

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

API 47 - 033 - 05933 County Harrison District Simpson  
Quad Brownnton Pad Name Gamelli HSOG Field/Pool Name \_\_\_\_\_  
Farm name James T. Gamelli et al Well Number 203  
Operator (as registered with the OOG) Arsenal Resources  
Address 6031 Wallace Rd Ext, Ste 3000 City Wexford State PA Zip 15090

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey  
Top hole Northing 4,346,083.7 Easting 568,651.0  
Landing Point of Curve Northing 4,345,933.9 Easting 568,640.6  
Bottom Hole Northing 4,341,792.9 Easting 570,136.4

Elevation (ft) 1140.50' GL Type of Well  New  Existing Type of Report  Interim  Final  
Permit Type  Deviated  Horizontal  Horizontal 6A  Vertical Depth Type  Deep  Shallow  
Type of Operation  Convert  Deepen  Drill  Plug Back  Redrilling  Rework  Stimulate  
Well Type  Brine Disposal  CBM  Gas  Oil  Secondary Recovery  Solution Mining  Storage  Other \_\_\_\_\_  
Type of Completion  Single  Multiple Fluids Produced  Brine  Gas  NGL  Oil  Other \_\_\_\_\_  
Drilled with  Cable  Rotary

Drilling Media Surface hole  Air  Mud  Fresh Water Intermediate hole  Air  Mud  Fresh Water  Brine  
Production hole  Air  Mud  Fresh Water  Brine  
Mud Type(s) and Additive(s)  
Synthetic Oil Based

Date permit issued 03/01/2019 Date drilling commenced 03/18/2019 Date drilling ceased 06/25/2019  
Date completion activities began 5/17/2021 Date completion activities ceased 6/8/2021  
Verbal plugging (Y/N) N Date permission granted NA Granted by NA

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 115', 380' 575', 650' Open mine(s) (Y/N) depths N  
Salt water depth(s) ft 1,400' Void(s) encountered (Y/N) depths N  
Coal depth(s) ft 97',155',254', 310',406',442',505',588',624',660' Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) N

**Reviewed**  
SDW

Reviewed by: AS

**12/31/2021**

API 47- 033 - 05933

Farm name James T. Gamelli et al

Well number 203

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/ N) * Provide details below*
Conductor	30"	26"	40'	New	102.75	NA	Y
Surface	17 1/2"	13 3/8"	773' GL	New	54.5	145'	Y
Coal	NA	NA	NA	NA	NA	NA	N
Intermediate 1	12 1/4"	9 5/8"	2,434' GL	New	40.0	NA	Y
Intermediate 2	NA	NA	NA	NA	NA	NA	NA
Intermediate 3	NA	NA	NA	NA	NA	NA	NA
Production	8 1/2"	5 1/2"	21,983' GL	New	23.0	NA	N
Tubing	NA	NA	NA	NA	NA	NA	NA
Packer type and depth set		NA					

Comment Details Cement to surface on Conductor, Surface, and Intermediate. Top of Cement for Production string, 1,473'.

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	A	82	15.60	1.20	98.40	Surface	8+
Surface	A	700	15.60	1.20	840	Surface	8+
Coal	NA	NA	NA	NA	NA	NA	NA
Intermediate 1	A	753	15.70	1.29	971.37	Surface	8+
Intermediate 2	NA	NA	NA	NA	NA	NA	NA
Intermediate 3	NA	NA	NA	NA	NA	NA	NA
Production	A	800/2,958	14.20/15.00	1.24/1.29	992/3,815.82	1,473'	8+
Tubing	NA	NA	NA	NA	NA	NA	NA

Drillers TD (ft) 21,995'(GL)

Loggers TD (ft) 7,239' (GL)

Deepest formation penetrated Marcellus

Plug back to (ft) 5,863

Plug back procedure Set 600' bottom plug (200sx, 50/50Poz, 2% Gel, 10% Salt). Bottom plug set 7,263 to 6,658. Set top 600' plug (290sx, 50/50Poz, 2% Gel, 10% Salt).

Top plug set from 6,563' to 5,863'.

Kick off depth (ft) 6,644'(GL)

Check all wireline logs run  caliper  density  deviated/directional  induction  
 neutron  resistivity  gamma ray  temperature  sonic

Well cored  Yes  No Conventional Sidewall Were cuttings collected  Yes  No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING 26"- No centralizers, 13 3/8"- one bow spring centralizer on every other joint, 9 5/8"- one semi rigid centralizer on every joint from TD of casing to end of curve. Then every other joint to KOP. Every third joint from KOP to 1,400'; there will be no centralizers from 1,400' to surface

WAS WELL COMPLETED AS SHOT HOLE  Yes  No DETAILS \_\_\_\_\_

WAS WELL COMPLETED OPEN HOLE?  Yes  No DETAILS \_\_\_\_\_

WERE TRACERS USED  Yes  No TYPE OF TRACER(S) USED \_\_\_\_\_



Perforations  
Date

Top (ftKB)	Btm (ftKB)	Entered Shot Total	Stage	Formation
6/7/2021	7,561.00	7,723.00	40	71 Marcellus
6/7/2021	7,761.00	7,923.00	40	70 Marcellus
6/7/2021	7,961.00	8,123.00	40	69 Marcellus
6/7/2021	8,161.00	8,323.00	40	68 Marcellus
6/7/2021	8,361.00	8,523.00	40	67 Marcellus
6/6/2021	8,561.00	8,723.00	40	66 Marcellus
6/6/2021	8,761.00	8,923.00	40	65 Marcellus
6/6/2021	8,961.00	9,123.00	40	64 Marcellus
6/6/2021	9,161.00	9,323.00	40	63 Marcellus
6/6/2021	9,361.00	9,523.00	40	62 Marcellus
6/5/2021	9,561.00	9,723.00	40	61 Marcellus
6/5/2021	9,761.00	9,923.00	40	60 Marcellus
6/5/2021	9,961.00	10,123.00	40	59 Marcellus
6/5/2021	10,161.00	10,323.00	40	58 Marcellus
6/5/2021	10,361.00	10,523.00	40	57 Marcellus
6/4/2021	10,561.00	10,723.00	40	56 Marcellus
6/4/2021	10,761.00	10,923.00	40	55 Marcellus
6/4/2021	10,961.00	11,123.00	40	54 Marcellus
6/4/2021	11,161.00	11,323.00	40	53 Marcellus
6/3/2021	11,361.00	11,523.00	40	52 Marcellus
6/3/2021	11,561.00	11,723.00	40	51 Marcellus
6/3/2021	11,761.00	11,923.00	40	50 Marcellus
6/3/2021	11,961.00	12,123.00	40	49 Marcellus
6/3/2021	12,161.00	12,323.00	40	48 Marcellus
5/31/2021	12,361.00	12,523.00	40	47 Marcellus
5/30/2021	12,561.00	12,723.00	40	46 Marcellus
5/30/2021	12,761.00	12,923.00	40	45 Marcellus
5/30/2021	12,961.00	13,123.00	40	44 Marcellus
5/30/2021	13,161.00	13,323.00	40	43 Marcellus
5/29/2021	13,361.00	13,523.00	40	42 Marcellus
5/29/2021	13,561.00	13,723.00	40	41 Marcellus
5/29/2021	13,761.00	13,923.00	40	40 Marcellus
5/28/2021	13,961.00	14,123.00	40	39 Marcellus
5/28/2021	14,161.00	14,323.00	40	38 Marcellus
5/28/2021	14,361.00	14,523.00	40	37 Marcellus
5/28/2021	14,561.00	14,723.00	40	36 Marcellus
5/27/2021	14,761.00	14,923.00	40	35 Marcellus
5/27/2021	14,961.00	15,123.00	40	34 Marcellus
5/27/2021	15,161.00	15,323.00	40	33 Marcellus
5/27/2021	15,361.00	15,523.00	40	32 Marcellus
5/26/2021	15,561.00	15,723.00	40	31 Marcellus
5/26/2021	15,761.00	15,923.00	40	30 Marcellus
5/26/2021	15,961.00	16,123.00	40	29 Marcellus
5/26/2021	16,161.00	16,323.00	40	28 Marcellus
5/25/2021	16,361.00	16,523.00	40	27 Marcellus
5/25/2021	16,561.00	16,723.00	40	26 Marcellus
5/25/2021	16,761.00	16,923.00	40	25 Marcellus
5/25/2021	16,961.00	17,123.00	40	24 Marcellus
5/24/2021	17,161.00	17,323.00	40	23 Marcellus
5/24/2021	17,361.00	17,523.00	40	22 Marcellus
5/24/2021	17,561.00	17,723.00	40	21 Marcellus
5/23/2021	17,761.00	17,923.00	40	20 Marcellus
5/23/2021	17,961.00	18,123.00	40	19 Marcellus
5/23/2021	18,161.00	18,323.00	40	18 Marcellus
5/22/2021	18,361.00	18,523.00	40	17 Marcellus
5/22/2021	18,561.00	18,723.00	40	16 Marcellus
5/22/2021	18,761.00	18,923.00	40	15 Marcellus
5/22/2021	18,961.00	19,123.00	40	14 Marcellus
5/22/2021	19,161.00	19,323.00	40	13 Marcellus
5/21/2021	19,361.00	19,523.00	40	12 Marcellus
5/21/2021	19,561.00	19,723.00	40	11 Marcellus
5/21/2021	19,761.00	19,923.00	40	10 Marcellus
5/20/2021	19,961.00	20,123.00	40	9 Marcellus
5/20/2021	20,161.00	20,323.00	40	8 Marcellus
5/20/2021	20,361.00	20,523.00	40	7 Marcellus
5/19/2021	20,561.00	20,723.00	40	6 Marcellus
5/19/2021	20,761.00	20,923.00	40	5 Marcellus
5/19/2021	20,961.00	21,123.00	40	4 Marcellus
5/18/2021	21,161.00	21,323.00	40	3 Marcellus
5/18/2021	21,361.00	21,523.00	40	2 Marcellus
5/17/2021	21,561.00	21,743.00	40	1 Marcellus

Stimulations Summary  
 Start Date: 5/15/2021  
 Stimulation Intervals

R Treat Avg (bb/min): P Treat Avg (psi): Mass Prop Tot (lb): 34,973,480.0 Vol Clean Total (bb): 641,511.00 Frac Grad Avg (psi/ft): 1.17

Interval Number	Start Date	Slurry Rate Avg (bb/min)	P Treat Avg (psi)	P Breakdown (psi)	ISIP (psi)	Proppant Total CR (lb)	Vol Clean Total (bb)	Nitrogen
1	5/18/2021	80.50	9,013.00	9,013.00	0.00	4,154.00	498,070.00	9,383.00 NA
2	5/18/2021	84.90	9,514.00	9,514.00	0.00	4,328.00	504,770.00	9,661.00 NA
3	5/19/2021	82.70	9,556.00	7,531.00	5,340.00	4,328.00	499,680.00	9,517.00 NA
4	5/19/2021	79.30	10,029.00	6,932.00	5,139.00	4,328.00	501,990.00	9,530.00 NA
5	5/19/2021	81.90	10,247.00	7,315.00	5,232.00	4,328.00	438,220.00	8,841.00 NA
6	5/20/2021	80.40	9,881.00	6,872.00	5,109.00	5,000.00	500,500.00	9,661.00 NA
7	5/20/2021	80.00	10,035.00	7,069.00	4,802.00	4,999.00	499,580.00	9,446.00 NA
8	5/20/2021	80.80	9,793.00	7,315.00	4,999.00	5,000.00	500,750.00	9,338.00 NA
9	5/20/2021	80.80	9,854.00	7,049.00	4,970.00	5,000.00	500,105.00	9,240.00 NA
10	5/21/2021	77.90	10,092.00	7,747.00	5,111.00	4,999.00	499,810.00	9,458.00 NA
11	5/21/2021	75.90	9,780.00	7,577.00	5,419.00	5,000.00	500,165.00	9,246.00 NA
12	5/21/2021	78.60	9,763.00	7,064.00	4,985.00	5,000.00	500,180.00	9,360.00 NA
13	5/22/2021	78.60	9,763.00	6,754.00	5,651.00	5,000.00	500,180.00	8,413.00 NA
14	5/22/2021	78.60	9,763.00	6,635.00	6,168.00	5,000.00	500,180.00	9,174.00 NA
15	5/22/2021	85.70	9,604.00	7,066.00	5,235.00	5,000.00	500,440.00	9,165.00 NA
16	5/22/2021	81.10	8,878.00	6,879.00	4,927.00	5,000.00	500,280.00	9,178.00 NA
17	5/23/2021	82.20	9,270.00	7,068.00	5,723.00	5,000.00	500,420.00	9,320.00 NA
18	5/23/2021	82.20	9,270.00	7,068.00	5,723.00	5,000.00	500,420.00	10,408.00 NA
19	5/23/2021	80.10	9,056.00	6,360.00	5,551.00	5,000.00	500,480.00	9,254.00 NA
20	5/23/2021	75.30	9,445.00	7,063.00	6,588.00	285,060.00	7,386.00 NA	9,226.00 NA
21	5/24/2021	80.20	8,546.00	6,349.00	4,515.00	5,000.00	500,600.00	9,016.00 NA
22	5/24/2021	83.00	8,821.00	5,221.00	4,802.00	499,870.00	9,016.00 NA	9,660.00 NA
23	5/24/2021	81.00	8,749.00	6,749.00	5,232.00	5,000.00	500,420.00	9,093.00 NA
24	5/25/2021	81.00	8,749.00	6,142.00	5,232.00	5,000.00	500,250.00	9,100.00 NA
25	5/25/2021	81.20	9,001.00	6,335.00	5,467.00	5,000.00	500,250.00	9,602.00 NA
26	5/25/2021	81.20	9,001.00	6,774.00	4,373.00	423,120.00	9,602.00 NA	9,623.00 NA
27	5/26/2021	83.00	8,664.00	6,871.00	6,193.00	5,000.00	500,310.00	9,076.00 NA
28	5/26/2021	83.00	9,136.00	6,400.00	6,935.00	5,000.00	500,130.00	9,271.00 NA
29	5/26/2021	85.10	9,380.00	6,861.00	4,623.00	5,000.00	500,150.00	9,134.00 NA
30	5/26/2021	80.10	8,814.00	7,045.00	4,936.00	499,580.00	9,839.00 NA	9,839.00 NA
31	5/27/2021	85.00	9,116.00	7,123.00	5,044.00	5,000.00	500,380.00	9,055.00 NA
32	5/27/2021	85.00	9,116.00	7,084.00	6,472.00	5,000.00	500,480.00	9,031.00 NA
33	5/27/2021	85.20	9,119.00	7,233.00	6,784.00	5,000.00	500,870.00	9,406.00 NA
34	5/27/2021	85.30	9,138.00	7,179.00	5,292.00	5,000.00	500,020.00	9,017.00 NA
35	5/28/2021	85.30	8,962.00	7,234.00	6,316.00	499,780.00	9,059.00 NA	9,059.00 NA
36	5/28/2021	85.90	9,384.00	6,377.00	5,850.00	5,000.00	500,470.00	9,041.00 NA
37	5/28/2021	84.30	9,490.00	6,188.00	5,380.00	445,230.00	9,996.00 NA	9,996.00 NA
38	5/29/2021	85.20	9,280.00	7,190.00	5,601.00	5,000.00	500,220.00	9,275.00 NA
39	5/29/2021	84.90	8,896.00	6,018.00	5,640.00	499,770.00	9,987.00 NA	9,987.00 NA
40	5/29/2021	84.60	8,932.00	6,864.00	6,480.00	5,000.00	501,130.00	9,223.00 NA
41	5/29/2021	84.70	8,651.00	6,853.00	6,160.00	450,820.00	9,640.00 NA	9,640.00 NA
42	5/30/2021	85.20	8,780.00	6,861.00	5,720.00	499,900.00	9,074.00 NA	9,074.00 NA
43	5/30/2021	84.10	8,460.00	6,453.00	3,750.00	501,050.00	8,999.00 NA	8,999.00 NA
44	5/30/2021	84.60	8,384.00	6,837.00	6,340.00	499,910.00	8,994.00 NA	8,994.00 NA
45	6/3/2021	85.40	8,173.00	6,169.00	5,254.00	5,000.00	500,480.00	8,932.00 NA
46	6/3/2021	86.50	8,525.00	5,681.00	5,291.00	5,000.00	500,230.00	9,031.00 NA
47	6/3/2021	85.50	8,374.00	7,093.00	6,230.00	501,250.00	8,885.00 NA	8,885.00 NA
48	6/3/2021	85.80	8,481.00	5,769.00	5,815.00	5,000.00	500,360.00	8,902.00 NA
49	6/3/2021	85.00	8,255.00	7,117.00	5,817.00	499,810.00	8,939.00 NA	8,939.00 NA
50	6/4/2021	85.70	8,344.00	6,925.00	5,982.00	5,000.00	500,160.00	9,047.00 NA
51	6/4/2021	85.70	8,344.00	7,063.00	6,004.00	499,550.00	9,011.00 NA	9,011.00 NA
52	6/4/2021	86.00	8,349.00	7,117.00	6,080.00	5,000.00	500,510.00	8,938.00 NA
53	6/4/2021	86.50	8,318.00	6,905.00	5,998.00	5,000.00	500,370.00	8,907.00 NA
54	6/4/2021	84.70	8,152.00	6,946.00	5,931.00	5,000.00	500,210.00	8,946.00 NA
55	6/5/2021	85.70	8,084.00	6,988.00	6,230.00	5,000.00	500,420.00	8,978.00 NA
56	6/5/2021	85.70	8,310.00	5,759.00	5,650.00	5,000.00	500,760.00	8,880.00 NA
57	6/5/2021	85.70	8,310.00	6,963.00	6,080.00	499,530.00	8,968.00 NA	8,968.00 NA
58	6/5/2021	85.90	8,302.00	6,969.00	6,011.00	5,000.00	500,390.00	8,917.00 NA
59	6/5/2021	85.70	8,248.00	6,981.00	5,922.00	5,000.00	500,650.00	9,063.00 NA
60	6/6/2021	86.10	7,812.00	6,850.00	6,125.00	5,000.00	500,680.00	8,916.00 NA
61	6/6/2021	87.10	8,010.00	7,175.00	6,235.00	5,000.00	500,350.00	8,819.00 NA
62	6/6/2021	86.20	8,473.00	6,739.00	6,290.00	499,930.00	8,811.00 NA	8,811.00 NA
63	6/6/2021	84.60	8,328.00	6,081.00	6,399.00	5,000.00	500,150.00	8,906.00 NA
64	6/6/2021	86.40	8,645.00	5,527.00	6,384.00	5,000.00	502,700.00	8,939.00 NA
65	6/7/2021	85.20	8,740.00	7,464.00	5,950.00	5,000.00	501,560.00	8,952.00 NA
66	6/7/2021	85.30	8,401.00	7,601.00	6,130.00	499,930.00	8,793.00 NA	8,793.00 NA
67	6/7/2021	85.40	8,566.00	7,294.00	6,575.00	499,480.00	8,703.00 NA	8,703.00 NA
68	6/7/2021	85.40	8,359.00	7,471.00	5,259.00	5,000.00	500,320.00	8,930.00 NA
69	6/8/2021	85.30	8,011.00	7,322.00	5,448.00	5,000.00	500,400.00	8,862.00 NA

API 47- 033 - 05933

Farm name James T. Gamelli et al

Well number 203

PRODUCING FORMATION(S)

DEPTHS

Marcellus Shale 7,518' TVD 22,022' MD

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface \_\_\_\_\_ psi Bottom Hole \_\_\_\_\_ psi DURATION OF TEST \_\_\_\_\_ hrs

OPEN FLOW Gas \_\_\_\_\_ mcfpd Oil \_\_\_\_\_ bpd NGL \_\_\_\_\_ bpd Water \_\_\_\_\_ bpd  
GAS MEASURED BY  Estimated  Orifice  Pilot

LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H <sub>2</sub> S, ETC)
Sand/Silt/Coal	0	254	0	254	Freshwater @ 115', 380', 575', 650', Elik Lick Coal @ 106' TVD, Harlem Coal @ 155' TVD
Sand/Silt/Coal	254	406	254	406	Bakerstown Coal @ 254' TVD, Brush Creek Coal @ 310' TVD
Sand/Silt/Coal	406	505	406	505	Upper Freeport @ 406' TVD, Lower Freeport @ 442' TVD
Sand/Silt/Coal	505	1260	505	1260	Upper Kittanning @ 505' TVD, Middle Kittanning @ 588' TVD, Lower Kittanning @ 624' TVD, Clarion @ 660' TVD
Big Lime	1260	1430	1260	1430	Limestone, Saltwater @ 1,400'
Balltown	2860	2906	2860	2906	Sandstone
Elk Siltstone	4890	4638	4891	4639	Siltstone
Burkett	7045	7062	7094	7115	Shale
Tully	7062	7112	7115	7175	Limestone
Mahantango	7112	7278	7175	7440	Shale
Marcellus	7278	7330	7440	7583	Shale
Purcell	7330	7332	7583	7589	Limestone
Lower Marcellus	7332	7370	7589	22022	Shale - Gas shows through lateral
Onondaga	7370*				*Onondaga not penetrated - top estimated based on 4703305933 thickness

Please insert additional pages as applicable.

Drilling Contractor Helmerich & Payne

Address 1437 South Boulder Ave. City Tulsa State OK Zip 74119

Logging Company Baker Hughes - GE

Address 2001 Rankin Rd City Houston State TX Zip 77073

Cementing Company Universal Pressure Pumping

Address 6 Desta Drive, Suite 4400 City Midland State TX Zip 79705

Stimulating Company Stingray - Mammoth Energy Services Inc

Address 14201 Caliber Drive Suite 300 City Oklahoma City State OK Zip 73134

Please insert additional pages as applicable.

Completed by Arsenal Resources Telephone 724-584-1192  
Signature  Title Sr. Director of Drilling Date 9/11/2021

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

12/31/2021

**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  
Address 6031 Wallace Road Ext. Suite 300  
Wexford, PA 15090

Designated Agent Gary Short  
Address 633 West Main St  
Bridgeport WV, 26330

Geological Target Formation: Marcellus Depth 7340 feet  
Perforation Interval 7561-21743 feet

Guidelines for testing:

1. A minimum of gas vented or flared.
2. A 24 hour pre-flow into pipelines or tanks.
3. Uniform producing rate during the 24 hour test per test period.
4. Measurement standards as for Form WR-39, "Report of Annual Production" (see 35CSR4-15)
5. Separate Form WR-36 for each producing formation in a multiple completion.

**TEST DATA**

Start of Test Date <b>8/17/21</b>	Time <b>9:00 AM</b>	End of Test Date <b>8/18/21</b>	Time <b>9:00 AM</b>	Duration of Test <b>24 hr</b>
Tubing Pressure <b>NA</b>	Casing Pressure <b>1578</b>	Separator Pressure <b>972</b>	Separator Temperature <b>97</b>	
Oil Production During Test BBLs	Gas Production During Test MCF	Water Production During Test BBLs -Salinity		
Oil Gravity API	Producing Method (flowing, pumping, gas lift etc.) <b>Flowing</b>			

**GAS PRODUCTION**

Measurement Method Flange Tap <input type="checkbox"/> Pipe Tap <input type="checkbox"/> L-10 <input type="checkbox"/>		Positive Choke <input type="checkbox"/>
		Positive flow prover <input checked="" type="checkbox"/>
Orifice diameter	Pipe Diameter (inside)	Nominal Choke Size inches <b>48/64</b>
Differential Pressure range	Max. Static pressure range	Prover and Orifice diameter - inches <b>5.761" run with 2" orifice</b>
Differential		Static
Gas Gravity (Air = 1.0) Measured Estimated	Flowing Temperature <b>97</b>	Gas Temperature <b>60</b>
24 Hour Coefficient	24 Hour coefficient pressure PSIA	

**TEST RESULTS**

Daily Oil <b>0</b>	Daily Water <b>1033</b>	Daily Gas <b>15078</b>	Gas-Oil Ratio <b>NA</b>
-----------------------	----------------------------	---------------------------	----------------------------

Arsenal Resources LLC

BY R. Schwitzer Well Operator  
ITS: Responsible Person - Sr. Director of Drilling

**12/31/2021**

# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	5/16/2021
Job End Date:	6/8/2021
State:	West Virginia
County:	Harrison
API Number:	47-033-05933-00-00
Operator Name:	Arsenal Resources
Well Name and Number:	Gamelli 203
Latitude:	39.26314700
Longitude:	-80.20118900
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7,472
Total Base Water Volume (gal):	28,135,506
Total Base Non Water Volume:	0



## 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
Water	Arsenal Resources	Carrier/Base Fluid					
			Water	7732-18-5	100.00000	86.88106	None
Sand (40/70 Proppant)	US Silica	Proppant					
			Silica Substrate	14808-60-7	100.00000	9.98762	None
Sand (100 Mesh Proppant)	US Silica	Proppant					
			Silica Substrate	14808-60-7	100.00000	2.89299	None
Hydrochloric Acid (28%)	Dover	Acidizing					
			Water	7732-18-5	64.00000	0.08344	None
			Hydrochloric Acid (Hydrogen Chloride)	7732-18-5	36.00000	0.04693	None
StimSTREAM FR 9750	Chemstream	Friction Reducer					
			Petroleum Distillates, hydrotreated light	64742-47-8	25.00000	0.01943	None
			Alcohols, C11-14-iso-, C13-rich, ethoxylated	78330-21-9	5.00000	0.00389	None
StimSTREAM SC-398	Chemstream	Scale Inhibitor					
			Non-hazardous substances	Proprietary	90.00000	0.01486	None



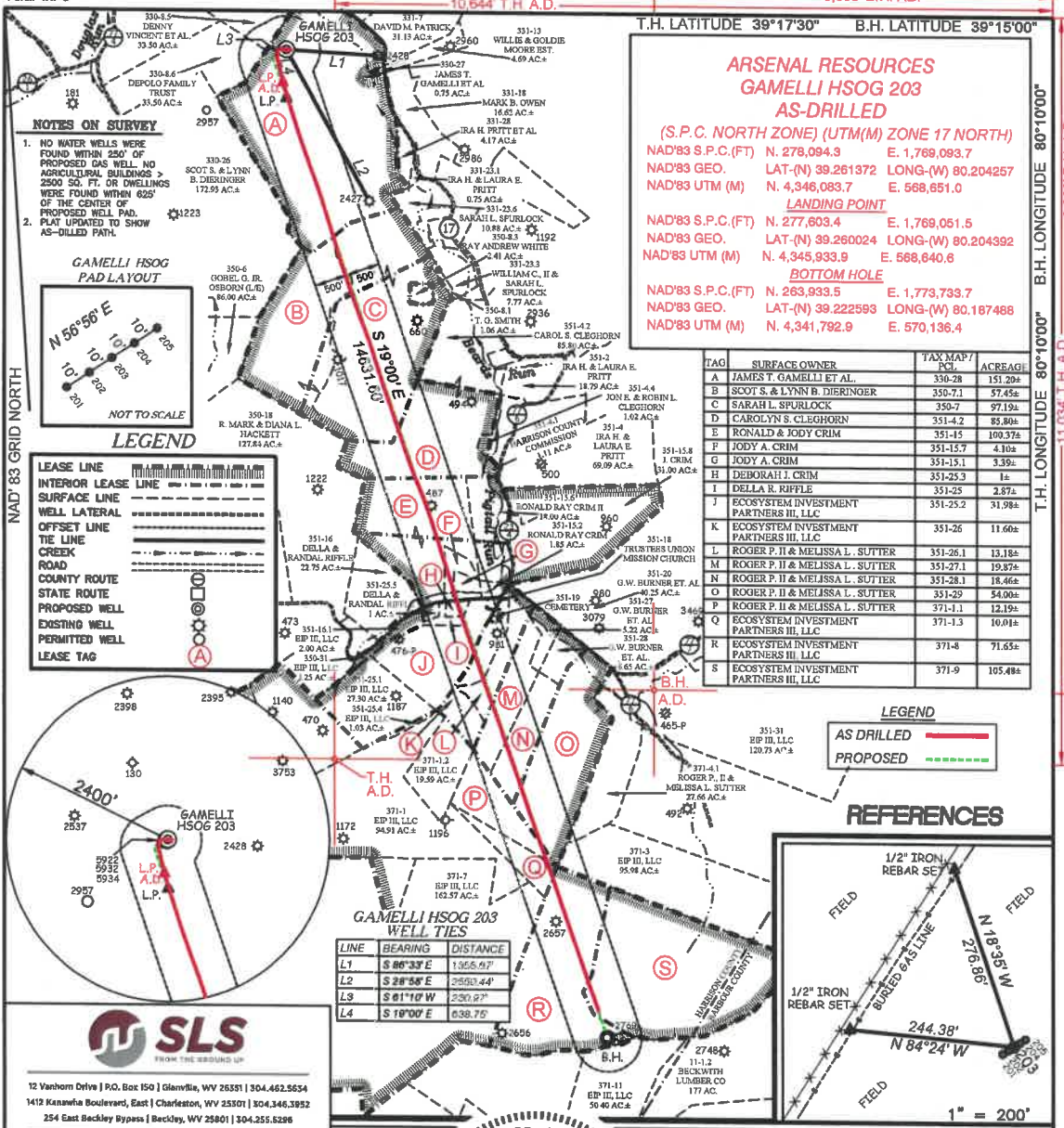
			Bis (HexaMethylene Triamine Penta(Methylene Phosphonic Acid) (BHMT)	34690-00-1	10.00000	0.00165	None
Clearal 268	Chemstream	Biocide					
			Non-hazardous substances	Proprietary	80.00000	0.01052	None
			Glutaraldehyde	111-30-8	20.00000	0.00263	None
			Quaternary Ammonium Compounds	68424-85-1	3.00000	0.00039	None
			Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00039	None
			Ethanol	64-17-5	1.50000	0.00020	None
NEFE-180	Dover	Corrosion Inhibitor/Iron Control					
			Acetic acid	64-19-7	89.00000	0.00051	None
			Methanol	67-56-1	40.00000	0.00023	None
			2-Ethylhexanol	104-76-7	10.00000	0.00006	None
			Alcohols, C14-15, ethoxylated	68951-67-7	5.00000	0.00003	None
			2-Propyn-1-ol	107-19-7	5.00000	0.00003	None
			Coconut oil acid diethanolamine	68603-42-9	5.00000	0.00003	None
			Fatty acids, tall oil	61790-12-3	5.00000	0.00003	None
Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.							
Other Chemical(s)	Listed Above	See Trade Name(s) List					
			Water	7732-18-5	64.00000	0.08344	
			Non-hazardous substances	Proprietary	90.00000	0.01486	
			Non-hazardous substances	Proprietary	80.00000	0.01052	
			Alcohols, C11-14-iso-, C13-rich, ethoxylated	78330-21-9	5.00000	0.00389	
			Quaternary Ammonium Compounds	68424-85-1	3.00000	0.00039	
			Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00039	
			Methanol	67-56-1	40.00000	0.00023	
			Ethanol	64-17-5	1.50000	0.00020	
			2-Ethylhexanol	104-76-7	10.00000	0.00006	
			2-Propyn-1-ol	107-19-7	5.00000	0.00003	
			Coconut oil acid diethanolamine	68603-42-9	5.00000	0.00003	
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			Fatty acids, tall oil	61790-12-3	5.00000	0.00003	

\* 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%

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)



NOTES ON SURVEY

- NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS > 2500 SQ. FT. OR DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD. PLAY UPDATED TO SHOW AS-DRILLED PATH.

GAMELLI HSOG PAD LAYOUT



LEGEND

- LEASE LINE
- INTERIOR LEASE LINE
- SURFACE LINE
- WELL LATERAL
- OFFSET LINE
- TIE LINE
- CREEK
- ROAD
- COUNTY ROUTE
- STATE ROUTE
- PROPOSED WELL
- EXISTING WELL
- PERMITTED WELL
- LEASE TAG

NAD '83 GRID NORTH

B.H. LONGITUDE 80°10'00"

ARSENAL RESOURCES GAMELLI HSOG 203 AS-DRILLED

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)

NAD'83 S.P.C.(FT) N. 278,094.3 E. 1,769,093.7  
 NAD'83 GEO. LAT-(N) 39.261972 LONG-(W) 80.204257  
 NAD'83 UTM (M) N. 4,346,083.7 E. 568,651.0

**LANDING POINT**

NAD'83 S.P.C.(FT) N. 277,603.4 E. 1,769,051.5  
 NAD'83 GEO. LAT-(N) 39.260024 LONG-(W) 80.204392  
 NAD'83 UTM (M) N. 4,345,933.9 E. 568,640.6

**BOTTOM HOLE**

NAD'83 S.P.C.(FT) N. 263,933.5 E. 1,773,733.7  
 NAD'83 GEO. LAT-(N) 39.222593 LONG-(W) 80.187488  
 NAD'83 UTM (M) N. 4,341,792.9 E. 570,136.4

TAG	SURFACE OWNER	TAX MAP/FCI	ACREAGE
A	JAMES T. GAMELLI ET AL.	330-28	151.29±
B	SCOT S. & LYNN B. DIERINGER	350-71	57.45±
C	SARAH L. SPURLOCK	350-7	97.19±
D	CAROLYN S. CLEGHORN	351-42	85.80±
E	RONALD & JODY CRIM	351-15	109.37±
F	JODY A. CRIM	351-157	4.10±
G	JODY A. CRIM	351-151	3.39±
H	DEBORAH J. CRIM	351-253	1±
I	DELLA R. RIFFLE	351-25	2.87±
J	ECOSYSTEM INVESTMENT PARTNERS III, LLC	351-252	31.98±
K	ECOSYSTEM INVESTMENT PARTNERS III, LLC	351-26	11.60±
L	ROGER P. II & MELISSA L. SUTTER	351-261	13.18±
M	ROGER P. II & MELISSA L. SUTTER	351-271	19.87±
N	ROGER P. II & MELISSA L. SUTTER	351-281	18.66±
O	ROGER P. II & MELISSA L. SUTTER	351-29	54.00±
P	ROGER P. II & MELISSA L. SUTTER	371-11	12.19±
Q	ECOSYSTEM INVESTMENT PARTNERS III, LLC	371-13	10.01±
R	ECOSYSTEM INVESTMENT PARTNERS III, LLC	371-8	71.55±
S	ECOSYSTEM INVESTMENT PARTNERS III, LLC	371-9	105.48±



LINE	BEARING	DISTANCE
L1	S 86°33' E	1,365.97'
L2	S 28°58' E	2,950.44'
L3	S 01°10' W	2,300.27'
L4	S 10°00' E	638.75'

LEGEND

- AS DRILLED
- PROPOSED

REFERENCES

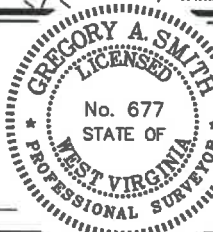


**SLS**  
FROM THE BEGINNING UP

12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26031 | 304.462.5634  
 1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952  
 254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296  
 sls.com

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAN IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION.

P.S. 849 *Gregory A. Smith*



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
 DATE SEPTEMBER 17, 20 21  
 REVISED \_\_\_\_\_  
 OPERATORS WELL NO. GAMELLI HSOG 203  
 API WELL NO. 47 - 033 - 5933  
 STATE            COUNTY            PERMIT           

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8597P203AD.dwg  
 HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE 1" = 2000'

STATE OF WEST VIRGINIA  
 DIVISION OF ENVIRONMENTAL PROTECTION  
 OFFICE OF OIL AND GAS

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  IF "GAS" PRODUCTION  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION EXISTING: 1,130.50' / PROPOSED: 1,140.50' WATERSHED BEARDS RUN  
 DISTRICT SIMPSON COUNTY HARRISON QUADRANGLE ROSEMONT 7.5'

SURFACE OWNER JAMES T. GAMELLI ET AL. ACREAGE 151.20±  
 ROYALTY OWNER JAMES T. GAMELLI ET AL. ACREAGE 151.20±

PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG AND ABANDON  CLEAN OUT AND REPLUG  OTHER   
 PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ TARGET FORMATION HUNTERSVILLE CHERT (PILOT HOLE)  
 ESTIMATED DEPTH 22,333.4' TMD / 7,317' TVD (LATERAL) / 7,427' TVD (PILOT HOLE)

WELL OPERATOR ARSENAL RESOURCES DESIGNATED AGENT GARY SHORT  
 ADDRESS 6031 WALLACE RD. EXT. SUITE 300 ADDRESS 633 WEST MAIN ST.  
WEXFORD, PA 15090 BRIDGEPORT, WV 26330

COUNTY NAME PERMIT

12/31/2021

### ARSENAL RESOURCES GAMELLI HSOG 203 AS-DRILLED

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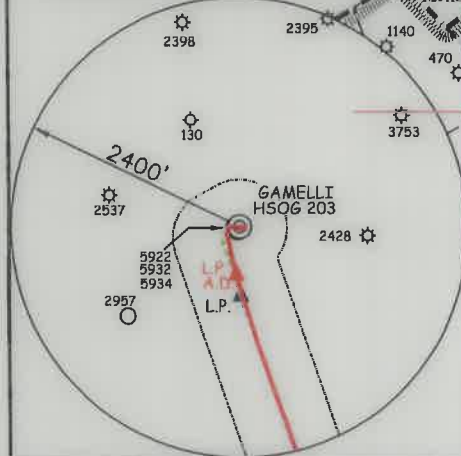
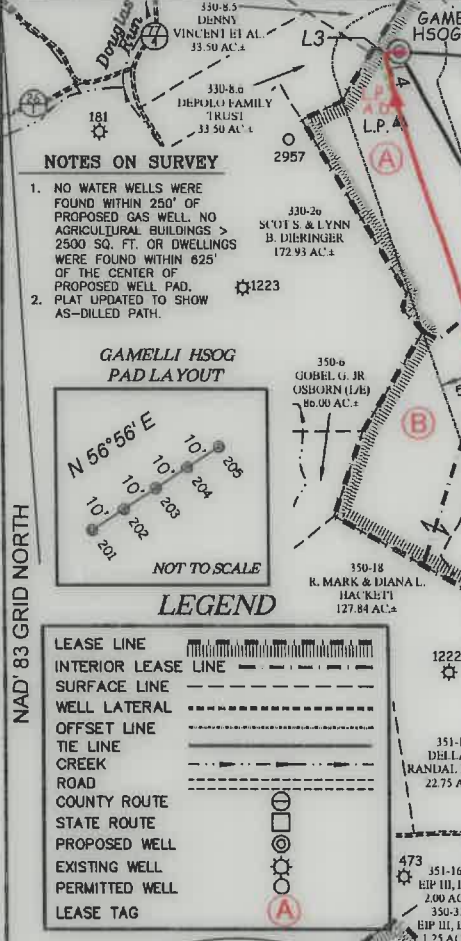
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O	ROGER P. II & MELISSA L. SUTTER	351-29	54.00±
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NAD'83 GRID NORTH

T.H. LONGITUDE 80°10'00" B.H. LONGITUDE 80°10'00"



#### GAMELLI HSOG 203 WELL TIES

LINE	BEARING	DISTANCE
L1	S 86°33' E	1355.67'
L2	S 28°58' E	2550.44'
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L4	S 19°00' E	638.75'

#### LEGEND

AS DRILLED —

PROPOSED ---

#### REFERENCES



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

DATE SEPTEMBER 17, 20 21

REVISED \_\_\_\_\_

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API WELL NO. 47 - 033 - 5933

STATE PA COUNTY CO PERMIT \_\_\_\_\_

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P.S. Gregory A. Smith  
849 \_\_\_\_\_

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DIVISION OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS

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WEXFORD, PA 15090 BRIDGEPORT, WV 26330

COUNTY NAME PERMIT

T.H. LONGITUDE 80°10'00" B.H. LONGITUDE 80°10'00" 11,034' T.H. A.D. 9,983' B.H. A.D.

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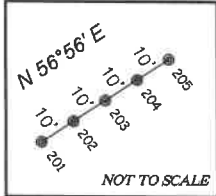
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#### NOTES ON SURVEY

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#### GAMELLI HSOG PAD LAYOUT



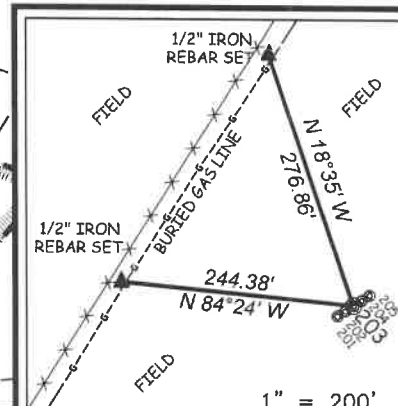
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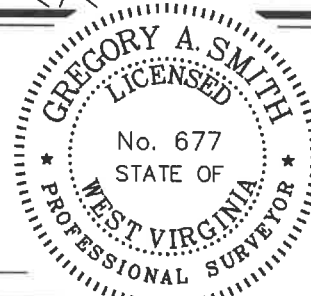


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 254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296  
 slsw.com



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 DISTRICT SIMPSON COUNTY HARRISON QUADRANGLE ROSEMONT 7.5'  
 SURFACE OWNER JAMES T. GAMELLI ET AL. ACREAGE 151.20±  
 ROYALTY OWNER JAMES T. GAMELLI ET AL. ACREAGE 151.20±  
 PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG AND ABANDON  CLEAN OUT AND REPLUG  OTHER   
 PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ TARGET FORMATION HUNTERSVILLE CHERT (PILOT HOLE)  
 ESTIMATED DEPTH 22,333.4' TMD / 7,317' TVD (LATERAL) / 7,427' TVD (PILOT HOLE)

WELL OPERATOR ARSENAL RESOURCES DESIGNATED AGENT GARY SHORT  
 ADDRESS 6031 WALLACE RD. EXT SUITE 300 WEXFORD, PA 15090 ADDRESS 633 WEST MAIN ST. BRIDGEPORT, WV 26330

COUNTY NAME PERMIT