Well Operator's Report of Well Work



| Well Number: | 515876 | |
|--------------|------------------|---------|
| API: | 47 - 017 | - 06762 |
| Submission: | ✓ Initial | Amended |
| Notes: | | |

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Office of Oil and Gas

JUL 2 6 2016

WV Department of Environmental Protection

State of West Virginia Department of Environmental Protection - Office of Oil and Gas Well Operator's Report of Well Work

| API <u>47</u> - 017 - 06762 County Doddr | dge District W | est Union |
|--|--|--|
| Quad West Union 7.5 Pad Name WE | | Name |
| Farm name Ruth R. Davies Pierce et al C/O Tom Da | | ber 515876 |
| Operator (as registered with the OOG) EQT Production | Company | |
| Address 625 Liberty Ave. EQT Plaza, Suite 1700 City Pi | | PA Zip 15222 |
| As Drilled location NAD 83/UTM Attach an as-dril Top hole Northing 4,347,031.70 Landing Point of Curve Northing 4,346,561.11 Bottom Hole Northing 4,345,709.35 | Led plat, profile view, and deviation Easting 519,730 | 9.53 |
| Bottom Hole Northing | Easting | |
| Elevation (ft) 1,156' GL Type of Well | ■New □ Existing Type of | of Report □Interim ■Final |
| Permit Type Deviated Horizontal Horizontal | ontal 6A 🗆 Vertical Depth | n Type □ Deep □ Shallow |
| Type of Operation □ Convert □ Deepen ■ Drill | □ Plug Back □ Redrilling □ | Rework Stimulate |
| Well Type □ Brine Disposal □ CBM ■ Gas □ Oil □ S | econdary Recovery Solution Min | ing □ Storage □ Other |
| | | |
| | uced □ Brine ■Gas ■ NGL | □ Oil □ Other |
| Drilled with □ Cable ■ Rotary | | |
| Drilling Media Surface hole ■ Air □ Mud □ Fresh W | ater Intermediate hole Ai | r 🗆 Mud 🗆 Fresh Water 🗅 Brine |
| Production hole | ne | |
| Mud Type(s) and Additive(s) | | |
| Water base Mud 12.5 ppg barium sulfate, sodium chloride, xanthan gum, polyanionic cellulosc | , modified starch, sodium hydroxide, phosphonates and a | alkyl phophates, glutaraldehyde solution, calcium hydroxide, |
| partially hydrolyzed polyacrylamide/polyacrylate, potassium chloride, sodium carbonate, gro | und walnut shells, alcohol and modified fatty acid, ferroc | chrome lignosulfonate, calcium carbonate, fibrous cellulose |
| Date permit issued12/22/2015 Date drilling con | menced03/28/2016Date | e drilling ceased04/09/2016 |
| Date completion activities began 4/24/2016 | Date completion activities cease | 4/28/2016 |
| Verbal plugging (Y/N)N Date permission grant | ed N/A Granted | l by N/A |
| | | |
| Please note: Operator is required to submit a plugging appli | cation within 5 days of verbal permi | Sion to flug civeb Office of Oil and Gas |
| Freshwater depth(s) ft174',282',546',843',963' | Open mine(s) (Y/N) depths | ии э^Ns 2016 |
| Salt water depth(s) ft 2063' | Void(s) encountered (Y/N) depth | ns N |
| Coal depth(s) ft 256',476',558' | Cavern(s) encountered (Y/N) dep | MWV Department of |
| Is coal being mined in area (Y/N) N | Ér | nvironmental Protection |
| . , | | Reviewed by: |

| API 47- 017 | _ 06762 | Farm nam | neRuth R. Davie | s Pierce et a | I C/O Tom | Davies_Wel | l number_51 | 5876 | |
|-------------------------------|--|---------------------|-------------------------|------------------------|---------------------|---------------------|------------------------|------------------------------|--|
| CASING STRINGS | Hole Size | Casing Size | Depth | New or Used | Grade wt/ft | | Basket Depth(s) | | ent circulate (Y/N) le details below* |
| Conductor | 24" | 20" | 40' | NEW | Α | -500 | n/a | | Y |
| Surface | 17 1/2" | 13 3/8" | 1089" | NEW | , | J-55 | 876' | | Y |
| Coal | | | | | | | | | |
| Intermediate 1 | 12 3/8" | 9 5/8" | 3069' | NEW | A | -500 | 1635' | | Y |
| Intermediate 2 | | | | | | | | | |
| Intermediate 3 | | | | | | | | + | |
| Production | 8-1/2" | 5-1/2" | 13,719' | NEW | Р | -110 | N/A | + | N |
| Tubing | | | | | | | | + | |
| Packer type and de | epth set | | | | | | | | · |
| Comment Details | | | | | | | | | |
| CEMENT | Class/Type | Number | Slurry | Y | ield | Volume | Cem | ent | woc |
| DATA | of Cement | of Sacks | wt (ppg) | | ³/sks) | (fl. ¹) | Top (1 | | (hrs) |
| Conductor | Class A | 38 | 15.6 | 1 | .18 | 44.84 | 0 | | 8 |
| Surface | Class A | 940 | 15.6 | 1 | .20 | 1128 | 0 | : | 8 |
| Coal | ļ | | | | | | | | |
| Intermediate I | Class A | 1120 | 15.6 | | 1.2 | 1,344 | 0 | | 8 |
| Intermediate 2 | | | | | | | | | |
| Intermediate 3 | | | | | | | | | |
| Production | Class H / Class H | 1030 / 813 | 15.2/15.6 | 3 1.11 | / 1.84 | 2369 | 350 | 00 | 72 |
| Tubing | <u> </u> | | | | | | | | |
| Plug back pro | ation penetrated Management Manag | orcellus | | Loggers T Plug back | | | | | |
| Kick off depth Check all wire | | □ caliper □ neutron | □ density □ resistivity | deviate | ed/directi ı ray | | nduction emperature | □sonic | |
| | Yes No | | | | | _ | s collected | | |
| CONDUCTOR: NONE | HE CENTRALIZI | ER PLACEMEN | IT USED FOR | EACH CA | ASING S | TRING _ | | | |
| | zers ran at 1,045', 876', 541' | | | | | | | | |
| | entralizers ran at 3,025', 2,5 posite body spiral centralize | | | | | | | | |
| | COMPLETED AS | | | No DE | TAILS | | Off | - RE6 ice cf (| CiveD Oil and Gas |
| WAS WELL O | COMPLETED OP | EN HOLE? | yes ■ No | DETA | AILS _ | | | | 2 6 2016 |
| WERE TRAC | ERS USED _ Y | es 🖪 No | TYPE OF TRA | ACER(S) I | JSED _ | | Enviro | V Depa Onmeni | artment of tal Protection |

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| | | |

| API | 47- 017 - | 06762 | Farm name | Ruth R. Davies Pierce et al C/O Tom Davies | Well number | 515876 |
|-----|-----------|-------|-----------|--|-------------|--------|
| | ·· | | | | | |

PERFORATION RECORD

| Stage No. | Perforation date | Perforated from MD ft. | Perforated to MD ft. | Number of Perforations | Formation(s) |
|--------------|------------------|------------------------|----------------------|---------------------------|---------------------|
| | | | | | Please See Attached |
| | | | | | |
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Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

| Stage No. | Stimulations Date | Ave Pump Rate (BPM) | Ave Treatment Pressure (PSI) | Max Breakdown Pressure (PSI) | ISIP (PSI) | Amount of Proppant (lbs) | Amount of Water (bbls) | Amount of Nitrogen/other (units) |
|--------------|----------------------|------------------------|---------------------------------|---------------------------------|-------------|-----------------------------|---------------------------|----------------------------------|
| | | | | | | Please | See | Attached |
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| | | | | | | | OHIGO | iEGRIVED of Oil and Gas |
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| | | | | | | | | |

Please insert additional pages as applicable.

WV Department of Environmental Protection

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|--|-----------------------|------------------------------|---|
| API 47- 017 - 06762 | Farm name Ruth R. Da | vies Pierce et al C/O Tom Da | vies_Well number |
| PRODUCING FORMATION(S) | <u>DEPTHS</u> | | |
| Marcellus | 6,682 | TVD 10,229 | MD |
| | | | |
| Please insert additional pages as appl | icable. | | |
| GAS TEST 🗆 Build up 🗆 Draw | down 🗂 Open Flow | OIL TEST | Flow Pump |
| SHUT-IN PRESSURE Surface 1. | 645 psi Botto | m Hole <u>N/A</u> psi | DURATION OF TEST 65 hrs |
| OPEN FLOW Gas 11,355 mcfpd M | Oil NGL N/A bpd 66 | Water bpd 756 bpd | GAS MEASURED BY □ Estimated ■ Orifice □ Pilot |
| LITHOLOGY/ TOP BO | ттом тор | воттом | |
| | TH IN FT DEPTH IN FT | | ROCK TYPE AND RECORD QUANTITYAND |
| NAME TVD 1 | TVD MD | MD TYPE OF F | LUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC) |
| | | | |
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Please insert additional pages as applicable.

| Drilling Contractor Pioneer 72 | | | | | |
|--|----------|---------------|-------------------|-----------------------|---|
| Address 1083 N Eighty Eight Rd | City | Rices Landing | State | PA | Zip <u>15357</u> |
| Logging Company Gyro Data | | | | | |
| Address 601 MAYER ST | City | BRIDGEVILLE | State | PA | Zip <u>15017</u> |
| Cementing Company Allied Oil & Gas Services, LLC | | | | | _ |
| Address 1036 E Main St | City | Bridgeport | State | w | zip 26330- |
| Stimulating Company Keane | | | | O _l | Tip. 77056 |
| Address 2121 Sage Road | City | Houston | State | TX | _zjp _L ⁷⁷⁰⁵⁶ |
| Please insert additional pages as applicable. | | | | | 26 2016 |
| Completed by Jim Helmick | | | Telephone (412) 3 | W\ 95 -5518 | / Department of Biogental Protection |
| Signature | Title VI | Completions | | Date 7/ | ESIEDISTAL Protection |
| | | | | | 100n |

Submittal of Hydraulic Fracturing Chemical Disclosure Information

Attach copy of FRACFOCUS Registry

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|--|---|----------------|-------------------------|
| API 47- 017 - 06762 Farm name_F | Ruth R. Davies Pierce et al C/O Tom Davie | S_Well number_ | 515876 |
| Drilling Contractor | | | |
| Address | City | _ State | _ Zip |
| Logging Company | | | |
| Address | City | _ State | _ Zip |
| Logging Company Professional Directional | | 1407 | 26408 |
| Address 103 Suds Run Rd | City Mt Clare | _State WV | _ Zip |
| Cementing Company C&J Energy Services | | | 45740 |
| Address 8300 Rt. 119 N | City Blacklick | State PA | _ _{Zip} _15716 |

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WV Department of Environmental Protection

| WEU2 515876 API: 47-017-06762 Final Formations |
|--|
|--|

| Formation Name | Final Top MD (ftGL) (ft) | Final Top TVD (ft) | Final Btm MD (ftGL) (ft) | Final Btm TVD (ft) |
|-----------------|--------------------------|--------------------|--------------------------|--------------------|
| SAND/SHALE | 1 | 1 | 256 | 256 |
| UNIONTOWN COAL | 256 | 256 | 259 | 259 |
| SAND/SHALE | 259 | 259 | 476 | 476 |
| PITTSBURGH COAL | 476 | 476 | 479 | 479 |
| SAND/SHALE | 479 | 479 | 558 | 558 |
| COAL | 558 | 558 | 562 | 562 |
| SAND/SHALE | 562 | 562 | 1512 | 1512 |
| MAXTON | 1512 | 1512 | 1566 | 1566 |
| SAND/SHALE | 1566 | 1566 | 1908 | 1908 |
| BIG LIME | 1908 | 1908 | 1977 | 1977 |
| KEENER | 1977 | 1977 | 2053 | 2053 |
| SAND/SHALE | 2053 | 2053 | 2207 | 2207 |
| WEIR | 2207 | 2207 | 2333 | 2333 |
| SAND/SHALE | 2333 | 2333 | 2409 | 2409 |
| GANTZ | 2409 | 2409 | 2417 | 2417 |
| SAND/SHALE | 2417 | 2417 | 2523 | 2523 |
| 50F | 2523 | 2523 | 2569 | 2569 |
| SAND/SHALE | 2569 | 2569 | 2632 | 2632 |
| 30F | 2632 | 2632 | 2655 | 2655 |
| GORDON | 2655 | 2655 | 2952 | 2952 |
| BAYARD | 2952 | 2952 | 3286 | 3286 |
| WARREN | 3286 | 3286 | 3347 | 3347 |
| B-5 | 3347 | 3347 | 3355 | 3355 |
| SPEECHLEY | 3355 | 3355 | 4041 | 4040 |
| BALLTOWN B | 4041 | 4040 | 4041 | 4040 |
| BALLTOWN A | 4041 | 4040 | 4233 | 4232 |
| BRADFORD | 4233 | 4232 | 4505 | 4504 |
| RILEY | 4505 | 4504 | 4943 | 4898 |
| BENSON | 4943 | 4898 | 5198 | 5025 |
| ALEXANDER | 5198 | 5025 | 5809 | 5226 |
| RHINESTREET | 5809 | 5226 | 9009 | 6311 |
| SONYEA | 9009 | 6311 | 9553 | 6504 |
| GENESSEE | 9553 | 6504 | 9808 | 6584 |
| GENESEO | 9808 | 6584 | 9946 | 6625 |
| TULLY | 9946 | 6625 | 10067 | 6654 |
| HAMILTON | 10067 | 6654 | 10229 | 6682 |
| MARCELLUS | 10229 | 6682 | 13721 | 6664 |

515876- 47-017-06762-0000 - Perforations

| Stage Number | Perforation Date | Top Perf Depth (ftKB) | Bottom Perf Depth (ftKB) | Number of Shots | Formation |
|--------------------------|------------------|-----------------------|--------------------------|-----------------|-----------|
| Initiation Sleeve | 4/20/2016 | 13,718 | 13,719 | 10 | MARCELLUS |
| 1 | 4/24/2016 | 13,571 | 13,663 | 32 | MARCELLUS |
| 2 | 4/24/2016 | 13,421 | 13,543 | 40 | MARCELLUS |
| 3 | 4/25/2016 | 13,271 | 13,393 | 40 | MARCELLUS |
| 4 | 4/25/2016 | 13,121 | 13,240 | 40 | MARCELLUS |
| 5 | 4/25/2016 | 12,971 | 13,093 | 40 | MARCELLUS |
| 6 | 4/25/2016 | 12,821 | 12,943 | 40 | MARCELLUS |
| 7 | 4/25/2016 | 12,671 | 12,793 | 40 | MARCELLUS |
| 8 | 4/25/2016 | 12,523 | 12,643 | 40 | MARCELLUS |
| 9 | 4/26/2016 | 12,371 | 12,493 | 40 | MARCELLUS |
| 10 | 4/26/2016 | 12,223 | 12,343 | 40 | MARCELLUS |
| 11 | 4/26/2016 | 12,071 | 12,193 | 40 | MARCELLUS |
| 12 | 4/26/2016 | 11,921 | 12,043 | 40 | MARCELLUS |
| 13 | 4/26/2016 | 11,771 | 11,893 | 40 | MARCELLUS |
| 14 | 4/27/2016 | 11,624 | 11,743 | 40 | MARCELLUS |
| 15 | 4/27/2016 | 11,471 | 11,593 | 40 | MARCELLUS |
| 16 | 4/27/2016 | 11,321 | 11,443 | 40 | MARCELLUS |
| 17 | 4/27/2016 | 11,171 | 11,293 | 40 | MARCELLUS |
| 18 | 4/27/2016 | 11,021 | 11,143 | 40 | MARCELLUS |
| 19 | 4/27/2016 | 10,871 | 10,993 | 40 | MARCELLUS |
| 20 | 4/28/2016 | 10,721 | 10,843 | 40 | MARCELLUS |
| 21 | 4/28/2016 | 10,571 | 10,693 | 40 | MARCELLUS |
| 22 | 4/28/2016 | 10,421 | 10,543 | 40 | MARCELLUS |

| | | | 515876- 47-0 | 17-06762-0000 | Stimulate | ed Stages | | |
|-------------------|---------------------|------------------------|---------------------------------|------------------------------|------------|-----------------------------|---------------------------|-------------------------------------|
| Stage Number | Stimulation Date | Ave Pump Rate (BPM) | Ave Treatment Pressure (PSI) | Max Breakdown Pressure (PSI) | ISIP (PSI) | Amount of Proppant (lbs) | Amount of Water (bbls) | Amount of Nitrogen/other (units) |
| Initiation Sleeve | 4/24/2016 | 24.2 | 7,636 | 9,344 | 4,949 | 0 | 595 | 0 |
| 1 | 4/24/2016 | 89.8 | 8,817 | 9,350 | 4,276 | 253,440.00 | 7,611 | 0 |
| 2 | 4/24/2016 | 97.8 | 8,791 | 9,047 | 4,946 | 250,700.00 | 6,300 | 0 |
| 3 | 4/25/2016 | 100.3 | 8,894 | 9,063 | 4,106 | 253,800.00 | 6,220 | 0 |
| 4 | 4/25/2016 | 99 | 8,892 | 9,030 | 4,421 | 251,780.00 | 6,224 | 0 |
| 5 | 4/25/2016 | 100.6 | 8,889 | 8,992 | 3,982 | 249,080.00 | 5,997 | 0 |
| 6 | 4/25/2016 | 100 | 8,688 | 8,881 | 3,978 | 249,260.00 | 6,283 | 0 |
| 7 | 4/25/2016 | 99.8 | 8,620 | 8,907 | 4,175 | 252,240.00 | 6,202 | 0 |
| 8 | 4/25/2016 | 99.3 | 8,700 | 8,905 | 4,357 | 252,560.00 | 6,284 | 0 |
| 9 | 4/26/2016 | 100.8 | 8,717 | 8,955 | 4,526 | 252,460.00 | 5,999 | 0 |
| 10 | 4/26/2016 | 100.4 | 8,696 | 8,836 | 3,838 | 252,700.00 | 6,358 | 0 |
| 11 | 4/26/2016 | 100.6 | 8,628 | 8,859 | 4,189 | 250,520.00 | 6,034 | 0 |
| 12 | 4/26/2016 | 101.2 | 8,457 | 8,719 | 3,990 | 249,060.00 | 6,303 | 0 |
| 13 | 4/26/2016 | 101.1 | 8,333 | 8,537 | 4,224 | 252,440.00 | 6,123 | 0 |
| 14 | 4/27/2016 | 100.7 | 7,903 | 8,155 | 4,157 | 250,980.00 | 5,901 | 0 |
| 15 | 4/27/2016 | 101.1 | 7,809 | 7,922 | 4,520 | 251,140.00 | 5,962 | 0 |
| 16 | 4/27/2016 | 100.7 | 8,011 | 8,147 | 4,377 | 253,640.00 | 6,049 | 0 |
| 17 | 4/27/2016 | 101.4 | 8,099 | 8,302 | 4,076 | 255,280.00 | 5,926 | 0 |
| 18 | 4/27/2016 | 101.98 | 7,939 | 8,298 | 5,151 | 251,440.00 | 6,260 | 0 |
| 19 | 4/27/2016 | 100.76 | 7,806 | 8,082 | 4,619 | 254,460.00 | 5,986 | 0 |
| 20 | 4/28/2016 | 100.86 | 7,808 | 8,321 | 4,927 | 254,820.00 | 5,965 | 0 |
| 21 | 4/28/2016 | 100.4 | 7,706 | 7,826 | 5,181 | 253,000.00 | 5,921 | 0 |
| 22 | 4/28/2016 | 100.7 | 7,946 | 8,098 | 4,729 | 254,200.00 | 6,204 | 0 |



Hydraulic Fracturing Fluid Product Component Information Disclosure

| Start Date: 4/24/2015 | Job Start Date: |
|--------------------------------|--------------------------------|
| b End Date: 4/28/2015 | Job End Date: |
| State: West Virginia | State: |
| County: Doddridge | County: |
| .PI Number: 47-017-06762-00-00 | API Number: |
| rator Name: EQT Production | Operator Name: |
| nd Number: 515876 | Well Name and Number: |
| Latitude: 39.27233000 | Latitude: |
| Longitude: -80.77133000 | Longitude: |
| Datum: NAD83 | Datum: |
| ederal Well: NO | Federal Well: |
| Indian Well: NO | Indian Well: |
| rtical Depth: 6,682 | True Vertical Depth: |
| olume (gal): 5,741,694 | Total Base Water Volume (gal): |
| iter Volume: 0 | Total Base Non Water Volume: |







Hydraulic Fracturing Fluid Composition:

| Trade Name | Supplier | Purpose | Ingredients | Chemical Abstract Service Number (CAS #) | Maximum Ingredient Concentration in Additive (% by mass)** | Maximum Ingredient Concentration in HF Fluid (% by mass)** | Comments |
|---------------------------|-------------|--------------------|---|---|--|--|----------|
| Vater | Keane Group | Carrier/Base Fluid | | | | | |
| | | | Water | 7732-18-5 | 100.00000 | 89.33078 | None |
| Sand (Proppant) | Keane Group | Proppant | | | | | |
| | | | Silica Substrate | 14808-60-7 | 100.00000 | 10.34545 | None |
| Hydrochloric Acid 15%) | Keane Group | Acidizing | | | | | |
| | | | Hydrochloric Acid | 7647-01-0 | 15.00000 | 0.03393 | None |
| FR760 | Keane Group | Friction Reducer | | | | | |
| | | | Hydrotreated Light Distillate | 64742-47-8 | 30.00000 | 0.01901 | None |
| | | | Alkyl Alcohol | Proprietary | 10.00000 | 0.00634 | None |
| | | | Oxyalkylated alcohol A | Proprietary | 5.00000 | 0.00317 | None |
| EC6330A | Keane Group | Scale Inhibitor | 1 | | | | |
| | | | Ethylene Glycol | 107-21-1 | 5.00000 | 0.00124 | None |
| | | | Sodium Phosphate, Tribasic | 7601-54-9 | 5.00000 | 0.00124 | None |
| Bactron K-139 | Keane Group | Biocide | | | | | |
| | | | Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides | 68424-85-1 | 10.00000 | 0.00088 | None |
| | | | Glutaraldehyde | 111-30-8 | 5.00000 | 0.00044 | None |

| | 31 | | Ethanol | 64-17-5 | 5.00000 | 0.00044None |
|-------|-------------------|---------------------|---|-------------|----------|-------------|
| I 600 | Keane Group | Corrosion Inhibitor | | | | |
| | | | Ethylene Glycol | 107-21-1 | 40.00000 | 0.00022None |
| | | | Dimethyiformamide | 68-12-2 | 20.00000 | 0.00011None |
| | | | Cinnamiaidehyde | 104-55-2 | 15.00000 | 0.00008None |
| | | | Pyridine, alkyl derives, guaternized with benzyl chloride | 68909-18-2 | 15.00000 | 0.00008None |
| | | | Nonyl Phenol Ethoxylate, Branched | 127087-87-0 | 5.00000 | 0.00003None |
| | The second second | | 1-Decanol | 112-30-1 | 5.00000 | 0.00003None |
| | | | 2-Butoxyenthanol | 111-76-2 | 5.00000 | 0.00003None |
| | | | 1-Octanol | 111-87-5 | 5.00000 | 0.00003None |
| | | | Triethyl Phosphate | 78-40-0 | 2.50000 | 0.00001None |
| | | | Methanol | 67-56-1 | 2.50000 | 0.00001None |
| | | | Alkyl Pyridine | 68391-11-7 | 1.00000 | 0.00001None |

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.
Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

^{*} Total Water Volume sources may include fresh water, produced water, and/or recycled water
** Information is based on the maximum potential for concentration and thus the total may be over 100%

