

**RECOMMENDED DRILLING FLUID PROGRAM**

<b>DEPTH</b>	<b>WEIGHT</b>	<b>VISCOSITY</b>	<b>FILTRATE</b>
<b>10,650'-11,750'</b>	<b>10.0-10.3</b>	<b>35-50</b>	<b>10-8cc</b>

At 10,650', or prior to drilling the **Atoka**, go into the working pits and mud up with .75 lb/bbl Xanthan Gum for a 36 to 40 sec/1000cc funnel viscosity and White Starch for a 10cc API fluid loss. Caustic Soda should be used to control pH at 9.0-10.0. At 11,000' or prior to drilling the **Morrow**, if severe losses are not encountered, increase the total Xanthan Gum concentration to 1.5 to 2.0 ppb for an enhanced LSRV (Low Shear Rate Viscosity). Reduce the API filtrate to 8cc with White Starch. There is a potential for abnormal pressure in this interval. If abnormal pressure is encountered, we recommend additions of Barite to control. We recommend using a linear shale shaker and decanting centrifuge for solids control in this interval. This should be sufficient to drill, evaluate, and run casing.

**Manzano's, Esperanza # 1, Section 4, T-22-S, R-27-E**, reported shutting the well in and circulating off gas at 10,671' with a 10.1 ppg fluid weight. They report raising the weight to 10.4 to control gas.

**TXO's, Delta Fee # 1, Section 2, T-22-S, R-27-E**, reported increasing the fluid weight from 10.1 to 10.3 at 9,945' to control gas.

Interval Days 5

Cumulative Days 27

Estimated Product Usage This Interval:

<b>Product</b>	<b>Units</b>
Xanthan Gum	50
White Starch	125
Caustic	15
DSC Defoamer	5
IDB-60	5
Transportation	2
<b>Interval Cost</b>	<b>\$17,275.00</b>
<b>Cumulative Cost</b>	<b>\$21,175.00</b>

Cost is based on a 1,200 bbl system and does not include lost circulation, elevated levels of Xanthan Gum, or abnormal pressures requiring Barite.

We estimate an additional cost of \$3,000.00 to weight up to 10.4 ppg with Barite.

We estimate an additional cost of \$8,500.00 if an enhanced LSRV (Low Shear Rate Viscosity) fluid is used.