

July 29, 1987:

Reason for Job: For MIT and PMT

Back flowed well. Rigged up and started running 1". Had to start washing and reaming at surface to T.D. Got out very large amount of scale and iron. Circulated hole clean and pulled 1". Hole in casing 1' below surface.

July 30, 1987:

Dug up around casing and cut off and fixed leak. Ran MIT - passed. Packer set at 625'.

July 31, 1987:

Circulated hole clean. Spotted 2 carb. acid (30 gal.) on perfs and displaced out of 1". Hooked pump to casing and worked acid into perfs. with approx. 2 bbls. water. Let acid set and work over lunch. Circulated well clean. Pumped into well at 1/4 BPM at 350 psi. Hooked onto injection.

August 1, 1987: 87 Bbls. @ 450 psi

August 2, 1987: 63 Bbls. @ 420 psi

August 3, 1987: 45 Bbls. @ 440 psi

August 14, 1987:

Mixed with 98 bbls. of city water, 200 lbs. synthetic polymer (5,500 ppm), 350 lbs. salt (10,000 ppm), 35 lbs. of calcium chloride (1,000 ppm), and 4 qts. acid. As polymer solution was hydrating, the required reagents of Sodium Dicromate (6 lbs., 8 oz.) and Sodium Thiosulfate (6 lbs., 8 oz.) were prepared.

Began injection at 35 B/D at wellhead pressure 430 psi. Samples were taken and pressure monitored.

August 15, 1987:

Continued injection of polymer solution at 610 psi. Mixed daily is the required reagents of Sodium Dicromate (6 lbs., 8 oz.) and Sodium Thiosulfate (6 lbs., 8 oz.).

August 16, 1987:

Continued injection of polymer solution at 620 psi.

August 17, 1987:

Shut down profile modification treatment at 7:00 a.m. after injecting a total of 96 bbls. at 640 psi. Cleaned casing with 13 bbls. of injection water at 640 psi. No polymer has been detected at any surrounding producers. Shut in well at 640 psi.

August 21, 1987: 32 bbls. @ 630 psi

August 22, 1987: 26 bbls. @ 650 psi

August 23, 1987: 25 bbls. @ 640 psi

August 24, 1987: 25 bbls. @ 650 psi

September 2, 1987:

Reason for Job: To Increase Injection After PMT
Current: 20 B/D @ 640 psi
Rec.: 75 B/D

Broke down wellhead - did not backflow. Rigged up and ran string 1" with full size mill bit. Set down at 540'. Spudded and washed to 696'; getting out large amount of polymer. Circulated hole clean. Spotted 30 gal. acid and displaced out of 1". Shut well in.

September 3, 1987:

Circulated hole clean. Spotted 30 gal. acid and worked into perfs. Let set and worked 1 hour. Circulated hole clean and pulled 1". Put well back onto injection.

September 4, 1987: 28 B/D @ 640 psi

September 5, 1987: 21 B/D @ 640 psi

September 6, 1987: 24 B/D @ 640 psi

September 7, 1987: 27 B/D @ 650 psi

Savonburg Northeast

Nelson HW-1

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May 15, 1996:

Treated well with coil tubing unit and 50 gallons 28% acid; one-half gallon ESA-96; two gallons ESA-91; two quarts ESA-50.

June 4, 1998:

Ran steel line measurement to T.D. of 664'.

July 2, 1998:

Set up Company pulling unit and ran 1" pipe to depth of 650'.

Using A & A Well Service's pump truck, washed to depth of 698' and washed clean. Pulled up to perforations and jetted at depth of 662'-688'. Pulled pipe. Will acidize with coil unit.

July 6, 1998:

Set up Company coil tubing unit and ran to a depth of 702'. Spotted 50 gallons 28% acid, one gallon Goldtreat, one gallon ESAk-96, one quart ESA-91, and one pint ESA-50 over perforations. Pulled coil tubing. Hooked up to injection system and pushed back into perforations with four barrels injection water. Shut-in overnight.

July 7, 1998:

Repeated above procedure. Resumed normal injection rate.

July 11, 1998:

27 bbls. @ 560 lbs.

July 12, 1998:

33 bbls. @ 560 lbs.

July 13, 1998:

30 bbls. @ 570 lbs.