

WR-36 Rev. 5/08 Date: 4/22/19

Operators Well Number: D'Annunzio HCCP 7 205

API Well No: 47-033 - 05914

## State of West Virginia Department of Environmental Protection Office of Oil and Gas

Well Operator's Report of Initial Gas-Oil Ratio

| Well Operator Arsenal Resources LLC                |  |                                      |  |                         | Des             | Designated Agent William Veigel                                    |                                  |                            |                    |                            |  |
|--|--|--------------------------------------|--|-------------------------|-----------------|--|----------------------------------|----------------------------|--------------------|----------------------------|--|
| Address 6031 Wallace Roa                           |  |                                      | e Road Ext. Suite 300                    |                         |                 | Addres   | 65 Professional Place, Suite 200 |                            |                    |                            |  |
|  | Wexford, F   | PA 15090                             |  |                         |                 |  | Bridgepo                         | ort, WV 26330              |                    |                            |  |
| Geological Target Formation: Marcellus             |  |                                      |  |                         |                 |  | Perfora                          | Depth                      |                    | feet                       |  |
| 4. Measureme                                       | of gas ve<br>ore-flow in<br>oducing re<br>ent standa | nto pipeli<br>ate durin<br>ards as l | nes or tank<br>g the 24 ho<br>for Form W | our test p<br>R-39, "R  |                 | od.<br>nual Productio<br>ultiple complet                           | on" (see 3                       |                            |                    |                            |  |
|  |  |                                      |  |                         | TEST DATA       | 4  |                                  |                            |                    |                            |  |
| Start of Test Date 8:00                            |  | 8:00 A                               | Time E                                   |                         | nd of Test Date |  | Time<br>AM                       | Duration of Test<br>24 Hrs |                    |                            |  |
|  | Tubing Pressure (                                    |                                      | Casing Pressure 501                      |                         | Sep             | Separator Pressure   |                                  | Separator Temperature      |                    |                            |  |
| Oil Production During Test                         |  |                                      | Gas Production Durin                     |                         |                 | 1  | Water Production During Test     |                            | ing Test           |                            |  |
| BBLS   |  |                                      | 9991 мс                                  |                         |                 | <sub>F</sub> 817   | 817 BBIs 79,160 -Salinity        |                            |                    |                            |  |
| Oil Gr   | avity  | API F                                | lowing                                   |                         | Producing M     | fethod (flowing, p   | oumping, ga                      | as lift etc.)              |                    |                            |  |
|  |  |                                      |  | GA:                     | S PRODUC        | TION   |                                  |                            |                    |                            |  |
| Measurement Method  Flange Tap ☑ Pipe Tap ☑ L-10 ☐ |  |                                      |  |                         |                 | Positive Choke ☐ Positive flow prover ☑                            |                                  |                            |                    |                            |  |
| Orifice diameter                                   |  |                                      | Pipe Diamet                              | ter (inside)            | )               | Nominal Choke Size inches 42/64"                                   |                                  |                            |                    |                            |  |
| Differential Pressure range                        |  |                                      | Max. Static                              | pressure ra             | ange            | Prover and Orifice diameter - inches 3.826" run with 2.75" orifice |                                  |                            |                    |                            |  |
| 69.9" H2O  | Ε  | Differential                         |  |                         |                 |  | ;                                | Static                     | RE<br>Office o     | CEIVED<br>f Oil and G      |  |
| Gas Gravity (Air = 1.0)  Measured .5737 Estimated  |  |                                      | 70                                       |                         | Temperature     | 60   |                                  | Gas Tempera                | MAY                | <b>9</b> 2019              |  |
| 24 Hour  | Coefficient  |                                      |  |                         | 24              | Hour coefficient   | pressure l                       | SIA                        | WV De<br>Environme | partment o<br>ental Protec |  |
|  |  |                                      |  | T                       | EST RESUL       | _TS  |                                  |                            | <del></del>        |                            |  |
|  |  |                                      |  | Daily Water<br>BLS 9991 |                 | Daily Gas<br>MCF   |                                  |                            | -Oil Ratio         |                            |  |
|  | 8  |                                      |  | [ !                     | 9991 MCF        |  | NA                               |                            |                    |                            |  |
| Daily Oil  | 8  |                                      |  |                         | 9991 MCF        | Arsenal F  | NA<br>tesources t                |                            | r                  |                            |  |

