

1. **Well Name:** Name withheld
2. **Field/Block Name:** Name withheld
3. **State & Country:** Cameron County, Texas, USA
4. **Onshore or Offshore:** Onshore
5. **Hole Sizes, Intervals where Liquid Casing-Coarse used:** 12 ¼" section, 3700 ft.; 8 ½" section 11,000'
6. **Rates of Losses before spotting the Liquid Casing Pill:** Loss & Kick situation
7. **Operator Name:** Phillips Petroleum
8. **Mud Company name:** Baroid
9. **In which Mud System Liquid Casing-Coarse is used:** Polymer mud (Water based)
10. **Date of the using the LCM Pill:** Year 2003
11. **Dosage of Liquid casing-Coarse used in the pill:** 8 ppb
12. **Mud Density:** 9.6 ppg, then raised to 13.8 ppg, then to 14.6 ppg.

Brief Description of the Job Performed:

13 3/8" casing set at 2450'. Losses occurred while drilling 12 ¼" hole at 3700' followed by stuck pipe. String backed off and kicked off the well and drilled to 7200' where a major fault with several hundred feet was cut below a transition zone and a kick encountered. Well under loss-Kick situation. Several attempts to kill the well, but severe salt water flow didn't allow. At this stage, the 13.8 ppg mud was treated with 8 ppb Liquid Casing-coarse and pumped +/- 400-500 bbl as slug ahead of kill mud while holding sufficient back pressure to ensure continuous loss of mud. When SLUG reached 3700', the pump pressures began to climb up and full returns were received from the point onward. A single circulation brought the background gas level from 1200 units to 8 units. Another 50' of new hole was drilled and raised the mud wt. to 14.6 ppg without having any further losses. The well was logged and cased without any problems. The well was further drilled with 8 ½" hole to 11,000' using 5 ppb of Liquid Casing-Fine in the mud system. No further losses are encountered.