

FAULT MAP OF SOUTH LOUISIANA

W. E. Wallace,¹ Editor

The map which accompanies this publication is the current version of a series which commenced in 1943. At that time, the writer was completing a dissertation entitled, "A Study of Deep-Seated Domes of South Louisiana." The dominant faulting of about thirty oil and gas fields was drafted on a base map for study. The various orientations presented no readily understandable pattern at that time. This map contained original work on the following fields:

Abbeville	LaFitte
Barataria	Lake Long
Bayou Sale-Horseshoe Bayou	North Crowley
Bateman Lake	Paradis
Bosco	Quarantine Bay
Erath	Raceland
Gibson	Roanoke
Gillis-English Bayou	Sweet Lake
Grand Bay	Tepetate
Iowa	West Gueydan
	Woodlawn

Much of this dissertation appeared in a paper in the Bulletin of the A.A.P.G. of September, 1944.

In 1949, the author assembled another such map with the help of F. B. Stein, Lloyd Traupe, and many others. This was presented at the geological meeting in Biloxi, Mississippi, in October, 1949. The paper was entitled "Deep-Seated Domes of South Louisiana, a Regional Interpretation" and included field structure maps of the following:

Arnaudville	Raceland
Bon Air	South Jennings
Iota	South Roanoke (now Lake Arthur)

This paper was never available in published form.

At the Corpus Christi regional meeting of November, 1952, a third map was presented. This was published in its original size in the transactions together with a brief comment on faulting. On this map, an attempt was made to show hypothetical rim synclines around all of the pierce-

ment domes. More information on these has become available indicating great variations in the position of the synclines relative to the salt stock. In the 1957 map, these have been omitted.

Again the author wishes to present a fault map for a better overall view of the fault patterns. Friends and members of the staff have been asked to supply a large part of the data. As usual, it has been necessary to compromise on the data left on the base map. Pipelines, towns, parish names, and many other details have been omitted. The base was taken from the Oil and Gas Map of Louisiana published by the Louisiana Geological Survey in Baton Rouge, Louisiana, (Feb, 1956). Those who wish the oil and gas fields in color should obtain a copy from the Survey.

The new map only points up the complexity of faulting and the number of larger and smaller trends. No new theory is offered.

Bibliography

- Wallace, William E., "A Study of Deep-Seated Domes of South Louisiana." Ph. D. Dissertation, La. State University, 1943.
-, "Structure of South Louisiana Deep-Seated Domes," Bull. Amer. Assoc. Petrol. Geol., vol. 28, no. 9, (September, 1944, pp. 1259-1312).
-, "Deep-Seated Domes of South Louisiana, A Regional Interpretation," unpublished manuscript, Gulf Coast Geological Meeting, October, 1949.
-, "South Louisiana Fault Trends," Trans. Gulf Coast Assoc. Geol. Soc., 2nd Ann., (November, 1952), pp. 63-66, and map.
- Publications of the Amer. Assoc. Petrol. Geol.
- Publications of the Louisiana Geological Survey.
- Publications of the Soc. of Explor. Geophys.
- Publications of the Gulf Coast Assoc. of Geol. Soc.
- Testimony and Exhibits before the Department of Conservation, State of Louisiana.
- Unpublished fault data supplied by numerous associates in South Louisiana.

¹Forest Oil Corporation, Lafayette, Louisiana

