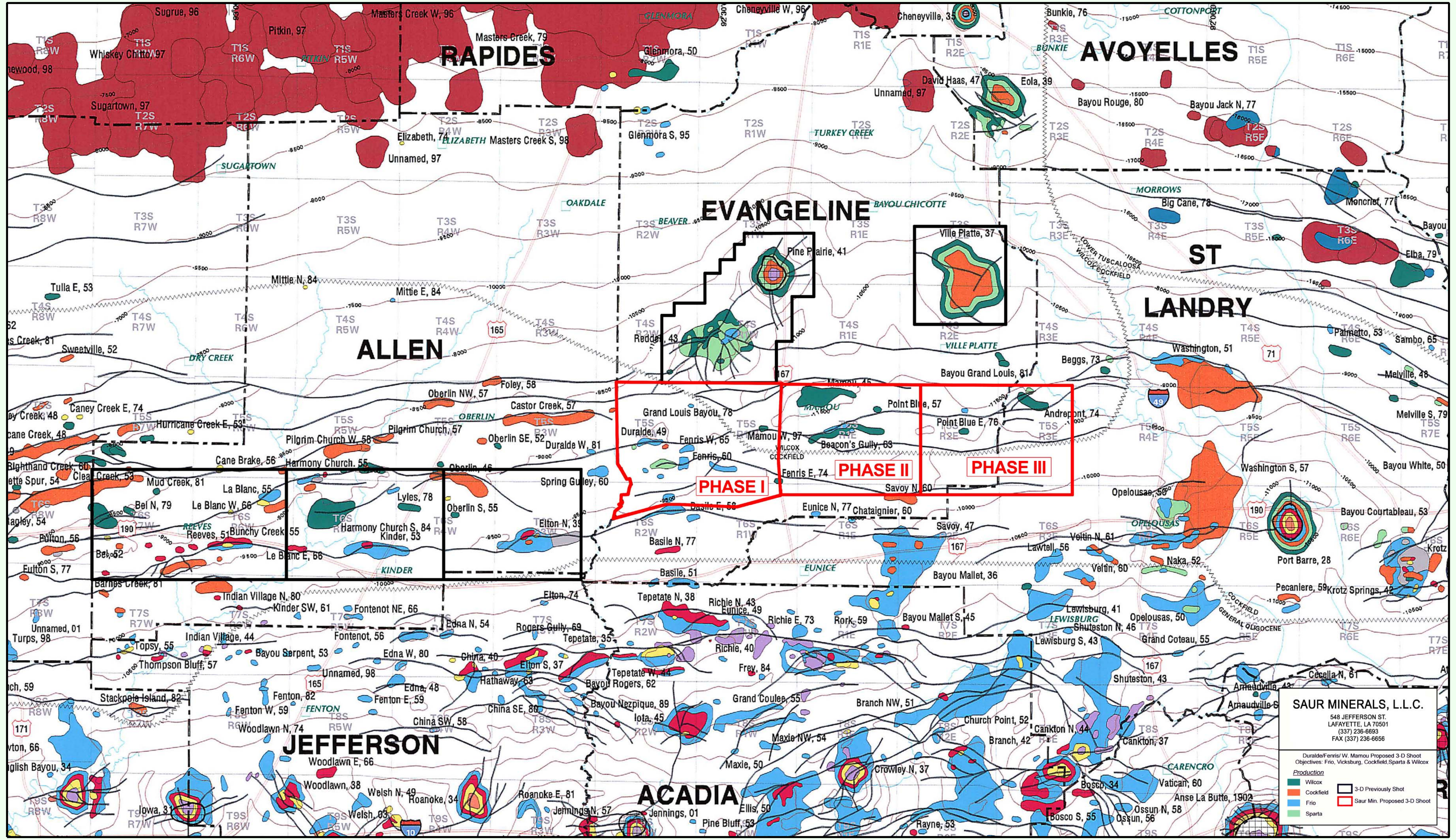
EVANGELINE PARISH 3-D MONTAGE



PHASE I

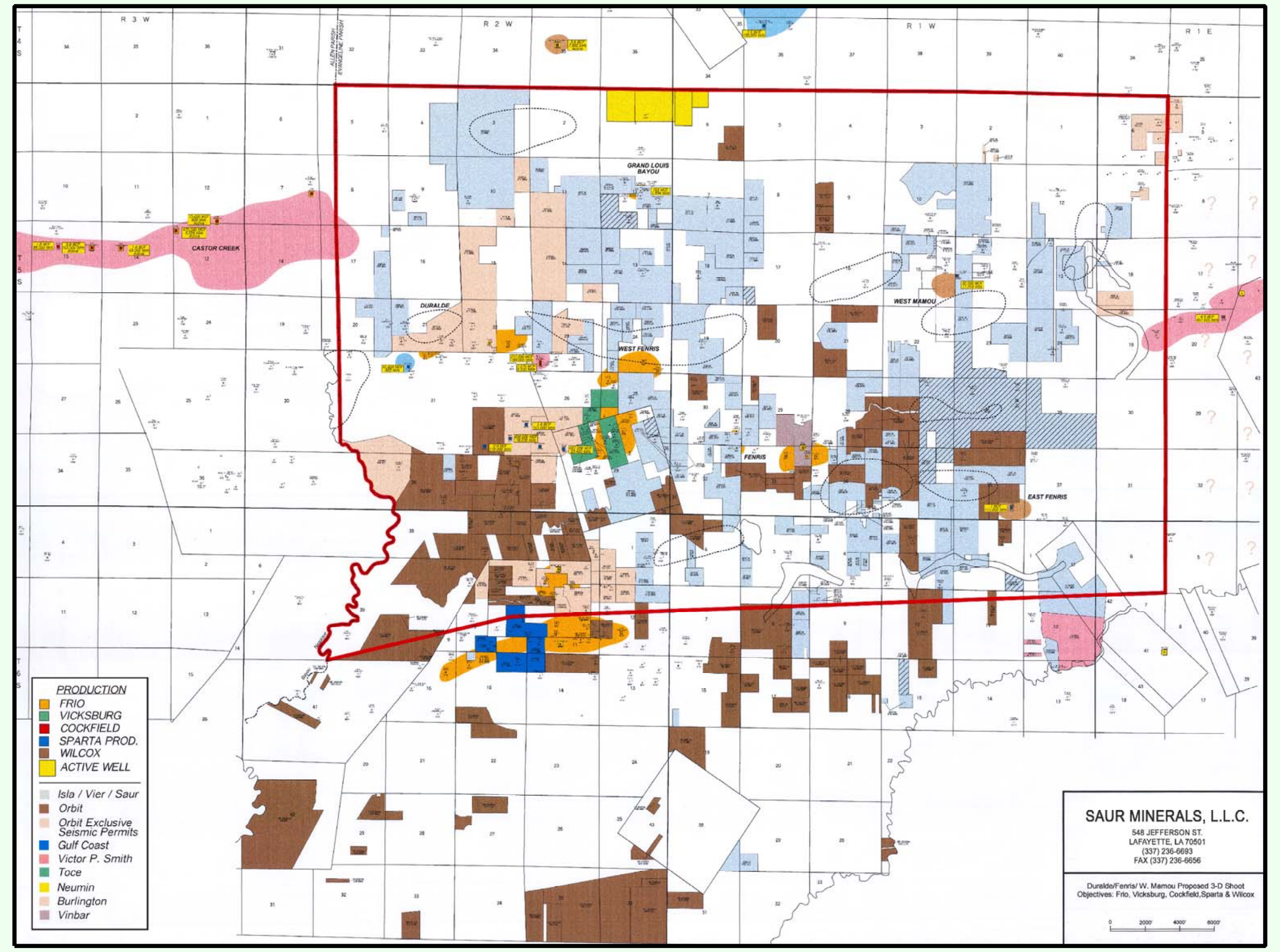
History of the Area - Production in Proximity Fields

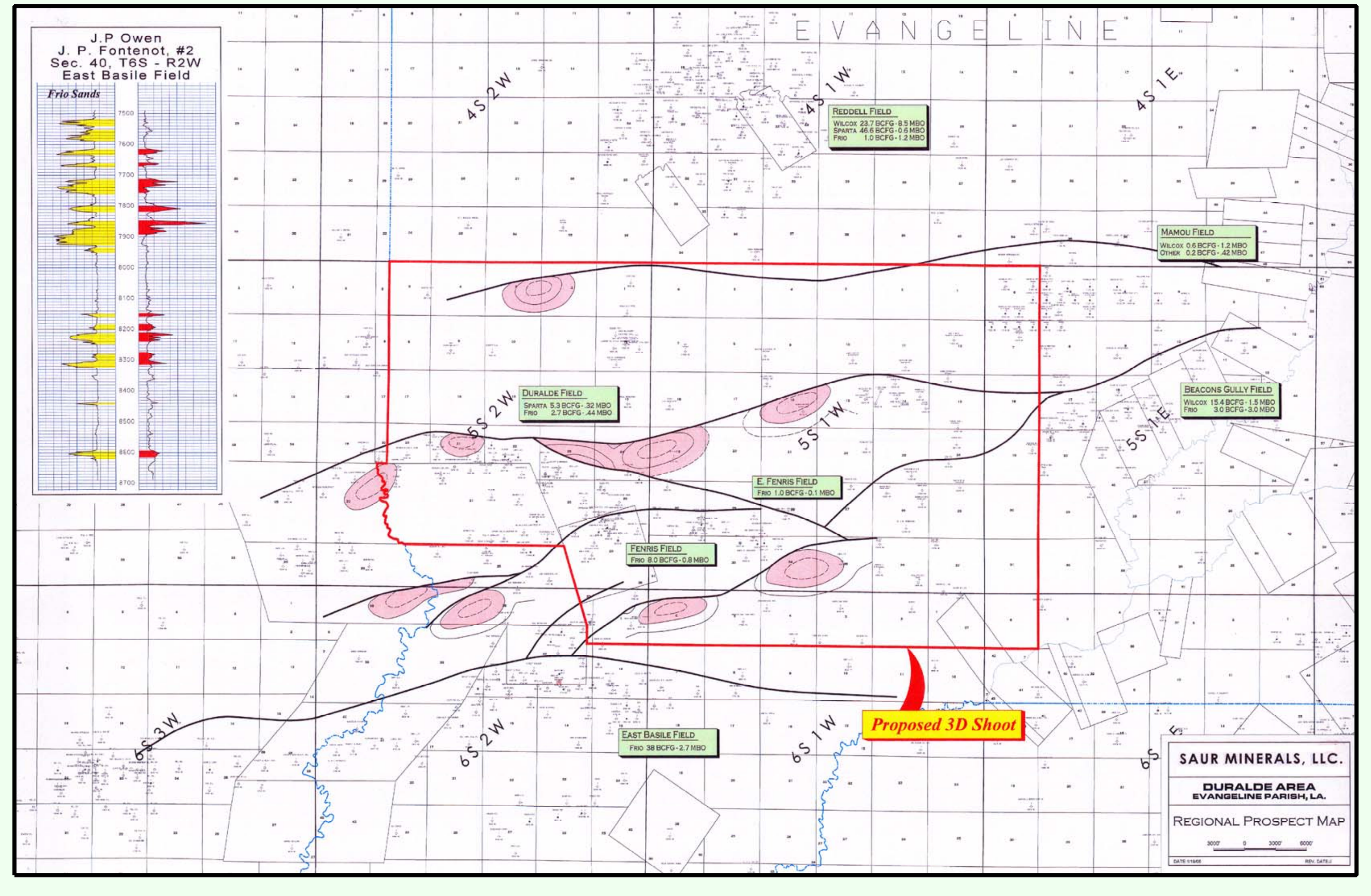
Pine Prairie/ Reddell (North of Phase I) Old 2-D seismic/ subsurface geology produced to date:	Wilcox 23.7 BCF - 8.5 MBO Sparta 46.6 BCF - .6 MBO Frio 1 BCF - 1.2 MBO
New 3-D Seismic recent discovery by industry 100 GFP in Sparta/ Wilcox:	Possibly 7 - 20 BCF

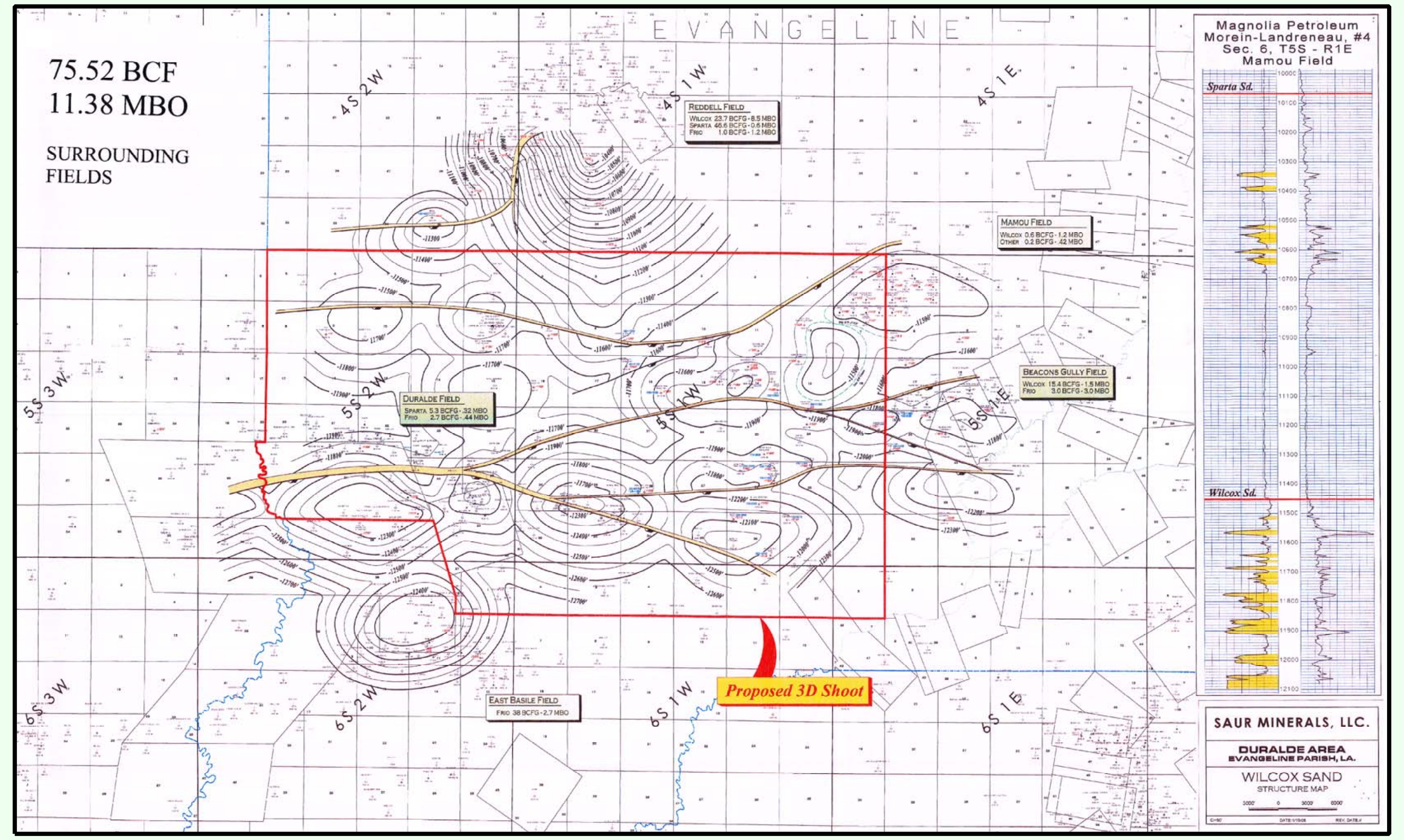
Industry proposed 2 Frio units and 20 Wilcox units

Mamou Field (Contigious North of Phase I) 2-D/ subsurface produced:	Wilcox .6 BCF - 1.2 MBO Other .2 BCF - .42 MBO
Beacons Gully Field (*Significant field contiguous to Phase I in proposed Phase II) 2-D/ subsurface produced:	Frio 3.0 BCF - 3.0 MBO (from one well - still producing) Wilcox 15.4 BCF - 1.5 MBO

Similarities of the above fields to Phase I: primary targets are Frio, Cockfield, Vicksburg, Sparta and Wilcox (Wilcox has large depositional structures).

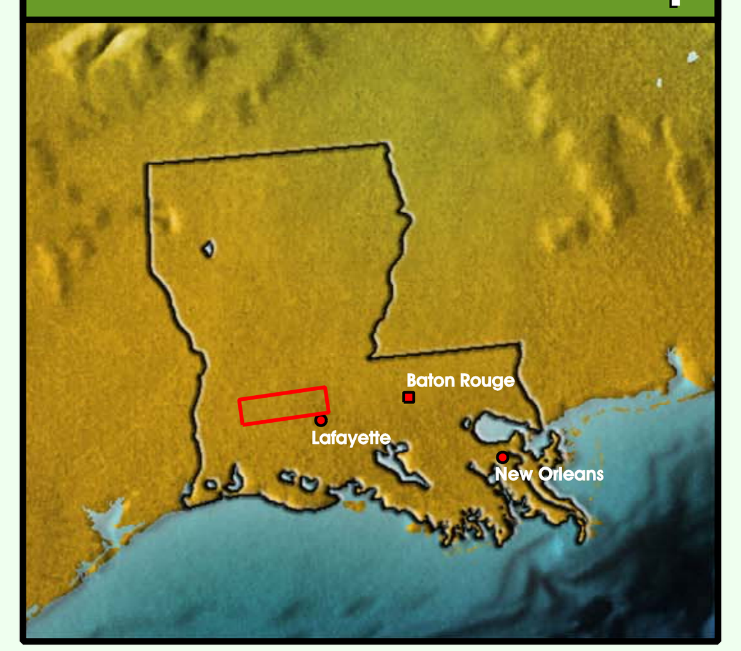






Global Location Map

Louisiana Location Map



Geology of Proposed 3-D Shoot

The area of the proposed 3-D shoot is located in the heart of the up dip Frio Oligocene of South Louisiana, and along the Sparta-Wilcox Eocene trend of South Louisiana. All three of these foramtions have excellent reserve potentials within the proposed 3-D area.

The Frio Formation Prospects are located along well defined fault trends, which extend across the area and have yielded substantial oil and gas reserves from both 3 way and 4 way structural closures. The Frio sands are found between depths of 7,500' to 8,600' and within this interval there are 10 prospective sands which produce along this trend. Because of outstanding permeabilites and porosity, these sands have yielded recoveries of over 500 bbls of oil per acre foot and 1,000 MCF gas per acre foot. Another attractive feature of the area is that these sands require no protection pipe to test, substantially increasing the economic return on exploration and development drilling.

The Wilcox trend which occurs between 10,500' and 12,500' within the proposed area of the 3-D shoot has produced major reserves from the Reddell, Mamou and Beacons Gully Fields. Subsurface control across the area indicates a number of large untested Wilcox structures which are geologically similar to the Beacons Gully and Mamou Fields. To date there has been no 3-D Survey in the area to evaluate theses prospects which, because of the extent of their area, have good reserve potential for both oil and gas. Once again, the Wilcox sands can be tested without protection pipe. Also, above the Wilcox is the Sparta section which is a secondary objective. In most instances the structural features which produce at the Wilcox horizon are also productive in the above Sparta Section. Permeabilites and porosities in the Wilcox and Sparta sands are adequate for reasonable reserves. However, new fracturing techniques are available which should significantly increase oil and gas recoveries.

In summary, the introduction of 3-D seismic across the area should be invaluable in defining the Wilcox structures. In addition, the Frio features are subtle and low relief and the evaluation with 3-D data should not only lead to new features, but to extensions of existing fields.

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Evangeline Pharish Montage
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