

MIRU Ram Well Service, unseat pump, start out of hole, paraffin bad. Flush wtr w/ 75 bbls dn tbg to clean up tbg and rods. POH rods & NDWH, NUBOP, tag up @ 5812.13', flush w/ 187 jts tbg, DL 29 IBC JTS, LD 48 jts full of paraffin. DWC=1779.00, TWC=1779.00. Reported by Gary Wells.

C.E. LAMUNYON #37

1/7/95

Blew well down, open BOP, RIH w/ 4 3/4" mill-tooth bit, 20 jts, bailer & 167 jts, tag up @ 5812, clean out to 5844' (29'), stopped making hole, POH w/ tbg & tools. DWC=\$3678, TWC=\$5457.00. Reported by Gary Wells.

C. E. LAMUNYON #37

1/9/95

Blew well down, open BOP, RIH w/ bit & scraper to 5820', POH w/tbg. RU Schlumberger, perf @ 5797', 5761', 5694', 5672', 5620', 5554', 5536', 5449', 5424', 5407' w/2 JHPF. RD wireline, RIH w/PPI, Tool & 60 jts tbg, CIBOP, SDFN. DWC=\$5457, TWC=13,402. Reported by Gary Wells.

C. E. LAMUNYON #37

1/10/95

Blew well down, open BOP, RIH w/ 129 jts. tbg, set prk below btm per, test prk - held OK, release. Pull up hole, treat perfs 5816 to 5403 w/ 2000 gals. 15% NEFE w/additives. Flush tbg w/4 bbls 2% KCl, release prk, flush annulus w/100 bbls 2% KCl. Break down individual perfs - 5814-16', 5797', 5776-78', 5761', 5719-21', 5694', 5672', 5650-53', 5620', 5667-69', 5554', 5536', 5509-11', 5449', 5437-39', 5474', 5407' & 5403-05', treated @ 2-3 bpm, 1900-3800#. Pull up to 5367', set prk, RU to swab, beginning FL @ 1200', made 14 runs, FL @ 400', Rec 40 bbls, flush wtr, acid gas wtr, 10 BO, SDFN. DWC=\$11,712.31, TWC=\$25,114.31. Reported by Gary Wells.

C.E. LAMUNYON #37

1/11/95

Blew well down, 60# on tbg. RU to swab, starting FL @ 3400', made 9 runs, FL @ 5000', recovered 21 BW, 10% oil cut, FL gas cut. RD swab. Release prk. POH w/2 3/8" tbg. & prk, RIH w/ 5 1/2" Lok-set prk. w/ on/off tool, 4 1/2" x 1.87' FX 2 3/8", 1 10' blast jt, 3 1/2" box by 2 3/8" pin, crossover, SN, 172 jts 3 1/2" N-80 (tested 3 1/2" to 7500# while RIH). Load annulus, pump 80 bbls, pressure test - would not hold. Pump 4 BPM @ 450#, prk set @ 5278', release prk, pull 1 jt., retest, still would not hold. Drop SV down tbg, test tbg to 5000# - OK. Fish SV, pump 100 bbls 2% KCl down tbg, Csg & tbg communicated, rel. prk, pull 3 jts, re-set prk @ 5216', test annulus, would not hold. Pump into it @ 4 BPM, 450#. Release prk. POH w/tbg & prk. Prk looked OK, CIBOP, SDFN. DWC=\$4405, TWC=\$29,599.31. Reported by Gary Wells.

C.E. LAMUNYON #37

1/12/95

Blew well down, open BOP, RIH w/ new 5 1/2" Lok-Set prk & tbg. RIH to 4500', set prk, load annulus, pressure test annulus, would not hold. Tie onto tbg, drop SV, test tbg to 5000# - held OK. Fish SV, pmp 110 bbls 2% KCl down tbg @ 3 BPM, @ O#, Tbg & csg did not communicate. Re-load annulus, re-test csg, would not hold. Pump into @ 3BPM @ 250#, leave annulus open. RU Halliburton for frac job. Frac treat perf 5403' - 5816' w/99553 gals of 40# gel w/65% & 50% CO2 & 250,700# 16/30 mesh Ottawa Sand @ 38 BPM, Max Psi = 7000#. Ramp frac as follows:

- 1st Stage - 53,000 gals. 65 quality CO2, 40# gel pad
- 2nd Stage - 4,000 gals. 50 quality CO2, 40# gel pad w/1-3 ppg Ottawa sand
- 3rd Stage - 6,000 gals. 50 quality CO2, 40# gel pad w/3-5 ppg Ottawa sand
- 4th Stage - 8,000 gals. 50 quality CO2, 40# gel pad w/5-7 ppg Ottawa sand
- 5th Stage - 10,000 gals. 50 quality CO2, 40# gel pad w/7-8 ppg Ottawa sand
- 6th Stage - 12,000 gals. 50 quality CO2, 40# gel pad w/w/8.0 ppg 16/30 Ottawa sand
- 7th Stage - 8,000 gals. w/8ppg & 4,000 gals w/8ppg resin coated sand
- 8th Stage - Flush to top perf. SD.

Average rate = 38 BPM, Average pess. = 4433#, Min. Press. = 3732#, Max. Press. = 6209#, ISIP in 5 min equal 1108, in 10 min = 1036, in 15 min = 1012. SI for 6 hrs, well had 660# on tbg. Open well up, start flow back on 16/64' chk, 660# on tbg. Left well flowing into frac tk overnight. DWC=\$25,114.31, TWC=\$90,270.03