

**MYCO Industries, Inc.**  
**Daily Completion Report**  
**Clearfork Completion & Workover**

University 8-4 #1  
1980' FNL & 1980' FEL  
Block 8, Sec 4, University Lands.  
Landman: Hannah Palomin  
Andrews County, Texas

Geol: Jim Schlueter

API Number: 42-003-40980  
PBSD: 10,180' by CBL  
Formation: Wolfberry  
Eng: Nelson Muncy  
Elevations: 3022' GR, 3040' KB

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**Current tubing and rod configuration from 8-28-2009:**

**2 7/8" production tubing details from Top--Down:**

GIH w/ 2-7/8" 6.5# L80 EUE production tubing as follows:

KB Correction:	16.00
270 Joints 2.875" 6.5# L80 EUE tbg	8,458.75'
2-7/8"x5.5" Baker 45K TAC	2.80
50 jts 2-7/8" 6.5# L80 EUE tbg	1,571.26'
2-7/8" Mechanical Hold Down SN	1.10
2-7/8" Perforated sub	4.00
2 jts 2-7/8" 6.5# L80 EUE tbg (MJ)	60.75'
2-7/8" Bull Plug	0.40

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**10,115.06'**

**Total Tubing Length**

Tubing Anchor / Catcher at: 8,477.55'  
Mechanical Hold Down SN at: 10,049.91'  
End of Tubing at: 10,115.06'

**Rod Details From top-- Down:**

1-1/2"x26' PR w/1-3/4"x1-1/2"x16' PRLNR  
1'x6'—sub  
129-- 1" Rods  
133-- 7/8" Rods  
132-- 3/4" Rods  
6—1-1/2" Kbars  
2.5"x1.5"x24' RHBM—Mechanical Hold Down Pump w/ 5' grooved  
plunger & monel pins. RH Release on pump.

**Total Rod Length---10,053'**

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**2-8-2010**

Drive to location. Hold 5 min tailgate safety meeting. Move in and set rig matting boards, and pipe racks. Move in and rig up Key Energy Services work over rig #319. Bleed well down & lay down the polish rod. Pulled and jarred on rods-- pump was stuck. Jar on pump and could not get pump loose. Rig up back off tool. Back off rods at the on/off box. Lay down a 6'x1" sub and a 1" rod then picked up polish rod to secure well. Leave well open down the sales line. SDFN.

**2-9-2010**

Drive to location. Hold 5 min tailgate safety meeting. Bleed well down and lay down polish rod. POOH & L/D 40--1" rods. POOH and hang 88--1" rods in the rod basket. L/D 27--7/8" rods and hang 106--7/8" rods, hang 132--3/4" rods in the rod basket & L/D 6--1.5" Kbars. Break out the right hand release box. Bleed casing down. RU pump truck & pumped 20 bbls of 2% KCL water down the casing to kill gas. NDWH, Nipple up double ram 5M manual BOP, unset TAC, & POOH laying down 16 jts of 2 7/8" 6.5# N80 EUE tubing. Continue POOH & stand back 17 stands of tubing and got to fluid level. RU swab and flow line to half pit. Make 5 runs & lowered fluid level down to 5,300'. POOH w/89 more stands. Secure well SDFN.

**2-10-2010**

Drive to location. Hold 5 min tailgate safety meeting. Bleed well down and continue to POOH w/42 more jts of 2 7/8" 6.5# L80 EUE tubing, 2-7/8" x 5.5" TAC, then pulled 50 more joints of 2 7/8" 6.5# L80 tubing, 2 7/8" Mechanical hold down SN w/ 2.5" x 1.5" x 24' stuck pump, 4' x 2 7/8" perforated sub, 1.25" X 20' gas anchor, 2 jts 2 7/8" 6.5# L80 EUE tbg & 2 7/8" Bull plug. Clean out mud joints. Recover a small amount of frac sand. Make up RIH w/ 2 3/8" x 5.5" Crest Packer, cross over, 2 7/8" SN and 323 joints of 2 7/8" 6.5# N80 tubing. Tag at 10,147'. Well bore has 35' of fill in the hole. Pull 10 joints, set packer at 9,836' to swab test the Wolfcamp formation 9,874'--10,098', with 40 holes and 10,130'--10,169' with 42 holes. Rig up swab and GIH. Initial Fluid Level at 8,800' from surface. Pull swab from SN and recover 400' of black water. Make total of 6 swab runs. Fluid level was staying at 8,800' FS. Pull each swab run from SN. Ending fluid level was at 8,900' FS. Recover 9 bbls of load water. Secure well & SDFN. Plan to check pressures & fluid entry in the am.

**2-11-2010**

Drive to location. Hold 5 min tailgate safety meeting. SITP-10 psi, SICP-80 psi. Bleed well down and rig up swab. Make up swab and go in hole with swab. Tag initial fluid level at 8,800' from surface. Pull first swab run from the SN. Recover 500' of blackish water w/ 2% oil cut and no gas blow during or after the run. Make a total of 5 swab runs. Fluid level was holding steady at 8,800' FS. Pulled each swab run from the SN and the EFL was at 8,900' FS. Recover 3.3 bbls of water (400' fluid each run). Rig down swab and unset the packer. POOH w/tubing and packer. Make up RIH w/5.5" Kline Crest RBP, on & off tool, 2 3/8" x 5.5" Crest Packer, XO, 2.5" SN and 313 joints of 2 7/8" 6.5# N80 tubing. Pick up 8' sub and set RBP at 9,850'. Get off of RBP & set Pkr @ 9,840'. Rig up pump truck, load tubing w/50 bbls of 2% KCL water & Test RBP to 2,000 psi--OK. Release pressure, unset packer then POOH with the 8' sub and 4 jts of tubing. Set packer at 9,707' to swab test the Dean formation from 9,742' -- 9,826' (36 holes). Secure well SDFN.

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**2-12-2010**

Drive to location. Hold 5 min tailgate safety meeting. SITP was 30 psi and SICP was 40 psi. Bleed well down, rig up and GIH w/ swab. Initial FL was 7600' FS. POOH w/ swab and recovered 3.5 bbls of blackish looking, dirty water w/ 1% oil cut and no gas blow during or after the run. Made 6 swab runs, with the fluid level was staying @ 9300' FS. Make a total of 6 hourly runs with the FL s @ 9300' on all the runs. Ending FL on last swab run was 9500' FS. Recover a total of 10.5 bbls of dirty water w/ a 1% oil cut. Color cut showed approx ½ bbl of oil. Secure the well & SDFN.

**2-13-2010**

Drive to location. Hold 5 min tailgate safety meeting. SITP was 100 psi and SICP was 45 psi. Bleed well down, rig up and GIH w/ swab. Initial FL was 8,800' FS. POOH w/ swab and recovered 4 bbls of black looking, dirty water w/ a 1% oil cut and no gas blow during or after the swab run. Rig down and lay down swab, open bypass & release packer. Move down hole and latch onto the RBP. Release RBP and pull up hole to 9613'. Set RBP at 9,613' with 306 jts in the hole. Set packer at 9,582', rig up pump truck, load tbg with 49 bbls of 2% KCL water & test RBP to 2,000 psi OK—Bleed pressure off. Release packer and pull out of hole with 32 jts of 2 7/8" 6.5 N80 tubing. Set packer at 8,575' (273 jts in the hole). Rig up and swab test the Sprayberry perforations 8617' to 8967' and 9143' to 9533'. Load 5.5" casing & test packer to 500 psi with 115 bbls of 2% KCL water. Rig up and GIH w/ swab. Initial FL was 8,300' FS. POOH w/ swab-- no fluid recovered. Make 4 hourly swab runs with the fluid level at 8,300' on all of the runs. No fluid recovered on any swab runs. Secure well, SDFWE.

**2-14-2010**

Shut down for Sunday.

**2-15-2010**

Drive to location. Hold 5 min tailgate safety meeting. SITP was 100 psi and SICP was 0 psi. Bleed well down, rig up and GIH w/ swab. Initial FL was 8,300' FS. POOH w/ swab and recovered 100' of fluid sample showed an 80% oil cut and no gas blow during or after the swab run. Make 6 more hourly runs with the fluid level at 8,300' on all of the runs. All of the samples showed 5% oil cut but no gas during or after the run. Rig down swab, Secure well, SDFN.

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**2-16-2010**

Drive to location. Hold 5 min tailgate safety meeting. SITP was 50 psi and SICP was 0 psi. Bleed well down, rig up and GIH w/ swab. Initial FL was 8,300' FS. POOH w/ swab and recovered 150' of fluid. Sample showed a 50% oil cut and no gas blow during or after the swab run. Make 4 more hourly runs with the fluid level at 8,300' on all of the runs. All of the samples showed 5% oil cut but no gas during or after the run. Rig down and lay down swab, open bypass & release packer. Move down hole and latch onto the RBP. Release RBP, POOH laying down 33 jts, Set RBP at 8,575' with (273 jts in the hole). Set packer at 8,570', rig up pump truck, load tbg with 47 bbls of 2% KCL water & test RBP to 2,500 psi OK—Bleed pressure off. Release packer and pull out of hole with 273 jts of 2 7/8" 6.5 N80 tubing. Make up and RIH w/ 2 3/8" SN, cross over and 233 joints of 2 7/8" 6.5# N80 tubing in preparation to run rods in hole to lay them down. Secure well SDFN.

**2-17-2010**

Drive to location. Hold 5 min tailgate safety meeting. SITP—a slight blow SICP was 0 psi. Bleed well down, continue GIH w/40 more jts of 2 7/8" 6.5# N80 tubing. Rig up equipment to run rods. Run rods in the hole out of the Derrick. POOH laying down all the rods onto a haul trailer. Move all of the rods and polish rod to the Myco Andrews Yard for safe keeping until Clearfork Frac is completed. Haul rods via Basic haul truck. Secure well SDFN. Prepare to cap off RBP w/22' of sand and LD tubing to prepare for 3 stage frac job.

**2-18-2010**

Drive to location. Hold 5 min tailgate safety meeting. SITP—0 psi SICP was 0 psi. Open well and dump 3 sacks of sand down the tubing followed by 30 bbls of 2% KCL water for cap on RBP. POH and lay down remaining 273 joints of 2 7/8" 6.5# L80 tubing. Rig down & release Key Energy Services work over rig #319. Clean the location & SDFN.

**Transfer 322 jts, 10,090.76' 2 7/8" 6.5# L80 EUE tubing back to Myco Andrews Yard.**  
**Transfer 394 sucker rods, Polish rod liner & subs back to Myco Andrews Yard.**  
**from University 8-4 #1.**

**Transfer 13 jts, 409.29' 2 7/8" 6.5# L80 EUE tbg from University 8-4 #2 to Myco Andrews yard.**

**All the tubing, rods and pumping equipment on racks for storage and not back in inventory**  
**From the University 8-4 #1.**

**2-19-2010**

Drive to location. Hold 5 min tailgate safety meeting, finish cleaning up around location. Move Key Energy Services Rig #319 to (Dinero Exxon 22 St #1).

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**2-26-2010**

Start filling frac pits with fresh water from water wells. Prepare to move in tanks and equipment to frac on Wed, 3-3-2010.

**2-27-2010 & 2-28-2010**

Shut down for the weekend.

**3-1-2010**

Start moving in frac tanks for frac to be pumped on Wed, 3/3/2010. Continue to fill fresh water frac pits with water.

**3-2-2010**

Drive to Myco Andrews yard and confirm water is still filling frac pits. Meet with Alliance roustabout crew. Meet with Cameron service tech (Mark Dennis) and check pressure on 5.5" csg. Casing has slight pressure with oil on top. Rig up vacuum truck to wellhead and flow back two bbls oil and transfer into oil stock tank #205072 of tank battery. Remove wellhead flange and install Myco Frac Mandrel #\_\_\_\_\_ and 5 1/8" 10M Frac Valve #\_\_\_\_\_. Cameron Tested flanges with no leaks. Release Cameron and the roustabout crew. Continue setting tanks and filling with fresh water for the frac job on Wed, 3/3/2010. Set BMB light towers and portable johns. Set last frac tank at 1830 hrs. Multi port frac head arrived at 1745 hrs and installed on Myco 5 1/8" 10M frac valve. Superior Energy Services sand king arrived on location at 1830. Start filling with 20/40 White sand. Resin coated sand will arrive in one truck in the am prior to frac time. HCL acid arrived at 2100 hrs and unloaded acid in acid tank containing 115 bbls fresh water to make required acid volume. Continue to fill frac tanks with water through the night. (Lance w/ J. A. McKee trucking monitoring frac tank fill up throughout the night.)

Flow back ½ tank with gas buster delivered to location.

Well is prepared to pump frac stimulation on Clearfork in the am.

Wire line lubricator flange installed on the multi port frac head. J.W. Wireline and Superior Energy Services plan to be on location in the am by 0900 hrs.

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**3-3-2010**

Drive to location. All tanks filled with proper water volume. Move in and rig up JW Wire Line electric line truck and full lubricator with grease injection for 5M pressures. Make up and go in hole with 3.125" OD slick casing gun. Test lubricator, casing and flanges to 5000 psi. Correlate on depth to Wood Group CBL log dated 18 June, 2009. Perforate Clearfork Stage #1 perforations as follows:

**Stage #1: 8362-64, 8392-94, 8418-20, 8446-48, 8468-70, 8492-94**  
**21 holes, 0.48" EHD, 23 gr charge, 120 deg phasing.**

Pull out of hole with casing gun. All shots fired. Finished rigging up Superior Well Services frac equipment while perforating. Hold pre job safety meeting. Test lines to 7000 psi. Pressure up on perms and break formation at 3394 psi at 6.5 BPM. Switch to acid and pump 2000 gallons of 15% NEFE HCL acid. Increase rate to 26 bpm at 3065 psi. A 1500 psi pressure drop occurred with acid on perms. Increase rate to 50 BPM. Frac Stage #1 with 68,500 gal 17# XL gel carrying 101,500# 20/40 White sand. Spot 2000 gal acid across interval of the next Stage #2 perforations. Shut down.

Max pressure—4848 psi. Avg pressure—2743 psi. Avg rate—48 bpm. ISDP—1160 psi.  
Load water to recover—1607 bbls.

Hold post job safety meeting. Bleed off pressure, shut in well and rig up JW Wire Line on the well. Go in hole with 5.5" Smith Copperhead CIBP and 3 1/8" slick guns. Correlate on depth with CBL log and set CIBP @ 8320'. Perforate Clearfork Stage #2 perforations as follows:

**Stage #2: 8054-56, 8068-70, 8086-88, 8096-98, 8106-08, 8116-18, 8126-28**  
**8362-64, 8392-94, 8418-20, 8446-48, 8468-70, 8492-94**  
**52 holes, 0.48" EHD, 23 gr charge, 60 Deg Phasing.**

Perforate 1<sup>st</sup> run and then had gun problems on 2<sup>nd</sup> run. Rerun and perforate 2<sup>nd</sup> run. Rig down electric line and confirm all shots fired. Cap wire line port and start frac on Stage #2. Pressure up and break formation at 2799 psi @ 5.7 bpm. Increase rate to 23 BPM @ 2568 psi. Put away acid and Frac Stage #2, 8054—8494 w/ 72,000 gallons 17# XL gel + 101,000# 20/40 White sand.

Max pressure—5185 psi. Avg pressure—2469 psi. Avg rate—70 BPM. ISDP—1169 psi.  
Load water to recover—1665 bbls.

Hold post job safety meeting. Bleed off pressure, shut in well and rig up JW Wire Line on the well. Go in hole with 5.5" Smith Copperhead CIBP and 3 1/8" slick guns. Correlate on depth with Wood Group CBL dated 18-June-2009. Set CIBP @ 8024'. Pull up hole and perforate Stage #3:

**Stage #3: 7714-16, 7750-52, 7854-56, 7918-20, 7954-56, 7974-76, 7992-94**  
**21 holes, 0.48" EHD, 23 gr charge, 120 deg phasing.**

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**3-3-2010 Continued**

POH with casing guns, confirm all shots fired and cap off head. Frac Stage #3. Pressure up and break formation @ 1007 psi at 7.4 bpm. Increase rate to 27 bpm @ 1489 psi. Bring rate up to 50 BPM @ 2192 psi. Put away 3000 gal 15% HCL NEFE acid. Frac Stage #3 with 90,000 gal 17# XL Gel + 100,000# 20/40 White Sand.

Max pressure—2220 psi. Avg pressure—1837 psi. Avg rate—50 BPM. ISDP—1324 psi.  
Load water to recover—1744 bbls. **Cum Bbls load to recover—5016 bbls.**

Each frac stage pumped sand concentrations of 1#, 2#, 3# & 4#/gal.  
Shut down at 2330 hrs, 3/3/2010. Rig down and release JW Wire Line and Superior Well Services.

Hook up flow back iron to flow back tank. Open up well at 0330 hrs with 700 psi. Flow back on 24/64 choke with pressure steadily dropping down to 250 psi. Flow back at 50 BPM rate into tank.

Flow back 205 bbls load water at 0600 hrs, 3/4/2010. **4811 BLWTR.**

**3-4-2010**

Continue to flow back well while rigging up Bobcat 2" coil tubing unit & debris catcher. Rig up to choke manifold. Make up 4 3/4" OD 5 bladed mill, 2 7/8" BICO motor, hydraulic release, XO, CT Connector. Pull test and pressure test tools. Go in hole w/ 4 3/4" mill on 2 7/8" motor at 1000 hrs 3/4/2010. Tag plug at 8024'. Drill out plug and continue in hole with CT. Wash down to plug #2 at 8320'. Drill out plug and continue in hole. Tag up and wash sand down to within 10' of RBP at 8565'. Circulated bottoms up two times. Pump sweep and chase it out of the hole. Pull out of hole w/ coil tubing and tools. Break off and lay down mill and motor. Rig down and release coil tubing unit and tools at 1600 hrs on 3/4/2010. Continue to flow well back to the flow back tank overnight. Flow back well on 28/64 choke with 300 psi. Pressure slowly decreasing through the night and flowed back 650 bbls load water. At 0600 hrs on 3/5/2010—Flowing on open choke with 10 psi FCP making 10 bbls/hr. **4161 BLWTR.**

**3-5-2010**

Flow back well to test tank in intermittent slugs. No show of oil and very slight gas. Flow back a total of 180 bbls load water from 0600 hrs 3/5/2010 to 0600 hrs 3/6/2010. **3980 BLWTR.**

**3-6-2010**

Well is dead this am at 0600 hrs. Shut well in. Empty the flow back tank of fluids. We will open the well backup this evening and check for pressure and flow.

**3-7-2010**

Shut in casing pressure at 1800 hrs, 3-6-2010 was 40 psi. Open up well and bleed off gas. Leave well open and flow back a total of 105 bbls load water with no flow at 0600 hrs, 3-7-2010. **3875 BLWTR.**

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Flow back 32 bbls load water in the past 24 hrs. Move in Choctaw Well Service and spot rig on location. Prep to run bailer, clean out sand and install production tubing. **3843 BLWTR.** Move in and set rig matting boards. Rig up Choctaw Services workover rig. Set in pipe racks and go to Myco Andrews Yard to load tubing and rods. Transfer 275 joints, 2 7/8" 6.5# L80 EUE tbg to Univ 8-4 #1 location and also load 143—3/4" rods, 109—7/8" rods, 92—1" rods and 6—1.5" Kbars, polish rod and liner to location via Basic Energy trucks. Haul tubing and rods to location. Unload rods and put on T-Sills, unload tubing onto pipe racks. Tally top layer of tubing. Prepare to TIH with bailer to confirm sufficient rat hole. Secure well. Shut down due to high winds.