—an estimate $1,000,000 of new money, 
Yazoo oil.

A field of producing wells could mean bonanzas for many Mis-
sissippians, might afford tax re-
lief to all citizens because of new 
sources of state income.

A field of producers would mean a rush of capital to the state; such 
fields have been a great means for 
the discovery of new industries
and the state will learn whether it has on oil field here or just a single 
well.

The drilling activity would add to the surging population in the area. 
Yazoo county citizens immediately 
were busily preparing areas to look at their interests
when it became evident that some settlers were looking about for oil, which 
exists in the Mississippi state.

Had there been 400 wells sunk 
without a commercial oil producer
resulting.

Then in August, midway be-
tween the two present drilling loca-
tions, 12 miles south of here, the 
Union Company brought in the :
field's first oil well, producing a
probitie 3,000 barrels-a-day well.

Yazoo county citizens immediately 
learned of the scene of an oil boom. 
Scout, supply, hardware stores 
were in filling hotels and boarding 
houses, giving restaurants a rush
business.

Rental prices, already scarce, 
because of highway and river work 
were nearly trebled away from the 
market at top prices.

And the rush continues.

The offset wells are especially those 
within a five-mile radius of the dis-
covered well, receiving envelopes of 
cash for leasing and royalty rights,

Drilling leases, on land assessed 
on county books at $27.70 an acre, 
started selling at $3 an acre, has 
rushed as high as $40 an acre. There 
are reports a top of $350 has been paid for acreage close to the dis-
cover.

Royalty rights, too, sell at fancy 
prices—up to $350.

A boom town has been surveyed 
at the railroad way-station of Tin-
ner, 12 miles south of here, the 
Union Producing Company set up a 
miniature settlement of a dozen 
stores and a lone slot machine.

In the next 20 years some half-a-
hundred wells were drilled in the 
field but the search went so deep as 
the Woodruff discovery well and none 
produced oil in commercial qualities.

A half-dozen wells producing 
small quantities of a heavy asphal-
tum oil were brought in shortly af-
er the opening of the Jackson field 
and field in 1930 but none produced in what is generally considered com-
mercial quantities.

Examination given for the heavy 
percentage of "dry holes" is that 
many of the wells were not drilled on oil structure and of those on structure many were shot drilled suf-

The Tinsley field was located by 
Frederic F. Mellen, supervising 
geologist of a WPA-Mississippi 
geological survey in Yazoo county.

Mellen noted an outstanding of the 
Moores Branch member formation and 
the Tinsley well, and set up a code of field 
regulations. The Governor-elect 
would recommend to the next legislature 
that the state acquire a few permit-
ings received on a 1-16 royalty on 
all state lands.

Drilling activity throughout the state has 
started since report of the Yazoo 
discovery. Drilling operations are 
underway in Itawamba, Panola and 
Simpson counties, for the first time in history, leaving only 13 counties 
without a test or a test site.

Mississippi's first well was start-
ed in the spring of 1930 in Clarke 
county. It produced a show of oil at $50 a bbl. continued to 1,100 feet, and then shut down op-
"ations, apparently giving up hope 
they would obtain commercial pro-
duction.

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The Union Producing Company 
was the first to move into the area. 
Success followed.

Now all Mississippi awaits reports on 
the other wells, which, compared 
successfully, will herald the open-
ing of a new industry in Mississippi 
and prosperity for many.

H. M. Morse, state oil and gas su-
pervisor, said today casing had been 
set at 1,200 feet on the Union Pro-
ducing Company's governes No. 1 
well in the Tinsley field and that 
casing would be set today on Union's 
Perry No. 1 hole.

This work, he explained, is in ac-
"ordance with the Oil and Gas 
Board's regulatory orders of Sep-
tember 23. The project, extending from the 
ground surface to below the Sparta 
sands and the underlying Cane river 
formation, protects drinking water 
supplies from contamination by any 
oil that might be located at lower 
levles.

The piping is set in cement which, 
gener Oil Board order, must be 
left to stand a total of 48 hours 
before drilling is resumed.
STATE SWEPT BY OIL FEVER

Single Producer in Yazoo Inspires flurry of Transactions

BY CHANDLER DIELS

YAZOO CITY, Sept. 27.—More than 600 wells have been drilled in Mississippi, only one has been brought in commercial oil producer. Its "oil fever" today is sweeping the Magnolia state.

Northeast Mississippi has seen a new wave of lease-buying. It has mid-Mississippi, Prentiss, Tunica, and Kemper counties, setting their first drilling tests. Public interest in the oil industry is at an all-time high in the southwestern section of the state.

Interest in the oil industry is in part due to the results of this oil fever. In the past few weeks the 8,000 barrel well brought in by the Union Producing Company in Yazoo county's Tinsley field near here August 24.

Mississippi's first well to produce oil in real commercial quantity, the discovery well—Woodruff No. 1—has set the Magnolia state's potentialities, has aroused thoughts of a new major industry within the state. 

All citizens are interested vitally in the discovery. They are considering the possibilities of this oil fever and its future effects on the Magnolia state's potentialities. 

W. D. Quigley, general superintendent, said the oil was being shipped for testing purposes, with the results to establish the grade being taken from the Woodruff field.

First Oil Out Today

The Southern Natural Gas Company will probably be the next company to enter the drilling field in Yazoo County, a report received here today indicated.

Yazoo City continued to show signs of the boom today. M. B. Dolan, manager of the Yazoo City district office of the Southern Natural Gas Company, announced that his company is planning to construct an 18-inch pipe line from its pumping station at Onward in order to guarantee an adequate supply of natural gas for the anticipated growth in this section.

The project will cost approximately $200,000.

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The project will cost approximately $200,000.

Mississippi To Ship First Oil Out Today

Yazoo Activity Continues As Other Firms Enter Field

THURSDAY MORNING, SEPTEMBER 28, 1939

First oil ever to be shipped from Mississippi will leave Tinsley Station, 12 miles south of here, tomorrow afternoon, when four tank cars holding 8,000 gallons will be sent to the Standard Oil Refinery at Baton Rouge.

Shipment is being made by the Union Producing Co. owners of Woodruff Well No. 1, first oil well in the state, W. D. Quigley, general superintendent, said the oil was being shipped for testing purposes, with the results to establish the grade being taken from the Woodruff field.
Begin Refinery Work Next Week

250,000 Plan't Will Be Put In By Yazoo Refining Co., Inc.

Location Secured Near E. W. Cooper Place And Short Creek — Surveying Now

Yazoo City will soon have its first refinery, a statement from W. C. Kruger, president of the Yazoo Refining Co., Inc., revealed today.

The corporation has secured a site on fifty acres three miles south of Yazoo City and adjoining the Y. & M. V. tracks. The site is near the E. W. Cooper place and Short Creek.

Surveying and leveling of the site is now underway, and actual construction of the "cracking plant" will get underway Thursday or Wednesday of next week. Some five hundred men will be employed on the job and the completed refinery will represent an investment of $250,000.00. Ninety days will be required to finish the job.

The refinery will have an average capacity the year round of 2,500 barrels per day. Mr. Kruger said. This takes care of the output of the E. W. Cooper place and Short Creek.

Investigations had revealed to him that a large crude oil field is ready for production. Some crude oil, he said, might be imported skilled labor.

In order to secure crude oil for the refinery, Mr. Kruger stated that he had contracts with the oil majors and there would be no difficulty on this score.

Sept. 29, 1939

Sou. Natural Gas to Drill

Operations Reported To Begin On A. G. Johnson Place

Operations Awaiting Clearing Of Titles—As In Northwest Quarter Section 14

The Southern Natural Gas Company will very probably be the next company to enter the drilling field in Yazoo County, a report received here this morning indicates.

The firm, the report stated, will drill on the A. G. Johnson place and operations will begin as soon as the titles are cleared. This is expected to be within the next two weeks.

The A. G. Johnson place is just west of the Jenna Stevens property and the Union Producing Co. Stevens No. 1. It is located in the Northwest quarter of Section 14.

Third Derrick Now Going Up

Rex Drilling Company Is Busy East Of Stevens No. 1

Expect To Go Deeper In Next Two Union Producing Company Wells

A third derrick will within the next few days near its head in the Timley oil field. The structure is being erected by the Rex Drilling Company just east of the Union Producing Company; Stevens No. 1.

The drilling company crews are now engaged in clearing the land and setting concrete for piers.

Meanwhile at nearby Stevens No. 1 and Perry No. 1 drilling is going forward at a rapid pace. It was stated this morning that both these wells will in all probability have to be sunk deeper than the No. 1 Woodruff producer before pay is struck.

Oil Shipment Began Thurs.

Four Tank Cars Left Tinsley For Baton Rouge Refinery

Union Producing Company Has Leased Four Tankers For Service

The first shipment of oil from the Woodruff No. 1 well, the first Mississippi crude oil, and the first shipment of crude oil produced from a well south of the Ohio River and east of the Mississippi River, rolled out of Tinsley Station yesterday afternoon about 5:00 o'clock bound for the Baton Rouge refinery of the Standard Oil Company.

Each tank car, W. J. Quigley, general superintendent for the Union Producing Co., said, contained approximately 200 barrels of oil and a total of about 8,000 gallons made up the shipment.

The cars were loaded on the five-car spur provided by the Yazoo and Mississippi Valley Railroad, which road has the distinction of handling the epoch-making shipment.

Shipment by tank car had been delayed because of road work on the route from Tinsley to the Woodruff Well. The four tanks which was utilized in pumping oil is the station had to be taken up during progress of the road improvement.

The Union Producing Company has leased the four tankers which are being used. If the shipment of oil makes its scheduled run and is unloaded at once at the Baton Rouge refinery, the tankers may be back on the Tinsley spur Tuesday morning. It is not yet known how fast the shipments will leave Tinsley as this will be governed by the expedition with which shipments are handled and cars returned.

A great deal of light will be shed upon the value of the Woodruff oil when it has passed through the refinery. One oil man stated that the specific gravity of 32, at which the Woodruff production was rated, was not so good. However, he said there are nearly a score of products which are made from crude oil, and he had seen some low gravity oil which was very valuable because it was particularly fit for extraction and manufacture of certain products.

Some crude oil, he said, might have a specific gravity as high as 60, and such oil, just as it comes from the well would come near to running an automobile.
TINSLEY FIELD

DAILY CLARION-LEDGER, JACKSON, MISS. SATURDAY MORNING, OCTOBER 7, 1939

Expert Says Tinsley Oil Field Covers 220 Square Miles; Lease Prices Up

YAZOO CITY, Oct. 6—The Tinsley oil field was described today as approximately 20 miles long and 11 miles wide, in the opinion of William Randall, state field manager for the Illinois Refining company, which has taken offices here. Randall declared that his firm was ready to take its part in developing the field.

The field lies northeast by southwest, the oil expert said, and added that people should not be discouraged if some dry holes result from drilling, as this is a natural consequence in plotting the outline of the field.

Rankard's company has now engaged in clearing titles and will begin drilling operations as soon as this work is completed. Around 4,000 acres have been leased by the firm, and it is tentatively planned to drill seven wells in the county. The Pioneer Drilling company does the drilling for Randall's firm.

Also among the company's plans for developing this section is the building of a refinery near Yazzio City should the field pan out as expected. The company has already procured a 250 acre tract which will be used for erection of the refinery.

Drilling operations will begin, Randall said, in Section 9 of the Tinsley sector.

With the arrival of several hundred people during the past week, interest in the field has hit a new high with the exception of the first week after the Woodsfield well was brought in. During the past three or four days Yazoo City has seen the first "settled citizens," meaning those who are moving to Yazzio City with their families and taking leases on houses and apartments for a long period.

All of this new activity has caused much feverish action among oil lease and royalty buyers. The news has spread around that new money is coming into the Yazzio field during the week from Texas, Louisiana and Illinois.

Prices for royalties and leases have hit field after such news of developments in different sections, with most of the activity stemming south of the well located on the Woodruff property. In the Tinsley area, the first being made has directed interest of many buyers to the north. Leases and royalties are higher in the southeast.

The Yazzio Realty company today announced the following scales on transactions:

One lease sold within one-half mile of the Woodruff No. 1 for $800. Royalty in the one-half mile radius continued at $250 to $375. Three-fourths mile, leases $100 to $170; royalty, $50 to $190.

One mile, leases $75 to $140; royalties $50 to $185. One and one-half mile leases, $73.50 to $110; royalties $80 to $225. Two mile, lease $40 to $80; royalties $90 to $275.

Three miles, lease $25 to $60; royalties $40 to $60. Four miles, lease $17.50 to $20; royalties about the same. Five miles, lease $12.50 to $20; royalties same. Prices outside the five-mile limit have increased in the south from $2 to $3 an acre to as high as $7 to $10. Other sections have about held their own outside of the five-mile limit.

Titles Being Cleared

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THE COMMERCIAL APPEAL, MEMPHIS, SATURDAY MORNING, OCTOBER 7, 1939

LARGE AREA ASCRIBED TO YAZOO OIL FIELD

Randall Says It's 20 Miles Long By 11 Miles Wide

YAZOO CITY, Miss., Oct. 6—The Tinsley Oil Field, south of here, was described today as approximately 20 miles long and 11 miles wide by William Randall, state field manager for the Illinois Refining Co., which has taken offices here. Mr. Randall declared that his firm was ready to take its part in developing the field.

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OIL TEST NEAR TOCCOPOLA

Arouses Excitement

PONTOTOC, Miss., Oct. 6—There is renewed excitement over the oil test near Toccopola—but no indications of oil as yet. The drill is on the property of Zollie Lewelling and has reached a depth of nearly 800 feet.

This is the second test in this immediate area, the first being made a few years ago. Dr. H. M. Morse, director of State Oil and Gas Survey, has said that the area "indicated too good to be true." The late Dr. Lowe, when he was state geologist, said "the structure is the most outstanding and picturesque in the state and is certainly worthy of a test."

Crews are working daily in three shifts at the well, keeping the machinery going 24 hours a day.

The original contract calls for a depth of 400 feet, but a new contract has recently been made to go to a depth of 2000 feet, or to continue as long as prospects for a strike are favorable.
Yazoo County Oil Analyzed

By State Chemist W. F. Hand

An analysis of the crude oil coming out of the Woodruff No. 1 well was taken by Dr. William C. Morse, state geologist, and sent to W. F. Hand, head of the chemistry department at Mississippi State College, for analysis. Dr. Morse wrote us as follows:

October 3, 1939

Hon. N. A. Mott, Editor
Yazoo Herald
Yazoo City, Mississippi

Dear Mr. Mott:

A sample of crude oil from the Union Producing Company's Woodruff No. 1 well was taken by the Mississippi State Geological Survey on September 9, 1939, and was submitted to Dr. W. F. Hand, State Chemist, for analysis. The sample was analyzed, under Dr. Hand's direction, in the new Petroleum Products Laboratory, created by act of the 1938 Legislature as an addition to the Mississippi State Chemical Laboratory. The analysis follows:

YAZOO CITY CRUDE

General Characteristics

- Specific Gravity: 0.852
- Per Cent Sulphur: 0.730%
- Saybolt Universal at 100°F: 54
- A. P. I. Gravity: 34.5
- Color: Black

Distillation

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<td>53.83</td>
</tr>
<tr>
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<td>4.51</td>
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<tr>
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<td>4.29</td>
<td>29.16</td>
<td>0.784</td>
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</table>

- Kerosene Distillate: 13.06% - 44.0 A. P. I.
- Light Naphtha: 17.62%
- Light Gasoline: 8.34%
- Total Gasoline and Naphtha: 25.96% - 62.4 A. P. I.

Dr. Hand, who has devoted years of outstanding professional service to the State of Mississippi as its state chemist, and as head of the Chemistry Department of Mississippi State College, writes: "We had hoped to do some additional work on the oil, but the pressure of various duties here, especially those incident to the opening of college, have delayed us. At any rate, the characteristics shown on our report will enable you to determine the initial cost of the oil for refining."

Very truly yours,

WILLIAM C. MORSE
State Geologist

Yazoo Oil Field

Arousing Interest

Grant G. Alexander

Found Interest High
In Greenville Section

Grant G. Alexander of the Union Producing Company, back from a weekend stay in Greenville, said he finds interest in Yazoo County's oil prospects extremely high all over the northern part of the state. He has had inquiries, he said, from men in nearly every kind of business concerning Yazoo City and Yazoo County.

Interest in residence property is increasing, he said, because of the influx of people who will be more or less permanently located here. Houses are still to be found, he continued, though they are becoming more scarce with every day that passes.

Mr. Alexander said rooms still can be had here, but that apartments are becoming more and more difficult to secure.

Law Very Strict On Sale of Securities

Yazoo Situation Is Being Investigated By The Secretary of State

Ron Walker Wood, secretary of state, who has the responsibility for the enforcement of the "Blue Sky" laws of the state, is developing information with reference to possible violations of the law in connection with the oil development in Yazoo County. Securities of any kind, except those exempted by law, cannot be sold in Mississippi without compliance with the law. The term "securities" is very broad under the statutes. Before even exempted securities can be sold an agent's permit must be secured and the exempt securities listed with the secretary of state.

Judge O. B. Taylor of Jackson, a former chancery judge of Yazoo County, is acting as attorney for the secretary of state, and is spending some time in Yazoo County investigating the situation for Mr. Wood. It would seem to be important that all persons or companies engaged in selling oil securities should first contact the office of secretary of state in Jackson, and do whatever is necessary to qualify securities for sale under the laws of Mississippi.

Persons purchasing stock, before buying oil securities or other items, should ascertain if the stock has been qualified under the "Blue Sky" laws.
TINSLEY FIELD

YAZOO WELLS NEAR BOTTOM

Crews Drill Deeper Into Second Sand Layer; Oil 'Trend' Reported

YAZOO CITY, Oct. 13—Reports received here today from the two offset wells being drilled north and south of the Woodruff No. 1, by the Union Producing Company indicated that both holes are showing favorable developments and final and conclusive reports may be available tonight or tomorrow.

A showing was pulled yesterday at both wells at around 4,000 feet and both crews were occupied with coring. The same thin sand was struck in the Woodruff well, it was reported, but the crew went deeper to find the second sand-bearing sand.

Deep well tests are reported in progress today and the results of these will probably determine the final decision on the two holes.

Developments in Yazoo county's fast breaking oil activity at the two Union Producing company's offset wells were overshadowed today in the face of a revealing of latest scoring of oil experts who believe that the petroleum concentration will prove to be a "trend" rather than a "dome" as was first suspected.

If this belief is true, the magnitude of the field will be intensified in unlimited number of times, and this section will see much impetus added to development that has not even been dreamed.

Roughly, the oil men describe a "trend" as an underground river of oil as opposed to a dome accumulation which is compared to a pool.

The second producer on Union Producing company's offset wells was pulled today from a section four miles southwest of here. The well is located four miles southwest of here. The well was run near Flora, the well near Potosi, the Woodruff No. 1, and the Stevens No. 1.

They said they had been puzzled as to their belief, the experts point out that the same elevations have been maintained in the underground strata in various drillings and that the log of the old "Free Run" well, the well near Potosi, the Woodruff No. 1, and the Stevens No. 1, prove this. They said they had been puzzled as to their belief, the experts point out that the same elevations have been maintained in the underground strata in various drillings and that the log of the old "Free Run" well, the well near Potosi, the Woodruff No. 1, and the Stevens No. 1, prove this.

The course of the suspected trend is reported to have been made by the drillers in the Toccopa oil well located four miles south of here. The well is flowing at approximately 250 barrels daily with tubing pressure reported at slightly more than 1,000 pounds.

The original contract calls for a depth of 6,000 feet but a new contract is reported to have been made to drill to a depth of 6,000 feet or in continuous as long as prospects for striking oil are favorable.

Crews are now working in three shifts at the well to further the machinery in operation continuously.

MERIDIAN, Oct. 13.—Negotiations for leases and mineral rights for the drilling of two wells in Clarke county were in progress today.

One location is four miles southeast and the other 14 miles south of Gunnison, the location of leases already have been taken by Joe Maddox of United Press.

YAZOO CITY, Oct. 13—The Yazoo Realty Company in their oil release market release reported that taking prices in the vicinity of the Perry and Stevens wells had advanced sharply during the last two days with some deals being closed at lower figures. In some instances buyers have refused to give the advanced price.

Prices asked, 1-2 mile, no leases available, royalty $50, $65.

Three-fourth mile, leases $15 to $250, royalties $25 to $250; 1 mile, leases $100 to $160; 1-1/2 mile, leases, $75 to $110, royalties $40 to $115; 2 miles, leases, $200 to $300, royalties $65 to $100; 3 mile, leases, $350 to $250, royalties, $60 to $80; 4 mile, leases $250 to $450, royalties $75 to $140; 5 mile, leases $400 to $650, royalties $150 to $275.

Outside the 5 mile limit prices are remaining at 25 cents to 63c and 8c, with the higher prices prevailing in the south.
NOTHING CALM ON OIL FRONT

Activity Increases In State
After Second Producer Tapped

YAZOO CITY. Oct. 16- Crews at the Perry well, where oil was struck Saturday afternoon, will begin pumping concrete tomorrow to set the production string. It was reported here today that the well is expected to be brought in Friday of this week.

Reports as to its potential commercial production are far guesses at the start of the game, and it will not be known definitely what the well will do until production starts next week. The well is expected to be brought in Friday.

It is believed there may be no more Union Production company wells until the Stevens No. 2 is decided. At the rate the work is progressing, a new well may be started early next week.

At the Stevens No. 1 indications are not so favorable, however, the well may be drilled considerably deeper in search of a second pay pay sand between 4,540 and 4,589 foot depth. The well was reached between 4,579 and 4,603 feet. Drill stem tests on the new producer—stem tests on the new producer—showed a potential oil field in Holmes county with the latest Bill Wil-lik as operating manager. Wells later became prominent in the development of Jackson gas field.

Drilling contract is expected to be let this week on the Yazoo River field, where the decrill has already been executed. This well will be in the Timby field and the location was highly praised by Geologist Frederick Mellen, who discovered the Tinsley field.

Oil was drilled in Mississippi a year ago as inhabitants gained momentum after Yase. Second commercial, produced was begun in July. Union Drilling company, was headed by Geo.or, manager of the Perry No. 1, owned by Union Production company. Union officials indicated it might be capable of oil greater output than Union's discovery well, the Woodruff No. 1.

The discovery well, brought in one-half mile to the north on Aug. 29, is tabbed as good for 4,000 barrels or better a day, and the well might produce as high as 5,000 barrels a day. While production string setting was going on, the new well today, drilling operations on six other locations in Mississippi were resumed and there was hope of much other activity.

Several companies, that were awaiting results on the offset well, were reported making final prepara-
TINSLEY FIELD 31

THE VICKSBURG EVENING POST, WEDNESDAY, OCTOBER 18, 1939.

"OIL, GAS AND MINERAL LEASE"

This agreement made this 4th day of October, 1939, between the Board of Supervisors of Warren County, Mississippi, lessee (whether one or more) and lessor, the owner of the land hereinafter mentioned, Grant G. Sudcath, lessee, witnesseth:

1. Lessee in consideration of One and 0/10 Dollars ($1.00) in hand paid, and covenants herein provided of the lease herein contained, hereby grants, leases and lets exclusively unto lessee for the purpose of investigating, exploring, prospecting, drilling, producing and selling oil, gas and other minerals, located in Warren County, Mississippi, and all other lands, locations, tracts, or portions thereof, not now or later owned or controlled by lessor, and all present or future wells, pipelines, buildings, power stations, telephones and other structures thereon, to produce, sell, take care of, treat, develop, and own said products and housing its employees, the following described land in Warren County, Mississippi, to-wit:

School Section 16, Township 16 North, Range 6 East.

2. Subject to the other provisions herein contained, this lease shall be for a term of ten years from this date (called "primary term") and as long thereafter as oil, gas or other minerals are produced from said land, or oil or gas is produced on said land and the same or similar circumstances.

3. The royalties to be paid by lessee, are (a) on oil, one-eighth of the oil produced and saved from said land the same to be delivered as at the wells or to the credit of lessee in the pipe line to which the wells may be connected; lessee may have time to time purchase any royalty oil in its possession, paying the market price therefor prevailing for the field where produced on the date of the purchase; (b) on gas, including casinghead gas and other gaseous substances produced from said land, as follows: In case leases shall stop up the gas in the manufacture of gasoline or other products therefrom, the royalties paid on such gas shall be equal to 50% of the market price at the well of ft of the gas so sold or used; and (c) on all other minerals mined and marketed, one-eighth, either in kind or value at the well or mine at lessee's election, except that if sulphur the royalty shall be fifty cents ($0.50) per long ton.

4. The payments for lease shall be made at said land not more than one year from this date this lease shall then terminate as to both parties unless on or before such date and for any other cause leases shall pay or tender to lessee or to the credit of lessor in the Bank at . . . . . . Mississippi (which bank and its successors and assigns, but no change or divisions in ownership of said bank, shall be the depository for all rentals, or the rentals) the sum of twenty-five cents per acre, (herein called and applying rentals and royalties accruing hereunder toward satisfaction ot all legal obligations, both present and future, and in the event of failure to fully carry out this provision, the surface leases affecting the property described herein, with reference to ingress and egress, thereby relieving the Board of Supervisors, of Warren County, and all other parties and each of their respective successors and assigns, but no change or divisions in ownership of said surface leases, as between the several, lessor owners, shall remain effective and lessee may from time to time, for a period of twelve (12) months each during the primary term. The Portionately.

5. If prior to discovery of oil or gas the production thereof should cease from any cause, this lease shall not be abandoned, and lessee shall abandon all wells and all pipelines, buildings, power stations, telephones and other structures thereon, at the expense of lessee, and the land restored to the condition before such abandonment.

6. If at any time during the life of this lease the lessee shall not have before the expiration of the primary term (or any extension thereof) drilled a well or wells producing oil or gas in paying quantities, then this lease shall terminate and be null and void.

8. Lessee shall have free use of oil, gas, water and wood from said land, except, water from lessor's wells, for all operations hereunder, and the royalty on oil and gas shall be computed after deduction of any such use. Lessee shall have the right at any time during the term of this lease to make such test holes and to drill for oil and gas, the expenses of which shall be borne by lessee, and the lessee shall be entitled to all the minerals found and to the proceeds thereof.

9. The right of any party hereto may be assigned in whole or in part and the provisions hereof shall extend to the heirs, successors and assigns, but no change or divisions in ownership, or any failure to exercise any of the rights of lessees or lessors hereunder, shall affect the right of the lessee or lessor or performance of the obligations of the lessee or lessor hereunder, and further, that if at any time during the term of this lease the lessee shall become bankrupt or insolvent or make any arrangement with its creditors, or in any manner whatever, unless there shall first be a final judicial ascertainment that such obligation or cause exists and that the lessee is in default, upon such final determination, lessee is hereby given a reasonable time thereafter to carry out the terms and conditions of this lease, and if lessee shall fail to do so within such time the premises for which the said land is leased shall be leased to another party, the lessee shall not have any further right to any portion of the said premises for which the land is leased.

10. Lessee herein or assignees agrees to make his own arrangements with the owners of the surface leases affecting the property described herein with reference to ingress and egress, thereby relieving the Board of Supervisors, of Warren County, and all other parties concerning the surface leases affecting the property described therein.

11. Notwithstanding any provision herein to the contrary, it is understood by all parties hereto as follows:

That if bona fide drilling of a well for the production of oil or gas is not begun within six months from the date hereof upon the property covered by this lease, or upon the land, commonly known as a Block, covered by a written lease of which this lease be a part, or within a distance of five miles from the land covered by this lease and thereafter prosecuted with due diligence to a depth of more than 300 feet, unless oil on gas is sold or produced from said land in the event a well is a well or wells producing oil or gas in paying quantities shall be brought in on adjacent land and with the same or similar circumstances.

THE VICKSBURG EVENING POST, WEDNESDAY, OCTOBER 18, 1939.
Jackson May Get Supply From Oil Field Outskirts

Increasing Pressure in Eastern Fringe of Tinsley Field

Increasing gas pressures in oil tests in eastern fringes of the Tinsley field in Yazoo county raised hopes yesterday that a new supply of gas for Jackson may be found near at hand.

Geologists interested in the Yazoo developments reported that the gas pressure in the Jones-O'Brien well, newest oil producer tapped in the Tinsley area, was considerably higher than in either the Woodruff or the Perry wells previously drilled by the Union Producing company. Increased gas pressure also was noted, they said, in the Jennie Stevens No. 1 well of the Union Producing Company.

Officials of the Union company expressed the hope that the coarse oil-bearing sands would be encountered at a greater depth.

In the meantime Texas interests are preparing to drill one or more test wells in the vicinity of Bolton, and are starting the first well to be drilled by November 1. Earlby Byrd of Dallas, has a contract for the Stewart company to drill the first well in Section 12, Township 6, North, Range 3, East.

R. E. Owen, local driller, is working on, a well at Brownsville, northeast of Bolton, and was reported yesterday to have encountered the Wilcox formation. Little information concerning this well has been made available.

The Byrd interests of Dallas have leases on some 10,000 acres in the Bolton area and their geologists are hoping that this section offers better oil production than the Tinsley dome section of Yazoo county.

Increasing gas pressures in oil tests in the vicinity of Bolton, and the discouraging efforts being made to bring in new wells to supply local demands.

Drillers continue within the city of Jackson but officials admit very frankly that the chance of discovering a new supply of gas is rapidly growing more remote.

Meanwhile, the Yazoo oil field is the state's chief center of interest.

Oil men who have followed the Tinsley developments carefully since the first well came in believe it can be declared that the Jones-O'Brien well is by far the best producer in the area thus far.

This well showed 18 feet of coarse oil-bearing sand in a drill stem test Friday and the experts agree that it will produce in the neighborhood of 7,000 barrels a day.

Further tests were made yesterday at the Union Producing company's Jennie Stevens No. 1 with results that were more or less discouraging. The project has not been abandoned, however, and following the tests the drillers were reported at a depth in excess of 6,500 feet.

Yesterday's test, it was learned, showed twenty feet of sand in this well and strong indications of oil. The sand was said to be too fine-grained, however, to permit the profitable exploiting of the oil.

Further tests in the Tinsley field by the Union producing company will be attempted, it is reported, while inauguration of drilling tests in Southern Natural Gas, O'Brien Brothers, Amendia, Berdell, Gascon, Martin, Mar- noils, Byrd, Frost and others who have leases in the field will probably be announced at any time.

A drilling contract will probably be let next week for the Yazoo Refinery, Inc., Snooks No. 1, in the Tinsley field.

The district has already been opened on a location owned by Frederick Mellen, geologist who discovered the Tinsley field, as the most promising in the area.

Southern Illinois Refining company is another interest which is being looked to for early drilling and refinery developments. The concern already has a 250 acre tract near the city, it is reported, which was secured for a refinery site.

H. E. Gardner, senior traffic economist of the United States Engineers office, in Vicksburg spent Saturday in Yazoo City at the office of the Chamber of Commerce gathering data on shipments originating in Yazoo county which might go by way of river freight in case transportation were available. A complete survey will be made by Mr. Gardner of all counties bordering on the Yazoo river with a view to submitting a recommendation to the state with provision of a nine foot channel in the Yazoo river.

Secretary Foster of the chamber of commerce assisted Mr. Gardner in securing available data for the county and a summation of the total tonnage in freight which originates in this county was furnished by the statistical expert.

The development of a potential oil field will vastly increase the amount of freight originating in Yazoo county which could go by water transportation. A detailed report will be prepared by Mr. Gardner and a way furnished the chamber of commerce.

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FACE HAPPY FUTURE

OIL CITY—Uncle Tom Germany had never spoken of failure until about a year ago, when, at the age of 72, he realized he had been hit by the plow to the last day of his strength.

Then he was forced to face problem facts—that he and his courageous wife who had fought the same long battle with him could do little but await the time when the mortgage would be foreclosed on their 200 acres of obstinate clay hills.

Uncle Tom does not care to talk much of the latter months which followed. His wife, who during the long years of fruitless toiling often worked at the fields beside her husband, however, will speak of the concern she felt for Uncle Tom whose health began breaking rapidly. But these both had rather live in the present and tell of the story of a new life which is beginning for them.

It is the story of Mid-south's oil discovery—a story which will apply generally to many families residing in the Yazoo county.

To the Germans, the oil discovery has meant lifting a mortgage which for years has hung over their farm like an ominous cloud. Money in the bank and promise of riches which may reach beyond their conceptions. They recollect that folks who have filled these dreams—earns of oil—have so many years and received such little compensation from nature, cannot realize appreciate the full significance of sudden riches being thrust upon them. To them it is all a little bewildering—particularly after such trying circumstances which confronted them less than a year ago, money to them is not so much a means to luxury as an end to worry.

In the few weeks months—not only the Germans but their rugged wood-clad acres as well have undergone transformation. Roads leading to various wells now in production have been cut across the property and to open the climax of exciting events a new town. Oil City, is being built on a large tract of their land which immediately controls their home. Shortly after the discovery well, Woodruff No. 1 was brought in. Clay land for the new town was purchased from the Germans by J. L. Duncan, townsite developer and oil operator, who saw need for a commercial and business center in the oil field. Uncle Tom and his wife have taken great interest in townsite development, watching huge road-making machinery level off the tops of wooded hills and fill in the gullies and ravines and two small ponds which once provided water for their few head of stock. Various buildings which will provide a retail outlet in the vicinity are now under construction, and it has been assured by Mr. Duncan that the road from Little Yazoo on highway 49 will be graveled and oiled.

In speaking of the oil discovery, one visitor suggested to Mrs. Germany that the good Lord placed these riches under the ground to encourage for the poor land on the mother.

"He probably did," answered the elderly woman, "but He let us lag a long time at the top before He let us find it."

Many of the people who have visited Oil City in the making have probably observed the grueling old couple at the townsite; for the main street of the town is less than a hundred yards from the home. Uncle Tom is addressed by Mr. Duncan, engineers and other workers as Oil City's unofficial mayor. The title brings a smile to his ruddy cheeks.

There are those who have asked Uncle Tom and his wife what they will do with their money. The question always brings a little puzzled expression to Uncle Tom's face and he reserves his opinions cloud. Money to the Germans is like at any time the house is being built.

To the Germans, discovery of oil is a reward for two lives that have been lived for others. During the long years they fought to entice nature to yield them a living, they raised three children. After the children married and left the home, Mrs. Germany adopted five orphans, children of her own relatives, offering them every advantage within her power, until they, too, became married and left the Germany home or departed to seek their fortunes elsewhere.

It is difficult to describe our feelings in this sudden good fortune," Mrs. Germany said. "I know that other families who have been farming for years in these parts feel the same as we do. That it is all God's blessing."

In addition to the founding of Oil City, extensive drilling is being planned on other acres of the German farm. Mr. Duncan stated that nine drilling locations have been selected. Two of these wells will be located within the townsite proper, he said, and drilling will be started in less than 60 days.
Yazoo Field Attracts
Only Woman Oil Driller

Although she’s strictly feminine, Buda Lee Mauldin is engaged in one of the most strenuous and most dangerous jobs in the world.

In fact, she is unique, even among women doing men’s work, as she is the only woman oil driller in the world.

Miss Mauldin pulled into Jackson this week and will go shortly to establish headquarters in Yazoo City. She will spend some time there while assembling a block of leases.

Miss Mauldin is president of the Mauldin Oil Company. Her son, H. Henry Mauldin, who is a graduate of Southern Methodist University, is vice president of the company.

It has become more or less commonplace to find women engaged in occupations which formerly were reserved for men, but the attractive little lady who has just come to Mississippi is more than unique. She is “exclusive.”

The public often hears without much surprise of women doctors and lawyers, but the business of drilling for oil is regarded, and rightly, as being one of the most strenuous and most dangerous jobs in the world. It doesn’t seem possible that a pretty, five-foot-three-inch lady could succeed in a game which taxes the nerve and brawn of burly “roughnecks” and leather-necked drillers. Yet that is exactly what little Miss Mauldin has done. Yet, she gives the older drillers, roughnecks, and all the other oil operators credit for what she has accomplished.

For nearly fifteen years she accompanied her former husband, an expert driller, on his trips to the great oil fields of the south, southwest, Mexico and even South America. She worked side by side with him, learning the tricks of the trade, matching her strength with that of husky roughnecks who formed the crews. She learned the science connected with operating a drill rig, and incidentally most of the lore of the oil business. So well did she learn that a few years after her marriage she urged her husband to form the Mauldin Oil Company with her as vice president. They sunk more than a dozen wells in half a dozen big fields, with the usual luck of the driller—some dry, some small payers, and a few good payers, but no rich strikes.

After serving an apprenticeship of seven years as a roughneck, Miss Mauldin’s career as a driller began by accident. While drilling a well in the Panuco field near Tam- pico, Mexico, her husband was stricken with tropical fever. To cease operations meant that they stood to lose several thousand dollars already sunk in the “hole.” She stepped into the job and finished it after a rather trying time. Later, as an independent operator on her own, she drilled her first well in San Augustine County, Texas, which made her one of the most colorful personalities in the oil game.

In the nine years intervening, she has sunk wells in the Luling (Tex.) and Many, (La.) fields.

In addition to being a driller Miss Mauldin is noted wherever oilmen congregate as one of the best lessees in the business. She has obtained all the leases drilled by her company in competition with the best oilmen in the land.

Before entering the oil business and matrimony, Miss Mauldin was a school teacher in a small town near Dallas, Texas.
Beyond the Oil Area

To the Editor, Kit Biddle: I wanted to go to my old used car dealer, His name is Al Stadler, and he has a long, long trip ahead of me. I mean he would have been expected "home" to fill the tank, but at the last minute, and with a shake of his head, it was abandonning the amount of service these filling stations give. Finally, Kit claimed everything was O.K. and I was off while yet "was too,".

Running True To Form

In no time at all I was on the going road. In a lane almost dead in leaves fallen from the trees, a car was going along side me. I stopped to get my bearings and heard the sound of metal on a wagon wheel. I Speeded a wagon coming from the field with a load of foder corn; heard the whir and crack of a gasoline engine. Heard a "rattler" and heard the sound of metal on a wagon wheel. I glanced at the base marks by the blue wools of fine fingers, smiling about the enclosed; saw one last red apple on a rugged tree, and as I responded to the hail from the wagoner in clear all over, which had faded to a soft blue; the scene was so picturesque, so wonderful, I decided I would reach my destination—beyond the oil area in Yazoo County.

Wrong Was I—Very Wrong

These two farmers, working together, were near neighbors and long-time friends and were just like themselves. They had leased their land to an oil company. They have made their presence felt among us. Most interesting an evening in this excellent couple and their two adorable little girls, Betty and Mike. They, too, have made their friends feel among them. Two friends of Callie Beaird's who have made their presence felt among us. Most interesting an evening in this excellent couple and their two adorable little girls, Betty and Mike. They, too, have made their presence felt among us. Most interesting an evening in this excellent couple and their two adorable little girls, Betty and Mike. They, too, have made their presence felt among us.

Oil Activity

Has increased daily. Business has been brisk and the "busiest" are being sought out. I have been told Griffin Tucker was among them whose oil lease is satisfactory. In fact, he tells me it is. Mr. Smith, who has been my Oil People friend for over two years, says he is filling his rounds, delivering orders, and standing up the housewife with a variety of fruits.

No dull moments in Yazoo County. Oil may have grown a trib or two, and old Yazoo shows up a new substance to give us peace.
State Oil Discoveries Places

Spotlight On Local Geologists

Editor's Note: Because of the recent oil boom in Mississippi, attention has been focused on Frederic Mellen, another state geologist who discovered the Tunica field in Tunica County. In the following article is given a short sketch of Geologist Mellen. His instructor, Mr. W. C. Morse, and other successful Mississippi geologists.

General geology is a subject that should be studied in the college or university primarily for its cultural value, for its aid in teaching a student to think clearly, to recognize the truth, to abhor the false. And just as the student should on field trips to recognize what he learned in the geology class room, so also will he be able to interpret in life that which he has learned in other courses.

Despite these firm convictions of Dr. William Clifford Morse, Professor of Geology and State Geologist at the University of Mississippi, nevertheless, if a student of his honesty, intelligence, and industry reveals his aptitude for the subject and feels that he will not be happy in any career other than that of a geologist, then and only then, does Dr. Morse grant him advanced work.

Dr. Morse is happy that hundreds of students have taken general geology; he is especially proud of his Mississippi boys and girls who have taken their major or minor in geology. He is intensely proud of his Mississippi boys and girls, mostly native Mississippians, named below. He is proud that when they are weighed in the balance with students of the best universities that they are not found wanting.

Among them are three men, Frederic Mellen, V. M. Foster, and T. H. Shropshire, Assistant State Geologist Frederick Francis Mellen, the discoverer of the Tunica dome that yielded the first commercial oil well in Mississippi, was one of Dr. Morse's former students at both the University of Mississippi and at State College, of whom he is intensely proud.

After Mellen finished at State College, Dr. Morse, on request from the chief geologist of the T.V. A., recommended him and a number of others, for consideration for promotions. Mellen received on promotion, but were rejected from salary, which in that he was not satisfied with a commercial Oil. When the T.V. A., was done, he continued his research on his own time, and at his own expense. Mellen became especially interested in the residual material remaining from the weathering of the Palinspade rocks in the adjoining parts of Mississippi, Alabama and Tennessee.

He prepared a preliminary paper on this material which he called the Tunny Rock residuum after a small tributary of Bear Creek in Tishomingo county and submitted it to his former teacher, who read it at the University of Mississippi for his approval or as a little article for one of the learned journals.

Dr. Morse urged him to continue his studies on the problem and submit the paper to the university as a thesis for the master's degree in the department of geology.

Mellen, therefore, was so encouraged that he was not only accepted, so to speak, but Dr. Morse decided to publish it as Bulletin 24, the Little Bear residuum, of the State Geological Survey. Under similar conditions, Mellen discovered the bentonite beds in Pontotoc county.

In the meantime, the T.V.A geological budget had been reduced, a number of geologists had been released. Dr. Morse placed Mellen in charge of the WPA Mississippi Geological Survey in Winston County. Bulletin 25 had appeared from the press, and despite the depression, Mellen had received a number of offers, one at least paying in excess of $40 a month and expenses, which he accepted in part, giving every effort and work at his time.

When the Winston County project was expanded into a statewide project involving 10 to 12 counties, Mellen resigned from his commercial geological work, which had resulted in the establishment of the A.A. E. branch of the Evolution Clay Products Incorporation of Effort Ohio, at Pottsville, now employing some 45 or 50 people and producing a bond for building sand that is said to excel the famous Wyoming bond.

Thus, because of his loyalty to his native state, to his former teacher, and especially to himself, Mellen has voluntarily sacrificed nearly half of his salary—but, let it be hoped, not in vain.

In fact, only recently, one of the oil corporations sought his services, which Dr. Morse refused to relinquish unless Mellen was offered a salary considerable in excess of the one from which he had withdrawn.

Another favorite student of Dr. Morse was Velora Meek Foster, who grew up manhood on his grandfather's and his father's farms adjoining State College. Always intensely interested in geology, Foster was such an excellent student that he was elected to a fellowship at Washington University, St. Louis, and then in Northwestern University, Evanston, where he completed all the requirements for the Ph. D. degree except the thesis.

Foster served as geologist to the Mississippi State Planning Commission until he was released by the state geologist's office to serve as supervising geologist of the WPA mineral survey of Lassiter and Ferral counties. More recently he has been a member of the U. S. Geological Survey.
Oil And Gas News
From The Tinsley Field And Elsewhere

New Well Inspiring To Buyers

YAZOO CITY, Dec. 1 — The showing of 36 feet of oil and sand in the Woodruff No. 3 Thursday has created some excitement among royalty and lease buyers in the Tinsley Field, according to the Yazoo Reality Oil Exchange, in their official report today.

For the past two weeks activity in the exchange of leases and royalty has been very slow and the good showing of the second Woodruff was welcomed by many holders of oil interests. The Exchange said, however, that prices have not materially advanced due to the high prices asked before Thursday.

For the past month buyers almost have ignored the south and southeast but with the showing of the new Woodruff they have begun to invest in some extent.

Prices to the north and northeast continue to hold their own with the possibility of a rise should the O'Brien-Stevens No. 8 come in at either the first or second sands. The following prices are being asked, with the distances quoted being from each individual producing well with the better prices prevailing to the north, northeast, east, and southeast, while the northwest, west, and southwest is still suffering from the Friley "dry hole."

1-3 mile, leases, none available, royalty, $350 to $600.
2-4 mile, leases, none available, royalty, $305 to $485.
3 mile, leases, none available, royalty, $250 to $485.
4 miles, leases, $100 to $300, royalty, $185 to $385.
5 miles, leases, $150 to $430, royalty, $330 to $630.
6 miles, leases, $200 to $580, royalty, $500 to $910.
7 miles, leases, $250 to $780, royalty, $750 to $1,410.
8 miles, leases, $300 to $1,000, royalty, $1,010 to $1,780.
9 miles, leases, $350 to $1,200, royalty, $1,310 to $2,070.
10 miles, leases, $400 to $1,400, royalty, $1,410 to $2,170.

There is much more activity outside the five mile limit.

The first oil derrick since World War days was erected for Ballard to receive one-tenth of the royalty in case oil is discovered. A Louisiana company is in charge of drilling.
Oil And Gas News
From the Tinsley Field And Elsewhere

**Gas Drilling In City Area Is Approved**

Two gas drilling tests in Jackson and two oil well permits were issued by the Mississippi General Land Office last week, and three additional tests were scheduled for next week. Gas wells were approved on a new five-mile grid strip of land in Rankin county, across the Pearl River from Jackson.

The commission held that producers must get approval of the location of at least 120 acres of state-owned land by the L & N Railroad before they can proceed with development of structures. The modifications were made to comply with recent approval of a lease on 120 acres of state-owned land in Madison county, near the city of Canton, to Rainbow Oil and Gas Company.

Meanwhile, oil exploration activity on private leases moves at accelerated pace.

Two tests on Yazoo County are to be made on the land within 60 to 90 days. Today the position was modified to give up to six months time on lease blocks to permit orderly development of structures.

**Tunica Well Draws Crowd Into Section**

The Tunica well located just west of the Tunica County line is being worked by the Midwestern Oil Company. The drilling was continued in spite of the roads leading to the location were jammed with vehicles. Explosive materials for use in drilling, and in the many small blackouts, will have to wait until cold weather sets in before their partial blackouts, to bring in on primy. A 21-inch choke will be used in drilling.

**Union Producing Company's Wendell No. 1, the Discovery Well at Yazoo City.**

The discovery well at Yazoo was topped off at 1200 feet; casing pressure 1200; tubing 120; capacity 900; barrels at 860 feet. The discovery well at Yazoo was topped off at 1200 feet; casing pressure 1200; tubing 120; capacity 900; barrels at 860 feet.

**Stevens No. 1, Yazoo County.**

To be completed by the Union Producing Company. Location is on the northeast corner of the NW 1-4 of the SE 1-4 of section 10. Oil sand at 860 feet; casing pressure 1200; tubing 120; capacity 900; barrels at 860 feet.

**Jones and O'Brien's Stevens No. 1, Yazoo County.**

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**Johnson No. 1 at the junction of the WF 6 and WF 118, Yazoo County.**

To be completed by the Union Producing Company. Location is on the northeast corner of the NW 1-4 of the SE 1-4 of section 10. Oil sand at 860 feet; casing pressure 1200; tubing 120; capacity 900; barrels at 860 feet.

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THE VICKSBURG EVENING POST. TUESDAY, DECEMBER 26, 1939.

Union's Stevens No. 1 Makes 600 Barrels Through 14-16 Inch Test Choke Yesterday

New Well Is the Fifth: Fort Worth Syndicate Leases 720 Acres Of State Land In Yazoo

With the fifth producing well marked up on Yazoo’s map with the bringing into production of Union Producing Co.'s Jennie Stevens No. 1, an estimated production of 600 barrels daily through a 14-16 inch test choke, location work is intensified over the entire county.

Location work and drilling pressure is this well are reported to be the best so far in the field.

Foremost in new developments was the leasing of 720 acres of state land in west central Yazoo County adjoining the Kirkland property in Dec. 28 & 29-10-9w. A Fort Worth syndicate, headed by W. L. Stewart and Hill & Hill, secured the lease from the State Mineral Lease Commission and announced plans for immediate operation. A $1,000 performance bond was posted, with insurance given that ultimate depth of the well will not be less than 6,000 feet.

Taking a hint of the spotlight was the disclosure that plans for immediate drilling have been made for the C. R. Burkett tract, six miles northeast of production in Sec. 1-10-9w. Fifteen days remain for the start of operations here by Foremost in new developments.

No. 1 discovery well.

North of Benton the Conno-Wilson Stubbfield No. 1 was reported today to be drilling ahead on its wildcat operations after waiting nearly two years for a section of oil, which went in at 1100 feet.

Meanwhile, Union Producing Co.'s discovery firm in the field, had taken to 3219 feet its Woodruff No. 2, east offset of the No. 1 of the same name. The drill was in black shale of a slightly sandy nature for nearly two days for a section of oil, which went in at 1100 feet.

Grading is being done for the Woodruff No. 3 in Section 13, and flags have been set for the No. 4 in the same section. All the Woodruff wells are being done for the same properties, less 15 barrels, 3003 barrels and 326 barrels through a 3-16 inch choke at 4570. J. C. O'Brien's Jennie Stevens No. 2, Sec. 13, T10R3w. 600 barrels on 3-16 inch choke at 4570. Union Producing Co.'s Perry No. 1, Sec. 24, T10R3w. 56 barrels through a 3 inch choke at 4476. J. C. O'Brien’s Jennie Stevens No. 3, Sec. 13, T10R3w. 55 barrels on hour through 1-32 inch choke at 4600 Union Producing Co.'s Frye No. 1, Sec. 14, T10R3w. Abandoned as dry after going to 5300 feet. Union Producing Co.'s Jennie Stevens No. 1, Sec. 13, T10R3w. 860 barrels through 1-32 inch choke (estimated) at 4207 feet after drilling to 5200 feet.

On the chance that the Yazoo field may, like Benv, and R. R. Bay's production in Louisiana, show on both sides of the fault, the Niski operators are putting their hopes, in the location, is believed to be on the same side of the fault as in the Friley No. 1, marked up as a test Tuesday morning a half mile west of the Woodruff No. 1 discovery well.

Another western test is contemplated by Taylor, Kent, and McIENCE of Longview, Tex., who have made location on the Selby property in Section 9-9n-3w. This location, however, is the first to be placed for the south of production.

W. L. Stewart and Hill & Hill, secured the lease from the State Mineral Lease Commission and announced plans for immediate operation. A $1,000 performance bond was posted, with insurance given that ultimate depth of the well will not be less than 6,000 feet.
Orderly Development of State's Oil Industry Desirable

"Mississippi is particularly fortunate in that there seems to be an orderly development of the oil field in the Yazoo area," said Col. T. H. Barton, president of the Lion Oil Refining Co. at El Dorado, Ark., in his address before the Vicksburg Chamber of Commerce Friday night. He continued:

"The finding of commercial quantities of oil in your state will be a great developer and it is to your interest to encourage the reputable oil man to explore for the great unknown quantity. Your state is the newest one to enter this sphere of activity and although so one can predict to what extent or what territory this activity will extend, I feel sure that I can say to you that you are just ahead of an influx of geophysicists, geologists, surveyors, land men, men of men andSTATE BOUNDARIES.

Real action starts. I hope for you that time will reveal that Mississippi is a real oil state." The Lion Oil president warned against being convinced that every farm leased will produce oil, against being too hasty in making wildcat leases, against under-balanced taxes on leases, leases and royalties. "You in Vicksburg have a 'natural' right on the Mississippi," he advised, "for you have an easy outlet to the sea and an easy inlet to cities between here and Chicago."

Col. Barton said he hoped that the oil development would be on such a scale eventually that the Lion Oil Company would be justified in establishing a refinery here.

Thus another head of a large refinery points out the favorable position Vicksburg occupies to become the oil refining metropolis of Mississippi if the Yazoo field proves to be of major capacity.

That impending legislation governing the oil industry will perhaps play the major role in orderly development of the state's oil resources seems obvious.

Just now the issue of "spacing rules" for oil wells is a live one. Some advocate no rules at all. But it seems obvious that this would in the end prove disastrous in orderly development. Unless some such law is enacted it seems that anyone who desired could set up a drilling rig and start operations on the smallest tract of land he could lease.

This would develop areas quickly but not properly. "Booms" would be likely to materialize and just as quickly "fade." Some areas would be overproducer while the area remained undeveloped. When conditions leveled off in a solid basis there would be a deflation of business all along the line for the community.

Col. Barton pointed out that El Dorado experienced an early boom. The population of El Dorado grew to 16,000, and then rapidly dwindled to about 3,000. During that time, however, business conditions in the city were uncertain. He said that a "boom" in an oil area is certainly undesirable.

Gov. Johnson gave assurance in his inaugural address that any actual proration law was far in the distance. That was a matter that would have to wait the production of oil on a very large scale.

But there is another side to this. Does paying money for a wildcat lease fix the value of the land when the lease is nothing more than a gamble? In commenting on this question raised by the governor's proposal, the Yazoo City Herald said:

"Is the intrinsic value of a given 80 acres of land increased because money was paid for the right to explore for oil, which may or may not be beneath that ground?"

"Is the value of Mr. A's 80 acres of land increased to $10 an acre from $2.50 because Mr. A leased his land for $1 an acre to Mr. B, who sells the lease the next day for $10 an acre? Who is to pay the tax bill then?"

"And will Mr. A have to pay taxes on his mineral rights that he has leased and his neighbors pay nothing because they have not leased? In either event, who will set the value of his neighbors' lease, and what yardstick will be used?"

"Finally, how is the assessor, or anyone else, to find out how much a given 2,000 acre tract was leased for when it appears on the county records as 110 for the whole thing?"

"These questions and others will have to be answered before a tax on potential oil lands, not already in production, can be determined."

"With such things in mind, Dave S. Shackelford, Yazoo county assessor, asked for information from tax authorities in Arkansas and Louisiana oil-producing areas. He was told, he said, that assessments usually are not raised on non-producing lands, but that, only slight difficulties are brought about by higher assessments on producing tracts, so no one can deny the value has been increased."
O'Brien's Stevens C-2 Well Flows 104 Barrels Hour On 30-64 Choke Last Night

113 Carloads Oil Out In Four Days

Crude Shipment To Total Of 788 Cars: Standard To Continue

Up to noon today, 788 carloads of Yazoo county oil had been shipped to the Standard Oil refinery at Baton Rouge, according to Y. & M. V. officials here. This makes a total of 113 cars shipped during the past four days, or approximately 5,085 barrels.

It was pointed out that this means, roughly, $835 to owners of royalty on Yazoo county lands.

Although Standard Oil indicated at the first of January it would accept no more oil from the Yazoo field after Feb. 1, it was reported authoritatively today an extension of time has been granted to March 30-64 Choke Last Night

The deadline may be forgotten when the probable erection of a huge refinery at Lake Charles, La., by Standard Oil indicated they prefer Eutaw production, up to now more successful than rival of other cars, is expected to increase production here for the next week.

The No. 6 Woodruff by Union Producing Company of the SW1/4 of Sec. 13-10-3w. offsetting to the Johnston Brumfield No. B, Tinsley Field, was in shale, black shale and sandstone at 3,000 feet. Finally it missed the shale, and the blowout was stopped at 3,000 feet. The No. 6 Woodruff by Union Producing Company was at 2,940 feet before noon this morning. After leaving this well it planned for the Slick estate, the black shale being reached today. The Slick well would be in the SW1/4 of the SW1/4 of Sec. 1-4-3w. It was reported by T. B. Slick, Jr., to be back in Yazoo county by Feb. 15 to deepen the No. 1 Atkinson well in Sec. 1-10-3w. it was reported this afternoon. After leaving this well it seems likely, according to a usual reliable source, that he would drill an offset on the Slick estate, but officials have indicated they would not push this well.

Hassie Hunt Brings In New Well Field's Eighteenth Producer: Horizon Widening

Guaged at a 104-barrel an hour clip through a 30-64 choke last night, the Jennie Stevens C-1 of Jones-O'Brien, brought in yesterday afternoon sent the slack of the Yazoo county oil field to a new, all-time high. Coming from 23 feet of sand topped at 4729 feet, production was at a pressure of 385 pounds on both tubing and casing.

The test on this, the 17th producer of the field, shows it to be a 2,000-barrel per day well, by far the best of the field. As one oil man expressed it this morning, "it would be a good well in East Texas." It offset the E. C. Johnston No. 1 Brumfield to the south and in the NE1/4 of the NE1/4 of Sec. 1-9-3w.

Brought in for the 18th well of the field this morning was the No. 4 Steves B-l of Hassie Hunt. In the NE1/4 of the SW1/4 of Sec. 15-3w. in the center of production, drilling is under way again at the No. 3 Brumfield, which was brought in last night and was being erected on a new, all-time high.

A new rig came into the field last night and was being erected on the No. 1 Robertson site of Whigate Oil Company in the SW1/4 of Sec. 20-10-2w, two miles southeast of current production. Whigate is a Jackson corporation and owner of the derrick could not be determined immediately.

E. C. Johnson, whose producer, the No. 1 Brumfield is flowing at a 450-barrel a day rate, under a close choke because of limited storage space, is erecting a rig for the No. 2 well, offsetting his producer to the west and situated in the SW1/4 of the SE1/4 of Sec. 1-10-3w. Operations will get under way immediately, Johnson indicated.

After a delay of two weeks caused by extreme weather conditions, drilling is under way again in the Hill-Mill Dent-Kinkaid wildcard in Sec. 31-2-3w. Bottom of the hole, this afternoon, was just short of 1,000 feet. Drilling will go ahead without further delay, the operators said.

Building derricks were Hassie Hunt, for the No. 2 Ida Fair, in the SE1/4 of the SW1/4 of Sec. 12-10-3w., and Jones-O'Brien for the No. C-1 Jennie Stevens in the SE1/4 of Sec. 11-10-3w.

Union Producing Company's Brumfield No. 3 in the NW1/4 of Sec. 24-10-3w. was in shale, lignite and sandstone at 208 feet this morning.

A new location made known are the No. 6 Woodruff by Union Producing Co., in the SW1/4 of the NW1/4 of Sec. 25-10-3w., offsetting to the south the No. 1 Jennie Stevens of the same farm; the No. 10 Stevens, centering the NW1/4 of the SW1/4 of Sec. 12-10-3w., and the No. 11 Stevens center of the SW1/4 of the SE1/4 of the same section.
Mass Meeting Is Hampered By Mud At Tinsley Sunday

Several Hundred In Attendance Despite Rain; Speeches Later, Says B. E. Grantham

Despite bad weather and worse road conditions, several hundred persons, residents of the Tinsley area and others, attended the mass meeting at Tinsley Sunday. Formality was at a minimum, with everyone having a good time just talking.

Dr. Wm. C. Morse, state geologist, discussed events leading to the bringing in of the first producing oil well in Mississippi on land owned by Green C. Woodruff, long-time resident of the community, who was unable to be present on account of illness. Arrangements were handled by B. E. Grantham, secretary of the Tinsley Betterment association.

Dr. Morse, presented to the meeting by K. S. Foster, secretary of the Yazoo County Chamber of Commerce, gave credit to Fredric F. Mellen, young geologist who first pointed to the Tinsley area as a potential oil-producing area. Mellen declined to speak.

Because of bad roads and weather conditions, Hon. J. F. Barbour, Yazoo City attorney, and State Senator Henry George Warren were advised by Secretary Grantham that their part of the meeting was postponed to a more favorable date. Barbour was expected to express views of Governor Paul B. Johnson on oil legislation, and Senator Warren had announced he would make a vigorous attack on proration, or any other form of restriction.

It was said today that plans for a discussion of proration, spacing and general petroleum legislation will be set for a later date, with Mr. Barbour and Senator Warren slated to lead the discussion.

Many Calls Made By Oil Field Workers For Apartments

From Six To Ten New Families Would Move Here If They Could Find Accommodations

Pointing to a number of calls made yesterday at the Yazoo County Chamber of Commerce office as indicative of a potential increase in the number of new families for Yazoo City, Vice-President Nathan Ostrov remarked cryptically this morning, "If people of Yazoo City propose to take advantage of the oil situation, it is up to them.

"Several families whose heads work in the Yazoo County oil field are living in Jackson now, but would move here if we could satisfy their needs for apartments," he went on. "Digging into a list on his desk, Mr. Ostrov produced the following three instances in examples of the need for apartments there:

J. B. Lumm and his family now are living in Jackson and working for the Union Producing Co. in the production end of the Yazoo oil field. They need a two-bedroom, unfurnished apartment or house. In the list, Mr. Ostrov produced the following two instances in examples of the need for apartments here:

Cleo Williamson is living in Jackson and needs an apartment here. He, like Lum, works for Union Producing Co. He needs two bedrooms.

Howard E. Richardson, 311 Millsaps avenue, Jackson, needs a two-bedroom unfurnished apartment.

"These men," said Mr. Ostrov, "undoubtedly will be in this area for the next four to six years. With 20 oil wells in production now, several of these belonging to the Union Producing Co., there is little doubt of their services being needed."

According to records on file at the Chamber of Commerce office, six to ten new families could be placed now in one- and two-bedroom apartments, but none are to be had.

"It is up to the property owners of the city to see that something is done now," the well-known Yazoo City merchant continued, "to determine the future of Yazoo City."
TINSLEY FIELD

DAILY CLARION LEDGER, JACKSON, MISS., WEDNESDAY MORNING, APRIL 17, 1940

- the field is at practically the same depth.

3W. is drilling at 3,000 feet and Slick-Urschell Oil Go's No. 3 Slick, test. 4897 to 4919 feet, The test is WOC of the field. NE 1-4. SE 1-4, Sec. 2-10N-1W. Both wells showed for production in the Woodruff sand at 4000-4600 feet, where the bottom is about 200 feet low, being on the downthrow of the north edge fault.

A quarter mile west extension of the field is looked for at Union's No. 1 Rose NW4 of NW4, Section 15-2W, which is drilling at 2016 feet after running 653 feet of 10 3/4 Inch casing.

Hassie Hunt owns the 80-acre lease east of this test and south of Union's No. 1 and No. 2 Berries completions, and has announced location for his No. 1 Shan-non, east half of SW quarter, Section 14. Union ran tubing, with cement retainer set at 4782 and is waiting on Halliburton cement machine.

At the troublesome Stev ena No. 1, Union ran tubing with cement retainer set at 4782 and is waiting on Halliburton cement machine. A drill stem test, with tool set at 4782, recovered 3613 feet of salt water and 375 feet of oil, with 4 3/4 choke, top and bottom, open four hours. Pressure remained at zero for 15 minutes but was built up to 4000 at the bottom of the hole.

The Woodruff No. 6, which made five barrels in six hours Monday, is shut down to watch over, with rods and tubing being pulled. This was one of the first producers to be equipped with a pump.

Humphreys County

Fohs-Oil Co-Loffland Bros. No. 1 Holiday, northeast of Louk in Humphreys county, will be cored, the cement plugs are being pulled. A squeeze job is in progress at the No. A 1-4, where Stevens sand in the Eutaw was logged at 4903 to 4913 feet. The test is WOC at 4901, Union has a derrick on this No. 1, Cull Cessna, BW 1-4, Sec. 15-2N-3W, an east test.

Edgar Johnson's B-2 Brumfield, NE 1-4, RE 1-4, Sec. 2-10N-3W, is drilling at 3,000 feet and Stick-Drake Oil Co No. 2 Black, a quarter mile north of the edge of the field is at practically the same depth.

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TINSLEY TO GET
60TH OIL WELL

Test Successful at Union Producing Company's No. 11 Stevens

The sixtieth producer for Tinsley field boomed yesterday when Union Producing Company made a successful drill stem test on their No. 11 Stevens in the southeast quarter of the northeast section 1, which they set at 4900 feet and with 8-3/4 inch chokes, top and bottom.

It was opened for 16 minutes and built up 13 pounds of pressure. Recovery was 2166 feet of oil. The hole was tested to 9800 feet and casing cemented to 9800 feet.

Union spudded two new tests this week, the No. 2 Cussins, north of the No. 1 Cusins completion, in the SW SW of section 13, and the No. 1 Twinner, in the northeast corner of the northeast quarter of section 1. Both tests have cemented to 16 inches.

Production of Union's latest completion, the No. 11 Stevens, in the northeast corner of section 13, was 24 barrels on a 4-hour gauge, with 10 pounds on the casing and none on the tubing. The daily gauge yesterday was 417 barrels on a 26-64 choke. Union is moving in a derrick at the No. 3 Partridge, east of the No. 1 completion, in the southeast corner of the southeast quarter in section 1. The No. 5 Twinner, No. 6 Stevens, and No. 5 Perry are still locations.

Wesley Hens has completed his No. 4 A. O. Johnson in the SW of the SW in section 14, an estimated 150 barrels daily flow. A derrick has been fastened on Hens' No. 2 Lammon, in the southeast quarter of the northeast corner of section 1, northeast of Union's No. 3 Twinner completion and the crew will rig up tomorrow.

Stick-Urschel Oil Company is drilling at 4900 feet at the No. 7 Slick in the SW of the SW in section 36.

New Hinds Test Spuds Thursday

J. F. Prlain and Harvey Robinson spudded in yesterday at their No. 1 Alford, SW corner, SW NW section 18-5n-1e, Hinds county, and expect to set surface pipe today. E. R. Owen of Jackson is the driller for the contract.

Arrangements had been completed earlier in the week to launch the new test Thursday. The schedule was followed in spite of the drizzling rain that fell during the test.

The test is about four miles from Jackson, and is just outside the Wayne-Wife area of the Hinds-Nankin gas field. It is probably that the test will have gas showings at about 1200 feet, but unless gas is in productive volume, it is likely operators will carry the drill deeper in search of oil.

This is the only current test in Hinds county, although Mrs. S. O. Thompson has staked location for No. 2 Aichiings No. 1 in section 31-5n-1w. The most recent test in Hinds county was at Tatum, Dunder and Shaddock-royal Oil and Gas Company's No. 1 Hinds Junior College, abandoned last month.

New Wayne Location

Wayne county got its second new location in two days yesterday when the Tri-County Oil Company of Wardenboro spacked a No. 1 Jones, C NE NW section 35-5n-7w. This location is on a block which is carried in the name of Hughes Drilling Company of Atlantic, Texas.

Wednesday it was learned here that R. W. Dunn, jr., and Otto Graham were completing arrangements to drill in section 35-5n-7w.

New Leflore Location

L. Martin is still waiting on completion of a well.

Leon Dunn has spudded in his new No. 3 Partridge, section 26-12n-5e, and has set 600 feet of 9 5-8 inch surface casing.
78th Producer In
Prospect Today For
Yazoo Oil Fields

Twiner No. 5 and 23-5
Of Brumfield
Casing.

The Newest Producers

Yazoo County's 78th producing oil well was in prospect today. With this latest development and the purely wildcat operations previously entered upon, Yazoo is reaching out for a larger output and production in the Tinsley oil field.

Two wells were cased in the Tinsley area today. One, the No. 6 Wilmour, was at 4000 feet. Rowan, Hope & Thomp- son, drilling the No. 6 Wilmour, reached a half-mile south of production in Sec. 8-11n-3w, was at 4750 feet drilling.

In the Vaughan field, the crowd of producers remained at par, a drill-stem test hole had reached the No. 8 Wilson of King exchange was unsuccessful. The well was an attempt to reach the Woodruff sand, hole to test the Woodruff sand reached at 1302. E. C. Johnston meanwhile prepared to bring in his Tinsley dome, the No. 7 Woodruff sand reached at 1052. Hassie Huff still had the No. 1 Lammers No. 1 on his list, although it did not make a hole to test the Woodruff sand. The hole was made at 4222 feet.

A series of musical salutes to the Mississippi Oil Exposition was started Sunday night, June 19, over radio station WMC, Memphis. The exposition, to be staged here August 21 and 29, has the radio recognition through the courtesy of the convention bureau of the Memphis Chamber of Commerce. Time of the weekly program is 700 p. m. (Yazoo City time) every Saturday. Mack Rae, familiar as maestro of the Memphis Blues orchestra, and as producer of the program, said attention of the entire Middle South area will be called to Yazoo City's celebration in the next broad-casts.

Private signals are made up of musicians who formerly were with "name" bands, but who now are making their homes in Memphis, devoting their time toward boosting their home town and playing dance engagements in and near Memphis. It is well known to many Mississippians who have attended conventions in Memphis.
YAZOO CITY, Aug. 26—Governor Johnson today will head a list of distinguished officials and businessmen as Yazoo City opens its two-day oil exposition.

At the Exposition offices, Governor Paul Johnson today will head a list of distinguished officials and businessmen as Yazoo City opens its two-day oil exposition.

The plans for a comprehensive tour of the Tinsley Oil Field are complete for both days of the exposition, Wednesday and Thursday, and it was announced today. In addition to having representatives of the several producing companies accompanying the tour to explain details of operations, Yorkeider C. Motion, discoverer of the Tinsley Dome, has also been requested to make the trip to outline geological phrases of exploration and development.

The tour will assemble in front of the Yazoo Theatre, where space has been arranged, leaving at 1:30 p.m. each day, and will include the following in the order named: Slick-Urschel's facilities at Valier, Hassle Hunt's leases and wells and in operation west of Tulsian, the Discover Well, Jones-O'Brien loading rack and offices, Magnolia Petroleum Co., and Tulsian, including Union Producing Co.'s offices and facilities. Union's pool will No. 1, well and 2, important development wells and offices. Important developments may call for additional stops.

This has been arranged to have school buses available for those who have automobiles or who prefer not to drive their own cars. A nominal charge is to help defray expense for each bus. The tour will be about 35 miles in length and require from two to three hours.

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Charles, Miss Jeanne Lowrey with T. M. Dixon; Miss Catherine Olden with Calvin Shublisfield; Miss Claire Bennett with Rulaje Jallarre, Miss Charlie Masa Fisher with Gene Dixon; Miss Mary Allison with Fred Simmons; Miss Sally Williams with Rick Roberts.

Train bearers will be the Junior King and Queen, Joe Elliott and Jean McGraw.

The Junior King and Queen will be crowned at 6:30 p.m., that evening at the fair grounds and a special state and the children will be dressed in colored pastel. Mr. and Miss, of Oxford, is making up the stage and background.

Mayor Lowrey will crown the king and queen and Fred Grantham, Jr, is master of ceremonies. Children in the court will be Marie Clark and Jack Desel, who will carry the crowns; Bille Vandevere and Ann Brickenk, of Eden, Louise Strickland and John Anston, of Benton; Lamar Peyton, at Ander; Mary Ann Curtis, Rob Coker, Judy Grantham, all of Yazoo City; and Charles Nichols and Sue Virginia Knox, of Vicksburg.

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Later Development

The pages reprinted from the area newspapers have shown how the Tinsley Field developed rapidly. More and more wells were brought in until in 1941 there were 322 producing wells in the Field. Development of the Field showed the Tinsley structure to be a high-relief faulted dome, probably overlying a deep-seated salt structure. Plate 1 shows the surface configuration of the Field and the property owners along with a structure map with the datum the base of the Woodruff sand, the most prolific producer in the Field. Production was established in the Field from seven Upper Cretaceous sands (Plate 2), and it is from these sands that the great majority of production has come. These sands are developed in the "gas rock" section, and production is controlled both by faulting and varying sand characteristics. Plate 3 is a cross section showing these sand characteristics in a portion of the Field. The location of the cross section is shown on Plate 1.

Some sour gas and condensate was tested from the Smackover Formation of Jurassic age and other encouraging shows have been encountered in this deep formation giving promise of future development. It should be noted that no giant field such as Tinsley has ever been abandoned in this Country, and that deep production has been established in most of these fields. Discoveries in the last few years in the area north of Tinsley Field have been promising and certainly Tinsley needs further evaluation and exploration for deep production possibilities.

The Tinsley Field has produced 193,413,727 barrels of oil through January 1, 1974, according to figures furnished by the Mississippi State Oil and Gas Board. Production by years and cumulative production is shown on Figure 4.
TINSLEY FIELD
YAZOO COUNTY, MISSISSIPPI
TOTAL PRODUCTION - ALL OPERATORS

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<tr>
<th>Year</th>
<th>Oil</th>
<th>Water</th>
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<td>1973</td>
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TOTAL 193,413,727 394,157,319

* Perry Sand, North Segment
** McGraw Sand, North Segment - Stevens Sand, North Segment
*** Perry Woodruff, West Segment - Perry Sand, West Segment - Woodruff Sand, West Segment
**** Woodruff Sand, North Segment

Figure 4 - Production from Tinsley Field.
A refinery was established by the Southland Oil Company to process Tinsley crude. This refinery is located at Crupp Station, Mississippi, and is still in operation. In March 1974, this refinery processed 94,578 barrels of oil. Another refinery was constructed by Edgar Johnson, who built a plant in Vicksburg. This refinery never operated as such, although for a time it was used as a storage facility for oil. Sohio Petroleum Company constructed a pipeline from Tinsley Field to the Mississippi River near Mayersville. This pipeline transported crude to the river where it was loaded on barges and shipped to refineries in Indiana and Ohio. This pipeline presently connects with the Mid-Valley pipeline at Mayersville.

During World War II when oil shortages threatened, Tinsley Field answered the call and during April 1942 delivered 2,600,000 barrels of oil, a daily average of 87,000 barrels. Production declined in the late 60's, but in 1969 secondary recovery was initiated by Pennzoil United at the Tinsley Field in the form of a water flood in the north segment (Figure 5). Pennzoil United estimates that the secondary flood will continue for some fourteen years. This program has been quite successful, with the rise in production being shown in 1970 through 1973 in Figure 4. The success of this program has caused company officials to consider tertiary and even quaternary programs for the giant field. An ultimate production of over 250 million barrels is a good possibility, and as it approaches 200 million barrels, Tinsley is the largest oil field in the southeast. It seems certain as Tinsley celebrates her 35th birthday that she will most assuredly celebrate her 50th and beyond.
Figure 5 - Penzoil United water flood equipment for secondary recovery. (Photo by Penzoil United)
When the Tinsley oil field was discovered in August of 1939 Mississippians, and Yazooans in particular, thought at last Mississippi would mushroom in development as did Oklahoma and parts of Texas and Louisiana.

The Tinsley strike did produce a "boomlet" but as it turned out all the grandiose dreams and schemes never materialized. Talk of Yazoo City's becoming the "oil capital" of the states also proved out to be just talk.

Today the typical Yazooan is hardly aware of the huge Tinsley oil field and Oil City which sprang into being over 30 years ago has the appearance of just another rural crossroads community.

There are no visible signs of the streets and commercial buildings and developments that Oil City promoters had plotted and sold to optimistic business interests and speculators. Tinsley has the Pennzoil offices and yard but that's about all, aside from the numerous work-over type rigs visible from the town.

Nevertheless, the oil industry is a very significant one for Yazoo County's economy. In spite of all the discoveries over the past 34 years elsewhere in the state, no field has caught up with the total production taken from the prolific Tinsley Field. Latest figures from the State Oil & Gas Board show a total production of 193,413,727 barrels of oil and an annual production rate of 3,053,706 barrels from the several producing zones.

Today there are several oil service companies and a half dozen producing companies employing approximately 100 persons who look after their producing wells in Tinsley. The major operator is Pennzoil company which acquired Union Producing Company in the latter part of 1960's. The Union Producing Company is the exploratory division of United Gas Corporation of Monroe, La., which on Monday, August 28, 1939 brought in the No. 1 Green Woodruff dis-

*Editor - Yazoo City Herald, Yazoo City, Mississippi
covery well at Tinsley. At one time Union operated 77 producing wells.

In 1939 the section around Tinsley was one of the poorest of the hill sections of Yazoo. Other than the old Jackson highway, the hills of southern Yazoo County had very few roads and most of them were unimproved—not even to the extent of gravel. Some of the early oil company personnel and speculators had to resort to horseback and muleback to contact the settlers about their land rights.

In Yazoo City today other than the headquarters of the Southland Oil Company, there are no signs of the billion dollar oil industry that is benefiting Yazoo County.

In 1940 the Southland Company erected a small oil refinery at Crupp seven miles southeast of Yazoo City near the Illinois Central railroad company freight line cuts through the hills by Tinsley and on to Jackson. The plant is still operating today, producing mainly asphalt.

Besides the obvious advantage of the salary payrolls of the Southland Company, which still operates its asphalt facilities at Crupp, and the few oil well service companies, Yazooans are also enjoying a sizable share of the state oil and gas severance tax collections each year.

Last year (fiscal 1972-73) the county's treasury was enriched by $119,116.12 as its pro rata share of the tax collected on Yazoo County oil production. In addition the common school fund of Yazoo County received $96,440.

Knowledgable observers of County government say the oil severance tax has enabled Yazoo County, despite its rugged topography, to have a much better than average system of hardsurfaced farm-to-market roads.

Less visible but of considerable importance are the royalty payment to Yazooan landowners and the leasing of mineral rights. Tens of thousands of acres are under lease and most of it has been under lease continuously since the early days of the "boom."

Seismic surveying, leasing and exploratory drilling
have been continuous in Yazoo County.

So far deep oil production, such as from the Smackover formation, has not been found, but the search continues and oil money circulates in the local economy, quietly but significantly.

Every now and then excitement and "oil boom town dreams" are re-kindled with the announcement of a good showing of oil and gas in a wildcat venture. This nearly always sets off a flurry of leasing activity and a royalty "play" by speculators, both local and outsiders.

Certainly, the oil industry is an important part of the basic economy of Yazoo County and will continue to be. Not many Yazooans realize the significance of the mammoth Tinsley Field which in pre-Arab oil embargo days had an estimated, ultimate economic value well in excess of a billion dollars. Now that oil is selling for up to $10 dollars a barrel, the ultimate monetary value under the ground at Tinsley has increased enormously.

Yazoo City experienced a great deal of excitement and the chaos of the early days as the center of the beginning oil industry in the state. Adding greatly to the dreams of an oil boom was the discovery in the spring of 1940 of the Pickens Field in eastern Yazoo County. However, Pickens was not another Tinsley. Nevertheless, it had at one time 44 producing wells.

In nearly three and one half decades Yazoo City has often been in the limelight in oil field development. Seismic crews have traversed the country side, often with as many as three or four crews operating at once.

At latest count 187 exploratory wells have been drilled and abandoned. Several more "dry holes" are added each year. Besides Tinsley and Pickens other producing fields in the county are the Bentonia Field and the Satartia Field.

Backing up to 1939-40 legend has it that at one time Union Producing Company entertained the idea of erecting
a seven story office building in Yazoo City.

The legend also says that indifference and subtle resistance by Yazoo business interests caused Union Producing to decide to locate its headquarters in Jackson.

Did Yazooans fumble their opportunity to become a major Mississippi city and the state's oil center?

The following excerpts from a prize-winning paper, written by Deery Mott and published in the fourth annual edition of the Mississippi Junior Historian, April 1966, affiliated with the Mississippi Historical Society, seem to give the answer:

"But aside from a handful of oil servicing firms and the Southland Oil Company's small refinery, there are not many signs of those exciting great expectations that were in everyone's mind as 1939 drew to a close.

It's significant that the annual membership meeting and banquet of the Yazoo County Chamber of Commerce held at the end of December that year 1939 had for its program a formal debate.

Two prominent local attorneys, Henry George Warren and John Sharp Holmes, debated the question: "resolved that the citizens of Yazoo City have slept on their rights and have not taken advantage of the good fortune thrust upon them through the discovery of oil on August 29, 1939."

Federal census figures show that Yazoo City in 1940 had 7,258 people — a gain over 1930's total of 5,579. In 1950 the population hit 9,746, in 1960 it's listed as 11,236, (and in 1970, 11,888).

History seems to have proved the affirmative side of the debate."
Epilogue

Tinsley Field was discovered as a result of the application of the basic principles of geology in a project not specifically directed to oil and gas exploration. The follow-up development of the field utilized much of today's sophisticated petroleum technology. Most of the giant fields in this Country may have been found, and the set of circumstances which led to the Tinsley discovery may not present themselves again. While the possibility may be small, that is what makes the oil industry exciting; the one faint hope that even now another young geologist may be approaching that anomalous outcrop whose discovery may lead to another Tinsley.

Acknowledgments

The Mississippi Geological Survey expresses its appreciation to Pennzoil United for their assistance in assembling material for this publication and, in particular, the help of Murphy F. Shelton, Production Geologist in the Shreveport office of Pennzoil United. The Survey is also appreciative of the help of the Mississippi State Oil and Gas Board in preparing production data. We would like to thank Mr. Frederic F. Mellen for the use of material from his files. We would also like to express appreciation to the many geologists, engineers, drillers, land owners, and newspaper reporters for their part in the Tinsley story. We would especially like to recognize Mr. Norman A. Mott, Editor of the Yazoo City Herald, for his contribution to this bulletin. Our thanks also go to the Works Progress Administration, the Yazoo County Chamber of Commerce, and the Board of Supervisors for their help in the initiation of the mineral survey in Yazoo County.