

- 3/23/83 Had left flowing overnight, still had 5' flare, ran swb to pkr, had small amt of wtr & gas, RU Western & Noweco & tested lines to 9000 psi, press annulus to 2000 psi, well was SI 30" hooking up to acidize & press build up to 400 psi, treated well w/5000 gals 7½% HCl w/clay and iron stabilizers & surfactant w/nitro, 74, 7/8" ball sealers, SG 1.1, 48 bbl pad 2% KCl wtr w/750 SCf/bbl, N<sub>2</sub>, press inc from 400 psi to 6700 psi, started acid w/1 ball sealer/bbl acid, balled out w/41 balls @ formation, 9600 psi press, surged balls off perfs & resumed pumping, press @ 5000 and inc to 7600 w/more balls on perfs, flushed w/48 bbls 2% KCl FW w/750 SCf/bbl, N<sub>2</sub>, total load 153 bbls, min press 6000, max 9600, avg 6200, avg rate 2.4 BPM, ISDP 5700 psi, 5" 5550, 10" 5400, 15" 5100, had good ball action throughout job w/press increases & breaks, had 10-12 good actions, hooked up to flow back in 40" w/4100 psi, opened to pit on 16/64" choke, 5" 2700 psi, 10" 1800 psi, opened choke to 20/64", 20" 1000 psi, 30" 650 psi, 50" -0- psi, opened choke to 3/4 and ran swb, swbd & rec 132.60 bbls plus flow back, swbd 4½ hrs, had flare burning 5-6', running swb to 10,400', left well flowing overnight 25/64" choke.
- 3/24/83 Well flowing w/20 psi on 16/64" choke after flowing overnight, 14 hrs, gas rate 150 mcfpd, ran swb & swbd 4 hrs & rec 5 BW, pulling swb from 11,400', put back on choke @ 11:30, 16/64", @ 12:00 was 55 psi @ 1:00 was 60 psi, well stabilized @ 60 psi on 16/64" choke, flow rate 110 mcfpd, gas flare is dry, will occasionally make a slug of condensate.
- 3/25/83 100 psi FTP on 16/64" choke after flowing overnight, increased to 145 psi by 11 AM, @ 12:00 had 120 psi @ 1 PM had 125 psi, @ 2 PM 120 psi, making an estimated ½ gpm wtr w/some condensate, caught wtr sample @ 2 PM 3/24/83.
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| SG 1.060 @ 76° F      | Res .090 @ 76° F     |
| Ph 5.5                | SO <sub>4</sub> 1080 |
| Fe 500                | HCO <sub>3</sub> 659 |
| H <sub>2</sub> S none | Cl 50,000            |
| Ca 2080               | NaCl 82,700          |
- sample had 5% condensate and trace of spent acid. Left flowing overnight 16/64" choke, set a second frac tank, filled both tanks, 650 bbls FW, gas rates varied 200 mcfd to 230 mcfd.
- 3/26/83 Flowing tbh press 120 psi on ¼" choke after flowing overnight to continue clean up, rate 200 mcfpd, pumped 4 gals 20-40 mesh frac sand w/3 bbls wtr dn tbh & SWI to allow sand to fall to btm, treated well dn tbh w/32,000# 20-40 mesh sand, 5040# 20-40 Wesprop I, 25,000 gals MS gel, 15,000 gals CO<sub>2</sub> & flushed w/36 bbls 2% KCL FW w/1 gal aqua flow & CO<sub>2</sub>, pumped 4000 gals MS gel & 2000 gals CO<sub>2</sub> pad, 4 BPM @ 9200 psi, started sand @ ½#/gal & w/64 bbls away, CO<sub>2</sub> valve blew out, SD 15" to repair valve, resumed frac w/½#/gal sand @ 6 BPM @ 9200 psi, increased to 9350 psi, started sand @ 1#/gal, press @ 9350 psi, inc sand to 1½#/gal, press inc to 9750 psi, frac job started screening, started flushing sand, reduced rate to 5 BPM @ 8900 psi w/ 20 bbls flush away, well screened out @ 10,000 psi, SD, ISDP 5400 psi, back flowed well & resumed frac job, pumping gel & CO<sub>2</sub>, 6 BPM @ 9300 psi, w/31 bbls away, started ½#/gal Wesprop I, increased to 1#/gal @ 9300 psi w/5040# Wesprop I away, started rng low on CO<sub>2</sub>, switched to flush & flushed & finished job, min press 9300, max 10,000, avg 9300 psi, rate 6 BPM avg, 4 bbls gel & 2 bbls CO<sub>2</sub>, ISDP 6200 psi, 5" 5600 psi, 10" 5400 psi, 15" 5300 psi, 140" 3500 psi, total load 953 bbls, 596 MS gel + 357 CO<sub>2</sub>, opened well to pit & started flowing back on 16/64" choke