

**YOUNGER UNIT #1**  
2000' FNL & 1175' FEL  
Section 9-12S-19W  
Ellis County, Kansas

COMPLETION

- 12-31-07 L-K Wireline ran Correlation/Bond Log with Portable Mast. Loggers TD- 3796'. Bond looks good. Top of Cement at 2840'.
- 1-03-08 Moved in Express Well Service Double Drum Derrick and rigged up. Ran Port Collar Opener on 2 7/8" Upset Tubing. Located Port Collar at 1494'. Pressured Casing to 1000# and it held. Opened Port Collar and had good blow. Cemented with 165 sxs. 60/40 Poz Mix, 6% Gel and 1/4# Flow-Seal per sxs. Cement circulated to surface. Pat Bedore with KCC was there to witness. Closed Port Collar and tested to 1000# and it held. Ran 5 joints Tubing and circulated the hole clean. Pulled Tubing and Opener. Swabbed Casing down to 2975'. Perforated the "C" 3510' to 3516', "E" 3532' to 3535', "H" 3593' to 3599', and the "I" 3617' to 3619' with 2 shots per foot on the "C" zone and the "H" zone, and 4 shots per foot on the other 2 guns. Had shows of oil on all guns except the "H".
- 1-04-08 Ran 5 1/2" Bridge Plug and Packer on 2 7/8" Upset Tubing. Set Bridge Plug at 3628'. Left Packer swinging at 3615'. Rigged up swab. Fluid at 2800'. 200' gassy oil on top. Ran back in and tagged fluid. Spotted 250 gal. 15% Mud Acid over the "I" from 3617' to 3619'. Set Packer at 3512'. Slowly started moving up on pressure. After 1 hour and 15 minutes we were at 1500#. Began slowly feeding and then broke off with 2 Bbl. In formation it communicated up to the "H" zone 3593' to 3599'. Pumped a total of 24 Bbl. Left Packer set. Ran in with the swab and fluid was at 1800'. Made a pull. 2<sup>nd</sup> pull- fluid at 2150'. 3<sup>rd</sup> pull- fluid at 2400'. Released Packer and moved up to 3565' and set Packer. We now have the "H" and "I" zones isolated. We should have the first 250 gal. of acid back in the Tubing. Treated with 250 gal. 15% Mud Acid. Loaded at 15 Bbl. 7 Bbl. Early. It started taking acid on its own. After 2 Bbl. In we began treating at 1.25 BPM at 150# to 200# by the end of the job. Total Load- 35 Bbl. ISIP- 150#. 2 minutes- 100#. 12 minutes it still had just a little pressure on it. Let set another 15 minutes and swabbed the load back. Swab Down- 25.5 Bbl. Put on 1-15 minute pull- .75 Bbl. 95% oil- Oil looks a little heavy. Released packer and went after Bridge Plug. Reset Bridge Plug at 3565'. Made 2 pulls to get any hot acid off the backside. Fluid at 2900' and 3000'. Spotted 250 gal. 15% Mud Acid over the "E" zone 3532' to 3535'. Pulled up and set Packer at 3525'. Hole loaded 1/2 Bbl. Early. Started pumping at 5 GPM at 0 to 150# and broke to 100# and then worked its way back to 150#. When acid on bottom it broke to 100#. Got 1.5 Bbl. In formation and it communicated to the "C" zone 3510' to 3516'. We pumped 6 Bbl. Of acid and 16.5 Bbl. Of flush. Rigged up swab. Ran in and fluid was at 2000'. 2<sup>nd</sup> pull- 2200'. We swabbed back 31 Bbl. Total. Some of the fluid was fairly hot. Last pull was

dead. Good show of oil and acts like it is filling up. Released Packer and shut down.

1-05-08 and 1-06-08 Shut Down.

- 1-07-08 Pulled up and set Packer at 3502'. Ran Swab. Fluid was at 2550'- 950' fill up- 95% Oil with good gas. Let set 15 minutes- 175'- 1 Bbl., 95% oil. Treated the "C" and "E" with 750 gal. 15% Mud Acid. Loaded ½ Bbl. Early and was taking at .5 BPM at 100#. After 1 Bbl. In we nt to .75 BPM at 100#. With 4 Bbl. In the formation it went back to 0. Increased to 1 BPM at 0. ISIP- vacuum- very slight. Total Load- 40 Bbl. Let set 15 minutes and swabbed the well down. Swab Down- 25.88 Bbl. Short 14 Bbl. Of the Load. Put on 4-15 min. pulls. 1<sup>st</sup> hour- 2.92 Bbl. 95% oil. 2<sup>nd</sup>- 2.08 Bbl. 95% oil. Released Packer and went down to right above Bridge Plug. Began swabbing down the backside. About 5 pulls and we had it back on lively gassy oil. Went after Bridge Plug. Reset Bridge Plug at 3628' and set Packer at 3565'. We now have the "H" and "I" zones isolated. Ran swab and swabbed down- 320' fluid. Let set 10 minutes and had 150' mostly gassy oil. Treated with 750 gal. 15% NE Acid with 3% Mutual Solvent. Loaded 1 Bbl. Late. Started treating at 2.25 BPM at 100# and slowly built to 200# after 5 Bbl. In the formation. Started backing off the rate but staying at 200# throughout the job. Final Rate- 1.5 BPM. ISIP- 150#. 1 minute to 100#. 10 minutes to vacuum- very slight. Total Load- 45 Bbl. Let set another 5 minutes and swabbed the load back. Swab Down- 32 Bbl. with a good show of gassy oil.
- 1-08-08 Ran in with swab. Fluid at 2900'. 650' fill up- 95% gassy lively oil. Put on 4-15 minute pulls. 1<sup>st</sup> hour- 6.68 Bbl. And last 2 pulls were all oil. Pulls were as follows- 265', 165', 150', and 120' all oil the last two. Water is load water. Tried to released Packer and could not get it free. Pulled Tubing and Packer. Went back in with Catcher on Tubing and got hold of Plug and came out with Tubing and Bridge Plug. Ran 15' Mud Anchor, 1.1' Seating Nipple and 122 joints- 3707.21'- 2 7/8" Upset Tubing. Ran swab and fluid at 2800'- 90% oil. 2<sup>nd</sup> pull fluid at 3000' and mostly water. 3<sup>rd</sup> pull- 3050' with a good show of oil.
- 1-09-08 Ran swab 6 times. Last pull was 350' all oil. Ran 2 ½" X 1 ½" X 12' Metal to Metal Insert Pump on 10-250'-7/8" Rods, 82-2050'- 3/4" Rods, and 55-1375'- 7/8" Rods, with 1-4' 7/8" Pony on top. Hooked up well head and tore down rig. Will move when they can.