

Page 2  
C-103  
June 29, 1998  
Doyle Hartman  
C. T. Bates No. 3  
API No. 30-025-34403  
1980' FSL & 1980' FWL (K)  
Section 10, T-26-S, R-37-E  
Lea County, New Mexico  
Rhodes (Y-7R) Gas

### **Details of Completed Operations**

Drilled 7-7/8" hole from 2600' to 3606'. On 6-20-98, encountered lost circulation at 2983'. Over 12-hr period, mixed and pumped 400 bbls of salt water gel containing 15-20 lb/bbl of LCM before regaining circulation. On 6-22-98, experienced lost circulation at 3503'. Spent 5.25 hrs mixing and pumping salt water gel before successfully regaining circulation.

Logged well with Schlumberger Platform Express combination logging tool (CNL, TDD, BHC, TNP, GR, CAL, AzLL, MCFL).

Ran 1471' x 5-1/2" O.D. production liner consisting of (1) - TIW Type "J" 8-5/8" x 5-1/2" liner hanger with type LG-6 8-5/8" x 5-1/2" RPOB, 33 jts (1441.1') of 5-1/2" O.D., 15.5 lb/ft, J-55, ST&C casing, (1) - TIW 5-1/2", 15.5 lb/ft Type PDC LF landing collar, (1) - 15.01' x 5-1/2" O.D., 15.5 lb/ft J-55, ST&C shoe joint, (1) - Gemco 5-1/2" O.D., 15.5 lb/ft, J-55, LT&C float shoe, and (16) - 8-5/8" x 5-1/2" Halliburton centralizers. Landed bottom of liner at 3604' with top of liner at 2133'.

Cemented liner at a rate of 8 BPM with 375 sx of a 14.4 lb/gal 50-50 blend of API Class-C cement and Pozmix "A" containing 0.5 lb/sx Flocele and 5 lbs/sx gilsonite. Plug down at 4:00 a.m., 6-23-98. Pressured liner to 1000 psi. Pressure held okay. Released pressure and float system held okay.

Pulled out of hole with liner setting tool. Ran back into hole with drill string and 7-7/8" bit. Cleaned out excess cement from 2018' to top of liner. Circulated hole two additional hours and then loaded 8-5/8" casing with fresh water. Pulled and laid down drill string. Welded a steel plate on top of 8-5/8" casing. Released rotary rig.

