

11/16/91 RU Western w/breakdown acid & acidize w/6000 gals 7-1/2% HCL w/120 ball sealers. Had good ball action, treating pressure 1900#, max. 2900#, avg 2600# @ 5.9 BPM. RD Western, RU swab. Swab to SN (5049'), wait 1 hr, entry 1500', rec. total 48 bbls.

11/17/91 Swabbed, rec. 29 bbls w/entry @ 500'/30 mins w/2% oil cut.

11/18/91 Well SI.

11/19/91 Swabbed, rec. 25 bbls w/2% oil cut on avg w/400'/hr entry. Released rig & shut well in.

11/20/91 Well SI evaluating for frac job.
to
12/04/91

12/05/91 MI rental equipment, RU Dowell. Frac'd Delaware formation through perms @ 5112-5174'. Pumped 8000 gal pad @ 20 BPM w/avg psi of 3320# followed by 84,000# of 16/30 Ottawa sand, ramped 2-12 ppg in 12,000 gals of gel containing standard & encapsulated breakers. Broke formation @ 3320 psi w/pad. Avg injection pressure of 3374 psi @ 20 BPM. Pmpd flush, 1285 gals treated KCL wtr. Closed tree assembly - ISIP 1520#, open tree to choke & let well flow on 3/64" choke. RD Dowell. Well flowed 10 hrs before dying. TL = 507, TLR = 30, TLTR 477 bbls.

12/06/91 Change out rental valves. MIRU swab unit, swabbed 230 bbls. Starting FL @ 900', final @ 1000', avg 2% oil cut.

12/07/91 FL @ 700', made total 51 runs. Avg FL @ 900', final @ 1400', pulling from 3000'. Rec. 221 bbls w/± 18 BO.

12/08/91 FL @ 700', swabbed a total of 73 bbls w/± 15 BO, final FL @ 1400', pulling from 3000'. Shut well in, released rig.

Well currently SI. Plans are to MI surface equipment and rod test this zone (5112-5174'). If zone is economic then the CIBP @ 5408' will be removed and both zones produced. If the upper zone is not economic it will be plugged and only the bottom zone (5490-98') will be produced, at which time a Completion Report will be filed.