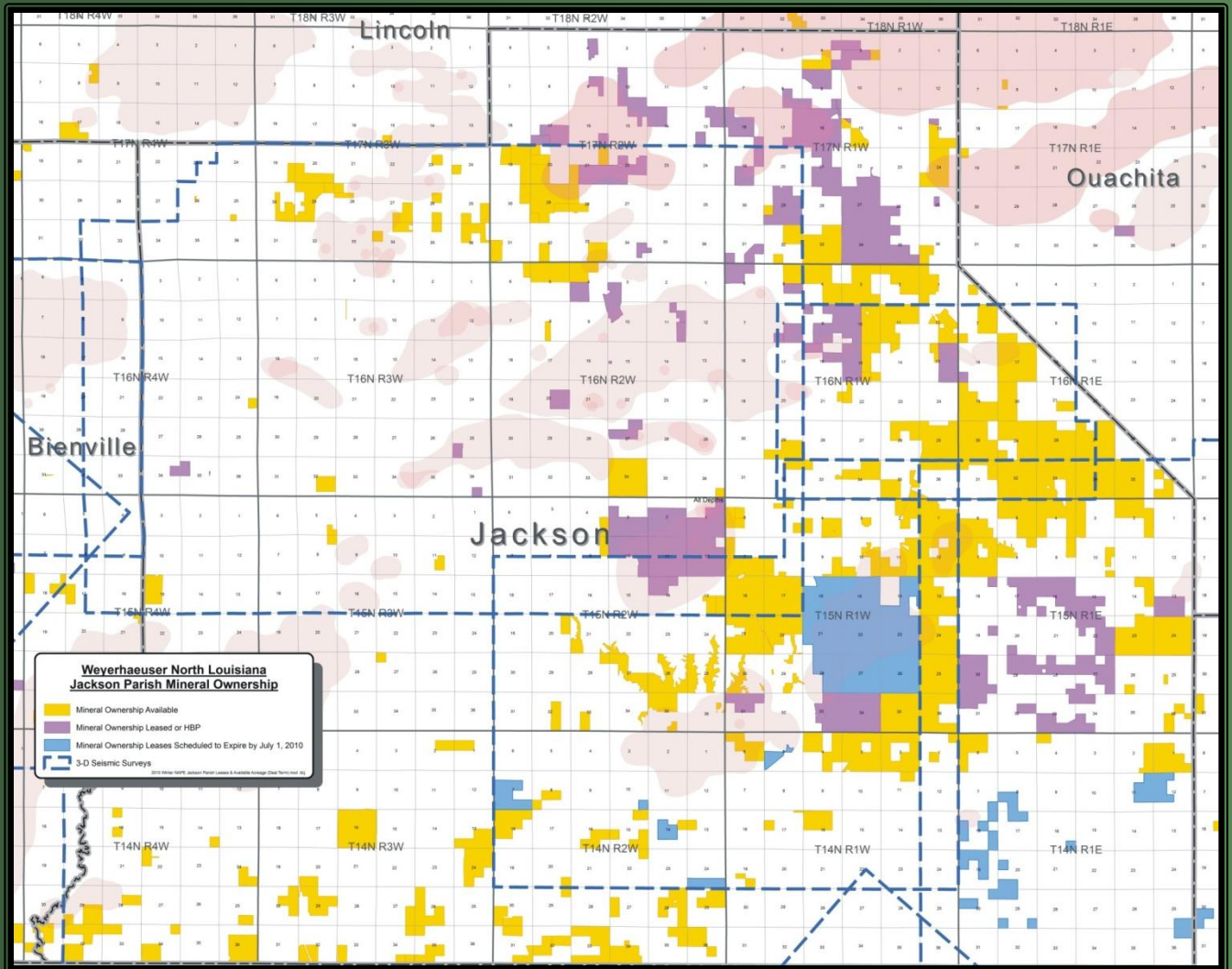




# Jackson Parish Trend Acreage North Louisiana



***Weyerhaeuser is soliciting lease offers for available acreage.***

This information is not intended to be and should not be interpreted to be an exclusive offer to your company. Unless and until an Option/Lease Agreement or binding letter of intent has been executed between your company and Weyerhaeuser, neither your company nor Weyerhaeuser will be under any legal obligation whatsoever to conclude a transaction. Weyerhaeuser reserves the right, at its sole discretion, to reject any and all offers and to terminate discussions concerning a potential transaction at any time without liability or obligation of any nature whatsoever.

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## **Executive Summary: Cotton Valley/Bossier Gas – Undeveloped Trend Acreage**

**Play Concept:** Mineral acreage in the producing trends around Vernon, Eros, Chatham & Clear Branch Fields

**Drill Depth:** 11,500 – 15,000' Ptd

**Reserve Potential:** Multiple TCFG

**Primary Reservoirs:** U. Cotton Valley “Terryville” Sandstones  
L. Cotton Valley Bossier Sandstones

**Secondary Reservoirs:** L. Cretaceous Carbonates (Rodessa, James, Sligo)  
L. Cretaceous Hosston Sandstones

### **Productive Analogs:**

Weyerhaeuser’s mineral acreage in Jackson Parish is within the producing Bossier trend at Vernon Field (2.2+ TCFG). Acreage is available to lease near the Devon #18-1 Spillers (Eros Field area) and Anadarko #11A-1 (S. Vernon Field area) wells. Both wells are producing from the L. Cotton Valley Bossier Sandstones. These wells flowed 5-6 MMCFGPD initially and have each produced 0.7 BCFG. Estimated ultimate recovery are 2-3 BCFG per well.

3D seismic data has been utilized to develop Vernon Field. Structurally, Vernon is a downthrown growth fault trap. The northern trapping fault was active during Bossier time and it acted as a locus of sandstone deposition. Most of the Bossier units at Vernon Field contain ten or more producing wells. Some of the producing units are being developed on 40-acre well spacing. The tight nature of the Bossier reservoirs requires closely spaced wells for effective drainage.

On Weyerhaeuser’s Jackson Parish minerals, only a handful of Bossier wells have been completed. Bossier production in the Devon #18-1 Spillers (Eros Field) and Anadarko #11A-1 (S. Vernon Field) wells point to the potential to find additional economic reserves in these two areas. Further south, Bossier gas shows have been encountered in five wells drilled along the Chatham – Clear Branch Field structure, indicating deeper potential beneath the productive L. Cretaceous (James, Hosston) reservoirs. All five wells pre-date the acquisition of the Caney Creek 3D Seismic Survey and were drilled along the crest of the field; which may have been a sediment by-pass zone during Bossier deposition. Downthrown fault traps (identified from 3D seismic) may have had greater potential to capture sands during Bossier deposition.

Upper Cotton Valley Group (“Terryville” Sandstones) production occurs across Weyerhaeuser’s Jackson Parish mineral block. This massive sandstone section has produced 0.5 - 4 BCFG/well in the Vernon, Eros and Clear Branch Field areas. Productive intervals are found throughout the Upper Cotton Valley sandstones and, to date, the utility of horizontal drilling in this interval has not been tested in Jackson Parish. Recent horizontal completions at Elm Grove Field (Bossier Pa., LA) and Carthage Field (Panola Co., TX) have initial potentials that are 5-8 times higher than vertical completions. Petrohawk recently completed a horizontal Upper Cotton Valley well at Elm Grove in for 16.5 MMCFGPD.