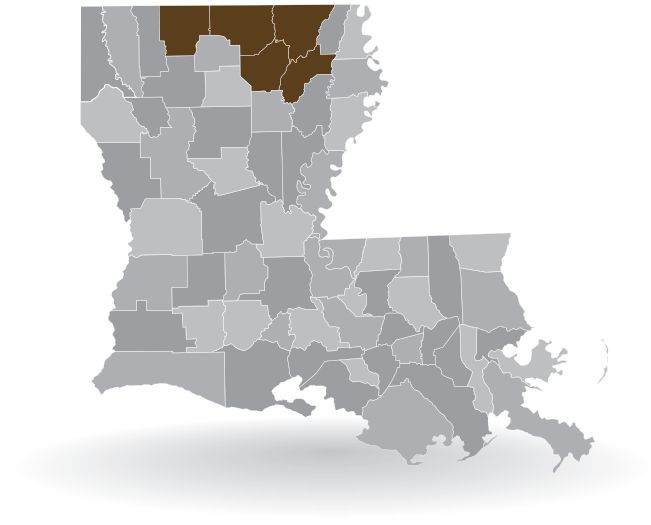


# BROWN DENSE

The Lower Smackover “Brown Dense” formation is an unconventional oil reservoir that underlies northern Claiborne, Union and Morehouse parishes, and includes parts of southern Arkansas. The Brown Dense is in very early stages of development.



Several companies have announced acquisitions of oil and gas leases in the developing “Brown Dense” shale formation. It has been estimated that the formation ranges in vertical depths from 8,000 to 11,000 feet.

The area that encompasses the “Brown Dense” has produced oil and gas resources from the Upper Smackover formation for over 90 years. It has been suggested that the “Brown Dense” formation is the source rock for these Upper Smackover reserves and could become a viable resource play with the utilization of modern drilling techniques.