

**ATTACHMENT TO C-103
COLLINS & WARE, INC.,
STATE PA #3**

- 7/09/96 RUPU. Unseat pump. POOH and LD rods and pump. Install BOP, release TAC and POOH with tubing. RU Wedge Wireline. Ran gauge ring and junk basket. Tagged fill at 6537' (83' fill). FL at 5550'. Ran CIBP and set at 6400'. Dumped 35' cement on top. SDFN.
- 7/10/96 Ran GR-CLL from 6358' to 5100'. Log over D.V. tool at 3908'. TIH with tubing open-ended to 6000'. Hydrotesting to 5000 psi. No failures. Load hole with 135 bbls KCL water. Pickle tubing with 100 gals 15% HCL. Spot 150 gals 15% NEFE HCL from 6000'-5839'. POOH. Perf Lower Blinbry 5927'-5975' with 1 JSPF (6 holes). Secure well and SDFN.
- 7/11/96 Install replacement BOP adapter flange. RIH with retrievable bridge plug and RTTS packer. Set RBP at 5000'. Test BOP to 650#. Unseat RBP and lower to 6139' and set. POOH with 1 stand. Set RTTS at 6075'. Test RBP to 2000#. Unseat RTTS and pull up to 5854' and set. Put 600 psi on annulus. Broke perfs (5927'-75') with 3100 psi. Acidized perfs with 1000 gals 15% HCL and 10 ball sealers. Achieved ball out at 3000#. Flowed well to tank. Flowed back 40 bbls. Swabbed 37 bbls. SDFN.
- 7/12/96 SITP = 10#. Static BHP 871 psi. Swabbed down in 2 runs. Release RTTS packer. TIH and catch on to RBP and reset at 5887'. Release RBP and reset at 6139'. Reset RTTS packer at 5854'. Swabbed well down. Final oil cut- trace. Water analysis showed partially spent acid.
- 7/13/96 SITP = 0 psi. RIH with swab. Top sample contained 20% oil cut and bottom sample contained less than 5% oil cut. Unseat RBP at 6139'. Pulled RBP to 5880' and set. Set RTTS at 5850'. Test RBP to 2000 psi. Spot 450 gals 15% HCL acid from 5368'-5850'. TOOH with tubing and packer. RU Wedge Wireline. Shoot 60 .4" diameter holes from 5471'-5843'. Pick up and redressed RTTS and TIH with tubing to 5000'. Hit FL at 960' going in hole. SDFN.
- 7/14/96 SITP = 0 psi. Set packer at 5437'. Drop standing valve. Test tubing to 3000 psi. Pressure annulus to 500 psi. Pumped 8 BW. Acidize perfs 5471'-5843' with 2500 gals 15% HCL and 90 ball sealers. Saw fair ball action, but did not achieve ball out. Flowed and swabbed well to tank. Total fluid recovered in 8 hours 22 BO and 65 BW. Left well open to tank on 14/64" choke.
- 7/15/96 FTP = 100 psi on 14/64" choke. Well made 14 BO overnight. Open well on 20/64" choke, well died. Swabed well. Had good blow of gas. Swabbed a total of 17 BO and 12 BW.
- 7/16/96 SITP = 600 psi. BHP 1254 psi. Open well to tank. Well flowed 12 BO and 3 BW and died. TIH to retrieve bridge plug. Pulled bridge plug to 4067' and set. Pulled 1 stand and set RTTS at 4010'. Test RBP to 1000#. POOH with tubing and RTTS. Replaced wellhead. TIH with retrieving head. Test wellhead to 1500#. Latch on to RBP and POOH. Change out BOP rams, elevators, and clips. Pick up and start in hole with RTTS and 3 1/2" tubing. SDFN.
- 7/17/96 TIH with 3 1/2" to 5360'. Set RTTS at 5362'. Test tubing to 5000 psi. RU Halliburton. Test lines to 7000 psi. Pressure annulus to 500 psi. Frac treat Blinbry zone with 57,000 gals 25# x-linked gel and 144,000# sand. Flush with 2067 gals gelled water. RD Halliburton and SWIFN.
- 7/18/96 SITP moderate vacuum. Opened bypass on RTTS. Unseat RTTS and pulled up 10'. Lowered tubing 12' to remove frac valve, started taking weight at 5364', closed bypass. Removed frac valve. Pulled 5 joints, tubing was wet. Pulled 10 more wet joints. Reverse circulated hole. POOH with 3 1/2" tubing and packer. TIH with notched collar on 2 3/8" tubing. Started taking weight at 5205'. POOH with 10 stands. Start RU reverse unit. Secure well and SDFN.