

175-10W  
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Downing-Nelson Oil Co.  
STEELE #1-23  
330' FNL & 1733' FEL  
Section 23-14S-16W  
Ellis County, Kansas

15-051-25469  
RECEIVED  
MAR 23 2006  
KCC WICHITA

- 12-7-05 Moved in KC Well Service Double Drum and rigged up.
- 12-8-05 After getting rig started and warmed up, ran 4 7/8" Bit on 4 Drill Collars and 2 3/8" Tubing. Started drilling at 12:45 pm. Fell through the DV Tool at 3:45 PM. Reamed clean. Circulated the hole clean. Pulled Tubing, Collars, and Bit.
- 12-9-05 Ran Correlation/Bond Log. Top of cement- 2665'. Cement looks good. Loggers TD-3478'. Swabbed the Casing down to 3000'. Perforated 3408' to 3412' in the Arbuckle with 4 shots per foot Expendable. Ran 5 1/2" Packer on 2 3/8" Tubing. Packer is at 3399' and we left it swinging. Ran swab. Fluid at 2875'. First pull was mostly oil. 2<sup>nd</sup> pull- water with a little oil. Carrying some mud with the oil. Swabbed down to 100' left in the hole. Left Packer swinging and shut well in.
- 12-10-05 and 12-11-05 Shut Down.
- 12-12-05 Ran swab in hole. Fluid at 2500'. 900' fill up. 700' oil and 200' water. Swabbed down to 3100'. Spotted 100 gal. 15% Mud Acid over the Arbuckle Perfs from 3408 to 3412'. Set Packer at 3391'. Hole loaded. Let set 15 minutes- no movement. Pressured to 200# and began staggging. Got 1.5 Bbl. In and getting tighter. Increased to 300#. After 1.5 hours we finally got 2 Bbl. In and it was still getting tighter. Shut in with 10 gal. to go, at 300#. 10 minutes- 125#. 15 min.- 125#. Released pressure and got back 1 Bbl. Total Load- 15 Bbl. Swab down- 13.5 Bbl. 15 min. test- .5 Bbl, 80% oil; Let set 30 min.- .33 Bbl., 90% oil. Let set for 1 hour- .5 Bbl., 90% oil. Released packer and had problems getting it to equalize. Ran down with the swab twice to get acid off the backside. Left Packer swinging.
- 12-13-05 Positioned bottom of the Tubing at 3412'. Tagged fluid at 2950'- 450' fill up. Spotted 250 gal. 15% Mud Acid over the Arbuckle Perfs 3408' to 3412'. Set Packer at 3391'. Staggged first Bbl. In at 300#. Put next .8 Bbl. In at 400#. Put next Bbl. Of Acid in at 500#. Staggged another Bbl at 600#. No change. Increased to 700# and it would almost feed. Got another .2 Bbl. In and increased to 800#. With 1.2 Bbl. Of acid left we began feeding at .2 BPM at 840# and broke slowly back to 725# by end of the job. Overflushed 1 Bbl. Total Load- 21.21 Bbl. ISIP-700#. 5 min.- 400#, 10 min.- 250#, 15 min.- 120#, 20 min.- 50#. Slight vacuum in 30 Min. Swab down- 23.2 Bbl. Put on 15 min. pulls. 1<sup>st</sup> hour- 15 Bbl. Pulling 850' per pull. Started with a trace of oil and last pull was 3 to 5 %. 2<sup>nd</sup> hour- 15.6 Bbl. 2% oil.
- 12-14-05 Tried to release Packer and could not get it to release. Loaded the backside and still could not get it to released. With Packer set at 3290' we hooked to Tubing and

took an Injection Rate- 2 BPM at 1000#. Still could not get Packer to release and go down. Pulled Tubing and Packer. Ran new 5 ½" Packer on Tubing. Set Packer at 3323'. Loaded the backside and pressured to 500#. Took Injection Rate- 2 BPM at 1000#. Mixed 50 sxs. Common Cement with Slickem. In 1 hour and 10 minutes it squeezed to 2000#. Released Packer and circulated the hole clean. Started washing down and got to 3366'. Tried 3 times to get deeper and could not get washed out. Pulled Tubing and Packer.

- 12-15-05 Started running 4 7/8" Bit on 2 3/8" Upset Tubing. Got all but the last row in and Wind got too strong to continue. Cross Threading every joint. Shut down.
- 12-16-05 Finished running tubing and bit to bottom. Began drilling cement at 3366'. Fell through cement at 3415'. Drilled 49' of hard cement. Pressured to 500# and it held. Ran down to TD- 3480'. Circulated the hole clean and pulled Tubing and Bit.
- 12-17-05 Swabbed the Casing down to 2900'. Perforated Arbuckle from 3408' to 3416' with 4 shots per foot Expendable, "K" zone from 3333' to 3336', "J" zone from 3310' to 3314', "I" zone from 3283' to 3285', "H" zone from 3265' to 3267' and "D" zone from 3162' to 3165'.
- 12-18-05 Shut down.
- 12-19-05 Ran 5 ½" Bridge Plug and Packer on 2 3/8" Tubing. Set Bridge Plug at 3355'. Ran swab and fluid was at 1680' from surface. 1720' fluid in the hole. 300' oil on top. Set Packer at 3322'. Made one pull off bottom. Ran back in and it was dry. Released packer and spotted 250 gal. 15% Mud Acid over the "K" from 3333' to 3336'. Reset Packer at 3325'. Max. Pressure 500#. Treated at .25 BPM at 450# to 485# and backed off to .14 BPM at 485# to 500#. ISIP- 450#. After 15 min.- 300#. Total Load- 20.25 Bbl. Released Pressure and got back 3 Bbl. Swab down- 15.6 Bbl. Total Load Back- 18.6 Bbl. 15 min. test- 50' acid water with no show of oil.
- 12-20-05 Over night Fill Up- 500'- 2 Bbl. Acid water with no show of oil. Released Packer and went after Bridge Plug. Lowered Packer to 3387' and set with the Plug swinging. We now have the Arbuckle Isolated. Made one pull off bottom and fluid was at 1900' and let set 15 min. 250' fluid with good show of oil. 2<sup>nd</sup> 15 min.- 150' but did not come out with anything. Released Packer and moved up to set Bridge Plug at 3325'. Tagged fluid and spotted 250 gal. 15% Mud Acid over the "J" zone 3310' to 3314'. Set Packer at 3304'. Max. Pressure- 250#. Got 4 Bbl. In formation and it communicated up. We were treating at .4 BPM at 100#. Released Packer and moved up and reset at 3275'. We are now over the "I" and "J" zones. Rigged up swab and fluid at 1250'. Made one pull off bottom and ran right back in. 150' muddy water with a show of oil in the mud. Released packer and swabbed back side down to get any hot acid. Tagged fluid and spotted 250 gal. 15% Mud Acid over the "H", "I", and "J". Pulled up to 3255' and set Packer. Loaded .1 Bbl. Late. Taking on its own. After 1 Bbl. In we started treating at 1 BPM at 200#. ISIP- 100#. Slight

Vacuum in 5 min. Total Load- 20 Bbl. Let set 15 min. and swab load back. Swab Down- 15.6 Bbl. 15 min. test- .5 Bbl. With a show of oil. 2<sup>nd</sup>- .3 Bbl., 15% Oil. "D" zone was isolated and appears to be making mostly water. I caught a sample. Released packer and went after Bridge Plug. Reset Bridge Plug at 3180'. Set Packer at 3150'. Made 2 pulls off bottom. Let set 15 min.- 1.75 Bbl., 2% oil. 2<sup>nd</sup>- same. Released packer and went after Bridge Plug. Reset Bridge Plug at 3430' and Packer at 3397'. Arbuckle is isolated. Made 2 pulls off bottom and shut down.

12-21-05 Fluid at 2150'- 1250' fillup- 500' oil on top. Swabbed down and put on 15 min. pulls- 1<sup>st</sup>- 90', 27% oil; 2<sup>nd</sup>- 90', 25% oil. Released Packer and ran down and tagged fluid. Spotted 150 gal. 15% INS Acid over Arbuckle Perforations 3408' to 3416'. Set Packer at 3397'. Loaded the hole with KCL water. After 2 hours it had taken 3/4 Bbl. Of acid. Shut well in overnight.

12-22-05 Fluid was 550' down. Swab down- 11 Bbl. Short 5.5 Bbl. Of the load. Put on 15 min. pulls. 1<sup>st</sup>- 200', 17% Oil; 2<sup>nd</sup>- 130', 13% oil; 3<sup>rd</sup>- 125', 15% oil; 4<sup>th</sup>- 100', 25% oil; 5<sup>th</sup>- 90', 20% oil. Released Packer and went in and made one pull to get any hot acid off the backside. Fluid was at 2200'. Let set 20 min. and tagged fluid when acid trucks on location. Fluid at 2200'. Spotted 250 gal. 15% INS Acid over the Arbuckle perms. Set Packer at 3397'. Loaded the Tubing and let set. After 1 hour- 3.5 Bbl. of acid in formation. Let set another 2 hours and no movement. Started staggging at 100#. Got another 1/2 Bbl. in. It quit staggging at 100#. Increased to 200# and got another 1 Bbl. in formation in 1 1/2 hours. Increased to 300# and staggged until all acid in. Seemed to be getting a little loser at end of the job. ISIP- 300#. 0 in 5 minutes. Vacuum in 7 min. Total Load- 19.6 Bbl. Swab down- 15.1 Bbl. Made two pulls off bottom. Last pull was 300' with a real good show of oil.

12-23-05 Fluid at 1800' with just a show of oil on top. Mostly hot acid water. 1600' fillup. Ran right back in and had 1 Bbl. 2% gassy oil on top. 15 min, test- .75 Bbl., 10% Oil. 2<sup>nd</sup> test- .75 Bbl. 10% oil. 3<sup>rd</sup>- .75 Bbl., 10% oil. Released Packer and went after Bridge Plug. Reset Bridge Plug at 3354'. Made a couple of pulls with Packer swinging to get any hot acid off the backside. Set packer at 3222'. We have the "H", "I", "J", and "K" zones isolated. Made 2 pulls. 1<sup>st</sup> pull- fluid at 2250'. 2<sup>nd</sup> pull- 160' fluid. Treated with 750 gal. 15% NE Acid. Loaded about right. Treated at 1.75 BPM at 325# to 300#. Went to 350# on overflush. ISIP- 50#. Vacuum in 30 minutes. Total Load- 38 Bbl. Swab down- 28 Bbl. Put on 15 min. pulls. 1<sup>st</sup>- 1 Bbl., 15% oil; 2<sup>nd</sup>- .9 Bbl. 17% oil; 3<sup>rd</sup>- .8 Bbl., 20% oil; 4<sup>th</sup>- .75 Bbl., 22% oil.

12-24-05 thru 12-26-05 Shut Down.

12-27-05 Fluid at 1650' from surface- 1575' fill up. 1075' oil and 500' water. Released Packer and went after Bridge Plug. Pulled Tubing, Packer and Bridge Plug. Perforated the "C" zone from 3148' to 3152' with 4 shots per foot Conventional. Ran 5 1/2" Bridge Plug and Packer on 2 3/8" Upset Tubing. Set Bridge Plug at 3156'. Set Packer at 3140'. Swabbed well down. Ran right back in and had 60' fluid with

5% muddy oil. Let set 15 min.- Same. 2<sup>nd</sup> 15 min.- same. Released Packer and tagged fluid and spotted 250 gal. 15% Mud Acid over the "C" zone. Loaded ½ Bbl. late. Well took it on its own at 1.25 BPM. Vacuum. Total Load- 21.42 Bbl. Ran in and fluid at 800'. Swab down- 16.24 Bbl. Made 2 pulls from bottom and hit fluid at 1800' on each pull. Real good show of gassy oil. Shut down for dark.

12-28-05 Over night fill up- 1300'- 550' Clean Gassy Oil on top. Fluid at 1850', 42% oil. Started swabbing steady. Fluid was going down each pull to 2300'- at this point the oil percentage was 35%. Put on 1 hour test- 17.4 Bbl., 70% oil and percentage appears to still be coming up. Released Packer and went after Bridge Plug. Pulled Tubing, Packer, and Bridge Plug. Ran 5 ½" Model AD-1 Tension Packer, 3' Perforation, 1.1' Seating Nipple and 95 joints- 3141.06'- 2 3/8" Upset Tubing with 1-4' Sub. Set Packer at 3157'. Started swabbing on well. After 5 pulls the percentage was 12.5% and fluid back to 2300'. After 1 ½ hours we were up to 65%.

12-29-05 Ran 2" X 1 ½" X 12' Metal to Metal Insert Pump on 125- 3125'- new 3/4" Rods. Hooked up well head. Tore down and moved off.

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