

### ACID & FRACING

Opened well - swabbed - recovered 10 barrels muddy water. Then no water and three barrels of new oil. Spotted 300 gals. 15% MCA acid on perforations, injected acid into formation at rate of one barrel per minute at 300 lbs. pressure. Swabbed acid back and pulled tubing, frac Gallup 2938, 3008 using two Halliburton Ht-400 - 15,700 gals. crude, 110 balls, 15,000# 20-40 sd. 10,000#, 10-20 sd. Total oil used 450 barrels. Breakdown of pressure, 1800# initial fracing pressure, 1600# average, 2000# maximum and final pressure 4000#. Dropped balls in 3 stages, first stage 30 balls, pressure increased 100#. Second stage 30 balls, pressure increased 500# to 2500#, third stage 50 balls, pressure increased to 4000#. Fraced, balled off, at same time had flush in hole. Average injection rate 37.6 bbls per minute. Ten minute standing pressure 300#.