

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

API 47 - 091 - 01370 County Taylor District Flemington
Quad Rosemont Pad Name Johnson TFP 40 Field/Pool Name _____
Farm name Renee Johnson Well Number Johnson TFP 40 205
Operator (as registered with the OOG) Arsenal Resources
Address 6031 Wallace Rd Ext, Ste 101 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 4345805.85 Easting 571690.32
Landing Point of Curve Northing 4345825.02 Easting 572034.92
Bottom Hole Northing 4339717.94 Easting 574264.2

Elevation (ft) 1332.5 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 04/22/2022 Date drilling commenced 7/13/2022 Date drilling ceased 12/21/2022
Date completion activities began 1/27/2023 Date completion activities ceased 7/5/2023
Verbal plugging (Y/N) N Date permission granted NA Granted by NA RECEIVED
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Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

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Freshwater depth(s) ft none reported Open mine(s) (Y/N) depths N WV Department of
Salt water depth(s) ft none reported Void(s) encountered (Y/N) depths N Environmental Protection
Coal depth(s) ft none reported Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by:

MAK
10/18/2023

API 47-091 - 01370 Farm name Renee Johnson Well number Johnson TFP 40 205

| 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" | 24" | 120' | New | 102.7 | NA | Y |
| Surface | 17 1/2" | 13 3/8" | 727' GL | New | 54.5 | NA | Y |
| Coal | NA | NA | NA | NA | NA | NA | N |
| Intermediate 1 | 12 1/4" | 9 5/8" | 2,114' 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" | 29,950' GL | New | 20.0 | NA | N/Y |
| 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 production cement at surface 0'(GL)ft.

Lost returns cementing on original production job, see plug back detail and remedial cement job details. Cement to surface on remedial job.

| CEMENT DATA | Class/Type of Cement | Number of Sacks | Slurry wt (ppg) | Yield (ft ³ /sks) | Volume (ft ³) | Cement Top (MD) | WOC (hrs) |
|----------------|----------------------|-----------------|-----------------|------------------------------|---------------------------|-----------------|-----------|
| Conductor | A | 260 | 15.60 | 1.30 | 338 | Surface | 8+ |
| Surface | A | 703 | 15.60 | 1.19 | 836.6 | Surface | 8+ |
| Coal | NA | NA | NA | NA | NA | NA | NA |
| Intermediate 1 | A | 712 | 15.60 | 1.19 | 847.3 | Surface | 8+ |
| Intermediate 2 | NA | NA | NA | NA | NA | NA | NA |
| Intermediate 3 | NA | NA | NA | NA | NA | NA | NA |
| Production | A | 1105/4420 | 14.0/14.5 | 1.37/1.21 | 1,513.9/5348.2 | ~25,200/Surface | 8+ |
| Tubing | NA | NA | NA | NA | NA | NA | NA |

Drillers TD (ft) 29,988'(GL)

Loggers TD (ft) NA

Deepest formation penetrated Marcellus

Plug back to (ft) 25,182'

Plug back procedure Left cement in 5.5" casing at 25,182'. Perforated casing and re cemented lateral with Class A cement 1102/3553 sacks, 14.0/14.5 ppg (1.37/1.21) 1509.7/4299.13 with cement to surface.

Kick off depth (ft) 7,600'(GL)

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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 24"- No centralizers, 13 3/8" & 9 5/8"- one bow spring centralizer on every other joint, 5 1/2" - one semi rigid centralizer on every joint from TD of well to end of curve. Then every other joint to KOP. Every third joint from KOP to 2,000'; there will be no centralizers from 2,000' to surface

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS Stages and perforations

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS NA

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED NA

API 47-091 - 01370 Farm name Renee Johnson Well number Johnson TFP 40 205

PERFORATION RECORD

| Stage No. | Perforation date | Perforated from MD ft. | Perforated to MD ft. | Number of Perforations | Formation(s) |
|-----------|------------------|------------------------|----------------------|------------------------|--------------|
| | | 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) |
|-----------|-------------------|---------------------|------------------------------|------------------------------|------------|--------------------------|------------------------|----------------------------------|
| | | | See Attached | | | | | |
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API 47- 091 - 01370 Farm name Renee Johnson Well number Johnson TFP 40 205

| <u>PRODUCING FORMATION(S)</u> | <u>DEPTHS</u> | |
|-------------------------------|------------------------|-------------------------|
| <u>Marcellus Shale</u> | <u>7762 - 7878</u> TVD | <u>8437 - 24,374</u> 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 24 hrs

OPEN FLOW Gas 11170 mcfpd Oil 0 bpd NGL 0 bpd Water 607 bpd GAS MEASURED BY Estimated Orifice Pilot

| LITHOLOGY/ FORMATION | TOP | BOTTOM | TOP | BOTTOM | DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC) |
|-------------------------|-------------------------|--------------------|-------------------|-------------------|--|
| | DEPTH IN FT NAME TVD | DEPTH IN FT TVD | DEPTH IN FT MD | DEPTH IN FT MD | |
| Sand/Silt/Coal | 0 | 4875 | 0 | 5044 | Sandstone, Siltstone, Coal, Shale |
| Elk Siltstone | 4875 | 4895 | 5044 | 5066 | Siltstone |
| Sand/Silt/Shale | 4895 | 7509 | 5066 | 7965 | Sandstone, Siltstone, Shale |
| Burket | 7509 | 7533 | 7965 | 7998 | Shale |
| Tully | 7533 | 7584 | 7998 | 8070 | Limestone |
| Mahantango | 7584 | 7739 | 8070 | 8373 | Shale |
| Marcellus | 7739 | 7810 | 8373 | 8681 | Shale |
| Lower Marcellus | 7810 | - | 8681 | 29,988 | Shale |
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Please insert additional pages as applicable.

Drilling Contractor Patterson
Address 10713 West Sam Houston Parkway N., Suite 800 City Houston State TX Zip 77064

Logging Company NA
Address _____ City _____ State _____ Zip _____

Cementing Company Halliburton
Address 4999 E Pointe Dr City Zanesville State OH Zip 43701

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 724-940-1100
Signature [Signature] Title Director of Geology & Dev Planning Date 7/27/2023

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



WV 35 FORM COMPLETIONS INFORMATION

Well Header

| | | | | | | |
|------------------------------------|-----------------------------------|----------------------------------|-------------------------------|----------------------------------|-----------|--------------|
| Well Name Johnson TFP 40 205 | API/UWI 4709101370 | Lease | Pad Name Johnson TFP 40 | Operator Arsenal Resources | Well Type | Well Subtype |
| Orig KB Elev (ft) 1,359.00 | Water Depth (ft) | Well License Date | Spud Date 12/2/2022 | Rig Release Date 12/21/2022 | | |
| County TAYLOR | District | Division | Division Code | | | |
| Lat/Long Datum | Latitude (°) 39° 15' 31.187" N | Longitude (°) 80° 10' 8.62" W | UTM Easting (m) | UTM Northing (m) | | |

Jobs

| | | | |
|-------------------------------------|--|-------------------------|----------------------|
| Job Category Completion/Workover | Primary Job Type Workover | Start Date 1/19/2023 | End Date 2/4/2023 |
| Job Category Completion/Workover | Primary Job Type Initial Completion | Start Date 2/6/2023 | End Date |

Perforations

| Date | Top (ftKB) | Btm (ftKB) | Entered Shot Total | Zone |
|-----------|------------|------------|--------------------|------|
| 3/30/2023 | 8,437.0 | 8,599.0 | 40 | |
| 3/30/2023 | 8,637.0 | 8,799.0 | 40 | |
| 3/29/2023 | 8,837.0 | 8,999.0 | 40 | |
| 3/29/2023 | 9,037.0 | 9,199.0 | 40 | |
| 3/29/2023 | 9,237.0 | 9,399.0 | 40 | |
| 3/29/2023 | 9,437.0 | 9,599.0 | 40 | |
| 3/28/2023 | 9,637.0 | 9,799.0 | 40 | |
| 3/27/2023 | 9,837.0 | 9,997.0 | 40 | |
| 3/27/2023 | 10,037.0 | 10,199.0 | 40 | |
| 3/27/2023 | 10,237.0 | 10,399.0 | 40 | |
| 3/26/2023 | 10,437.0 | 10,599.0 | 40 | |
| 3/26/2023 | 10,637.0 | 10,799.0 | 40 | |
| 3/25/2023 | 10,837.0 | 10,999.0 | 40 | |
| 3/25/2023 | 11,037.0 | 11,199.0 | 40 | |
| 3/25/2023 | 11,237.0 | 11,399.0 | 40 | |
| 3/24/2023 | 11,437.0 | 11,599.0 | 40 | |
| 3/24/2023 | 11,637.0 | 11,799.0 | 40 | |
| 3/22/2023 | 11,837.0 | 11,999.0 | 40 | |
| 3/22/2023 | 12,037.0 | 12,199.0 | 40 | |
| 3/22/2023 | 12,237.0 | 12,399.0 | 40 | |
| 3/21/2023 | 12,437.0 | 12,599.0 | 40 | |
| 3/21/2023 | 12,637.0 | 12,799.0 | 40 | |
| 3/20/2023 | 12,837.0 | 12,999.0 | 40 | |
| 3/20/2023 | 13,037.0 | 13,199.0 | 40 | |
| 3/19/2023 | 13,237.0 | 13,399.0 | 40 | |
| 3/19/2023 | 13,437.0 | 13,599.0 | 40 | |
| 3/18/2023 | 13,637.0 | 13,799.0 | 40 | |
| 3/18/2023 | 13,837.0 | 13,999.0 | 40 | |
| 3/18/2023 | 14,037.0 | 14,199.0 | 40 | |
| 3/17/2023 | 14,237.0 | 14,399.0 | 40 | |
| 3/17/2023 | 14,437.0 | 14,599.0 | 40 | |
| 3/17/2023 | 14,637.0 | 14,799.0 | 40 | |
| 3/17/2023 | 14,837.0 | 14,999.0 | 40 | |
| 3/16/2023 | 15,042.0 | 15,194.0 | 40 | |
| 3/15/2023 | 15,237.0 | 15,399.0 | 40 | |
| 3/15/2023 | 15,439.0 | 15,599.0 | 40 | |

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WR 35 FORM COMPLETIONS INFORMATION

Perforations

| Date | Top (ftKB) | Btm (ftKB) | Entered Shot Total | Zone |
|-----------|------------|------------|--------------------|------|
| 3/12/2023 | 17,037.0 | 17,202.0 | 40 | |
| 3/11/2023 | 17,237.0 | 17,399.0 | 40 | |
| 3/11/2023 | 17,437.0 | 17,599.0 | 40 | |
| 3/11/2023 | 17,637.0 | 17,803.0 | 40 | |
| 3/10/2023 | 17,837.0 | 17,999.0 | 40 | |
| 3/10/2023 | 18,037.0 | 18,199.0 | 40 | |
| 3/9/2023 | 18,237.0 | 18,399.0 | 40 | |
| 3/9/2023 | 18,437.0 | 18,599.0 | 40 | |
| 3/9/2023 | 18,637.0 | 18,799.0 | 40 | |
| 3/9/2023 | 18,837.0 | 18,999.0 | 40 | |
| 3/8/2023 | 19,037.0 | 19,199.0 | 40 | |
| 3/8/2023 | 19,234.0 | 19,399.0 | 40 | |
| 3/7/2023 | 19,437.0 | 19,599.0 | 40 | |
| 3/7/2023 | 19,637.0 | 19,799.0 | 40 | |
| 3/6/2023 | 19,837.0 | 19,999.0 | 40 | |
| 3/6/2023 | 20,038.0 | 20,199.0 | 40 | |
| 3/6/2023 | 20,237.0 | 20,399.0 | 40 | |
| 3/5/2023 | 20,437.0 | 20,599.0 | 40 | |
| 3/4/2023 | 20,637.0 | 20,799.0 | 40 | |
| 3/3/2023 | 20,837.0 | 20,999.0 | 40 | |
| 3/3/2023 | 21,037.0 | 21,199.0 | 40 | |
| 3/3/2023 | 21,237.0 | 21,399.0 | 40 | |
| 3/2/2023 | 21,437.0 | 21,599.0 | 40 | |
| 3/1/2023 | 21,637.0 | 21,799.0 | 40 | |
| 3/1/2023 | 21,837.0 | 21,999.0 | 40 | |
| 2/28/2023 | 22,037.0 | 22,199.0 | 40 | |
| 2/28/2023 | 22,237.0 | 22,399.0 | 40 | |
| 2/28/2023 | 22,437.0 | 22,599.0 | 40 | |
| 2/27/2023 | 22,637.0 | 22,799.0 | 40 | |
| 2/27/2023 | 22,837.0 | 22,999.0 | 40 | |
| 2/26/2023 | 23,037.0 | 23,199.0 | 40 | |
| 2/26/2023 | 23,237.0 | 23,399.0 | 40 | |
| 2/25/2023 | 23,437.0 | 23,599.0 | 40 | |
| 2/25/2023 | 23,637.0 | 23,799.0 | 40 | |
| 2/25/2023 | 23,837.0 | 23,999.0 | 40 | |
| 2/24/2023 | 24,037.0 | 24,199.0 | 40 | |
| 2/3/2023 | 24,237.0 | 24,374.0 | 36 | |

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Stimulations Summary

| | | | | | |
|-------------------------|-----------------------|-------------------|-------------------------------------|--|--|
| Start Date 2/23/2023 | R Treat Avg (bbl/min) | P Treat Avg (psi) | Proppant Total (lb) 40,003,289.0 | Volume Clean Total (bbl) 749,710.00 | Frac Gradient Average (psi/ft) 1.08 |
|-------------------------|-----------------------|-------------------|-------------------------------------|--|--|

Stimulation Intervals

| Interval Number | Start Date | Slurry Rate Avg (bbl/min) | P Treat Avg (psi) | P Breakdown (psi) | ISIP (psi) | Proppant Total OR (lb) | Vol Clean Total (bbl) |
|-----------------|------------|---------------------------|-------------------|-------------------|------------|------------------------|-----------------------|
| 1 | 2/23/2023 | 85.6 | 10,330.0 | 8,778.0 | 4,475.0 | | 9,824.00 |
| 2 | 2/24/2023 | 83.7 | 9,120.0 | 6,827.0 | 4,975.0 | | 9,734.00 |
| 3 | 2/25/2023 | 84.7 | 8,824.0 | 7,200.0 | 5,375.0 | | 10,899.00 |
| 4 | 2/25/2023 | 84.4 | 8,965.0 | 5,119.0 | 5,610.0 | | 9,457.00 |
| 5 | 2/26/2023 | 85.7 | 9,130.0 | 8,071.0 | 5,255.0 | | 9,562.00 |
| 6 | 2/26/2023 | 83.6 | 9,045.0 | 6,807.0 | 5,575.0 | | 9,491.00 |
| 7 | 2/27/2023 | 84.7 | 9,322.0 | 6,235.0 | 5,515.0 | | 9,518.00 |



WV R 35 FORM COMPLETIONS INFORMATION

Stimulation Intervals

| Interval Number | Start Date | Slurry Rate Avg (bbl/min) | P Treat Avg (psi) | P Breakdown (psi) | ISIP (psi) | Proppant Total OR (lb) | Vol Clean Total (bbl) |
|-----------------|------------|---------------------------|-------------------|-------------------|------------|------------------------|-----------------------|
| 13 | 3/1/2023 | 85.3 | 9,020.0 | 6,416.0 | 5,119.0 | | 9,672.00 |
| 14 | 3/2/2023 | 83.5 | 8,962.0 | 5,831.0 | 5,144.0 | | 9,735.00 |
| 15 | 3/2/2023 | 85.8 | 9,102.0 | 5,878.0 | 5,561.0 | | 9,749.00 |
| 16 | 3/3/2023 | 83.6 | 8,920.0 | 6,172.0 | 5,112.0 | | 9,434.00 |
| 17 | 3/3/2023 | 85.2 | 9,002.0 | 5,944.0 | 5,112.0 | | 9,376.00 |
| 18 | 3/3/2023 | 82.6 | 9,323.0 | 6,884.0 | 5,440.0 | | 9,520.00 |
| 19 | 3/4/2023 | 85.8 | 9,297.0 | 6,537.0 | 6,170.0 | | 9,716.00 |
| 20 | 3/5/2023 | 86.9 | 9,387.0 | 6,452.0 | 6,507.0 | | 9,639.00 |
| 21 | 3/6/2023 | 84 | 8,925.0 | 6,746.0 | 6,308.0 | | 9,299.00 |
| 22 | 3/6/2023 | 85.1 | 9,058.0 | 6,478.0 | 6,675.0 | | 9,392.00 |
| 23 | 3/7/2023 | 85.8 | 8,986.0 | 7,030.0 | 5,218.0 | | 9,525.00 |
| 24 | 3/7/2023 | 86.2 | 9,115.0 | 7,053.0 | 6,092.0 | | 9,350.00 |
| 25 | 3/8/2023 | 87.7 | 9,280.0 | 6,936.0 | 6,378.0 | | 9,475.00 |
| 26 | 3/8/2023 | 85.6 | 9,131.0 | 7,431.0 | 6,547.0 | | 9,293.00 |
| 27 | 3/8/2023 | 87.8 | 9,113.0 | 3,698.0 | 6,450.0 | | 9,448.00 |
| 28 | 3/9/2023 | 87.3 | 9,091.0 | 6,684.0 | 6,107.0 | | 9,256.00 |
| 29 | 3/9/2023 | 84.6 | 8,880.0 | 5,974.0 | 5,341.0 | | 9,222.00 |
| 30 | 3/9/2023 | 87.4 | 9,251.0 | 6,891.0 | 5,357.0 | | 9,434.00 |
| 31 | 3/10/2023 | 87 | 9,329.0 | 6,977.0 | 6,233.0 | | 9,311.00 |
| 32 | 3/10/2023 | 84.9 | 9,204.0 | 6,401.0 | 5,810.0 | | 9,236.00 |
| 33 | 3/10/2023 | 87.5 | 9,148.0 | 6,238.0 | 5,475.0 | | 9,474.00 |
| 34 | 3/11/2023 | 84.9 | 9,376.0 | 6,052.0 | 6,986.0 | | 9,204.00 |
| 35 | 3/11/2023 | 87.3 | 9,835.0 | 6,207.0 | 6,375.0 | | 9,228.00 |
| 36 | 3/12/2023 | 87.4 | 9,289.0 | 4,939.0 | 6,090.0 | | 9,537.00 |
| 37 | 3/12/2023 | 86.8 | 9,129.0 | 5,822.0 | 5,377.0 | | 9,238.00 |
| 38 | 3/12/2023 | 84.7 | 8,843.0 | 6,545.0 | 5,150.0 | | 9,290.00 |
| 39 | 3/13/2023 | 83.6 | 8,932.0 | 6,219.0 | 5,875.0 | | 9,340.00 |
| 40 | 3/13/2023 | 84.9 | 9,032.0 | 6,297.0 | 4,586.0 | | 9,182.00 |
| 41 | 3/13/2023 | 87.6 | 8,772.0 | 6,249.0 | 4,710.0 | | 9,232.00 |
| 42 | 3/14/2023 | 86.4 | 8,445.0 | 5,313.0 | 4,812.0 | | 9,450.00 |
| 43 | 3/14/2023 | 85.7 | 8,621.0 | 5,089.0 | 4,507.0 | | 9,186.00 |
| 44 | 3/14/2023 | 87.8 | 8,740.0 | 5,139.0 | 4,560.0 | | 9,445.00 |
| 45 | 3/15/2023 | 88.2 | 8,303.0 | 4,549.0 | 4,882.0 | | 9,195.00 |
| 46 | 3/15/2023 | 82.8 | 8,934.0 | 5,847.0 | 6,610.0 | | 9,123.00 |
| 47 | 3/16/2023 | 88 | 8,959.0 | 6,275.0 | 5,010.0 | | 9,323.00 |
| 48 | 3/17/2023 | 84.1 | 8,741.0 | 6,346.0 | 5,077.0 | | 9,171.00 |
| 49 | 3/17/2023 | 84.6 | 8,950.0 | 5,404.0 | 5,794.0 | | 9,145.00 |
| 50 | 3/17/2023 | 84.1 | 8,830.0 | 6,346.0 | 4,440.0 | | 9,229.00 |
| 51 | 3/18/2023 | 87.6 | 8,610.0 | 6,050.0 | 4,976.0 | | 9,343.00 |
| 52 | 3/18/2023 | 89.2 | 8,949.0 | 5,145.0 | 4,322.0 | | 9,149.00 |
| 53 | 3/18/2023 | 87.4 | 8,625.0 | 5,719.0 | 5,725.0 | | 9,252.00 |
| 54 | 3/19/2023 | 83.5 | 8,086.0 | 5,634.0 | 4,578.0 | | 9,339.00 |
| 55 | 3/19/2023 | 88.3 | 8,361.0 | 5,582.0 | 5,748.0 | | 9,122.00 |
| 56 | 3/19/2023 | 86.1 | 8,639.0 | 6,340.0 | 5,813.0 | | 10,258.00 |
| 57 | 3/20/2023 | 87.4 | 8,851.0 | 6,889.0 | 5,962.0 | | 9,084.00 |
| 58 | 3/21/2023 | 83.9 | 8,060.0 | 5,790.0 | 4,925.0 | | 9,226.00 |
| 59 | 3/21/2023 | 85.8 | 7,972.0 | 6,199.0 | 5,596.0 | | 9,093.00 |
| 60 | 3/21/2023 | 88 | 7,911.0 | 4,359.0 | 4,650.0 | | 9,176.00 |
| 61 | 3/22/2023 | 84.7 | 7,869.0 | 5,558.0 | 5,696.0 | | 9,124.00 |
| 62 | 3/22/2023 | 89 | 7,832.0 | 6,338.0 | 5,437.0 | | 9,189.00 |
| 63 | 3/24/2023 | 88.7 | 8,348.0 | 5,962.0 | 5,914.0 | | 9,222.00 |
| 64 | 3/24/2023 | 85.1 | 7,909.0 | 5,987.0 | 4,419.0 | | 9,179.00 |
| 65 | 3/25/2023 | 85.8 | 7,743.0 | 5,537.0 | 4,621.0 | | 9,145.00 |
| 66 | 3/25/2023 | 84.8 | 7,730.0 | 6,138.0 | 5,125.0 | | 9,141.00 |

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WV R 35 FORM COMPLETIONS INFORMATION

Stimulation Intervals

| Interval Number | Start Date | Slurry Rate Avg (bbl/min) | P Treat Avg (psi) | P Breakdown (psi) | ISIP (psi) | Proppant Total OR (lb) | Vol Clean Total (bbl) |
|-----------------|------------|---------------------------|-------------------|-------------------|------------|------------------------|-----------------------|
| 68 | 3/26/2023 | 86.2 | 8,051.0 | 6,294.0 | 5,035.0 | | 9,023.00 |
| 69 | 3/26/2023 | 88.9 | 7,924.0 | 5,803.0 | 5,409.0 | | 9,045.00 |
| 70 | 3/26/2023 | 88.5 | 7,986.0 | 5,607.0 | 4,645.0 | | 9,107.00 |
| 71 | 3/27/2023 | 87.8 | 8,177.0 | 6,282.0 | 6,027.0 | | 9,069.00 |
| 72 | 3/27/2023 | 83.6 | 7,845.0 | 5,741.0 | 4,481.0 | | 9,108.00 |
| 73 | 3/27/2023 | 85.1 | 7,629.0 | 5,207.0 | 5,088.0 | | 9,059.00 |
| 74 | 3/28/2023 | 88.3 | 7,633.0 | 6,035.0 | 5,431.0 | | 9,060.00 |
| 75 | 3/29/2023 | 84.6 | 7,714.0 | 6,048.0 | 5,090.0 | | 8,972.00 |
| 76 | 3/29/2023 | 85.6 | 7,640.0 | 5,849.0 | 5,225.0 | | 9,190.00 |
| 77 | 3/29/2023 | 74.4 | 8,168.0 | 5,646.0 | 5,741.0 | | 9,803.00 |
| 78 | 3/30/2023 | 83.5 | 7,561.0 | 5,794.0 | 5,926.0 | | 9,096.00 |
| 79 | 3/30/2023 | 83.7 | 7,726.0 | 6,560.0 | 4,460.0 | | 8,923.00 |
| 80 | 3/30/2023 | 85.6 | 7,330.0 | 7,758.0 | 4,125.0 | | 9,124.00 |

RECEIVED
Office of Oil and Gas
AUG 04 2023
WV Department of
Environmental Protection

**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 101
Wexford, PA 15090

Designated Agent Eric Morris
Address 633 West Main Street
Bridgeport WV 26330

Geological Target Formation: Marcellus Depth 7739 feet
Perforation Interval 8437-24374 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 7/4/23 | | Time 6:00 AM | | End of Test Date 7/5/23 | | Time 6:00 AM | | Duration of Test 24 Hrs | |
| Tubing Pressure NA | | Casing Pressure 2000 | | Separator Pressure 300 | | Separator Temperature 61 | | | |
| 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.) Flowing | | | | | | | |

GAS PRODUCTION

| | | | | | | | | |
|--|--|-----------------------------------|---|---|--|--|--|--|
| Measurement Method Flange Tap <input checked="" 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 36/64" | | | | |
| Differential Pressure range | | Max. Static pressure range | | Prover and Orifice diameter - inches 5.761" run with 3.0" orifice | | | | |
| Differential 128" H2O | | | Static 300 PSI | | | | | |
| Gas Gravity (Air = 1.0) Measured Estimated | | Flowing Temperature 61 | | Gas Temperature 110 | | | | |
| 24 Hour Coefficient | | 24 Hour coefficient pressure PSIA | | | | | | |

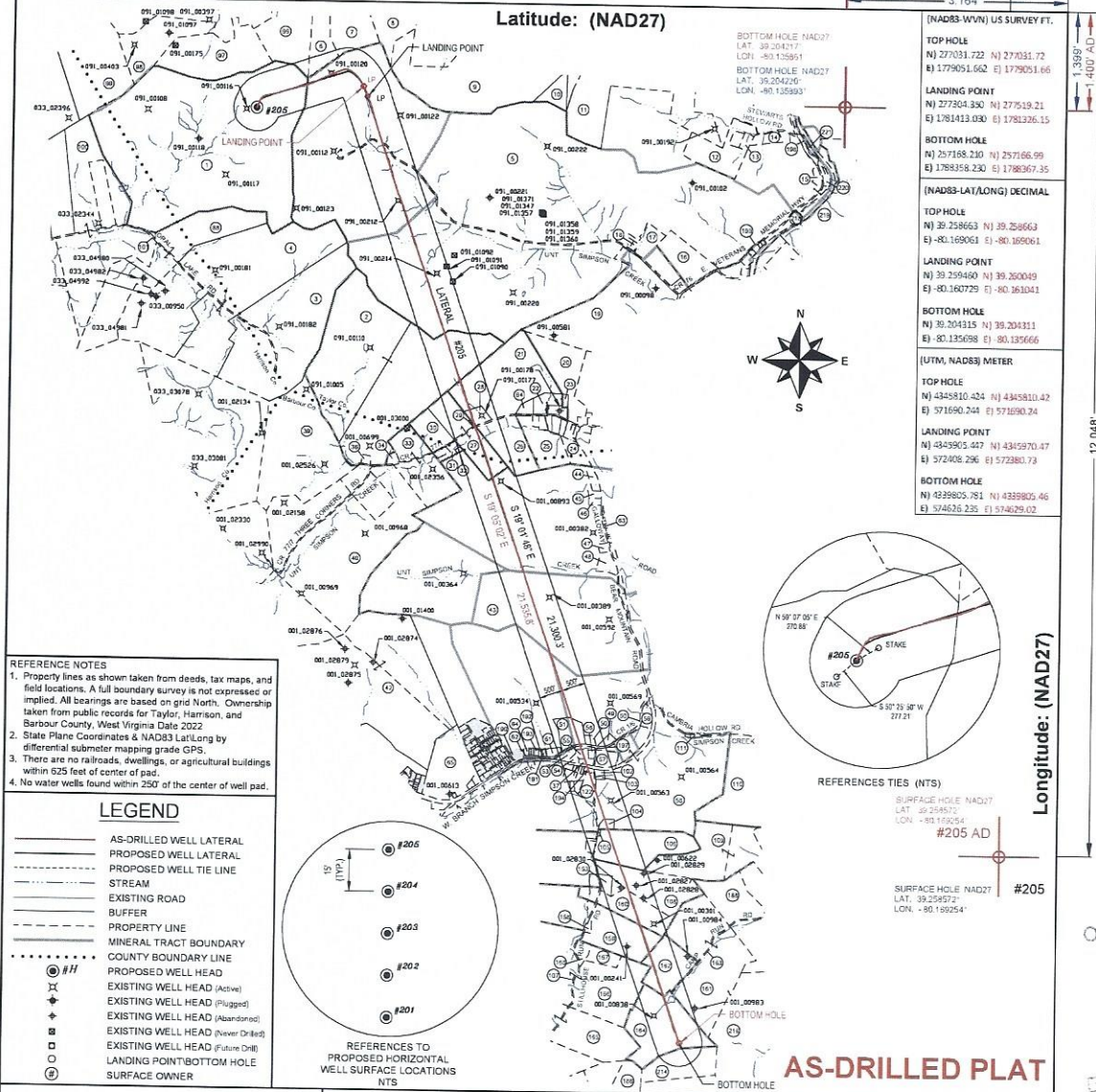
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Office of Oil and Gas
AUG 04 2023
WV Department of
Environmental Protection

TEST RESULTS

| | | | | | | | |
|-----------------------|--|--------------------------------|--|------------------------------|--|----------------------------|--|
| Daily Oil 0 | | Daily Water 607 BBLs | | Daily Gas 11170MCF | | Gas-Oil Ratio NA | |
|-----------------------|--|--------------------------------|--|------------------------------|--|----------------------------|--|

Arsenal Resources LLC
BY: [Signature] Well Operator
ITS: Director of Geology & Dev Planning

SURFACE HOLE SURVEYED 39° 17' 30" (NAD27)
 BOTTOM HOLE SURVEYED 39° 12' 30" (NAD27)



| [NAD83-WVN] US SURVEY FT. | |
|---------------------------|--|
| TOP HOLE | N) 277031.722 N) 277031.72 E) 1779051.662 E) 1779051.66 |
| BOTTOM HOLE | N) 277204.830 N) 277519.21 E) 1781413.030 E) 1781326.15 |
| LANDING POINT | N) 277204.830 N) 277519.21 E) 1781413.030 E) 1781326.15 |
| BOTTOM HOLE | N) 257168.230 N) 257166.99 E) 1788358.230 E) 1788367.35 |
| [NAD83-LAT/LONG] DECIMAL | |
| TOP HOLE | N) 39.258663 N) 39.258663 E) -80.169061 E) -80.169061 |
| LANDING POINT | N) 39.259440 N) 39.260049 E) -80.160729 E) -80.161041 |
| BOTTOM HOLE | N) 39.204115 N) 39.204311 E) -80.135698 E) -80.135666 |
| [UTM, NAD83] METER | |
| TOP HOLE | N) 4345810.424 N) 4345810.42 E) 571690.244 E) 571690.24 |
| LANDING POINT | N) 4345905.447 N) 4345970.47 E) 572408.296 E) 572380.73 |
| BOTTOM HOLE | N) 4329905.751 N) 4329905.46 E) 574620.235 E) 574629.02 |

- REFERENCE NOTES**
- Property lines as shown taken from deeds, tax maps, and field locations. A full boundary survey is not expressed or implied. All bearings are based on grid North. Ownership taken from public records for Taylor, Harrison, and Barbour County, West Virginia Date 2022
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 - No water wells found within 250' of the center of well pad.

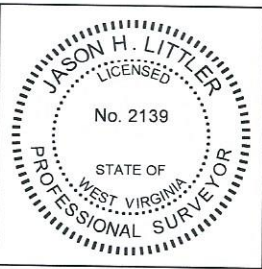
LEGEND

| | |
|-----------|------------------------------------|
| — | AS-DRILLED WELL LATERAL |
| - - - - - | PROPOSED WELL LATERAL |
| - - - - - | PROPOSED WELL TIE LINE |
| — | STREAM |
| — | EXISTING ROAD |
| — | BUFFER |
| — | PROPERTY LINE |
| — | MINERAL TRACT BOUNDARY |
| — | COUNTY BOUNDARY LINE |
| ⊙ #H | PROPOSED WELL HEAD |
| ⊙ | EXISTING WELL HEAD (Active) |
| ⊙ | EXISTING WELL HEAD (Plugged) |
| ⊙ | EXISTING WELL HEAD (Abandoned) |
| ⊙ | EXISTING WELL HEAD (Power Drilled) |
| ⊙ | EXISTING WELL HEAD (Future Drill) |
| ⊙ | LANDING POINT/BOTTOM HOLE |
| ⊙ | SURFACE OWNER |

FILE#: 22078-001
 SHEET#: 1 of 2
 SCALE: 1" = 3000'
 TICK SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1/200
 PROVEN SOURCE OF ELEVATION: WW-RTN CORS STATION

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT 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 DEPARTMENT OF ENVIRONMENTAL PROTECTION.

Signed: *Jason H. Littler* 3/14/23
 P.S. #2139: Jason H. Littler P.S.



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 WVDEP
 OFFICE OF OIL & GAS
 601 57TH STREET
 CHARLESTON, WV 25304



DATE: MARCH 14, 2023
 OPERATOR'S WELL #: JOHNSON TFP-40 # 205
 API WELL #: 47 091 1370
 STATE COUNTY PERMIT

Well Type: Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow

WATERSHED: SIMPSON CREEK
 COUNTY / DISTRICT: TAYLOR CO. FLEMINGTON DISTRICT
 SURFACE OWNER: RENEE JOHNSON
 OIL & GAS ROYALTY OWNER: SEE WW-6A1

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
 CLEAN OUT & REPLUG OTHER CHANGE SPECIFY: _____

TARGET FORMATION: MARCELLUS

WELL OPERATOR: ARSENAL RESOURCES
 ADDRESS: 6031 WALLACE ROAD EXTENSION # 300
 CITY: WEXFORD STATE: PA ZIP: 15090

ELEVATION: 1,332.5'
 QUADRANGLE: ROSEMONT, WV
 ACREAGE: 284 ±
 ACREAGE: 284 ±

ESTIMATED DEPTH: TVD: 7,878' TMD: 29,988'

DESIGNATED AGENT: NATHAN SKEEN
 ADDRESS: 633 MAIN STREET
 CITY: BRIDGEPORT STATE: WV ZIP: 26330

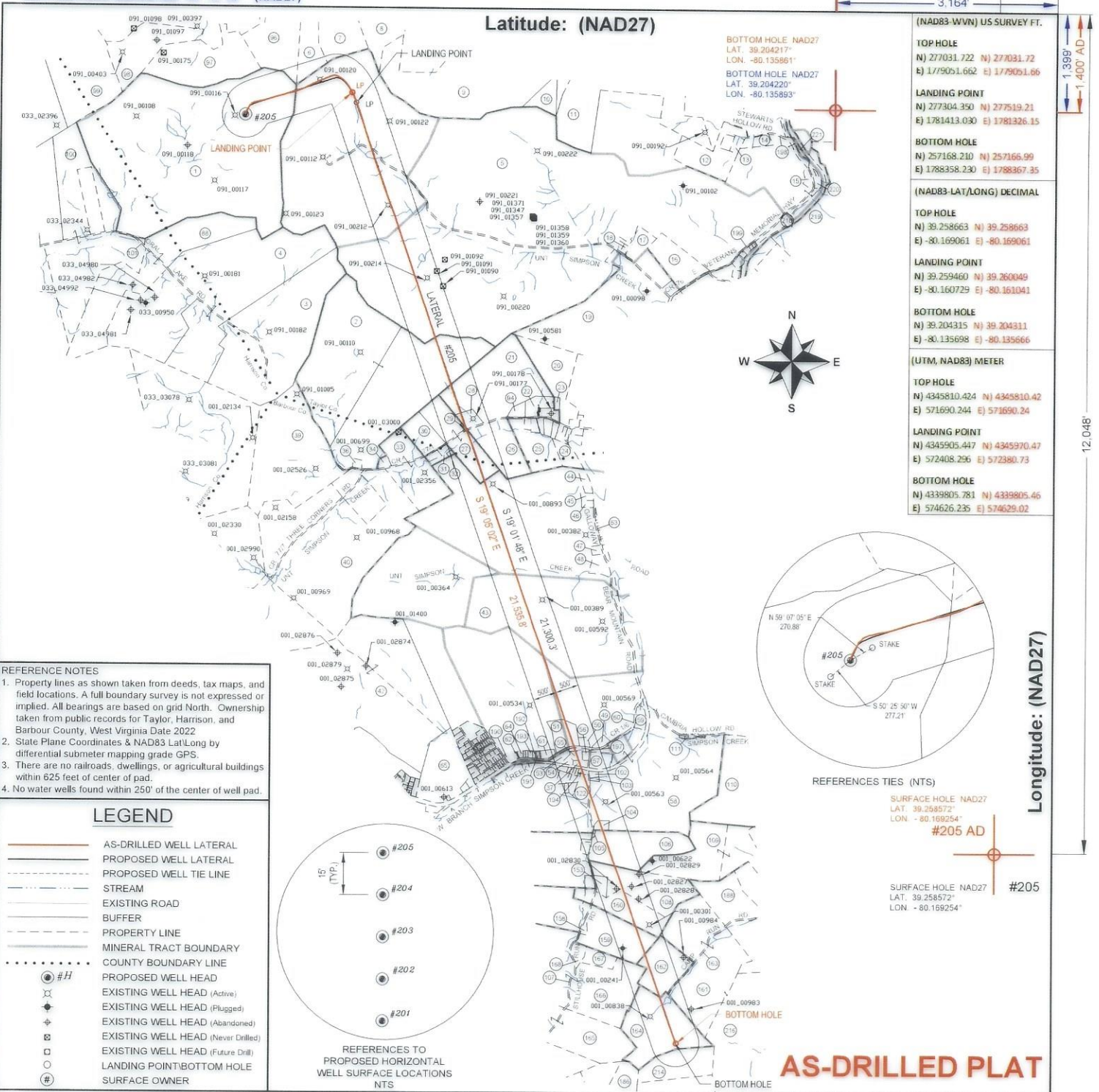
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 Office of Oil and Gas
 AUG 04 2023
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SURFACE HOLE SURVEYED 39° 17' 30" (NAD27)
 BOTTOM HOLE SURVEYED 39° 12' 30" (NAD27)

822'
 3,155' AD
 3,164'

Latitude: (NAD27)



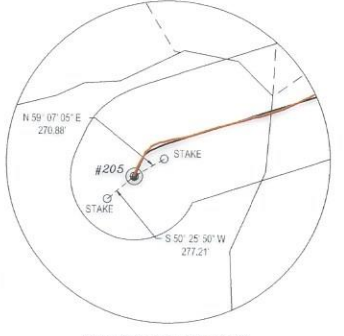
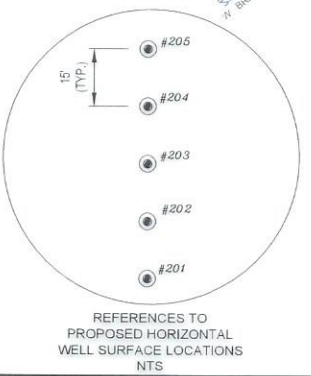
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- PROPOSED WELL LATERAL
- PROPOSED WELL TIE LINE
- STREAM
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- BUFFER
- PROPERTY LINE
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- EXISTING WELL HEAD (Abandoned)
- EXISTING WELL HEAD (Never Drilled)
- EXISTING WELL HEAD (Future Drill)
- LANDING POINT/BOTTOM HOLE
- SURFACE OWNER



REFERENCES TIES (NTS)

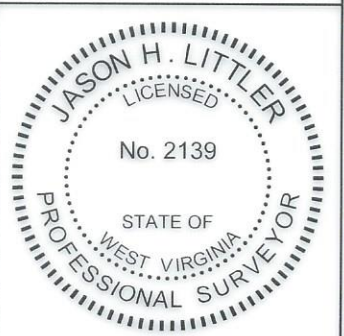
| | | | |
|--------------------|-----------------|------------------|---------|
| SURFACE HOLE NAD27 | LAT. 39.258572° | LON. -80.169254° | #205 AD |
| SURFACE HOLE NAD27 | LAT. 39.258572° | LON. -80.169254° | #205 |

Longitude: (NAD27)

FILE#: 22078-001
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 CITY: WEXFORD STATE: PA ZIP: 15090

DESIGNATED AGENT: NATHAN SKEEN
 ADDRESS: 633 MAIN STREET
 CITY: BRIDGEPORT STATE: WV ZIP: 26330

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 SURFACE HOLE SURVEYED 80° 10' 00" (NAD27)

Table with 4 columns: ID#, DEP#, PARCEL NUMBER, OWNER NAME. It is split into 'SURFACE PARCEL OWNER INFORMATION' and 'ADJOINER PARCEL OWNER INFORMATION' sections, listing various landowners and their parcel details.

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SURFACE OWNER

AS-DRILLED PLAT

FILE#: 22078-001
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