

Artesia State Com. #4  
990' FNL & 1980' FWL  
Sec. 23, T-18-S, R-28-E  
Eddy Co., NM

August 8, 2001  
Recomplete in the Wolfcamp

Current Production: Well is SI

Proposed Perfs: 8522-74', 8908-20'

Anticipated production: 300 Mcf/d, 30 bopd

- 1) MIRU workover rig. ND tree and NU 5M BOP's w/2-7/8" rams. Test BOP's to 3000 psi.
- 2) Kill well w/2% KCl water if necessary. Release Arrowset 1X pkr @ 9099' and POOH w/2-7/8" tbg and pkr.
- 3) RU WL unit. NU lubricator and test to 3000 psi. RIH w/5-1/2", 17# CIBP and set at +/-9150'. Dump bail 35' of cement on top of CIBP. ND lubricator and RD WL unit.
- 4) TIH W/2-7/8" tbg open-ended to 8920'. Circ. hole w/clean 2% KCl water and spot 1000 gals of inhibited 15% NEFE HCl acid from 8920' to 7900'. POOH w/tbg.
- 5) RU WL unit and NU lubricator. Test lubricator to 3500 psi. RIH w/4" csg guns loaded 4 spf and perforate the Wolfcamp 8908-20' and 8522-74'. Report pressure response on csg after perforating. ND lubricator and RD WL unit.
  - a) Depth Reference: Western Atlas CNL Run #1 dated 8/15/97.
- 6) RU pump truck to csg and bullhead acid into perfs w/100 bbls of 2% KCl water at 10 bpm or higher if possible. Do not exceed 2500 psi casing pressure while bullheading acid. RD pump truck.
- 7) PU BPMA, 6' perf'd sub, SN, 14 jts (440') 2-7/8" tbg and 5-1/2" TAC and TIH on 2-7/8" tbg. Set TAC at 8500' w/SN at 8940'.
- 8) Space out and land tbg in slight tension. ND BOP's and NU tree. Test tree flange to 3000 psi. Hook up flow line.
- 9) RU swab on sand line and swab well to flow.
- 10) Flow/swab well and allow it to clean up to pit. Obtain gas and oil samples for analysis.
- 11) Acidize well as per Houston's recommendation.
- 12) Flow/swab back load. Report rates and pressures while cleaning up. Test well into sales line when it has cleaned up enough. RD&R completion unit. Turn well over to Production personnel.
- 13) Flow test well for 7-10 days. SI well for 72 hr buildup. Obtain potential test for NMOCD.