

**STATE OF NEW MEXICO  
DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES  
OIL CONSERVATION DIVISION**

**APPLICATION OF MEWBOURNE OIL COMPANY  
FOR A NON-STANDARD OIL SPACING AND  
PRORATION UNIT AND COMPULSORY POOLING,  
EDDY COUNTY, NEW MEXICO**

**CASE NO. 15449**

**AFFIDAVIT OF JOHN LANGHOFF**

STATE OF TEXAS            )  
                                  ) ss.  
COUNTY OF MIDLAND    )

JOHN LANGHOFF, being duly sworn, states:

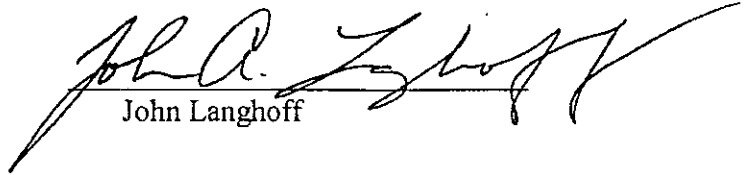
1. I am the age of majority and am otherwise competent to testify to the matters set forth herein of which I have personal knowledge.

2. I am Petroleum Engineer for E.G.L. Resources, Inc. in the company's Midland, Texas office. Among other areas, I am familiar with the company's operations in the vicinity of Section 28, Township 18 South, Range 29 East, NMPM in Eddy County, New Mexico. I am familiar with the lands that are the subject of the Application in this case.

3. The attached Well Work Report for the Trigg-Jennings Com. No. 1 Well with a beginning date of April 26, 2004 is a true and exact copy of the original maintained in the files of E.G.L. Resources, Inc. in the ordinary course of business. In addition, I was present at the well location when the work reported for April 26, 2004 was performed. The Well Work Report accurately describes the condition of the well and the work performed.

NMOCD CASE NOS. 15448 and 15449  
Black Mountain/E.G.L.  
Exhibit No. 1  
March 31, 2016

FURTHER AFFIANT SAYETH NOT.

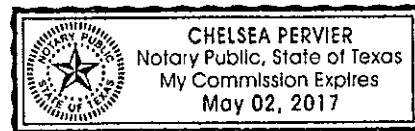
  
John Langhoff

Subscribed, sworn to and acknowledged before me on this 30 day of  
March, 2016, by John Langhoff.

  
Notary Public

My commission expires:

May 2017



**TRIGG-JENNINGS COM. NO. 1**  
**660' FSL & 1,980' FWL, SEC 28, TWP 18-S, RGE 29-E**  
**EDDY COUNTY, NEW MEXICO**

**WELLWORK REPORT**

April 26, 2004

Test deadman anchors prior to rig moving in. 7:00 am. MIRU Key Energy Services workover unit. SITP = 0 psig (slight blow), SICP = 350 psig. Bleed well off (+/- 10 minutes). 2" 5000 psi casing valve on tubing head will not close, attempt to change out same. Wait on welder to cut bolts so that casing valve could be removed. Tubing started flowing while waiting on welder. Kill casing w/ 80 bbls 2% KCl water. Change out csg valve. Kill tubing with 40 bbls 2% KCl water. ND wellhead. NU BOP. Send in wellhead for service/testing. RU floor and tongs to pull tubing. POOH w/ 108 stands tallying 2-3/8", N-80, 4.7 #/ft 8-rd EUE tubing. SDFN @ 6:30 pm.

Daily Cost: \$ 4,805

Cumulative Cost: \$ 4,805

April 27, 2004

7:00 am. Waited 45 minutes for derrick hand to reach location. Continue POOH with additional 69 stands 2-3/8" tubing (354 jts total, tally = 10,929.34'), 6' pup jt, 2-3/8" SN, and On-Off tool skirt. RU Gray Wireline. RIH w/ 4.34" gauge ring-gamma ray-CCL. Tag fill @10,990'. Correlate to Dresser Atlas Compensated Densilog Compensated Neutron log dated 4-12-79. Run GR-CCL correlation log from 10,986' to 9,000'. RIH w/ 5-1/2" CIBP and set at 10,955'. RIH w/ dump bailer and dump 4 sxs cement on top of CIBP. Perforate in four runs with 4" TAG gun loaded 2 spf, 120° phasing as follows: Run #1 10,634' - 40' (12 holes) & 10,616' - 22' (12 holes), Run #2 10,608' - 14' (12 holes) & 10,616' - 22' (12 holes) (was shot twice), Run #3 10,548' - 66' (36 holes) & 10,570' - 72' (4 holes). Wait 50 minutes for additional gun. Run #4 10,582' - 88' (12 holes). Fluid level was 6,880' FS on all runs. RD Gray Wireline. RU Professional Testers. PU Arrowset 1X pkr, On-Off tool w/ 1.87 "F" profile, and RIH hydrotesting tubing to 7,000 psi below slips. Test in hole w/ 45 stands. Pump 130 bbls 3% KCl water down casing. SDFN @ 7:30 pm.

Daily Cost: \$17,545

Cumulative Cost: \$22,350

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**WELLWORK REPORT**

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April 28, 2004

7:00 am. SITP = 10 psi. Continue RIH w/ pkr hydrotesting tubing to 7,000 psi below slips. Tested 354 jts. finding no leaks. Lay down 15 joints tubing. RD hydrotesters. Space out and set pkr at 10,494'. RU swab equipment. Initial fluid level = 700' FS (Appears that fluid level was static overnight – calculated fluid level would have been +/-881' FS based upon). Swab 11 runs with slight show of gas (could be trapped gas from previous zone). Last fluid level = 9,900' FS pulling from 10,400'. Well swabbed down with no apparent fluid entry. RD swab equipment. SDFN @ 5:30 pm.

Daily Cost: \$10,115

Cumulative Cost: \$32,465

April 29, 2004

7:00 am. SITP = 20 psi. Open well. RU Schlumberger to acidize well. Load tubing. Release On-Off tool. Pickle tubing w/ 300 gallons 15% HCl spotting to end of tubing. Reverse out pickle acid and reverse in 3% KCl packer fluid. Latch On-Off tool. Breakdown perfs at 3,960 psi and establish rate of 2.0 BPM @ 4,680 psi pumping 4.4 bbls 3% KCl. Acidize well with 3,000 gallons 15% HCl MSR-100 acid and 112 1.3 SG RCN ball sealers. Avg 2.2 BPM and 4,800 psi. Max 2.5 BPM and 5,260 psi. ISIP - 4,550 psi, 5" – 4,400 psi, 10" – 4,350 psi, and 15" – 4,310 psi. Had slow packer leak during acid job requiring bleeding off of annulus pressure. Bleed down tubing and casing to tank. Test casing and found communication. Open bypass on packer and reverse in w/ 41 bbls 3% KCl water. Release pkr. PUH and re-set packer 2 feet higher. Test casing and packer to 500 psi. Test good. Flow tubing back to tank and died after one hour. RU swab equipment. Swab 8 runs pulling fluid level from surface to 5,000' FS. Recovered approximately 20 bbls acid water and acid gas. Well on vacuum following each run. SDFN @ 6:30 pm.

Daily Cost: \$14,580

Cumulative Cost: \$47,045

April 30, 2004

7:00 am. SITP = slight vacuum. Continue swabbing perfs 10,548' to 10,640' making 13 runs today. Initial fluid level 3,600' from surface recovering dirty-silty brown water. Well on vacuum following run. Fluid level continued to drop on each additional swab run throughout the day. Last run found fluid level 10,100' from surface and recovered no fluid to surface. Well on slight vacuum following runs toward end of day. All runs recovering fluid showed dirty-silty brown water with no indication of oil or gas. Calculated FER of 1.3 BPH. Checked casing and csg was dead (no blow, no vacuum). Shut well in and SDFWE @ 2:30 pm.

Daily Cost: \$ 2,555

Cumulative Cost: \$49,600

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May 3, 2004

7:00 am. SITP = 200 psi. BWO w/ show of natural gas. RU swab equipment. Continue swabbing Atoka perfs 10,548' to 10,640'. Swab 6 runs as follows: 1-st run FL 7,800' FS, 2-nd run FL 8,700' FS, 3-rd run FL 9,000' FS, 4-th run FL 9,500' FS, 5-th run FL 10,100' FS swabbing dry with no fluid recovery, waited one hour, and 6-th run was same as 5-th run. All recovery was muddy-silty water with slight show natural gas ahead of runs. Well went on immediate vacuum following each run. RD swab equipment. Release pkr. POOH w/ pkr. Got to surface and pkr was left downhole. RIH w/ On-Off tool skirt and found pkr at 2,880'. Retrieve same and POOH. RU Gray Wireline Services. RIH w/ 5-1/2" CIBP and set at 10,500'. RIH w/ dump bailer and cap CIBP w/ 4 sxs cement. Perforate Strawn formation in one run with 4" TAG gun loaded 2 spf, 120° phasing shooting 10,242' – 48' (12 holes) & 10,250' – 68' (36 holes). FL was 2,410' FS during perforating run. Well was dead following perforating run. POOH w/ perf gun. All shots fired. Gun was covered w/ cement. Did not appear to tag any cement in wellbore during perforating run. SDFN @ 8:00 pm.

Daily Cost:     \$ 9,680

Cumulative Cost:     \$59,280

May 4, 2004

7:00 am. SICP = 30 psi. BWO w/ show of natural gas. RIH w/ On-Off tool skirt (as a shoe in case of running into cement), Arrowset 1X pkr, On-Off tool w/ 1.87" "F" profile, and 2-3/8", 4.7 #/ft, N-80 8-rd tubing to 10,279'. Eased into well w/ last 720' of tubing and did not tag any cement. Load casing w/ 36.4 bbls 3% KCl water (perfs did not drink fluid overnight). Broke circulation w/ 50 bbls pumped and reverse clean w/ additional 60 bbls 3% KCl water. Tubing was gassing. Kill tubing w/ 5 bbls 3% KCl water. PUH w/ pkr and set at 10,186'. Test csg to 550 psig. Held good. Breakdown perfs @ 5,195 psi. Establish rate of 1.5 BPM @ 5,375 psi pumping 6.8 BW total. Acidize Strawn perfs 10,242' – 48' and 10,250' – 68' with 1,500 gallons 15% NEFE HCl and 72 1.3 SG ballsealers. Initial rate & pressure: 1.6 BPM @ 5,400 psi; Final rate & pressure: 2.3 BPM @ 5,950 psi; Max rate and pressure: 2.6 BPM @ 5,950 psi. Did not see any appreciable break w/ acid on formation. No apparent ball action. ISIP: 5,260 psi; 5" SIP: 5,138 psi; 10" SIP: 5,048 psi; 15" SIP: 4,975 psi. Flow well back to tank for 2 hours until rate low enough to allow swabbing. Swab well 3 runs and well kicked off flowing for 10 minutes w/ good show natural gas. Swab 4 additional runs pulling fluid level down to 3,200' FS. Show natural gas on runs. Recovered 39.3 bbls. Load was 124 bbls. BLTBR = 85 bbls. Leave well open to tank overnight. SDFN @ 6:00 pm.

Daily Cost:     \$ 7,090

Cumulative Cost:     \$66,370

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May 5, 2004

7:00 am. Well gassing to tank w/ good blow. Recovered 14.7 BF overnight. RU swab equipment. 1-st run tag FL 4,200' FS pulling from 5,500'. Fluid sample was 20% condensate/80% water. Well kicked off flowing for 20 minutes til well died down enough to allow additional runs. Swab well as follows: 2-nd run FL 6,600' FS, 3-rd run FL 8,000' FS, 4-th run FL 9,500' FS, 5-th run FL 10,000' FS and pulled dry, 6-th run same as 5-th run. Well gassing to tank throughout swabbing with stronger blow following runs. Flow well to tank for one hour. Swab well 7-th run finding no distinguishable FL. Recovered additional 19.3 BF from swabbing. Shut well in for one hour with SITP building to 420 psig and 490 psig after 1 hour 25 min SIP. Open well to tank to flow overnight. Total recovery today was 34 BF. BLTBR = 51 BF. SDFN @ 2:30 pm.

Daily Cost:     \$ 2,500

Cumulative Cost:     \$68,870

May 6, 2004

7:00 am. Well gassing to tank. Recovered 4.8 BF overnight. RU swab equipment. 1-st run tag FL 5,500' FS (gas pockets) pulling from 7,000'. Swab run was dry. 2-nd run FL 7,000' FS pulling from 8,000' recovering 1000' fluid to surface (condensate and water). 3-rd run found FL 8,800' FS pulling from 10,000'. Recovered 1,000' fluid to surface (condensate and water). 4-th run did not tag any fluid and pulled from 10,000' with no fluid recovery. Well gassing w/ stronger blow following runs. Recovered 9.4 BF from swabbing today. RD swab equipment. ND BOP. Land tubing w/ 10K compression. NU wellhead. RD workover unit. Clean location. MOL 12:45 pm. Road rig to yard. Rebuilding separator. Patch and coat bottom of stock tank. Well shut-in pending Duke connection.

Daily Cost:     \$ 5,470

Cumulative Cost:     \$74,340

May 7, 2004

Shut-in tubing pressure = 2,250 psig. Well shut-in pending Duke connection.

May 8, 2004

Shut-in tubing pressure = 2,450 psig. Well shut-in pending Duke connection.

May 9, 2004

Shut-in tubing pressure = 2,625 psig. Well shut-in pending Duke connection.

May 10, 2004

Shut-in tubing pressure = 2,900 psig. Well shut-in pending Duke connection.

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May 11, 2004

Shut-in tubing pressure = 2,950 psig. Well shut-in pending Duke connection.

May 12, 2004

Shut-in tubing pressure = 3,000 psig. Well shut-in pending Duke connection.

May 13, 2004

Shut-in tubing pressure = 3,050 psig. Well shut-in pending Duke connection.

May 14, 2004

Shut-in tubing pressure = 3,070 psig. Well shut-in pending Duke connection.

May 15, 2004

Shut-in tubing pressure = 3,080 psig. Well shut-in pending Duke connection.

May 16, 2004

Shut-in tubing pressure = 3,090 psig. Well shut-in pending Duke connection.

May 17, 2004

Shut-in tubing pressure = 3,100 psig. Well shut-in pending Duke connection.

May 18, 2004

Shut-in tubing pressure = 3,100 psig. Place well online at 1:00 pm.

May 19, 2004

Well made 27 MCF, 0 BW overnight. Found frozen this morning. Work choke and place well online. Tubing pressure = 2,700 psig.

May 20, 2004

Well made 19 MCF, 0 BW overnight. Found frozen this morning. Work choke and place well online. Tubing pressure = 2,600 psig.

May 21, 2004

Well made 2 MCF, 0 BW overnight. Found frozen this morning. Work choke and place well online. Tubing pressure = 2,600 psig.

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May 22, 2004

Well made 21 MCF, 0 BW overnight. Found frozen this morning. Work choke and place well online. Tubing pressure = 2,525 psig.

May 23, 2004

Well made 23 MCF, 0 BW overnight. Found frozen this morning. Work choke and place well online. Tubing pressure = 2,450 psig.

May 24, 2004

Well made 54 MCF, 0 BW overnight. Found frozen this morning. Work choke and place well online. Tubing pressure = 2,250 psig.

May 25, 2004

Well made 23 MCF, 0 BW overnight. Found frozen this morning. Work choke and place well online. Tubing pressure = 2,200 psig.

May 26, 2004

Well made 11 MCF, 0 BW overnight. Found frozen this morning. Work choke and place well online. Tubing pressure = 2,200 psig.

May 27, 2004

Well made 91 MCF, 0 BW overnight. Selling gas at rate of 60 to 80 MCFD this morning. Tubing pressure = 1,500 psig.

May 28, 2004

Well made 33 MCF, 0 BW overnight. Froze off. Tubing pressure = 2,000 psig.

May 29, 2004

Well made 57 MCF, 5 BO, 0 BW overnight. Tubing pressure = 2,050 psig.

May 30, 2004

Well made 165 MCF, 19 BO, 0 BW overnight. Tubing pressure = 75 psig.

May 31, 2004

Well made 96 MCF, 0 BO, 0 BW overnight. Tubing pressure = 50 psig.

June 1, 2004

Well made 94 MCF, 0 BO, 0 BW overnight. Tubing pressure = 50 psig.



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June 2, 2004

Well made 54 MCF, 0 BO, 0 BW overnight. Tubing pressure = 50 psig.

June 3, 2004

Well made 94 MCF, 5 BO, 0 BW overnight. Tubing pressure = 50 psig.

June 4, 2004

Well made 71 MCF, 4 BO, 0 BW overnight. Tubing pressure = 50 psig.

June 5, 2004

Well made 62 MCF, 1 BO, 0 BW overnight. Tubing pressure = 50 psig.

June 6, 2004

Well made 60 MCF, 2 BO, 0 BW overnight. Tubing pressure = 50 psig.

June 7, 2004

Well made 39 MCF, 0 BO, 0 BW overnight. Tubing pressure = 50 psig.

June 8, 2004

Well made 45 MCF, 3 BO, 0 BW overnight. Tubing pressure = 50 psig. Drop 3 soap sticks.

June 9, 2004

Well made 92 MCF, 2 BO, 16 BW overnight. Tubing pressure = 50 psig.

June 10, 2004

Well made 76 MCF, 0 BO, 0 BW overnight. Tubing pressure = 50 psig. Drop 2 soap sticks.

June 11, 2004

Well made 86 MCF, 7 BO, 5 BW overnight. Tubing pressure = 35 psig.

June 12, 2004

Well made 90 MCF, 3 BO, 0 BW overnight. Tubing pressure = 35 psig.

June 13, 2004

Well made 88 MCF, 3 BO, 0 BW overnight. Tubing pressure = 35 psig.

June 14, 2004

Well made 56 MCF, 0 BO, 2 BW overnight. Tubing pressure = 35 psig.

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June 15, 2004

Well made 48 MCF, 2 BO, 0 BW overnight. Tubing pressure = 30 psig. Drop 2 soap sticks.

June 16, 2004

Well made 80 MCF, 3 BO, 5 BW overnight. Tubing pressure = 35 psig.

June 17, 2004

Well made 79 MCF, 2 BO, 0 BW overnight. Tubing pressure = 35 psig.

June 18, 2004

Well made 70 MCF, 0 BO, 0 BW overnight. Tubing pressure = 35 psig.

June 19, 2004

Well made 82 MCF, 0 BO, 3 BW overnight. Tubing pressure = 35 psig.

June 20, 2004

Well made 74 MCF, 2 BO, 2 BW overnight. Tubing pressure = 30 psig. Drop 2 soap sticks.

June 21, 2004

Well made 83 MCF, 5 BO, 0 BW overnight. Tubing pressure = 40 psig.

June 22, 2004

Well made 70 MCF, 3 BO, 0 BW overnight. Tubing pressure = 40 psig.

June 23, 2004

Well made 72 MCF, 2 BO, 0 BW overnight. Tubing pressure = 40 psig.

June 24, 2004

Well made 76 MCF, 3 BO, 0 BW overnight. Tubing pressure = 40 psig. Drop 2 soap sticks.

June 25, 2004

Well made 80 MCF, 2 BO, 7 BW overnight. Tubing pressure = 40 psig.

June 26, 2004

Well made 71 MCF, 1 BO, 0 BW overnight. Tubing pressure = 40 psig.

June 27, 2004

Well made 66 MCF, 0 BO, 1 BW overnight. Tubing pressure = 40 psig.

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June 28, 2004

Well made 80 MCF, 0 BO, 2 BW overnight. Tubing pressure = 40 psig. Drop 2 soap sticks.

June 29, 2004

Well made 79 MCF, 4 BO, 0 BW overnight. Tubing pressure = 40 psig.

July 1, 2004

Well made 51 MCF, 0 BO, 0 BW overnight. Tubing pressure = 40 psig.

**FINAL REPORT**