

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

API 47-091-01377 County Taylor District Courthouse
Quad Grafton Pad Name Armstrong II Field/Pool Name _____
Farm name Robert and Julie Armstong Well Number 211
Operator (as registered with the OOG) Arsenal Resources
Address 6031 Wallace Rd Ext, Ste 200 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 4,349,460.64 Easting 579,048.94
Landing Point of Curve Northing 4,349,587.6 Easting 578,033.9
Bottom Hole Northing 4,353,020.3 Easting 576,786.4

Elevation (ft) 1294.45 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 02/26/2024 Date drilling commenced 03/06/2024 Date drilling ceased 09/16/2024
Date completion activities began 09/25/2024 Date completion activities ceased 02/25/2025
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 30', 100', 150', 250' Open mine(s) (Y/N) depths N
Salt water depth(s) ft none reported Void(s) encountered (Y/N) depths N
Coal depth(s) ft 400', 1030' (from 4709101116) Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by:

PROVED

MDK
6/25/2025
09/26/2025

API 47- 091 - 01377

Farm name Robert and Julie Armstong

Well number 211

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"	100' GL	New	94	NA	Y
Surface	17 1/2"	13 3/8"	966' GL	New	54.5	NA	Y
Coal	NA	NA	NA	NA	NA	NA	N
Intermediate 1	12 1/4"	9 5/8"	2,562' 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"	20,925 GL	New	20.0	NA	Y
Tubing	NA	NA	NA	NA	NA	NA	NA
Packer type and depth set		NA					

Comment Details Cement to surface on Conductor, Surface, Intermediate and lap onto intermediate on production.

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	168	15.60	1.21	203	Surface	8+
Surface	A	888	15.60	1.19	1,056.7	Surface	8+
Coal	NA	NA	NA	NA	NA	NA	NA
Intermediate 1	A	842	15.60	1.18	993.56	Surface	8+
Intermediate 2	NA	NA	NA	NA	NA	NA	NA
Intermediate 3	NA	NA	NA	NA	NA	NA	NA
Production	A	945/2595	14.0/14.5	1.41/1.24	1,332.5/3,217.8	754'	8+
Tubing	NA	NA	NA	NA	NA	NA	NA

Drillers TD (ft) 20,980'(GL)

Loggers TD (ft) NA

Deepest formation penetrated Marcellus

Plug back to (ft) NA

Plug back procedure NA

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Kick off depth (ft) 7,500'(GL)

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Check all wireline logs run

☐ caliper

☐ density

☐ deviated/directional

☐ induction

☐ neutron

☐ resistivity

☐ gamma ray

☐ temperature

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☐ 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, 5.5"- 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 2,400'; there were no centralizers from 2,400' 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 _____

09/26/2025

PERFORATION RECORD

Please insert additional pages as applicable.

Please insert additional pages as applicable.

09/26/2025

Well number 211

DEPTHS

MD

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OIL TEST ☐ Flow ☐ Pump

OPEN FLOW	Gas		Oil		NGL		Water		GAS MEASURED BY		
	15238	mcfpd	0	bpd	0	bpd	846	bpd	☐ 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*	0	250	0	250	Freshwater @ 30', 100', 150', 250'
Sand/Silt/Coal*	250	1580	250	1580	Coal @ 400' & 1030' *based on 091-01116
Big Lime*	1580	1760	1580	1760	Limestone
Sand/Silt/Shale*	1760	2540	1760	2540	Sandstone, Siltstone, Shale
4th Sand*	2540	2596	2540	2596	Sandstone
Sand/Silt/Shale*	2596	4516	2596	4516	Sandstone, Siltstone, Shale
Benson*	4516	4598	4598	4598	Siltstone
Sand/Silt/Shale*	4598	7428	4598	7978	Sandstone, Siltstone, Shale
Burkett	7428	7499	7978	8011	Shale
Tully	7499	7508	8011	8115	Limestone
Mahantango	7508	7677	8115	8551	Shale
Marcellus	7677	7749	8551	8936	Shale
Lower Marcellus	7749	7771**	8936	20983	Shale
Onondaga	7771**				**Onondaga not penetrated - est based on 091-01116

Address 1437 South Boulder Ave City Tulsa State OK Zip 74119

Address _____ City _____ State _____ Zip _____

Address 4999 E Pointe Dr City Zanesville State OH Zip 43701

Address	333 Shops Boulevard	City	Willow Park	State	TX	Zip	76087
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Telephone 724-940-1100

Signature Amel Leik Title Geologist & Permitting Specialist Date 6/11/25

Attach copy of FRACFOCUS Registry

09/26/2025

WR-36
Rev. 5/08

Date: 6/11/25
Operators Well Number: Armstrong II 211
API Well No: 47-091 - 01377

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

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Well Operator's Report of
Initial Gas-Oil Ratio

WV Department of
Environmental Protection

Well Operator Arsenal Resources LLC
Address 6031 Wallace Road Ext. Suite 200
Wexford, PA 15090

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

Geological Target Formation: Marcellus Depth 7867 feet
Perforation Interval 8410-20,907 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 2/23/25	Time 5:00 AM	End of Test Date 2/24/25	Time 6:00 AM	Duration of Test 24 Hrs
Tubing Pressure NA	Casing Pressure 1394	Separator Pressure 371	Separator Temperature 73	
Oil Production During Test BBLs	Gas Production During Test MCF	Water Production During Test BBLs		
Oil Gravity API	Producing Method (flowing, pumping, gas lift etc.) Flowing			
-Salinity				

GAS PRODUCTION

Measurement Method Flange Tap ☒ Pipe Tap ☐ L-10 ☐		Positive Choke ☐
		Positive flow prover ☒
Orifice diameter	Pipe Diameter (inside)	Nominal Choke Size inches 48/64"
Differential Pressure range	Max. Static pressure range	Prover and Orifice diameter - inches 4.026" run with 3.0" orifice
Differential 118psi		Static
Gas Gravity (Air = 1.0) Measured	Flowing Temperature 73	Gas Temperature 99
Estimated		
24 Hour Coefficient	24 Hour coefficient pressure PSIA	

TEST RESULTS

Daily Oil 0	Daily Water 846 BBLs	Daily Gas 15238 MCF	Gas-Oil Ratio NA
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Arsenal Resources LLC

BY Emily Steek Well Operator
ITS: Geologist & Permitting Specialist

09/26/2025

Well Header

Well Name: Armstrong II 211

API/UWI: 47-091-01377

Lease:

Pad Name: Armstrong II

Operator: Arsenal Resources

Well Type:

Well Subtype:

Orig KB Elev (ft): 1,324.00

Water Depth (ft):

Lic Date:

Spud Date: 4/17/2024

RR Date:

County: Taylor

District:

Division:

Division Code:

Datum:

Latitude (°): 39° 17' 27.283" N

Longitude (°): 80° 6' 33.037" W

UTM E (m):

UTM N (m):

Jobs

Job Cat: Completion/Workover

Job Type: Initial Completion

Start Date: 9/25/2024

End Date: 2/25/2025

Perforations

Date	Top (ftKB)	Btm (ftKB)	Entered Shot Total	Zone
1/11/2025		8,410.00	8,570.00	40 Marcellus
1/10/2025		8,610.00	8,772.00	40 Marcellus
1/10/2025		8,810.00	8,967.00	40 Marcellus
1/9/2025		9,010.00	9,172.00	40 Marcellus
1/9/2025		9,210.00	9,372.00	40 Marcellus
1/9/2025		9,410.00	9,572.00	40 Marcellus
1/8/2025		9,610.00	9,770.00	40 Marcellus
1/8/2025		9,810.00	9,972.00	40 Marcellus
1/5/2025		10,010.00	10,169.00	40 Marcellus
1/5/2025		10,210.00	10,372.00	40 Marcellus
1/4/2025		10,410.00	10,572.00	40 Marcellus
1/4/2025		10,610.00	10,772.00	40 Marcellus
1/3/2025		10,810.00	10,974.00	40 Marcellus
1/3/2025		11,010.00	11,172.00	40 Marcellus
1/3/2025		11,210.00	11,376.00	40 Marcellus
1/3/2025		11,407.00	11,572.00	40 Marcellus
1/2/2025		11,610.00	11,768.00	40 Marcellus
1/2/2025		11,810.00	11,972.00	40 Marcellus
1/2/2025		12,010.00	12,172.00	40 Marcellus
1/1/2025		12,214.00	12,372.00	40 Marcellus
1/1/2025		12,410.00	12,572.00	40 Marcellus
1/1/2025		12,608.00	12,772.00	40 Marcellus
1/1/2025		12,810.00	12,972.00	40 Marcellus
12/31/2024		13,014.00	13,172.00	40 Marcellus
12/31/2024		13,210.00	13,372.00	40 Marcellus
12/31/2024		13,410.00	13,572.00	40 Marcellus
12/30/2024		13,610.00	13,772.00	40 Marcellus
12/30/2024		13,814.00	13,971.00	40 Marcellus
12/30/2024		14,010.00	14,172.00	40 Marcellus
12/29/2024		14,213.00	14,372.00	40 Marcellus
12/29/2024		14,410.00	14,572.00	40 Marcellus
12/29/2024		14,613.00	14,772.00	40 Marcellus
12/28/2024		14,810.00	14,972.00	40 Marcellus
12/28/2024		15,014.00	15,172.00	40 Marcellus
12/27/2024		15,210.00	15,372.00	40 Marcellus
12/27/2024		15,414.00	15,572.00	40 Marcellus
12/27/2024		15,610.00	15,772.00	40 Marcellus

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12/27/2024	15,810.00	15,972.00	40 Marcellus
12/27/2024	16,010.00	16,172.00	40 Marcellus
12/26/2024	16,210.00	16,372.00	40 Marcellus
12/24/2024	16,410.00	16,572.00	40 Marcellus
12/24/2024	16,610.00	16,772.00	40 Marcellus
12/24/2024	16,810.00	16,972.00	40 Marcellus
12/23/2024	17,010.00	17,172.00	40 Marcellus
12/23/2024	17,210.00	17,372.00	40 Marcellus
12/23/2024	17,410.00	17,572.00	40 Marcellus
12/22/2024	17,610.00	17,772.00	40 Marcellus
12/22/2024	17,810.00	17,972.00	40 Marcellus
12/21/2024	18,010.00	18,172.00	40 Marcellus
12/21/2024	18,210.00	18,372.00	40 Marcellus
12/21/2024	18,410.00	18,572.00	40 Marcellus
12/20/2024	18,610.00	18,772.00	40 Marcellus
12/20/2024	18,810.00	18,972.00	40 Marcellus
12/20/2024	19,010.00	19,172.00	40 Marcellus
12/20/2024	19,210.00	19,372.00	40 Marcellus
12/19/2024	19,410.00	19,572.00	40 Marcellus
12/19/2024	19,610.00	19,772.00	40 Marcellus
12/18/2024	19,810.00	19,972.00	40 Marcellus
12/17/2024	20,010.00	20,172.00	40 Marcellus
12/17/2024	20,210.00	20,372.00	40 Marcellus
12/16/2024	20,410.00	20,572.00	40 Marcellus
12/16/2024	20,610.00	20,772.00	40 Marcellus
10/1/2024	20,810.00	20,906.00	32 Marcellus

Stimulations Summary

Start Date: 12/16/2024

Stimulation Intervals

Interval Number

Treat Rate Avg (bbl/min):	Treat Pressure Avg (psi):	Mass Prop Tot (lb): 42,889,762.0	Vol Clean Total (bbl): 851,340.0	Frac Grad Avg (psi/ft): 1.16			
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	12/16/2024	90.60	9,897.00	11,346.00	5,045.00	350,780.00	9,908.00
2	12/16/2024	80.10	9,011.00	6,330.00	5,649.00	700,380.00	13,046.00
3	12/17/2024	80.10	8,638.00	6,400.00	5,465.00	703,060.00	13,739.00
4	12/17/2024	89.90	9,546.00	6,492.00	5,544.00	701,800.00	13,039.00
5	12/17/2024	89.50	9,666.00	6,238.00	5,295.00	700,420.00	13,267.00
6	12/19/2024	88.90	9,793.00	6,310.00	6,470.00	678,740.00	16,065.00
7	12/19/2024	85.60	9,787.00	6,641.00	5,426.00	544,000.00	10,896.00
8	12/19/2024	90.20	9,652.00	7,033.00	5,107.00	700,240.00	14,533.00
9	12/20/2024	87.40	9,494.00	4,959.00	5,167.00	700,440.00	12,849.00
10	12/20/2024	88.20	9,758.00	7,504.00	5,198.00	700,220.00	12,740.00
11	12/20/2024	90.40	9,448.00	6,880.00	5,324.00	700,340.00	12,813.00
12	12/21/2024	89.40	9,831.00	7,722.00	5,863.00	700,260.00	12,858.00
13	12/21/2024	88.00	9,522.00	7,208.00	5,711.00	700,640.00	12,868.00
14	12/21/2024	90.80	9,532.00	6,040.00	5,431.00	700,340.00	12,249.00
15	12/22/2024	88.80	9,356.00	5,497.00	5,502.00	700,320.00	13,643.00
16	12/22/2024	89.50	9,470.00	7,444.00	5,600.00	666,000.00	12,501.00

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17	12/22/2024	89.40	9,581.00	6,920.00	6,568.00	580,320.00	11,427.00
18	12/23/2024	88.10	9,443.00	7,087.00	5,194.00	698,500.00	12,672.00
19	12/23/2024	86.80	9,534.00	7,166.00	5,215.00	471,680.00	10,482.00
20	12/23/2024	90.20	9,594.00	7,278.00	5,112.00	699,380.00	12,625.00
21	12/24/2024	86.30	9,902.00	6,247.00	6,230.00	613,620.00	13,329.00
22	12/26/2024	86.10	9,468.00	6,462.00	6,355.00	687,600.00	14,395.00
23	12/26/2024	90.10	9,109.00	7,195.00	5,330.00	700,800.00	14,075.00
24	12/26/2024	89.30	9,145.00	7,263.00	5,261.00	700,100.00	15,024.00
25	12/27/2024	89.40	9,204.00	6,668.00	5,467.00	701,200.00	13,838.00
26	12/27/2024	88.80	9,252.00	6,558.00	5,141.00	700,400.00	14,332.00
27	12/27/2024	89.00	9,015.00	6,702.00	6,633.00	704,500.00	13,999.00
28	12/28/2024	90.00	9,088.00	7,187.00	6,334.00	700,700.00	13,991.00
29	12/28/2024	89.00	8,891.00	6,565.00	5,667.00	700,980.00	14,583.00
30	12/28/2024	89.60	8,587.00	7,263.00	5,302.00	698,100.00	13,952.00
31	12/28/2024	90.20	8,284.00	6,349.00	5,540.00	697,180.00	14,084.00
32	12/29/2024	93.00	8,831.00	9,738.00	5,734.00	697,300.00	13,828.00
33	12/29/2024	94.70	9,424.00	7,045.00	5,110.00	700,020.00	13,986.00
34	12/30/2024	94.90	9,096.00	6,929.00	5,948.00	701,400.00	13,807.00
35	12/30/2024	94.70	9,082.00	6,830.00	5,394.00	702,200.00	13,964.00
36	12/30/2024	94.80	9,218.00	6,983.00	6,543.00	699,800.00	14,369.00
37	12/31/2024	94.80	9,344.00	6,859.00	6,457.00	700,320.00	13,790.00
38	12/31/2024	95.10	9,174.00	7,353.00	5,734.00	700,320.00	13,730.00
39	12/31/2024	94.60	9,234.00	6,749.00	5,002.00	700,320.00	14,112.00
40	1/1/2025	94.80	8,838.00	6,437.00	5,002.00	560,800.00	12,367.00
41	1/1/2025	95.20	8,924.00	6,840.00	6,292.00	700,000.00	13,740.00
42	1/1/2025	94.10	9,173.00	7,171.00	6,554.00	701,180.00	14,076.00
43	1/1/2025	94.70	8,747.00	6,601.00	5,180.00	700,800.00	14,118.00
44	1/2/2025	94.80	8,854.00	6,958.00	5,400.00	700,450.00	13,938.00
45	1/2/2025	94.80	9,029.00	7,026.00	5,850.00	700,500.00	13,621.00
46	1/2/2025	95.00	8,952.00	7,190.00	5,320.00	700,020.00	13,947.00
47	1/2/2025	95.00	8,934.00	6,882.00	5,520.00	699,900.00	13,649.00
48	1/3/2025	95.00	9,049.00	7,228.00	5,939.00	700,650.00	13,798.00
49	1/3/2025	95.00	9,259.00	6,826.00	6,284.00	700,100.00	13,787.00
50	1/3/2025	95.00	9,101.00	7,002.00	6,003.00	701,400.00	13,956.00
51	1/4/2025	94.10	9,329.00	7,102.00	5,132.00	700,220.00	13,570.00
52	1/4/2025	94.60	9,310.00	6,974.00	525.00	700,500.00	13,987.00
53	1/5/2025	90.10	8,961.00	7,412.00	5,649.00	699,360.00	13,930.00
54	1/5/2025	90.10	8,719.00	7,579.00	5,469.00	700,070.00	13,614.00
55	1/7/2025	89.80	8,256.00	7,270.00	5,480.00	699,130.00	13,581.00
56	1/8/2025	90.50	8,706.00	7,348.00	5,819.00	700,180.00	14,008.00
57	1/8/2025	89.30	8,795.00	7,502.00	5,535.00	699,530.00	13,593.00
58	1/9/2025	90.00	8,689.00	7,372.00	5,392.00	699,940.00	13,930.00
59	1/9/2025	89.70	9,022.00	6,386.00	5,661.00	703,100.00	13,690.00
60	1/10/2025	90.00	8,611.00	7,413.00	5,771.00	700,220.00	13,804.00
61	1/10/2025	89.40	8,148.00	6,984.00	5,725.00	700,600.00	13,371.00
62	1/10/2025	89.50	8,333.00	7,975.00	5,412.00	702,040.00	13,479.00
63	1/11/2025	90.50	8,186.00	8,186.00	5,587.00	714,640.00	14,378.00

09/26/2025

Fracture Start Date/Time:	12/16/24 0:00
Fracture End Date/Time:	1/11/25 0:00
State:	WestVirginia
County:	Taylor County
API Number:	47-091-01377-00-00
Operator Number:	A1711739
Well Name:	Armstrong II 211
Federal Well:	No
Tribal Well:	No
Longitude:	-80.08335
Latitude:	39.290913
Long/Lat Projection:	NAD27
True Vertical Depth (TVD):	7,806'
Total Clean Fluid Volume* (gal):	37,414,062
Water Source:	Other,
Water Source TDS:	> 1000TDS
Water Source Percent:	100



Must use Dropdown (DO NOT HAND TYPE)
If Produced water is selected, leave TDS value Blank
< = less than
> = greater than

Additive	Specific Gravity	Additive Quantity	Mass (lbs)	
Water	1.00	37,414,062	312,220,347	gal
-	-	-	-	-
Hydrochloric Acid (15%)	1.08	4,000	36,050	gal
Hydrochloric Acid (7.5%)	1.04	124,000	1,073,584	gal
Acid Pack Pro LT	1.10	586	5,379	gal
-	-	-	-	-
Sand (100 Mesh Proppant)	2.65	21,902,640	21,902,640	lb
Sand (40/70 White Proppant)	2.65	21,087,410	21,087,410	lb
-	-	-	-	-
StimSTREAM FR 9750	1.10	32,475	298,104	gal
BioSuiteGQ123X	1.02	8,954	76,216	gal
ProChek 170	1.00	3,835	32,003	gal
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
Total Slurry Mass (Lbs)				356,731,734

Ingredients Section:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Mass per Component (LBS)	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	Operator	Carrier/Base Fluid	Water	7732-18-5	100.00%	312,220,347	87.58573%	Water
Hydrochloric Acid (15%)	Cooper Natur	Acidizing	Hydrochloric Acid	7647-01-0	15.00%	5,408	0.00152%	Hydrochloric Acid (15%)
			Water	7732-18-5	85.00%	30,643	0.00859%	Hydrochloric Acid (15%)
Hydrochloric Acid (7.5%)	Cooper Natur	Acidizing	Hydrochloric Acid	7647-01-0	7.50%	80,519	0.02257%	Hydrochloric Acid (7.5%)
			Water	7732-18-5	92.50%	993,065	0.27838%	Hydrochloric Acid (7.5%)
Acid Pack Pro LT	ProFrac	Acid Inhibitor	Isotridecanol, ethoxylated	69011-36-5	1.75%	94	0.00003%	Acid Pack Pro LT
			Alcohols, C12 - 14 secondary, ethoxylated	84133-50-6	8.00%	430	0.00012%	Acid Pack Pro LT
			Methyl 9-decenoate	25601-41-6	1.00%	54	0.00002%	Acid Pack Pro LT
			Methyl 9-dodecenoate	39202-17-0	1.00%	54	0.00002%	Acid Pack Pro LT
			Sodium xylene sulfonate	1300-72-7	0.25%	13	0.00000%	Acid Pack Pro LT
			Citic Acid	77-92-9	10.00%	538	0.00015%	Acid Pack Pro LT
			Pyridinium, 1-(phenylmethyl)-, Et Me derivs, chloride	68909-18-2	25.00%	1,345	0.00038%	Acid Pack Pro LT
			Ethylene glycol	107-21-1	42.00%	2,259	0.00063%	Acid Pack Pro LT
			Water	7732-18-5	5.00%	269	0.00008%	Acid Pack Pro LT
			2-Propenal, 3-phenyl	104-55-2	4.00%	215	0.00006%	Acid Pack Pro LT
			Methanol	67-56-1	2.00%	108	0.00003%	Acid Pack Pro LT
Sand (100 Mesh Proppant)	ProFrac	Proppant	Crystalline Silica (quartz)	14808-60-7	100.00%	21,902,640	6.13981%	Sand (100 Mesh Proppant)
Sand (40/70 White Proppant)	ProFrac	Proppant	Crystalline Silica (quartz)	14808-60-7	100.00%	21,087,410	5.91128%	Sand (40/70 White Proppant)
StimSTREAM FR 9750	Chemstream	Friction Reducer	Petroleum distillates, hydrotreated light	64742-47-8	25.00%	74,526	0.02089%	StimSTREAM FR 9750
			Alcohols, C11-14, ethoxylated	78330-21-9	5.00%	14,905	0.00418%	StimSTREAM FR 9750
BioSuiteGQ123X	ProFrac	Biocide	glutaral	111-30-8	15.00%	11,432	0.00320%	BioSuiteGQ123X
			Quaternary ammonium compounds,benzyl-C12-16-alk	68424-85-1	5.00%	3,811	0.00107%	BioSuiteGQ123X
ProChek 170	ProFrac	Scale Inhibitor	Methyl alcohol	67-56-1	5.00%	1,600	0.00045%	ProChek 170

*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%
All component information

RECEIVED
Office of Oil and Gas
JUN 13 2025
WV Department of
Environmental Protection

WV Department of
Environmental Protection

[illegible]

09/26/2025

ARMSTRONG II LEASE
WELL NO. 211
ARSENAL RESOURCEST.H. LATITUDE 39°17'30"
B.H. LATITUDE 39°20'00"T.H.
A.D.T.H. LONGITUDE 80°05'00"
B.H. LONGITUDE 80°05'00"

275' T.H.A.D.

3,719' B.H.A.D.

TAG	SURFACE OWNER	PARCEL	ACRES
A	ROBERT L. & JULIE A. ARMSTRONG	5-12-1	65.375
B	ROBERT L. & JULIE A. ARMSTRONG	5-12-90	5
C	LONG RUN FELLOWSHIP CHURCH	5-12-89	0.36
D	TRS OF LONG RUN FREE WILL BAPTIST CHURCH	5-13-16.2	6372.98 SQ FT
E	TINA L. FREEZE	5-13-15	14.98
F	JASON MATTHEW SINGLETON	5-13-13.7	4.99
G	JOSHUA AARON & BRITTANY ELAINE WININGER	5-13-13.8	63.60
H	MICHAEL EUGENE & BETH ANN WININGER	5-8-12	14.92
I	MICHAEL EUGENE & BETH ANN WININGER	5-8-13	16.74
J	ARK LAND LLC	5-8-21	66.95
K	ARK LAND LLC	5-8-15	106.82
L	RODNEY E. & LINDA S. MCQUAIN	5-8-30	62.54
M	RALPH & CRYSTAL L. MORRIS	3-20-4	79.65
N	STATE OF WEST VIRGINIA INDUSTRIAL SCHOOL FOR BOYS	5-5-15	913.69
O	BYRON D. & ELAINE D. GILBERT	3-16-61.1	6.55
P	NANCY B. BAKER (LF), ET AL	3-16-61.2	16.29
Q	DUSTIN L. DALTON & CALLIE MARISA MARIE GILBERT	3-16-61.3	5
R	ERNEST C. HAWKINBERRY (LIFE), ET AL	3-16-62	55.60

B.H.
A.D.

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

NAD'83 S.P.C.(FT) N. 288,607.82 E. 1,803,397.13
NAD'83 GEO. LAT-(N) 39.290912 LONG-(W) 80.083350
NAD'83 UTM (M) N. 4,349,460.64 E. 579,048.94

LANDING POINT

NAD'83 S.P.C.(FT) N. 289,079.8 E. 1,800,073.5
NAD'83 GEO. LAT-(N) 39.292148 LONG-(W) 80.095104
NAD'83 UTM (M) N. 4,349,587.6 E. 578,033.9

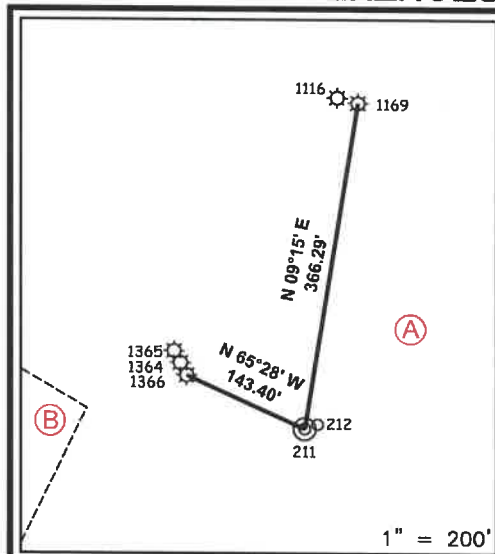
BOTTOM HOLE

NAD'83 S.P.C.(FT) N. 300,411.8 E. 1,796,167.2
NAD'83 GEO. LAT-(N) 39.323188 LONG-(W) 80.109177
NAD'83 UTM (M) N. 4,353,020.3 E. 576,786.4

PARCEL	ADJOINING SURFACE OWNER	ACRES
3-16-61	NANCY B BAKER	26.91
3-20-3.2	REBECCA J. BARTLETT	8.40
3-20-4.1	CHADWICK L & TOSHA N MORRIS	11.97
5-5-15.5	STATE OF WEST VIRGINIA (WV DEPT OF AGRICULTURE)	6.62
5-8-10.3	C & P RICOTTILLI ET AL	214.97
5-8-21.1	DIANNA I. LEONELLI	1.05
5-8-22.1	H. THOMAS ADKINS, JR.	1.29
5-8-23	TRINA RAGER	1.1
5-12-3	ROBERT L. JR. & PATRICIA LYNN CARPENTER	117.94
5-12-33.1	HARRY V. & PATRICIA J. JOHNSON	89.30
5-12-34.1	BOW SMITH	4.825
5-12-35.2	MARIE ELEANORE & KEITH QUEEN (LIFE), ET AL	2.00
5-13-13	MICHAEL EUGENE & BETH ANN WININGER	1.57
5-13-13.1	JERRY LEE JR. & MARSHA A. WELCH	5.03
5-13-13.2	LEROY G & ROBIN D STANLEY	5
5-13-13.5	TRINA RAGER	5.72
5-13-13.6	PETER J & TONYA J SHIPP	5.77
5-13-15.1	GARY LEE BOLYARD ET AL	43.41
5-13-65	LONG RUN FELLOWSHIP CHURCH	1.341
5-13-71.1	ALLISON SIMMONS	5.00
5-13-16.1	ALLISON SIMMONS	1.59

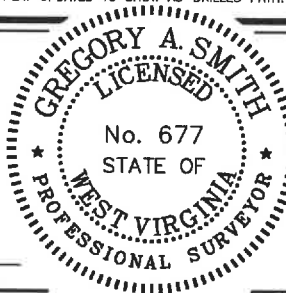
CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING
C1	1273.52'	46.85'	46.85'	S 84°53'32" W
C2	584.22'	142.02'	141.67'	N 89°39'08" W
C3	530.41'	142.38'	141.96'	S 86°58'21" W
C4	146.78'	92.84'	91.30'	N 80°35'49" W
C5	451.90'	198.96'	197.36'	N 49°08'31" W
C6	1312.52'	428.04'	426.14'	N 27°49'28" W

REFERENCES



NOTES ON SURVEY

1. 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.
2. WELL SPOT CIRCLE & TOPO MARK SCALE ARE 1"=2000'
3. THERE IS ONE (1) HOUSE TRAILER AND ONE (1) HUNTING CABIN WITHIN WITHIN 625 FEET. NEITHER STRUCTURE APPEAR TO BE OCCUPIED AND THE HOUSE TRAILER APPEARS TO BE DILAPIDATED.
4. AS-DRILLED DATA PROVIDED BY ARSENAL RESOURCES
5. PLAT UPDATED TO SHOW AS-DRILLED PATH.

12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.5634
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
slsvv.comI 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 DIVISION OF ENVIRONMENTAL PROTECTION.P.S.
677(+) DENOTES LOCATION OF WELL ON UNITED
STATES TOPOGRAPHIC MAPS

DATE JANUARY 10 20 24

REVISED MAY 16 20 25

OPERATORS WELL NO. 211

API
WELL NO. 47

STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 9111-Arsenal-SURV-Plat21 1ad-R01-250516-CPM.dwg

HORIZONTAL & VERTICAL SCALE 1" = 2000'
CONTROL DETERMINED BY: DGPS (SURVEY GRADE TIE TO CORS NETWORK)STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

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

LOCATION : EXISTING = 1294.20'
ELEVATION PROPOSED = 1294.45' WATERSHED LONG RUN

DISTRICT COURTHOUSE COUNTY TAYLOR QUADRANGLE GRAFTON

SURFACE OWNER ROBERT L. & JULIE A. ARMSTRONG ACREAGE 65.375±

ROYALTY OWNER ROBERT L. & JULIE A. ARMSTRONG ET AL ACREAGE 65.375±

PROPOSED WORK : LEASE NO. SEE WW-6A1

DRILL X CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE X 09/26/2025

FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER

PHYSICAL CHANGE IN WELL (SPECIFY) TARGET FORMATION MARCELLUS

ESTIMATED DEPTH TMD 20,796.9 / TVD 7,725'

WELL OPERATOR ARSENAL RESOURCES

DESIGNATED AGENT ERIC MORRIS

ADDRESS 6031 WALLACE RD. EXT. SUITE 300
WEXFORD, PA 15090ADDRESS 633 WEST MAIN STREET
BRIDGEPORT, WV 26330

COUNTY NAME

PERMIT

ARMSTRONG II LEASE WELL NO. 211 ARSENAL RESOURCES

LEGEND

AS DRILLED ———
PROPOSED - - - - -

NAD'83 GRID NORTH

LINE	BEARING	DISTANCE
L1	N 89°42' W	824.86'
L2	S 82°00' W	320.33'
L3	N 85°36' W	745.20'
L4	S 79°02' W	401.72'
L5	S 87°41' E	513.97'
L6	S 13°49' E	645.88'



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1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
slswv.com

AS DRILLED COORDINATES FOR WELL NO. 211

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

NAD'83 S.P.C.(FT) N. 288,607.82 E. 1,803,397.13
NAD'83 GEO. LAT-(N) 39.290912 LONG-(W) 80.083350
NAD'83 UTM (M) N. 4,349,460.64 E. 579,048.94

LANDING POINT

NAD'83 S.P.C.(FT) N. 289,101.7 E. 1,800,034.3
NAD'83 GEO. LAT-(N) 39.292207 LONG-(W) 80.095243
NAD'83 UTM (M) N. 4,349,594.1 E. 578,021.9

BOTTOM HOLE

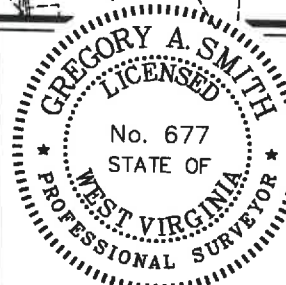
NAD'83 S.P.C.(FT) N. 300,388.3 E. 1,796,179.2
NAD'83 GEO. LAT-(N) 39.323123 LONG-(W) 80.109134
NAD'83 UTM (M) N. 4,353,013.3 E. 576,790.1

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SCALE 1" = 2000' FILE NO. 9111-Arsenal-SURV-Plat211ad-R01-250516-CPM.dwg

DATE JANUARY 10, 2024
REVISED MAY 16, 2025
OPERATORS WELL NO. 211
API WELL NO. 47
STATE COUNTY PERMIT

WELL OPERATOR ARSENAL RESOURCES
ADDRESS 6031 WALLACE RD. EXT. SUITE 300
WEXFORD, PA 15090



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



DESIGNATED AGENT ERIC MORRIS

ADDRESS 633 WEST MAIN STREET
BRIDGEPORT, WV 26330

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

P.S.
677

Gregory A. Smith

LEGEND

LEASE LINE
SURFACE LINE
WELL LATERAL
OFFSET LINE
TIE LINE
CREEK
ROAD
COUNTY ROUTE
PROPOSED WELL
EXISTING WELL
PERMITTED WELL
TAX MAP-PARCEL
SURFACE OWNER (SEE TABLE)
LEASE # (SEE WW-6A1)

09/26/2025

COUNTY NAME
PERMIT

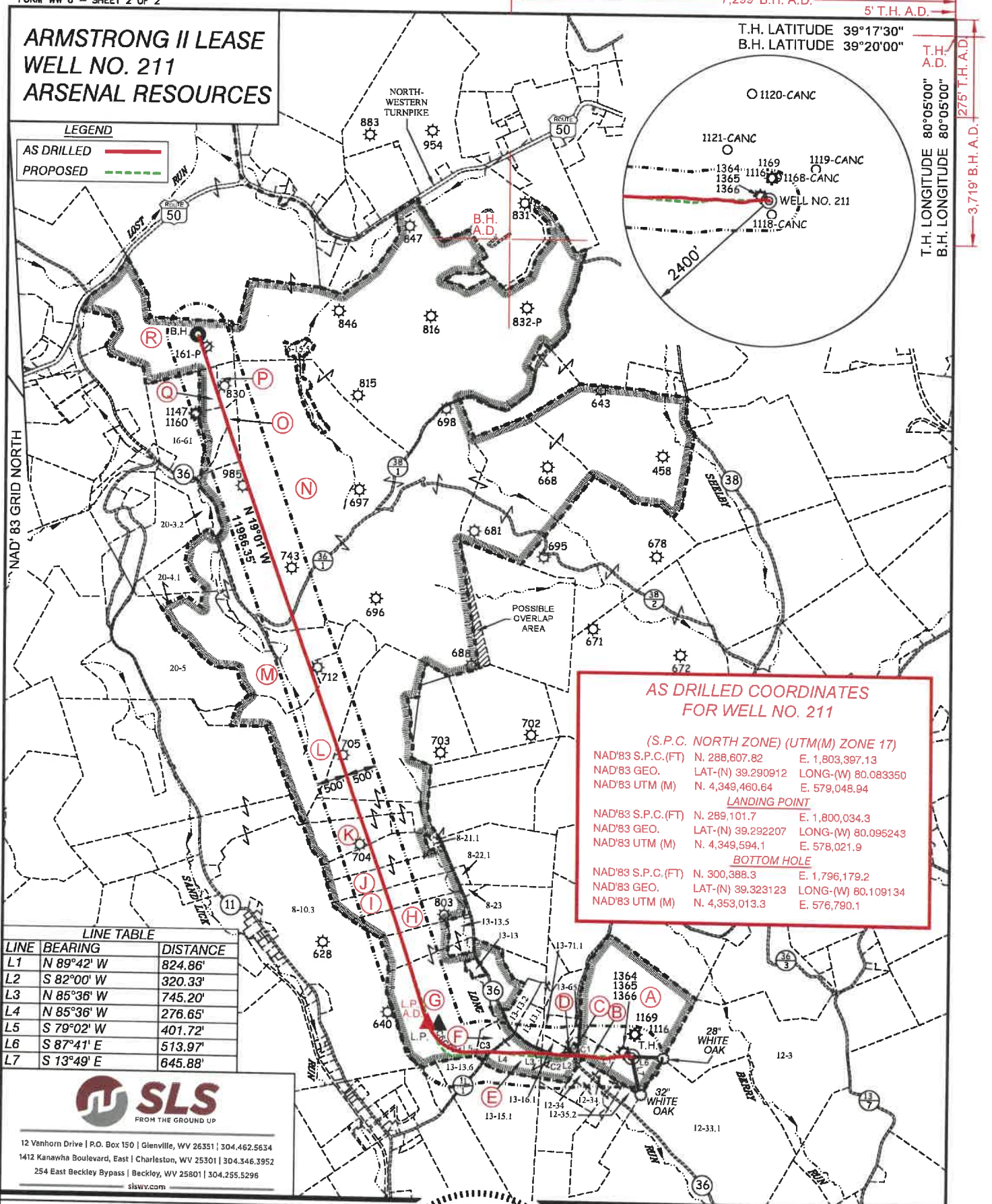
T.H. LATITUDE 39°17'30"
B.H. LATITUDE 39°20'00"

5' T.H. A.D.

T.H. A.D.

T.H. LONGITUDE 80°05'00"
B.H. LONGITUDE 80°05'00"

275' T.H. A.D.
3,719' B.H. A.D.



ARMSTRONG II LEASE
WELL NO. 211
ARSENAL RESOURCES

LEGEND

AS DRILLED

PROPOSED

NAD 83 GRID NORTH

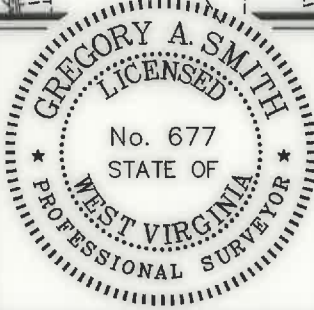
LINE TABLE		
LINE	BEARING	DISTANCE
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L2	S 82°00' W	320.33'
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slewwv.com

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17)		
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STATE OF WEST VIRGINIA
DIVISION OF
ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS



SCALE 1" = 2000' FILE NO. 8111-Arsenal-BURV-Plat211ed-R02-260528-CPM.dwg

DATE JANUARY 10, 2024

REVISED MAY 28, 2025

OPERATORS WELL NO. 211

API WELL NO. 47 — 091 — 01377

STATE COUNTY PERMIT

WELL OPERATOR ARSENAL RESOURCES

ADDRESS 6031 WALLACE RD. EXT. SUITE 300
WEXFORD, PA 15090

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ADDRESS 633 WEST MAIN STREET
BRIDGEPORT, WV 26330

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

P.S. 677 Gregory A. Smith

LEGEND

- LEASE LINE
- SURFACE LINE
- WELL LATERAL
- OFFSET LINE
- TIE LINE
- CREEK
- ROAD
- COUNTY ROUTE
- PROPOSED WELL
- EXISTING WELL
- PERMITTED WELL
- TAX MAP-PARCEL
- SURFACE OWNER (SEE TABLE)
- LEASE # (SEE WW-6A1)

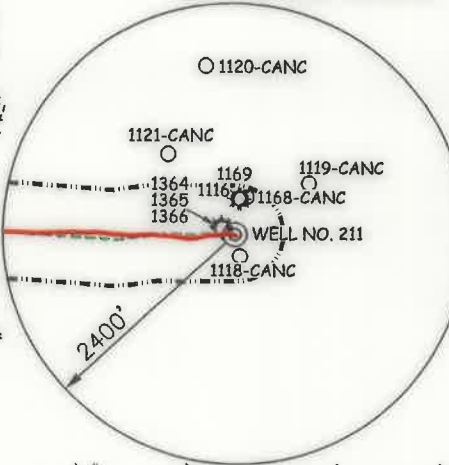
09/26/2025

COUNTY NAME PERMIT

7,299' B.H. A.D. 5' T.H. A.D.

T.H. LATITUDE 39°17'30"
B.H. LATITUDE 39°20'00"

T.H. LONGITUDE 80°05'00"
B.H. LONGITUDE 80°05'00"



AS DRILLED COORDINATES
FOR WELL NO. 211

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ARMSTRONG II LEASE
WELL NO. 211
ARSENAL RESOURCES

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M	RALPH & CRYSTAL L. MORRIS	3-20-4	79.65
N	STATE OF WEST VIRGINIA INDUSTRIAL SCHOOL FOR BOYS	5-5-15	913.69
O	BYRON D. & ELAINE D. GILBERT	3-16-61.1	6.55
P	NANCY B. BAKER (LF), ET AL	3-16-61.2	16.29
Q	DUSTIN L. DALTON & CALLIE MARISA MARJE GILBERT	3-16-61.3	5
R	ERNEST C. HAWKINBERRY (LIFE), ET AL	3-16-62	55.60

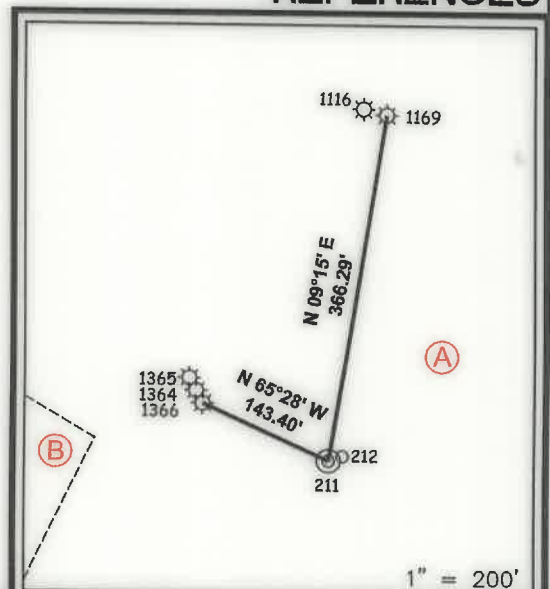
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NAD'83 UTM (M) N. 4,349,587.6 E. 578,033.9
BOTTOM HOLE
NAD'83 S.P.C.(FT) N. 300,411.8 E. 1,796,167.2
NAD'83 GEO. LAT-(N) 39.323188 LONG-(W) 80.109177
NAD'83 UTM (M) N. 4,353,020.3 E. 576,786.4

PARCEL	ADJOINING SURFACE OWNER	ACRES
3-16-61	NANCY B BAKER	26.91
3-20-3.2	REBECCA J. BARTLETT	8.40
3-20-4.1	CHADWICK L & TOSHA N MORRIS	11.97
5-5-15.5	STATE OF WEST VIRGINIA (WV DEPT OF AGRICULTRE)	6.62
5-8-10.3	C & P RICOTTILLI ET AL	214.97
5-8-21.1	DIANNA I. LEONELLI	1.05
5-8-22.1	H. THOMAS ADKINS, JR.	1.29
5-8-23	TRINA RAGER	1.1
5-12-3	ROBERT L. JR. & PATRICIA LYNN CARPENTER	117.94
5-12-33.1	HARRY V. & PATRICIA J. JOHNSON	89.30
5-12-34.1	BOW SMITH	4.825
5-12-35.2	MARIE ELEANORE & KEITH QUEEN (LIFE), ET AL	2.00
5-13-13	MICHAEL EUGENE & BETH ANN WININGER	1.57
5-13-13.1	JERRY LEE JR. & MARSHA A. WELCH	5.03
5-13-13.2	LEROY G & ROBIN D STANLEY	5
5-13-13.5	TRINA RAGER	5.72
5-13-13.6	PETER J & TONYA J SHIPP	5.77
5-13-15.1	GARY LEE BOLYARD ET AL	43.41
5-13-65	LONG RUN FELLOWSHIP CHURCH	1.341
5-13-71.1	ALLISON SIMMONS	5.00
5-13-16.1	ALLISON SIMMONS	1.59

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING
C1	1273.52'	46.85'	46.85'	S 84°53'32" W
C2	584.22'	142.02'	141.67'	N 89°39'08" W
C3	530.41'	142.38'	141.96'	S 86°58'21" W
C4	146.78'	92.84'	91.30'	N 80°35'49" W
C5	451.90'	198.96'	197.36'	N 49°08'31" W
C6	1312.52'	428.04'	426.14'	N 27°49'28" W

REFERENCES



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.
- WELL SPOT CIRCLE & TOPO MARK SCALE ARE 1"=2000'
- THERE IS ONE (1) HOUSE TRAILER AND ONE (1) HUNTING CABIN WITHIN WITHIN 625 FEET. NEITHER STRUCTURE APPEAR TO BE OCCUPIED AND THE HOUSE TRAILER APPEARS TO BE DILAPIDATED.
- AS-DRILLED DATA PROVIDED BY ARSENAL RESOURCES
- PLAT UPDATED TO SHOW AS-DRILLED PATH.

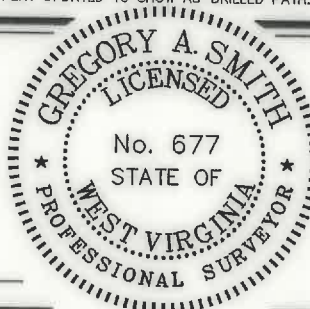


12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.5634
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.6296
slnwv.com

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 DIVISION OF ENVIRONMENTAL PROTECTION.

P.S.
677

Gregory A. Smith



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
DATE JANUARY 10, 20 24
REVISED MAY 28, 20 25
OPERATORS WELL NO. 211
API WELL NO. 47 - 091 - 01377
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500
HORIZONTAL & VERTICAL CONTROL DETERMINED BY: DGPS (SURVEY GRADE TIE TO CORS NETWORK)
FILE NO. 9111-Arsenal-SURV-Plat211ed-R02-250528-CPM.dwg
SCALE 1" = 2000'

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



WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION X STORAGE DEEP SHALLOW X
LOCATION: ELEVATION 1294.20' WATERSHED LONG RUN DISTRICT COURTHOUSE COUNTY TAYLOR QUADRANGLE GRAFTON
SURFACE OWNER ROBERT L. & JULIE A. ARMSTRONG ACREAGE 65.375±
ROYALTY OWNER ROBERT L. & JULIE A. ARMSTRONG ET AL ACREAGE 65.375±
PROPOSED WORK: DRILL X CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER
PHYSICAL CHANGE IN WELL (SPECIFY) TARGET FORMATION MARCELLUS ESTIMATED DEPTH TMD 20,983 / TVD 7,837'

WELL OPERATOR ARSENAL RESOURCES
ADDRESS 6031 WALLACE RD. EXT. SUITE 300
WEXFORD, PA 15090

DESIGNATED AGENT ERIC MORRIS
ADDRESS 633 WEST MAIN STREET
BRIDGEPORT, WV 26330

COUNTY NAME

PERMIT