

- Pull 90 joints of tubing out of the hole and Shut down at 5:00 PM.

**February 21, 1990:**

- Finish trip out of hole with tubing, change out packer.
- Trip back in hole with 413 joints of tubing. Atlas wireline ran Gamma Ray log to position guns, spaced out guns with 1 joints of tubing and (1) 10' sub.
- Set packer at 12,908' with 16,000\* compression.
- Remove BOP and install wrap around on tree.
- Shut down at 6:00 PM.

**February 22, 1990:**

- Pumped 17 barrels 3% KCL water down tubing and open vent assembly.
- Drop bar and perforate with 4" casing from 12,968' - 12,972' (16 holes), from 12,984' - 12,990' (16 holes), and from 13,014' - 13,018' (16 holes).
- Had weak blow to surface 15 minutes after perforating.
- Began swabbing 45" after perforating.
- Fluid level at 9000', made 6 swab runs and swabbed to seating nipple.
- Waited 1 hour and made 2 swab runs, had 2000' of fluid in hole on first run, and 1000' fluid on second run.
- Recovered 1500' gas cut water.
- Waited 1/2 hour and had 300' fluid in hole, no recovery.
- Total estimated recovery 21 barrels load.
- Shut down and shut in for night at 4:00 PM.

**February 23, 1990:**

- 15 hour SITP 300 psig. Blew down on 1/4" choke in 10 minutes. Ran swab in hole, fluid at 11,000' from surface.
- Made 2 swab runs and recovered estimated 10 barrels fluid.
- Waited 1/2 hour and had 100' fluid in hole, recovered 1/4 barrel.
- Waited 1 1/2 hours and ran swab, 50' fluid in hole, no recovery.
- Shut in and shut down at 11:00 AM.

**February 24, 1990:**

- 20 hour SITP 400 psig. Blew down and ran swab, fluid level at 10,500'.
- Made 3 swab runs and swabbed dry, recovered estimated 10 barrels muddy water.
- Drop perforating guns with Jarrel Slick line.
- Rigged up Halliburton and treated with 3500 gallons 7 1/2% Moroflo BC acid with 7 ballons Penn 88, 7 gallons HAI 85 with 40 ball sealers and 1000 scf nitrogen/barrel fluid.
- Maximum pressure 6380 psig, average 5700 psig, average rate acid and nitrogen 4.5 BPM, ISIP 4600 psig, in 15 minutes 3480 psig. Total load to recover 128 barrels.
- Open to flow back at 11:45 AM, flowed 1 hour and 15 minutes, began burning flare and died.
- Swabbed 3 hours and 45 minutes, 9 runs, last run pulled from 10,500'.

- Unable to go back in hole due to gas.
- Left flowing to pit at 5:00 PM on 24/64" choke with 100 psig.
- Total load recovered estimated 90 barrels.

**February 25, 1990:**

- 7:00 AM flowing on 24/64" choke, 225 psig (estimated 800 MCF). Flowing with heavy water mist with black residue.
- 7:30 AM 32/64" choke, 180 psig, heavy mist.
- 9:00 AM 32/64" choke, 140 psig, heavy mist.
- 11:00 AM 32/64" choke, 140 psig, heavy mist.
- 4:30 PM 32/64" choke, 180 psig, white residue, heavy mist.
- left well flowing to pit.

**February 26, 1990:**

- 7:00 AM flowing on 32/64" choke, 160 psig, heavy mist with black residue, (estimated 1095 MCF/day).
- Continued to flow until 3:45 PM.
- Tubing pressure fluctuated from 140 psig to 200 psig.
- Water fluctuated between light mist to heavy mist.
- Installed Pressure Recorder and Shut in at 3:45 PM for pressure build up.

**February 27, 1990:**

- 7:30 AM 15 hour and 45 minute SITP 3350 psig.
- Open to flow to pit at 8:00 AM.
- At 8:25 AM on 48/64" choke, TP 200 psig.
- Fluid to surface, recovered 1/4 bbl muddy water, followed by heavy mist with acid odor.
- 9:30 AM on 48/64" choke, TP 100 psig with heavy water mist.
- Change to 32/64" choke.
- At 3:00 PM TP 150 psig with heavy water mist.
- At 3:30 PM Shut well in for pressure build up.

**February 28, 1990:**

- 7:30 AM 16 hour SITP 3180 psig. Will open and flow to pit.