

NORTHEAST KEMNITZ #2

Workover

- 12/13/96: Rig up pulling unit (El Toro Well Service). Blow well down. Get off on/off tool and let equalize. Get back on on/off tool. Work packer and try to release. Would not release. Get off on/off tool and trip out of hole with tubing. Stand back 180 stands (strap out). Shut down.
- 12/16/96: Finish tripping out of hole with tubing. Lay down 63 joints tubing. Trip in hole with $5\frac{1}{2}$ RBP (lock set with k-valve), S.N., and 360 joints $2\frac{3}{8}$ N-80 tubing plus 6'. Set RBP at 11,130'. Load and circulate hole with 260 barrels 2% KCL water. Trip out of hole with 173 stands tubing. Lay down 14 joints tubing. Shut down and shut in.
- 12/17/96: Rig up Schlumberger. Trip in hole and run tie-in log. Trip in hole and perforate 10,798' to 10,816'; 2 shots per foot (37 holes). Rig down Schlumberger. Trip in hole with $2\frac{7}{8} \times 5\frac{1}{2}$ Perma Latch 10 K Packer, $2\frac{7}{8} \times 2\frac{3}{8}$ x-over, S.N. and 346 joints $2\frac{3}{8}$ N-80 tubing. Set packer at 10,715' with 15 points. Flange up well head. Rig up to swab. Tag fluid at 300' from surface. Made five runs and recovered 40 barrels water. Pulled from 10,500' on last run. Show of gas on last run. Shut down and shut in.
- 12/18/96: TP 170. Blew down. Rig up to swab. Tag fluid at 9200' from surface. Recovered 5 barrels fluid with $\frac{1}{2}$ barrel oil. Rig down swab. Rig up Halliburton. Load and pressure backside to 300#. Acidize with 2000 gallons MOD 202 with 75 ball sealers. Had trouble with one plunger on pump (iced up), enact pressure. Smoothed out half way through displacement. Had several breaks. 1st was 800# break with 1 BPM increase in rate. Never balled out. Break down 3000#, average pressure 1700#, average rate $4\frac{1}{2}$ BPM. ISIP 60#, 1 minute on vacuum. Load to recover 93 barrels. Rig down Halliburton. Rig up to swab. Tag fluid at 7000' from surface. Made three swab runs and swabbed dry. Recovered 7 barrels. Shut down one hour and make run, 700' fluid in hole, no recovery. Shut down one hour and make two runs. Fluid is at 7000' + 8500' from surface. Recovered 10 barrels. Shut down one hour and make two runs. Fluid is at 9000' from surface. No recovery. Total recovery since acid job 17 barrels. Shut in and shut down.
- 12/19/96: TP 120. Blew down. Rig up to swab. Tag fluid at 8500' from surface, $\frac{1}{2}$ barrel free oil. Make 11 swab runs and recovered 37 barrels fluid with 5% oil cut. Fluid at 9300' from surface on last run. Total recovery since acid job 54 barrels. Shut in and shut down.
- 12/20/96: TP 200. Blew down. Rig up to swab. Tag fluid at 8000' from surface. 1st run 3 barrels oil, 5 barrels water. Made 4 swab runs to pit, recovered 24 barrels. Start swabbing to tank at 9:00 A.M. Made 65 barrels to tank in 7 hours (35 barrels water, 30 barrels oil). Fluid scattered 5000' to S.N. (50% oil cut on last run.) Shut in and shut down.