

2310/54 330/W OCT 31-225-29E

## LOUIS DREYFUS NATURAL GAS CORP

## OPERATION SUMMARY

## QUAHADA RIDGE "31" FEDERAL #1

03-17-95 MIRU Pride DDP. Unhung horses head, unset BHP, & POOH w/PR, (17) 1" rods, (112) 7/8" rods, (95) 3/4" rods, (5) 1" rods & BHP. Gas anchor had unscrewed. ND hanger flange, rel A/C, NU BOP's. POOH & strap 180 jts 2 7/8" tbg, Elder 2 7/8" x 5 1/2" A/C, 5 jts 2 7/8" tbg, SN, 4" perf sub, & one jt 2 7/8" tbg, bull plugged as mud anchor. SN for night. Left well open to tank battery.

03-18-95 Day 2-RU Schlumberger W.L. TIH w/Baker 5 1/2" CIBP, corr & set @ 6040'. POOH w/W.L. RU HowCo & load csg w/100 bbls 2% KCL H2O. Press test csg & CIBP to 1000 psi. Held. RU SWL & TIH & dump bail 50' of cmt on CIBP. PBTB 5990. POOH w/W.L. PU 4" HCC gun & TIH, corr, & perf Delaware 5890' - 5926', 36' w/73 holes. POOH w/WL & RD & rel S.W.L. TIH w/Baker 5 1/2" model "R" & 189 jts 2 7/8" tbg, RU HowCo & spot 200 gals 7 1/2% HCL acid @ 5900'. POOH w/8 jts tbg, set pkr @ 5652', RU HowCo & acidize Delaware 5890'-5926' w/2800 gal 7 1/2% HCL acid w/1 gal/1000 cla-sta & iron seg & 3 gal 1000 Lo-Surf & 100 balls. B-D @ 1475 psi. AIR 3 BPM: ATP 1575: MTP 1920: ISDP 900.5 min 780: 10 min 700: 15 min 670. RD HowCO. RU & swab 2 7/8" tbg 3 hrs & rec 50 BLW. Lack 100 BLW. Trace of oil in last run from SN @5648. SDON.  
DWC \$13,579 CWC \$15,389

03/19/95 Day 3-13 hrs. SITP ; slight blow. RU to swab IFL 3200'. Swabbed tbg dry in 3 runs. Rec 14 BLW w/trace of oil & slight show of gas during run. Vac after runs. Wait 1/2 hr. TIH w/swab. 300' of fld above SN @ 5648. Rec 1 BLW. RD swab & leave well open to frac tank overnight. Lack 85 BLW.  
DWC \$ 1,045 CWC \$16,434

03/20/95 Day 4-Left well open to frac tank overnight. RU swab IFL 3200'. Swabbed tbg dry in 3 runs. Rec 14 BLW w/ trace of oil & slight show of gas during run. Wait 1/2 hr. TIH w/ swab. 300' of fld entry. Rec 1 BLW. RD swab & leave well open to frac tank overnight. Lack 70 BLW.  
DWC \$925 CWC \$17,359

03-21-95 Left well open to frac tank over night. RU to swab. IFL, 3400'. Swabbed tbg dry in 3 runs. Rec 12 BLW w/trace of oil & slight show of gas during run. Wait 3/4 hr. TIH w/swab. 200' of fld entry. Rec 1 BLW. RD swab. SI & SD for night. Lack 57 BLW.  
DWC \$ 1000 CWC \$ 18,359

03-22-95 Day 6 - RU to swab. IFL 3500'. Swabbed tbg dry in 3 runs. Rec 11 BLW w/trace of oil & slight show of gas during run. Wait 1/2 hr. TIH w/swab. 100' of fld entry. Rec 1/2 bbl. RD swab & SD for night. Lack 45 BLW.  
DWC \$ 1025 CWC \$ 19,384

03-24-95 Day 8 - MIRU Halliburton. Frac Delaware 5890' - 5926' VIA 2 7/8" tbg w/Model "R" . Set @ 5652' & 600 psi on Ann. Frac as follows: 10,000 gal Boragel G3195 pad, 18,000 gals Boragel G3195 ramp 1. to 4. ppg 16/30 brown sd (44, 400#) 2,000 gals Boragel G3195 ramp 4-6 ppg 16/30 Super LC (resin coated) sd 10,000# & flush w/1632 gals base gel. AIR: 15.5 BPM, ATP: 2300 psi, ISDP: 987 psi. 5 min: 970 psi, 10 min: 937 psi, 15 min: 891 psi. SI overnight to allow gels to break. This am prep to flow back. Lack 858 BLW.  
DWC \$ 22,856 CWC \$ 44,865

03/25/95 Prep to drop standing valve. 22 hr SITP slight vac. Rel Model "R" & POH w/tbg & pkr. RU 1 jt tbg w/4,200 OD, collar & TIH w/SL tag sd @ 5931'. POH w/SL PU Bulldog hydrostatic bailer w/ 2 7/8" notched collar & TIH w/tbg. Tag sd @ 5940. Bail sd from 5940-5990'. 64' of rathole. POH w/tbg & bailer. Tube for prod: 1 jt 2 7/8" tbg BP as Nam btm @ 5877', 4' PS 5844-48', SSN @ 5843', 5 jts 2 7/8" tbg, Baker 2 7/8" X 5 1/2" A/C @ 5682' w/12,000# tension & 182 jts 2 7/8" tbg to surf. ND BOP & NU hanger, flange run 2' sd screen, 2 1/2" X 1 1/4" X 16' X 18' X 20' RHBC (5) 1" rods, (95) 3/4" rods, (112) 7/8" rods, (19) 1" rods, (1) 8', 4', & 2' X 1" rod subs & 1 1/4" X 1 1/2" X 22' prod & liner. Seat BHP, space out & hang on unit. Load w/8 bbls tbg on vac. Unseat BHP & flush SN. Reseat & attempt to load tbg w/same results. POH w/rods & BHP.  
TWC: \$5,275 CWC: \$50,140

03/26/95 Turn to production. Formation: Delaware. Drop standing valve. RU hotoiler & pmp 31 BPW & caught 400 psi. RD pmp. Tbg on vac. ND hanger, flange, fish SW, rel A/C, POH w/tbg. Replace SN w/new SN, put SV in place & TIH w/12 jts tbg. RU hotoiler & test tbg anchor mandrel had split. Replace A/C w/new A/C. Test to 2600 psi, Held. Fin TIH w/tbg. 1 jt 2 7/8" BP as MA, bot @ 5877', 4 PA @ 5844'-48', SN @ 5843', 5 jts 2 7/8" tbg. Bank 2 7/8" X 5 1/2" A/C @ 5682' w/12,000# tension, & 182 jts 2 7/8" tbg to surf. NU hanger flange, Run 2' SS, 2 1/2" X 1 1/4" X 16' X 18" X 20' RHBC, (5) 1" rods, (95) 3/4" rods, (112) 7/8" rods, (19) 1" rods, (1) 8', 4' & 2' X 1" rods subs, & 1 1/4" X 1 1/2" X 22' prod & liner. Seat BHP & hang on unit. LD w/4 BPW. Use BHP to test to 300 psi. Unit on line @ 4:00 p.m. lack 1007 BLW. Pump 15 hrs Rec 0 BO, 0 MCF, 75 BW. 8 SPM X --" stroke. Lack 932 BLW  
DWC: \$2,350 CWC: \$52,490

03/27/95 Pumping 24 hrs, Rec 1 BO, 0 MCF & 90 BW. SPM 8 X --" stroke. Load to rec 842 BW.  
DWC: \$0 CWC: \$52,490

03/28/95 Depth: 5,990 Formation: Delaware. Pump 24 hrs. Rec 2.3 BO, 0 MCF, 97 BW. 8 SPM --"stroke. LTR 743 bbls.  
CWC: \$52,490.00

03-29-95 Day 13 - Pumped 24 hrs. Rec - 2.3 BO, 0 MCF, 77 BW 7 1/2 SPM x 84" Stroke Load of recover 663 Bbls. Pumping unit is a Lufkin 320 in the longest stroke.

03-30-95 Day 14 - Pumped 24 hrs. Rec - 2 BO, 0 MCF, 134 BW. Load to recover 529 bbls.

03-31-95 Day 15 - Pumped 24 hrs. Rec - 2 BO, 0 MCF, 117 BW. Load to recover 412 bbls.

04-01-95 Day 16 - Pumped 24 hrs. Recovered 2 BO; 128 BW; 0 MCF. Load to recover 284 BW  
CWC \$ 52,490

04-02-95 Day 17 - Pumped 24 hrs. Recovered 2 BO; 121 BW; 0 MCF. Load to recover 163 BW  
CWC \$ 52,490

04-03-95 Day 18 - Pumped 24 hrs. Recovered 1 BO; 115 BW; 0 MCF. Load to recover 48 BW  
CWC \$52,490

04-04-95 Day 19 - Pumper 24 hrs. Recovered 1 BO; 127 BW; 0 MCF. Recovered all of LWTR plus 89 bbls wtr.  
CWC \$52,490

04-05-95 Well Test: 0 Oil 40 Water 0 Gas

04-14-95 Shut Well in and Temporarily Abandon to evaluate possible SWD usage.