5500-FM-OG0004b 2/2011

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS MANAGEMENT PROGRAM

# Completion Report

| DEP USE ONLY | |
|---|---|
| Site ID | Primary Fac ID |
| Client | Subfacility Id |

## Well Information

If you are submitting this Completion Report attached to the Well Record, you only need to enter the well API # in this section.

| Well Operator | DEP ID# | Well API # (Permit / Reg) | Project Number | Acres |
|---|---|---|---|---|
| Range Resources-Appalachia,LLC | 141142 | 37 - 081-20528- - | | 1200 |

| Address | Well Farm Name | Well # | Serial # |
|---|---|---|---|
| 100 Throckmorton St., Suite 1200 | Red Bend Hunting & Fishing Club Unit | 3H | |

| City | State | Zip Code | County | Municipality |
|---|---|---|---|---|
| Fort Worth | TX | 76102 | Lycoming | Cogan House |

| Phone | Fax | Email | USGS 7.5 min. quadrangle map |
|---|---|---|---|
| 817 869-4158 | 817 869-1458 | mdennis@rangeresources.com | White Pine |

**Check the appropriate submission:** ☒ Original Completion Report ☐ Amended Completion Report

## STIMULATION BASE FLUID

| List Water Management Plan Approved Water Source(s) that were used | Water Management Plan ID No. | Volume (Gallons) |
|---|---|---|
| 1. Jersey Shore @ Larrys Creek | PADWIS ID# 4410156 | 660,267 |
| 2. Jersey Shore @ Pine Creek | PADWIS ID# 4410156 | 2,668,066 |
| 3. Montoursville Borough | PADWIS ID# 4175501 | 392,638 |
| 4. | | |
| 5. | | |
| 6. | | |
| | Recycled Water Used | 819,126 |
| Other Bass Fluid(s)Components Used | | |
| 1. Rainwater in Impoundment | | 562,693 |
| 2. | | |
| | Total Base Fluid(s)/Components Used | 5,102,790 gallons |

## PERFORATION RECORD

| Stage No. | Perforation Date | Stage Perforated From | Stage Perforated To | Perf. Orientation (Vertical, Horizontal, Radial) | Formation |
|---|---|---|---|---|---|
| 1 | 11/2/2011 | 12,436'MD | 12,246'MD | Horizontal | Marcellus Shale |
| 2 | 11/8/2011 | 12,151'MD | 11,961'MD | Horizontal | Marcellus Shale |
| 3 | 11/9/2011 | 11,866'MD | 11,676'MD | Horizontal | Marcellus Shale |
| 4 | 11/10/2011 | 11,581'MD | 11,391'MD | Horizontal | Marcellus Shale |
| 5 | 11/11/2011 | 11,296'MD | 11,106'MD | Horizontal | Marcellus Shale |
| 6 | 11/12/2011 | 11,011'MD | 10,821'MD | Horizontal | Marcellus Shale |
| 7 | 11/12/2011 | 10,726MD | 10,536'MD | Horizontal | Marcellus Shale |
| 8 | 11/13/2011 | 10,441'MD | 10,251'MD | Horizontal | Marcellus Shale |
| 9 | 11/14/2011 | 10,156'MD | 9,966'MD | Horizontal | Marcellus Shale |
| 10 | 11/14/2011 | 9,871'MD | 9,681'MD | Horizontal | Marcellus Shale |
| 11 | 11/14/2011 | 9,586'MD | 9,396'MD | Horizontal | Marcellus Shale |
| | | | | | |

Well API# 37-081-20528-__-__

## STIMULATION FLUID ADDITVES

Note: Trade secret or confidential proprietary information should be clearly identified as such and should be submitted on a separate sheet attached to this report.

| Descriptive Additive Type | Chemical Component(s) listed on Material Safety Data Sheet of the Additive | CAS No. of Chemical Component | Chemical Component % By Volume in Additive | Chemical Component % By Volume used in Each Stage | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Stage No. 1 | Stage No. 2 | Stage No. 3 | Stage No. 4 | Stage No. 5 | Stage No. 6 |
| MX 588-2 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| WFR-61LA | Sodium Chloride | 7647-14-5 | 9.8% | .00479% | .00457% | .00609% | .00475% | .00457% | .00468% |
| WFR-61LA | Ammonium Chloride | 12125-02-9 | 7.2% | .00352% | .00335% | .00447% | .00349% | .00336% | .00344% |
| WFR-61LA | Petroleum Distillates | 64742-48-8 | 52.7% | .02563% | .02444% | .03256% | .02540% | .02444% | .02505% |
| WFR-61LA | Alcohols, C-12-16, Ethoxylated | 68551-12-2 | 6.9% | .00335% | .00320% | .00426% | .00332% | .00320% | .00328% |
| 35%HCL Acid | Hydrochloric Acid | 7647-01-0 | 35.0% | .09154% | .09232% | .09202% | .09210% | .09333% | .09174% |
| WAI-251 LC | Tar Bases, Quinoline Derivs, Benzyl Chloride-Quaternized | 72480-70-7 | 13.0% | .00013% | .00013% | .00013% | .00013% | .00013% | .00013% |
| WAI-251 LC | Ethoxylated Nonylphenol | 68412-54-4 | 10.1% | .00010% | .00010% | .00010% | .00010% | .00010% | .00010% |
| WAI-251 LC | Cinnamaldhyde | 104-55-2 | 10.2% | .00010% | .00010% | .00010% | .00010% | .00010% | .00010% |
| WAI-251 LC | Ethylene Glycol | 107-21-1 | 57.8% | .00056% | .00057% | .00056% | .00056% | .00057% | .00056% |
| WAI-251 LC | 2-Butoxyethanol | 111-76-2 | 8.3% | .00008% | .00008% | .00008% | .00008% | .00008% | .00008% |
| WAI-251 LC | Isopropyl Alcohol | 67-63-0 | 9.5% | .00009% | .00009% | .00009% | .00009% | .00009% | .00009% |
| WAI-251 LC | Triethyl Phosphate | 78-40-0 | 7.0% | .00007% | .00007% | .00007% | .00007% | .00007% | .00007% |
| WAI-251 LC | N, N-Dimethylformamide | 68-12-2 | 45.1% | .00044% | .00044% | .00044% | .00044% | .00045% | .00044% |
| WIC-641L | Citric Acid | 77-92-9 | 56.4% | .00273% | .00275% | .00274% | .00275% | .00278% | .00274% |
| BMC B-8650 | Glutaraldehyde | 111-30-8 | 48.8% | .00366% | .00370% | .00368% | .00369% | .00362% | .00367% |
| BMC B-8650 | Methanol | 67-56-1 | 0.7% | .00005% | .00005% | .00005% | .00005% | .00005% | .00005% |
| BMC B-8520 | 4,4-Dimethyloxazolidine | 51200-87-4 | 76.5% | .01464% | .01458% | .01491% | .01473% | .01474% | .01468% |
| BMC B-8520 | 3,4,4-Trimethyloxazolidine | 75673-43-7 | 5.0% | .00096% | .00095% | .00097% | .00096% | .00096% | .00096% |
| BMC B-8520 | 2-Amino-2-methyl-1-propanol | 124-68-5 | 1.0% | .00020% | .00020% | .00020% | .00020% | .00020% | .00020% |
| BMC B-8520 | Formaldehyde Amine | 56652-26-7 | 0.5% | .00009% | .00009% | .00009% | .00009% | .00009% | .00009% |

Please insert additional copies of this page if additional rows/stages are needed.

Well API# 37-081-20528-__-__

## STIMULATION FLUID ADDITVES

Note: Trade secret or confidential proprietary information should be clearly identified as such and should be submitted on a separate sheet attached to this report.

| Descriptive Additive Type | Chemical Component(s) listed on Material Safety Data Sheet of the Additive | CAS No. of Chemical Component | Chemical Component % By Volume in Additive | Chemical Component % By Volume used in Each Stage | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Stage No. 7 | Stage No. 8 | Stage No. 9 | Stage No. 10 | Stage No. 11 | Stage No. |
| MX 588-2 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| WFR-61LA | Sodium Chloride | 7647-14-5 | 9.8% | .00405% | .00465% | .00445% | .00460% | .00468% | |
| WFR-61LA | Ammonium Chloride | 12125-02-9 | 7.2% | .00297% | .00342% | .00327% | .00338% | .00343% | |
| WFR-61LA | Petroleum Distillates | 64742-48-8 | 52.7% | .02165% | .02489% | .02381% | .02460% | .02501% | |
| WFR-61LA | Alcohols, C-12-16, Ethoxylated | 68551-12-2 | 6.9% | .00832% | .00326% | .00312% | .00322% | .00327% | |
| 35%HCL Acid | Hydrochloric Acid | 7647-01-0 | 35.0% | .08633% | .09256% | .09338% | .08964% | .09500% | |
| WAI-251 LC | Tar Bases, Quinoline Derivs, Benzyl Chloride-Quaternized | 72480-70-7 | 13.0% | .00012% | .00013% | .00013% | .00012% | .00013% | |
| WAI-251 LC | Ethoxylated Nonylphenol | 68412-54-4 | 10.1% | .00009% | .00010% | .00010% | .00010% | .00010% | |
| WAI-251 LC | Cinnamaldhyde | 104-55-2 | 10.2% | .00009% | .00010% | .00010% | .00010% | .00010% | |
| WAI-251 LC | Ethylene Glycol | 107-21-1 | 57.8% | .00053% | .00057% | .00057% | .00055% | .00058% | |
| WAI-251 LC | 2-Butoxyethanol | 111-76-2 | 8.3% | .00008% | .00008% | .00008% | .00008% | .00008% | |
| WAI-251 LC | Isopropyl Alcohol | 67-63-0 | 9.5% | .00009% | .00009% | .00009% | .00009% | .00010% | |
| WAI-251 LC | Triethyl Phosphate | 78-40-0 | 7.0% | .00006% | .00007% | .00007% | .00007% | .00007% | |
| WAI-251 LC | N, N-Dimethylformamide | 68-12-2 | 45.1% | .00041% | .00044% | .00045% | .00043% | .00045% | |
| WIC-641L | Citric Acid | 77-92-9 | 56.4% | .00258% | .00276% | .00279% | .00267% | .00283% | |
| BMC B-8650 | Glutaraldehyde | 111-30-8 | 48.8% | .00368% | .00371% | .00374% | .00359% | .00368% | |
| BMC B-8650 | Methanol | 67-56-1 | 0.7% | .00005% | .00005% | .00005% | .00005% | .00005% | |
| BMC B-8520 | 4,4-Dimethyloxazolidine | 51200-87-4 | 76.5% | .01468% | .01462% | .01475% | .01452% | .01462% | |
| BMC B-8520 | 3,4,4-Trimethyloxazolidine | 75673-43-7 | 5.0% | .00096% | .00096% | .00096% | .00095% | .00096% | |
| BMC B-8520 | 2-Amino-2-methyl-1-propanol | 124-68-5 | 1.0% | .00020% | .00020% | .00020% | .00020% | .00020% | |
| BMC B-8520 | Formaldehyde Amine | 56652-26-7 | 0.5% | .00009% | .00009% | .00009% | .00009% | .00009% | |

Please insert additional copies of this page if additional rows/stages are needed.

Well API# 37 -081-20528-__-__

| STIMULATION INFORMATION (WELL) | | | |
|---|---|---|---|
| Open Flow Production: 0mcf/d @ 24hrs pos treatment | 24 Hr. Open Flow Production: 0mcf/d @ 24hrs pos treatment | 24 Hr. Shut-in Pressure: N/A @ 24hrs post treatment | Flow Back Date: |

## STIMULATION INFORMATION (STAGE)

Complete a separate record for each stimulation stage. (Please insert additional copies of this page for additional stages).

| | | |
|---|---|---|
| **Stage No.:** 1 | Stimulation Date: 11/8/2011 | Pump Rate: 70.0 |
| Pressure (psi): 8,574 | Shut-in Surface Pressure: 5,575 | 5 Minute Shut-in Surface Pressure: NA |
| Propping Agent Type: Sand | Propping Agent Amount: 503,885 | Propping Agent Size: 100 mesh/40-70 Mesh |
| **Stage No.:** 2 | Stimulation Date: 11/9/2011 | Pump Rate: 70.7 |
| Pressure (psi): 8,671 | Shut-in Surface Pressure: 5,499 | 5 Minute Shut-in Surface Pressure: NA |
| Propping Agent Type: Sand | Propping Agent Amount: 492,799 | Propping Agent Size: 100 mesh/40-70 Mesh |
| **Stage No.:** 3 | Stimulation Date: 11/9/2011 | Pump Rate: 70.0 |
| Pressure (psi): 8,579 | Shut-in Surface Pressure: 5.882 | 5 Minute Shut-in Surface Pressure: NA |
| Propping Agent Type: Sand | Propping Agent Amount: 498,278 | Propping Agent Size: 100 mesh/40-70 Mesh |
| **Stage No.:** 4 | Stimulation Date: 11/11/2011 | Pump Rate: 70.0 |
| Pressure (psi): 8,359 | Shut-in Surface Pressure: 6,041 | 5 Minute Shut-in Surface Pressure: NA |
| Propping Agent Type: Sand | Propping Agent Amount: 497,080 | Propping Agent Size: 100 mesh/40-70 Mesh |
| **Stage No.:** 5 | Stimulation Date: 11/12/2011 | Pump Rate: 70.1 |
| Pressure (psi): 8,563 | Shut-in Surface Pressure: 6,009 | 5 Minute Shut-in Surface Pressure: NA |
| Propping Agent Type: Sand | Propping Agent Amount: 489,019 | Propping Agent Size: 100 mesh/40-70 Mesh |
| **Stage No.:** 6 | Stimulation Date: 11/12/2011 | Pump Rate: 71.0 |
| Pressure (psi): 8,020 | Shut-in Surface Pressure: 5,876' | 5 Minute Shut-in Surface Pressure: NA |
| Propping Agent Type: Sand | Propping Agent Amount: 499,465 | Propping Agent Size: 100 mesh/40-70 Mesh |

**WELL SERVICE COMPANIES** (Provide the name, address, and telephone number of all well service companies involved.)

| | | |
|---|---|---|
| Name **Weatherford** | Name Multi-Chem | Name |
| Address 121 Hillpointe Drive, Suite 300 | Address 2905 Southwest Blvd. | Address |
| City – State- Zip Canonsburg, PA 15317 | City – State – Zip San Angelo, Texas 76904 | City – State – Zip |
| Phone 724 745-7050 | Phone 325 223-6200 | Phone |

*I do hereby certify to the best of my knowledge, information and belief that the information contained on this Completion Report is true and correct. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment..*

| **Well Operator's Signature** | **DEP USE ONLY** |
|---|---|
| | Reviewed by: Date: |
| Title: Regulatory Analyst Date: 12/14/11 | Comments: |

Well API# 37 -081-20528-__-__

| STIMULATION INFORMATION (WELL) | | | |
|---|---|---|---|
| Open Flow Production:<br>0mcf/d @ 24hrs pos treatment | 24 Hr. Open Flow Production:<br>0mcf/d @ 24hrs pos treatment | 24 Hr. Shut-in Pressure:<br>N/A @ 24hrs post treatment | Flow Back Date: |

| STIMULATION INFORMATION (STAGE) | | |
|---|---|---|
| Complete a separate record for each stimulation stage. (Please insert additional copies of this page for additional stages). | | |
| **Stage No.:**<br>7 | Stimulation Date:<br>11/13/2011 | Pump Rate:<br>70.2 |
| Pressure (psi):<br>8,297 | Shut-in Surface Pressure:<br>6,256 | 5 Minute Shut-in Surface Pressure:<br>NA |
| Propping Agent Type:<br>Sand | Propping Agent Amount:<br>498,000 | Propping Agent Size:<br>100 mesh/40-70 Mesh |
| **Stage No.:**<br>8 | Stimulation Date:<br>11/13/2011 | Pump Rate:<br>71.1 |
| Pressure (psi):<br>7,875 | Shut-in Surface Pressure:<br>6,117 | 5 Minute Shut-in Surface Pressure:<br>NA |
| Propping Agent Type:<br>Sand | Propping Agent Amount:<br>487,428 | Propping Agent Size:<br>100 mesh/40-70 Mesh |
| **Stage No.:**<br>9 | Stimulation Date:<br>11/14/2011 | Pump Rate:<br>68.0 |
| Pressure (psi):<br>7,606 | Shut-in Surface Pressure:<br>5.943 | 5 Minute Shut-in Surface Pressure:<br>NA |
| Propping Agent Type:<br>Sand | Propping Agent Amount:<br>500,000 | Propping Agent Size:<br>100 mesh/40-70 Mesh |
| **Stage No.:**<br>10 | Stimulation Date:<br>11/14/2011 | Pump Rate:<br>71.0 |
| Pressure (psi):<br>7,667 | Shut-in Surface Pressure:<br>6,005 | 5 Minute Shut-in Surface Pressure:<br>NA |
| Propping Agent Type:<br>Sand | Propping Agent Amount:<br>496,898 | Propping Agent Size:<br>100 mesh/40-70 Mesh |
| **Stage No.:**<br>11 | Stimulation Date:<br>11/15/2011 | Pump Rate:<br>70.6 |
| Pressure (psi):<br>7,451 | Shut-in Surface Pressure:<br>5,788 | 5 Minute Shut-in Surface Pressure:<br>NA |
| Propping Agent Type:<br>Sand | Propping Agent Amount:<br>491,663 | Propping Agent Size:<br>100 mesh/40-70 Mesh |
| **Stage No.:** | Stimulation Date: | Pump Rate: |
| Pressure (psi): | Shut-in Surface Pressure: | 5 Minute Shut-in Surface Pressure: |
| Propping Agent Type: | Propping Agent Amount: | Propping Agent Size: |

| WELL SERVICE COMPANIES (Provide the name, address, and telephone number of all well service companies involved.) | | |
|---|---|---|
| Name<br>**Weatherford** | Name<br>Multi-Chem | Name |
| Address<br>121 Hillpointe Drive, Suite 300 | Address<br>2905 Southwest Blvd. | Address |
| City – State- Zip<br>Canonsburg, PA 15317 | City – State – Zip<br>San Angelo, Texas 76904 | City – State – Zip |
| Phone<br>724 745-7050 | Phone<br>325 223-6200 | Phone |

*I do hereby certify to the best of my knowledge, information and belief that the information contained on this Completion Report is true and correct. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment..*

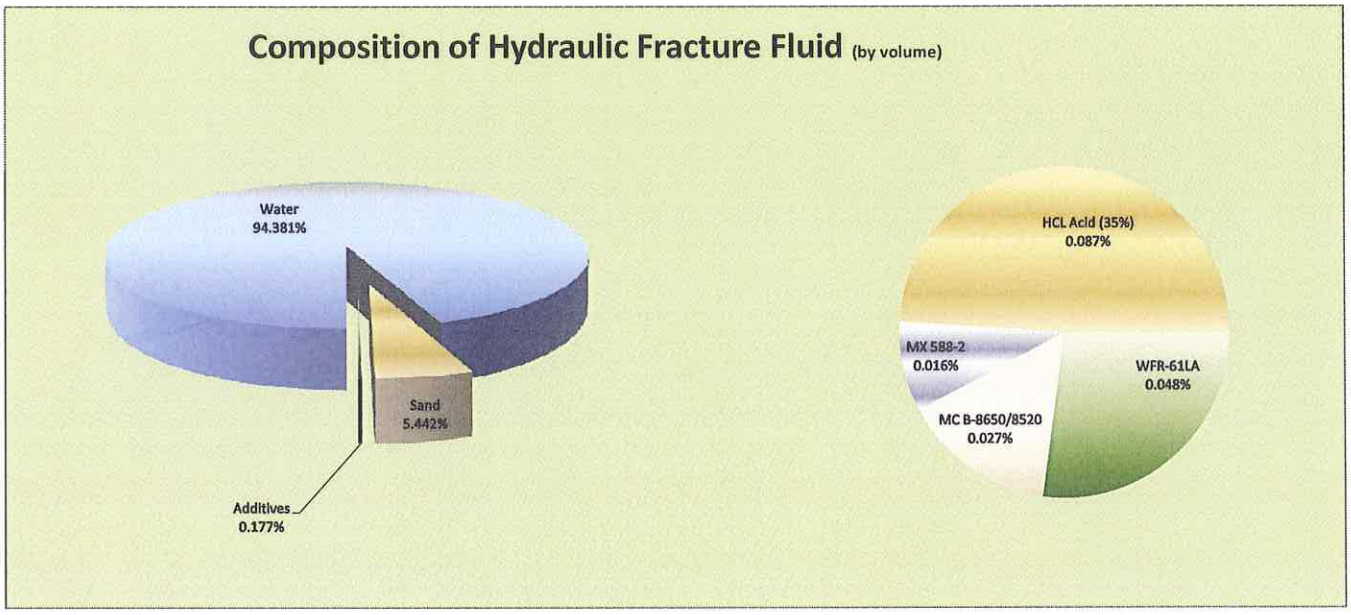
| **Well Operator's Signature** | DEP USE ONLY |
|---|---|
| Melanie Dennis | Reviewed by: Date: |
| Title: Regulatory Analyst Date: 12/14/11 | Comments: |

RANGE RESOURCES

**Red Bend Hunting and Fishing Club Unit 3-H** **Completion Date: 11/8/11**

**Well API: 37-081-20528** **Township: Cogan House**

| % Composition of Hydraulic Fracture Fluid (by volume) | | | | | | |
|---|---|---|---|---|---|---|
| **Product Name** | **Additive** | **Purpose** | **Use and Dillution** | **Volume** | **Overall %** | **Common Uses** |
| Water | Carrier Fluid | Creates fracture network in shale and carry proppant to the formation | Primary constituent | 4,275,652 gal | 94.381% | Water is the most abundant molecule on the Earth's surface |
| Sand | Sand | Allows fractures to remain open so gas can escape | Second most common constituent, making up almost 6% of the fluid | 246,544 gal | 5.442% | Drinking water filtration, play sand |
| WFR-61LA | Friction Reducer | Reduces friction between fluid and pipe | Diluted at one-half gallon per 1,000 gallons of water | 2,169 gal | 0.048% | Water treatment; soil conditioner; some children's toys |
| MC B-8650/8520 | Antimicrobial Agent | Eliminates bacteria in the water that produce corrosive byproducts | Diluted at one-half gallon per 1,000 gallons of water | 1,210 gal | 0.027% | Water treatment, disinfectant; sterilize medical and dental equipment and surfaces |
| MX 588-2 | Scale Inhibitor | Prevents scaling in pipe | Diluted at one-tenth gallon per 1,000 gallons of water | 0,704 gal | 0.016% | Water treatment, household cleaners, de-icing agent |
| HCL Acid (35%) | Perf Clean-Up | Dissolves cement and minerals to help initiate fractures | 177 gallons per stage if required (non-diluted chemicals) | 3,934 gal | 0.087% | Swimming pool and household cleaner |



Wellname: Red Bend Hunting and Fishing C  WELL API#: 37-081-20528
Township: Cogan House  Completion Date: 11/8/11

# Composition of Components in Marcellus Shale Hydraulic Fracturing Fluid

RANGE RESOURCES

| Common Name & Supplier | Supplier Chemical Name | Common Description | Hazardous Component listed on MSDS | Purpose | MSDS Component Weight % of Chemical | Specific Gravity of Additive | Specific Gravity of Component | Additive Conc (gal/1000 gal) | lbs Hazardous Component | Gallons MSDS Component in Well | Maximum Concentration of MSDS Component of Total Stage Fluid | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | % Vol | % Weight |
| 7.5% HCl Mixture (Weatherford) | 35% HCL | Concentrated HCl Acid | HCL | Cleans perforation | 35.0% | 1.17556 | 1.17556 | 189.0 | 13483.45 | 3934.08 | 0.0868% | 0.0328% |
| | WAI-251 LC | Corrosion Inhibitor | Tar bases, quinoline derivs, benzyl chloride-quaternized | Protects casing | 13.0% | 1.07 | 1.07 | 2.0 | 50.98 | 5.72 | 0.0001% | 0.0001% |
| | | | Ethoxylated Nonylphenol | Protects casing | 10.0% | 1.07 | 1.06 | 2.0 | 39.22 | 4.44 | 0.0001% | 0.0001% |
| | | | Cinnamaldehyde | Protects casing | 10.0% | 1.07 | 1.05 | 2.0 | 39.22 | 4.48 | 0.0001% | 0.0001% |
| | | | Ethylene Glycol | Protects casing | 60.0% | 1.07 | 1.11 | 2.0 | 235.31 | 25.45 | 0.0006% | 0.0006% |
| | | | 2-Butoxyethanol | Protects casing | 7.0% | 1.07 | 0.9 | 2.0 | 27.45 | 3.66 | 0.0001% | 0.0001% |
| | | | Isopropyl alcohol | Protects casing | 7.0% | 1.07 | 0.787 | 2.0 | 27.45 | 4.19 | 0.0001% | 0.0001% |
| | | | Triethyl Phosphate | Protects casing | 7.0% | 1.07 | 1.07 | 2.0 | 27.45 | 3.08 | 0.0001% | 0.0001% |
| | | | N, N-Dimethylformamide | Protects casing | 40.0% | 1.07 | 0.95 | 2.0 | 156.87 | 19.82 | 0.0004% | 0.0004% |
| | WIC-641L | Iron Chelator | Citric Acid | Prevents precipitation | 70.0% | 1.24 | 1.54 | 10.0 | 1590.70 | 124.00 | 0.0027% | 0.0039% |
| | | | | | | | | | | TOTAL | 0.0911% | 0.0381% |
| Friction Reducer (Weatherford) | WFR-61LA | Friction Reducer | Sodium Chloride | Reduce friction down casing | 10.0% | 1.053 | 1.07 | 0.5 | 951.27 | 106.73 | 0.0024% | 0.0023% |
| | | | Ammonium Chloride | Reduce friction down casing | 7.0% | 1.053 | 1.02 | 0.5 | 665.89 | 78.37 | 0.0017% | 0.0016% |
| | | | Petroleum Distillates | Reduce friction down casing | 40.0% | 1.053 | 0.8 | 0.5 | 3,805.07 | 570.99 | 0.0126% | 0.0092% |
| | | | Alcohols, C-12-16, Ethoxylated | Reduce friction down casing | 7.0% | 1.053 | 1.07 | 0.5 | 665.89 | 74.71 | 0.0016% | 0.0016% |
| | | | | | | | | | | TOTAL | 0.0183% | 0.0148% |
| Scale Inhibitor (Multichem) | MX 588-2 | Scale Inhibitor | No hazardous ingredients | prevents scale deposits | N/A | 1.12 | 1.53 | 0.1 | N/A | N/A | N/A | N/A |
| Antibacterial Agent (Multichem) | BMC B-8520 | Antibacterial Agent | 4,4-Dimethyloxazolidine | eliminates bacteria in water | 78.0% | 0.9832 | 1.004 | 0.205 | 5560.01 | 664.81 | 0.0147% | 0.0135% |
| | | | 3,4,4-Trimethyloxazolodine | | 5.0% | 0.985 | 0.985 | 0.205 | 357.06 | 43.52 | 0.0010% | 0.0009% |
| | | | 2-Amino-2-methyl-1-propanol | | 1.0% | 0.985 | 0.94 | 0.205 | 71.41 | 9.12 | 0.0002% | 0.0002% |
| | | | Formaldehyde Amine | | 0.5% | 0.985 | 1.08 | 0.205 | 35.71 | 3.97 | 0.0001% | 0.0001% |
| | BMC B-8650 | Antibacterial Agent | Glutaraldehyde | eliminates bacteria in water | 50.0% | 1.103 | 1.13 | 0.08 | 1560.35 | 124.83 | 0.0028% | 0.0038% |
| | | | Methanol | | 0.5% | 1.103 | 0.786 | 0.08 | 15.60 | 1.25 | 0.00003% | 0.00004% |
| | | | | | | | | | | TOTAL | 0.0187% | 0.0185% |

| | by vol % | by weight % |
|---|---|---|
| SUMMARY | 0.126% | 0.071% |