

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

API 47-091-01365 County Taylor District Court House
Quad Grafton Pad Name Armstrong II Field/Pool Name _____
Farm name Robert and Julie Armstong Well Number 214
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 4349486.12 Easting 579004.50
Landing Point of Curve Northing 4349619.0 Easting 578894.9
Bottom Hole Northing 4353669.5 Easting 577416.6

Elevation (ft) 1293.80 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

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Date permit issued 03/07/2022 Date drilling commenced 5/26 04/15/2022 Date drilling ceased 06/10/2022
Date completion activities began 6/20/2022 Date completion activities ceased 9/27/2022
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

APPROVED

Reviewed by:
[Signature]
2-8-22
03/31/2023

API 47- 091 - 01365 Farm name Robert and Julie Armstong Well number 214

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"	80' GL	New	94	NA	Y
Surface	17 1/2"	13 3/8"	983' GL	New	54.5	NA	Y
Coal	NA	NA	NA	NA	NA	NA	N
Intermediate 1	12 1/4"	9 5/8"	2,507' 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"	22,141' 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 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	830	15.60	1.2	996	Surface	8+
Coal	NA	NA	NA	NA	NA	NA	NA
Intermediate 1	A	840	15.60	1.19	999.6	Surface	8+
Intermediate 2	NA	NA	NA	NA	NA	NA	NA
Intermediate 3	NA	NA	NA	NA	NA	NA	NA
Production	A	850/3040	13.2/14.5	1.53/1.16	1,300.5/3,526.4	Surface	8+
Tubing	NA	NA	NA	NA	NA	NA	NA

Drillers TD (ft) 22,164'(GL) Loggers TD (ft) NA

Deepest formation penetrated Marcellus Plug back to (ft) NA

Plug back procedure NA

Kick off depth (ft) 6,906'(GL)

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

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 will be 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 _____

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<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
<u>Marcellus Shale</u>	<u>7680-7838</u>	<u>TVD</u>	<u>8022-22116</u> <u>MD</u>
_____	_____	_____	_____
_____	_____	_____	_____

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 15264 mcfpd Oil 0 bpd NGL 0 bpd Water 640 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 ₂ S, ETC)
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	7406	4598	7465	Sandstone, Siltstone, Shale
Burket	7406	7428	7465	7495	Shale
Tully	7428	7486	7495	7578	Limestone
Mahantango	7486	7645	7578	7867	Shale
Marcellus	7645	7706	7867	8140	Shale
Lower Marcellus	7706	7739**	8140	22180	Shale
Onondaga	7739**				**Onondaga not penetrated - est based on 091-01116

Please insert additional pages as applicable.

Drilling Contractor Patterson- UTI Drilling
Address 10713 West Sam Houston Parkway North City Houston State TX Zip 77064

Logging Company NA
Address _____ City _____ State _____ Zip _____

Cementing Company Nextier Oilfield Services
Address 3990 Rogerdale City Houston State TX Zip 77042

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 11/14/22

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

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WR 35 FORM COMPLETIONS INFORMATION

Well Header

Well Name Armstrong II 214	API/UWI 47-091-01365	Lease	Pad Name Armstrong II	Operator Arsenal Resources	Well Type Development	Well Subtype Multi
Original KB Elevation (ft) 1,319.00	Water Depth (ft) 850.00	Well License Date 3/7/2022	Spud Date 5/25/2022	Rig Release Date 6/9/2022		
County Taylor	District	Division	Division Code			
Lat/Long Datum	Latitude (") 39° 17' 28.124" N	Longitude (") 80° 5' 1.905" W	UTM Easting (m)	UTM Northing (m)		

Jobs

Job Category Completion/Workover	Primary Job Type Initial Completion	Start Date 6/16/2022	End Date
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Perforations

Date	Top (ftKB)	Btm (ftKB)	Entered Shot Total	Zone
8/3/2022	8,022.0	8,184.0	40	Marcellus Shale, Original Hole
8/3/2022	8,222.0	8,384.0	40	Marcellus Shale, Original Hole
8/3/2022	8,422.0	8,584.0	40	Marcellus Shale, Original Hole
8/2/2022	8,622.0	8,784.0	40	Marcellus Shale, Original Hole
8/2/2022	8,822.0	8,984.0	40	Marcellus Shale, Original Hole
8/2/2022	9,022.0	9,184.0	40	Marcellus Shale, Original Hole
8/1/2022	9,222.0	9,384.0	40	Marcellus Shale, Original Hole
8/1/2022	9,422.0	9,584.0	40	Marcellus Shale, Original Hole
8/1/2022	9,622.0	9,784.0	40	Marcellus Shale, Original Hole
7/31/2022	9,822.0	9,984.0	40	Marcellus Shale, Original Hole
7/31/2022	10,022.0	10,184.0	40	Marcellus Shale, Original Hole
7/30/2022	10,222.0	10,384.0	40	Marcellus Shale, Original Hole
7/30/2022	10,422.0	10,580.0	40	Marcellus Shale, Original Hole
7/30/2022	10,622.0	10,784.0	40	Marcellus Shale, Original Hole
7/29/2022	10,822.0	10,981.0	40	Marcellus Shale, Original Hole
7/29/2022	11,022.0	11,184.0	40	Marcellus Shale, Original Hole
7/29/2022	11,222.0	11,384.0	40	Marcellus Shale, Original Hole
7/28/2022	11,422.0	11,584.0	40	Marcellus Shale, Original Hole
7/28/2022	11,622.0	11,784.0	40	Marcellus Shale, Original Hole
7/28/2022	11,822.0	11,984.0	40	Marcellus Shale, Original Hole
7/27/2022	12,022.0	12,182.0	40	Marcellus Shale, Original Hole
7/27/2022	12,222.0	12,384.0	40	Marcellus Shale, Original Hole
7/27/2022	12,422.0	12,584.0	40	Marcellus Shale, Original Hole
7/26/2022	12,622.0	12,784.0	40	Marcellus Shale, Original Hole
7/25/2022	12,822.0	12,984.0	32	Marcellus Shale, Original Hole
7/23/2022	13,022.0	13,184.0	40	Marcellus Shale, Original Hole
7/23/2022	13,222.0	13,384.0	40	Marcellus Shale, Original Hole
7/22/2022	13,422.0	13,584.0	40	Marcellus Shale, Original Hole
7/22/2022	13,622.0	13,784.0	40	Marcellus Shale, Original Hole
7/22/2022	13,822.0	13,984.0	40	Marcellus Shale, Original Hole
7/21/2022	14,022.0	14,184.0	40	Marcellus Shale, Original Hole
7/21/2022	14,222.0	14,384.0	40	Marcellus Shale, Original Hole
7/20/2022	14,422.0	14,584.0	40	Marcellus Shale, Original Hole
7/20/2022	14,622.0	14,784.0	40	Marcellus Shale, Original Hole
7/19/2022	14,822.0	14,984.0	40	Marcellus Shale, Original Hole
7/19/2022	15,022.0	15,184.0	40	Marcellus Shale, Original Hole
7/18/2022	15,222.0	15,384.0	40	Marcellus Shale, Original Hole
7/18/2022	15,422.0	15,584.0	40	Marcellus Shale, Original Hole
7/17/2022	15,622.0	15,784.0	40	Marcellus Shale, Original Hole
7/17/2022	15,822.0	15,984.0	40	Marcellus Shale, Original Hole
7/17/2022	16,022.0	16,184.0	40	Marcellus Shale, Original Hole
7/16/2022	16,222.0	16,384.0	40	Marcellus Shale, Original Hole
7/16/2022	16,422.0	16,584.0	40	Marcellus Shale, Original Hole
7/15/2022	16,622.0	16,784.0	40	Marcellus Shale, Original Hole
7/15/2022	16,824.0	16,984.0	40	Marcellus Shale, Original Hole

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WR 35 FORM COMPLETIONS INFORMATION

Perforations

Date	Top (ftKB)	Btm (ftKB)	Entered Shot Total	Zone
7/14/2022	17,022.0	17,180.0	40	Marcellus Shale, Original Hole
7/14/2022	17,222.0	17,380.0	40	Marcellus Shale, Original Hole
7/13/2022	17,422.0	17,584.0	40	Marcellus Shale, Original Hole
7/12/2022	17,622.0	17,784.0	40	Marcellus Shale, Original Hole
7/12/2022	17,826.0	17,984.0	40	Marcellus Shale, Original Hole
7/11/2022	18,022.0	18,184.0	40	Marcellus Shale, Original Hole
7/11/2022	18,222.0	18,384.0	40	Marcellus Shale, Original Hole
7/10/2022	18,422.0	18,584.0	40	Marcellus Shale, Original Hole
7/10/2022	18,622.0	18,784.0	40	Marcellus Shale, Original Hole
7/9/2022	18,822.0	18,984.0	40	Marcellus Shale, Original Hole
7/9/2022	19,022.0	19,182.0	40	Marcellus Shale, Original Hole
7/8/2022	19,222.0	19,384.0	40	Marcellus Shale, Original Hole
7/8/2022	19,422.0	19,581.0	40	Marcellus Shale, Original Hole
7/7/2022	19,622.0	19,784.0	40	Marcellus Shale, Original Hole
7/7/2022	19,822.0	19,984.0	40	Marcellus Shale, Original Hole
7/7/2022	20,022.0	20,184.0	40	Marcellus Shale, Original Hole
7/6/2022	20,222.0	20,384.0	40	Marcellus Shale, Original Hole
7/5/2022	20,422.0	20,584.0	40	Marcellus Shale, Original Hole
7/5/2022	20,622.0	20,784.0	40	Marcellus Shale, Original Hole
7/4/2022	20,822.0	20,984.0	40	Marcellus Shale, Original Hole
7/4/2022	21,022.0	21,184.0	40	Marcellus Shale, Original Hole
7/3/2022	21,222.0	21,384.0	40	Marcellus Shale, Original Hole
7/3/2022	21,422.0	21,584.0	40	Marcellus Shale, Original Hole
7/2/2022	21,622.0	21,784.0	40	Marcellus Shale, Original Hole
7/2/2022	21,822.0	21,984.0	40	Marcellus Shale, Original Hole
7/1/2022	22,025.0	22,116.0	4	Marcellus Shale, Original Hole

Stimulations Summary

Start Date 7/1/2022	Treat Rate Avg (bbl/min)	Treat Pressure Avg (psi)	Proppant Total (lb) 35,143,385.0	Volume Clean Total (bbl) 670,018.00	Frac Gradient Average (psi/ft) 1.25
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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	7/1/2022	85.4	9,896.0	7,181.0	5,140.0		6,205.00
2	7/2/2022	85.6	8,942.0	5,943.0	5,760.0		9,549.00
3	7/2/2022	83.5	8,733.0	5,913.0	6,026.0		9,514.00
4	7/3/2022	81.7	8,732.0	6,087.0	5,640.0		9,427.00
5	7/3/2022	85.7	8,940.0	6,036.0	6,213.0		9,527.00
6	7/4/2022	83.8	8,790.0	5,987.0	5,620.0		9,498.00
7	7/5/2022	85.2	9,130.0	6,043.0	6,073.0		9,452.00
8	7/5/2022	85.7	8,964.0	6,023.0	5,850.0		9,500.00
9	7/5/2022	86.3	9,000.0	9,841.0	5,422.0		8,924.00
10	7/6/2022	84.5	8,880.0	4,212.0	5,426.0		9,339.00
11	7/7/2022	87.9	8,923.0	6,629.0	6,057.0		9,041.00
12	7/7/2022	85.1	8,681.0	6,467.0	5,004.0		9,200.00
13	7/8/2022	86.7	8,846.0	9,874.0	5,186.0		8,964.00
14	7/8/2022	84.5	8,520.0	6,763.0	5,867.0		9,137.00
15	7/9/2022	87.9	8,797.0	9,782.0	4,528.0		9,136.00
16	7/9/2022	84.4	8,631.0	6,713.0	4,535.0		9,312.00
17	7/10/2022	85.5	8,569.0	6,517.0	5,719.0		9,076.00
18	7/10/2022	84.6	8,799.0	4,750.0	5,572.0		9,085.00
19	7/10/2022	83	8,635.0	5,338.0	4,349.0		9,089.00
20	7/11/2022	85.4	8,768.0	5,791.0	4,392.0		9,169.00
21	7/12/2022	85.1	9,220.0	5,261.0	4,194.0		9,490.00
22	7/12/2022	78.3	9,255.0	5,069.0	4,562.0		10,672.00
23	7/13/2022	75.9	8,531.0	9,628.0	4,526.0		10,089.00

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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)
24	7/14/2022	87	8,782.0	4,757.0	5,474.0		10,368.00
25	7/14/2022	86.9	8,807.0	7,025.0	4,670.0		10,289.00
26	7/15/2022	88.7	9,017.0	5,012.0	6,123.0		9,422.00
27	7/15/2022	88.4	8,484.0	6,887.0	5,797.0		9,412.00
28	7/16/2022	84.7	9,270.0	6,340.0	5,014.0		11,147.00
29	7/16/2022	87.8	8,969.0	6,055.0	5,723.0		8,774.00
30	7/16/2022	88.1	9,000.0	6,271.0	6,039.0		9,493.00
31	7/17/2022	88.2	8,921.0	6,659.0	4,484.0		9,313.00
32	7/17/2022	87.9	8,786.0	5,809.0	4,861.0		9,453.00
33	7/18/2022	88.6	8,549.0	6,613.0	4,894.0		9,588.00
34	7/18/2022	88.5	8,859.0	7,246.0	4,841.0		9,491.00
35	7/19/2022	87.9	8,758.0	6,326.0	4,608.0		10,398.00
36	7/19/2022	87.7	9,420.0	7,093.0	4,693.0		9,467.00
37	7/19/2022	87.4	8,926.0	9,550.0	4,858.0		9,542.00
38	7/20/2022	85.9	8,901.0	7,004.0	5,679.0		9,466.00
39	7/20/2022	86.5	9,205.0	6,484.0	5,425.0		10,401.00
40	7/21/2022	86.3	8,645.0	7,284.0	4,866.0		9,493.00
41	7/22/2022	85.8	8,713.0	4,033.0	5,037.0		9,500.00
42	7/22/2022	85.3	8,616.0	7,216.0	6,510.0		9,415.00
43	7/22/2022	83.6	8,261.0	4,793.0	5,256.0		9,491.00
44	7/23/2022	84.7	8,431.0	7,227.0	5,898.0		9,485.00
45	7/23/2022	85	8,653.0	7,250.0	5,417.0		9,335.00
46	7/24/2022	85.5	8,837.0	7,114.0	4,854.0		9,446.00
47	7/26/2022	85.8	8,697.0	7,381.0	5,459.0		9,323.00
48	7/26/2022	84.6	8,810.0	6,878.0	4,829.0		9,289.00
49	7/27/2022	82.3	9,646.0	7,457.0	5,218.0		10,127.00
50	7/27/2022	84	8,947.0	7,528.0	5,411.0		10,808.00
51	7/28/2022	84.2	7,124.0	7,560.0	4,971.0		9,262.00
52	7/28/2022	86.6	8,362.0	7,508.0	4,883.0		9,355.00
53	7/28/2022	84.4	8,441.0	7,801.0	4,817.0		9,247.00
54	7/29/2022	83.5	9,283.0	7,541.0	5,194.0		10,494.00
55	7/29/2022	84.9	8,438.0	7,623.0	4,656.0		9,173.00
56	7/29/2022	85.8	8,214.0	8,317.0	4,939.0		9,239.00
57	7/30/2022	85.5	8,307.0	8,409.0	5,206.0		9,199.00
58	7/30/2022	84.9	8,207.0	7,883.0	5,044.0		9,503.00
59	7/30/2022	84.8	7,951.0	7,791.0	5,114.0		9,189.00
60	7/31/2022	84.7	7,924.0	7,305.0	3,142.0		9,114.00
61	7/31/2022	83.2	8,130.0	7,771.0	5,134.0		9,178.00
62	8/1/2022	83.7	8,121.0	7,099.0	4,767.0		10,021.00
63	8/1/2022	84.2	8,607.0	7,032.0	5,831.0		9,119.00
64	8/1/2022	84	7,997.0	6,892.0	5,252.0		9,157.00
65	8/2/2022	83.4	8,225.0	7,809.0	5,431.0		9,316.00
66	8/2/2022	82.5	8,582.0	6,779.0	5,046.0		9,979.00
67	8/2/2022	82.5	7,918.0	6,780.0	4,842.0		9,129.00
68	8/3/2022	83.7	7,568.0	7,036.0	4,868.0		9,095.00
69	8/3/2022	81.5	7,652.0	5,447.0	5,096.0		9,033.00
70	8/3/2022	82.2	7,619.0	6,779.0	5,072.0		9,075.00
71	8/4/2022	80.7	7,494.0	7,753.0	5,277.0		9,010.00

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Claimant Company	Claimant First Name	Claimant Last Name	Claimant Email	Claimant Phone (nnn-xxx-xxxx)
Moon	Bryan	Schulhoff	bryan@moonchemical.com	405-787-4110
Chemstream	Eric	Fry	eric.fry@chemstream.com	814-706-1426
Chemstream	Eric	Fry	eric.fry@chemstream.com	814-706-1426

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ARMSTRONG II LEASE WELL NO. 214 ARSENAL RESOURCES

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

B.H.
A.D.

T.H.
A.D.

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

1,586' B.H. A.D.

PARCEL	ADJOINING SURFACE OWNER	ACRES
3-16-33	MARK A. CURREY, ET AL	35.00
3-16-34	BRADY LEE KNOTTS	1.17
3-16-36	JASON KNOTTS	4.80
3-16-37	ARK LAND LLC	1.00
3-16-38	MARK A. CURREY, ET AL	18.5
3-16-61.1	BYRON D. & ELAINE D. GILBERT	6.55
3-16-61.2	NANCY B. BAKER (LF), ET AL	16.29
3-16-62	ERNEST C. HAWKINBERRY (LIFE), ET AL	55.60
3-20-3.2	REBECCA J. BARTLETT	8.40
3-20-4	RALPH & CRYSTAL L. MORRIS	79.65
5-4-15	MARK A. CURREY	108.46
5-4-15.1	CHAD L. CURREY	7.38
5-4-15.3	JODI DARLENE & WILLIE JOE HAUGHT	1.03
5-4-51	GEORGE R. WILLIAMS	168.22
5-4-52	ARK LAND LLC	69.75
5-4-52.1	ARK LAND LLC	2.25
5-5-15.1	TAYLOR COUNTY FAIR ASSOCIATION	54.5
5-5-15.2	TAYLOR COUNTY FAIR ASSOCIATION	3.20
5-5-15.4	STATE OF WEST VIRGINIA (WV DEPT OF AGRICULTURE)	2.84
5-5-15.5	STATE OF WEST VIRGINIA (WV DEPT OF AGRICULTURE)	6.62
5-5-17.1	MATTHEW ALLEN & NORMA JEAN CHENOWETH	21.31
5-8-13	MICHAEL EUGENE & BETH ANN WININGER	16.74
5-8-15	ARK LAND LLC	106.82
5-8-17	ARK LAND LLC	1.735
5-8-20	ARK LAND LLC	23.00
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
5-8-24	TRINA RAGER	35.36
5-8-30	RODNEY E. & LINDA S. MCQUAIN	62.54
5-9-1	ARK LAND LLC	74.00
5-9-2	ARK LAND LLC	33.1
5-9-36	COALQUEST DEVELOPMENT LLC	55.75
5-9-57	COALQUEST DEVELOPMENT LLC	118.00
5-9-58	ARK LAND LLC	91.45
5-9-59	ARK LAND LLC	28.50
5-9-60	ARK LAND LLC	50.02
5-9-63.3	COALQUEST DEVELOPMENT LLC	85.45
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
5-12-89	LONG RUN FELLOWSHIP CHURCH	0.36
5-13-13.1	JERRY LEE JR. & MARSHA A. WELCH	5.03
5-13-15	TINA L. FREEZE	14.98
5-13-16.1	ALLISON SIMMONS	1.59
5-13-16.2	FRS OF LONG RUN FREE WILL BAPTIST CHURCH	6372.98 SQ FT
5-13-65	LONG RUN FELLOWSHIP CHURCH	1.341
5-13-71	TRINA F. RAGER	11.25
5-13-71.1	ALLISON SIMMONS	5.00

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

NAD'83 S.P.C.(FT) N. 288,693.89 E. 1,803,252.68
 NAD'83 GEO. LAT-(N) 39.291146 LONG-(W) 80.083862
 NAD'83 UTM (M) N. 4,349,486.14 E. 579,004.50

LANDING POINT

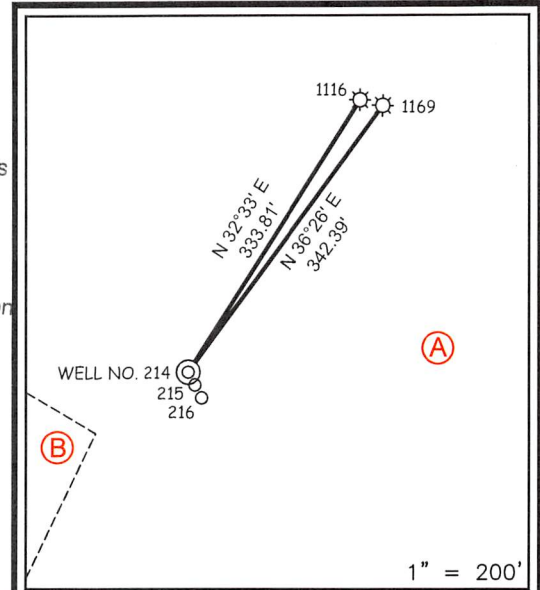
NAD'83 S.P.C.(FT) N. 289,216.5 E. 1,802,861.9
 NAD'83 GEO. LAT-(N) 39.292573 LONG-(W) 80.085255
 NAD'83 UTM (M) N. 4,349,643.4 E. 578,882.8

BOTTOM HOLE

NAD'83 S.P.C.(FT) N. 302,500.9 E. 1,798,269.2
 NAD'83 GEO. LAT-(N) 39.328962 LONG-(W) 80.101796
 NAD'83 UTM (M) N. 4,353,667.5 E. 577,416.2

TAG	SURFACE OWNER	PARCEL	ACRES
A	ROBERT L. & JULIE A. ARMSTRONG	5-12-1	65.375
B	ROBERT L. & JULIE A. ARMSTRONG	9-12-90	5.00
C	JOSEPH & LACEY N. FREY	5-13-71.2	8.35
D	ARK LAND COMPANY	5-13-71.3	27.52
E	HAROLD THOMAS & MARY LOU ADKINS	5-8-22	34.77
F	COALQUEST DEVELOPMENT LLC (C/O ARK LAND CO.)	5-9-57.1	120.00
G	ARK LAND COMPANY	5-8-21	66.95
H	ARK LAND COMPANY	5-8-14	17.00
I	ARK LAND COMPANY	5-8-19	42.23
J	ARK LAND COMPANY	5-8-18	73.50
K	STATE OF W.V. INDUSTRIAL SCHOOL FOR BOYS	5-5-15	913.69
L	TIMOTHY R. GERARD, ET AL	5-5-14	15.63
M	LARRY MCDANIEL (HEIRS)	5-5-13	4.98
N	GEORGE L. OR RUBY E. SIMPSON	5-5-12	2.53
O	STATE OF W.V. (NORTHWESTERN TURNPIKE)	N/A	N/A
P	BRADY KNOTTS	3-16-35	8.32

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.

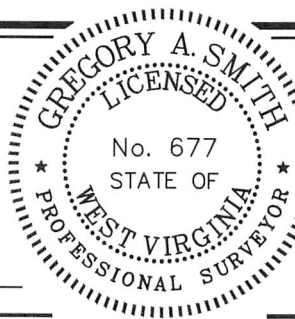


12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.5634
 1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
 254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
 slswv.com

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 JULY 14, 20 22
 REVISED _____, 20 ____
 OPERATORS WELL NO. 214
 API WELL NO. 47 — 091 — 01365
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 9111-Arsenal-SURV-Plat214ad-R00-220712-CPM.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 X LIQUID INJECTION _____ WASTE DISPOSAL _____ IF "GAS" PRODUCTION X STORAGE _____ DEEP _____ SHALLOW X

LOCATION :
 ELEVATION 1293.80' 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 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 22,215 / TVD 7,789'

WELL OPERATOR ARSENAL RESOURCES
 ADDRESS 6031 WALLACE RD. EXT. SUITE 101 WEXFORD, PA 15090

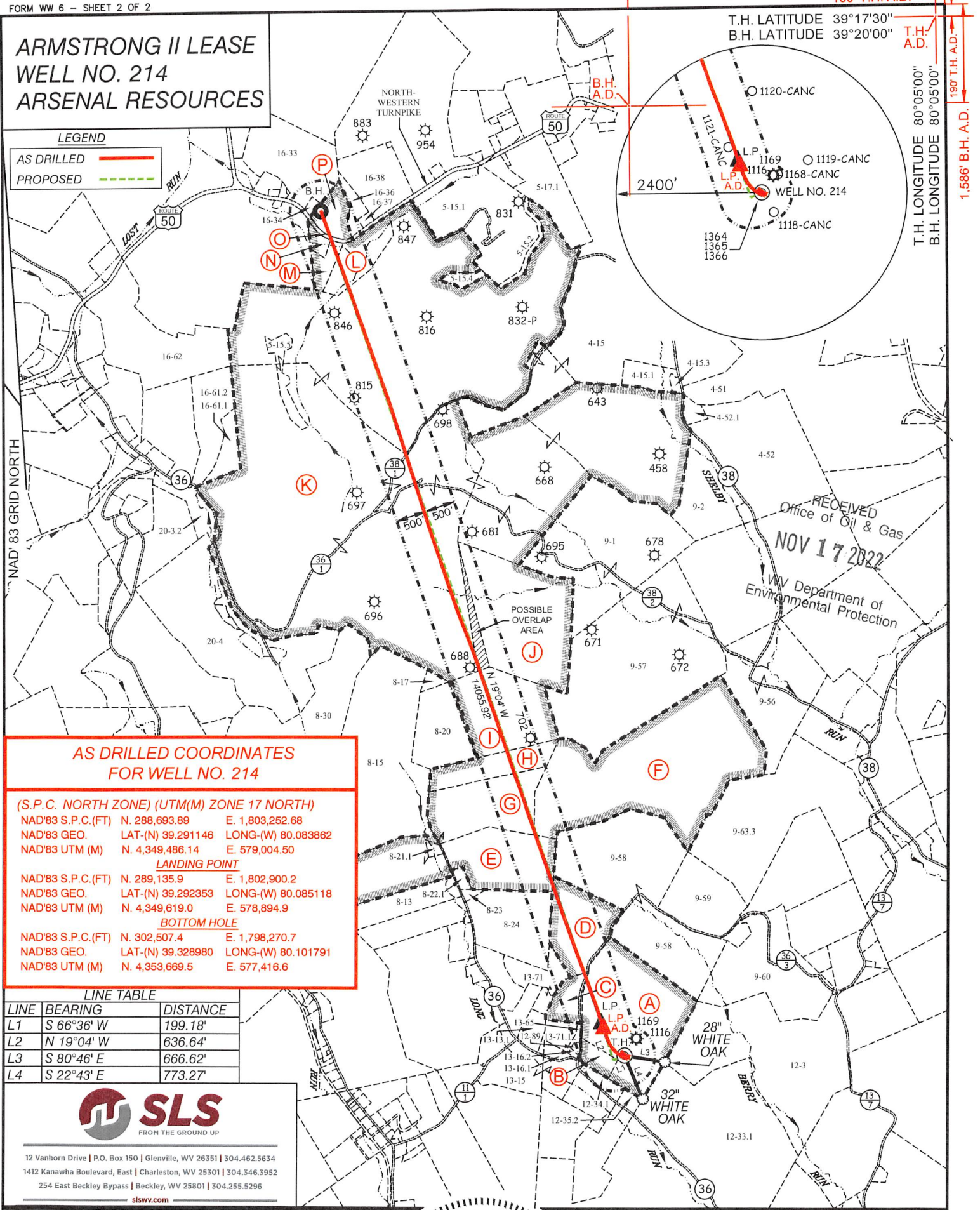
DESIGNATED AGENT GARY SHORT
 ADDRESS 633 WEST MAIN STREET BRIDGEPORT, WV 26330

COUNTY NAME PERMIT

ARMSTRONG II LEASE WELL NO. 214 ARSENAL RESOURCES

LEGEND

- AS DRILLED —
- PROPOSED - - -



RECEIVED
Office of Oil & Gas
NOV 17 2022
WV Department of
Environmental Protection

**AS DRILLED COORDINATES
FOR WELL NO. 214**

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)
 NAD'83 S.P.C.(FT) N. 288,693.89 E. 1,803,252.68
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 NAD'83 UTM (M) N. 4,349,486.14 E. 579,004.50

LANDING POINT
 NAD'83 S.P.C.(FT) N. 289,135.9 E. 1,802,900.2
 NAD'83 GEO. LAT-(N) 39.292353 LONG-(W) 80.085118
 NAD'83 UTM (M) N. 4,349,619.0 E. 578,894.9

BOTTOM HOLE
 NAD'83 S.P.C.(FT) N. 302,507.4 E. 1,798,270.7
 NAD'83 GEO. LAT-(N) 39.328980 LONG-(W) 80.101791
 NAD'83 UTM (M) N. 4,353,669.5 E. 577,416.6

LINE TABLE

LINE	BEARING	DISTANCE
L1	S 66°36' W	199.18'
L2	N 19°04' W	636.64'
L3	S 80°46' E	666.62'
L4	S 22°43' E	773.27'



12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.5634
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 NAD'83 UTM (M) N. 4,353,667.5 E. 577,416.2



(+) 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)

SCALE 1" = 2000' FILE NO. 9111-Arsenal-SURV-Plat214ad-R00-220712-CPM.dwg

DATE JULY 14, 2022
 REVISED _____, 20____
 OPERATORS WELL NO. 214
 API WELL NO. 47-091-01365
 STATE COUNTY PERMIT

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



DESIGNATED AGENT GARY SHORT

ADDRESS 633 WEST MAIN STREET
 BRIDGEPORT, WV 26330

WELL OPERATOR ARSENAL RESOURCES
 ADDRESS 6031 WALLACE RD. EXT. SUITE 101
 WEXFORD, PA 15090

COUNTY NAME
 PERMIT

03/31/2023

5,221' B.H. A.D.

150' T.H. A.D.

T.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"

1,586' B.H. A.D.

190' T.H. A.D.

2400'

L.P. 1169
 L.P. 1116
 L.P. 1168
 L.P. 1118

1120-CANC
 1119-CANC
 1168-CANC
 WELL NO. 214
 1118-CANC
 1364
 1365
 1366

B.H. A.D.

T.H. A.D.

NAD'83 GRID NORTH

ARMSTRONG II LEASE WELL NO. 214 ARSENAL RESOURCES

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

B.H.
A.D.

T.H.
A.D.

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

1.586' B.H. A.D.

PARCEL	ADJOINING SURFACE OWNER	ACRES
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5-4-15.1	CHAD L. CURREY	7.38
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5-5-15.5	STATE OF WEST VIRGINIA (WV DEPT OF AGRICULTURE)	6.62
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5-8-15	ARK LAND LLC	106.82
5-8-17	ARK LAND LLC	1.735
5-8-20	ARK LAND LLC	23.00
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5-8-22.1	H. THOMAS ADKINS, JR.	1.29
5-8-23	TRINA RAGER	1.1
5-8-24	TRINA RAGER	35.36
5-8-30	RODNEY E. & LINDA S. MCQUAIN	62.54
5-9-1	ARK LAND LLC	74.00
5-9-2	ARK LAND LLC	33.1
5-9-56	COALQUEST DEVELOPMENT LLC	55.75
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5-9-59	ARK LAND LLC	28.50
5-9-60	ARK LAND LLC	50.02
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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
5-12-89	LONG RUN FELLOWSHIP CHURCH	0.36
5-13-13.1	JERRY LEE JR. & MARSHA A. WELCH	5.03
5-13-15	TINA L. FREEZE	14.98
5-13-16.1	ALLISON SIMMONS	1.59
5-13-16.2	TRS OF LONG RUN FREE WILL BAPTIST CHURCH	6372.98 SQ FT
5-13-65	LONG RUN FELLOWSHIP CHURCH	1.341
5-13-71	TRINA F. RAGER	11.25
5-13-71.1	ALLISON SIMMONS	5.00

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

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LANDING POINT

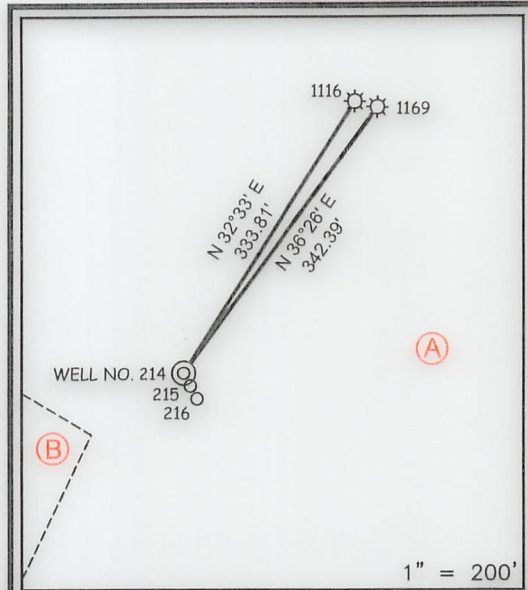
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 NAD'83 UTM (M) N. 4,353,667.5 E. 577,416.2

TAG	SURFACE OWNER	PARCEL	ACRES
A	ROBERT L. & JULIE A. ARMSTRONG	5-12-1	65.375
B	ROBERT L. & JULIE A. ARMSTRONG	9-12-90	5.00
C	JOSEPH & LACEY N. FREY	5-13-71.2	8.35
D	ARK LAND COMPANY	5-13-71.3	27.52
E	HAROLD THOMAS & MARY LOU ADKINS	5-8-22	34.77
F	COALQUEST DEVELOPMENT LLC (C/O ARK LAND CO.)	5-9-57.1	120.00
G	ARK LAND COMPANY	5-8-21	66.95
H	ARK LAND COMPANY	5-8-14	17.00
I	ARK LAND COMPANY	5-8-19	42.23
J	ARK LAND COMPANY	5-8-18	73.50
K	STATE OF W.V. INDUSTRIAL SCHOOL FOR BOYS	5-5-15	913.69
L	TIMOTHY R. GERARD, ET AL	5-5-14	15.63
M	LARRY MCDANIEL (HEIRS)	5-5-13	4.98
N	GEORGE L. OR RUBY E. SIMPSON	5-5-12	2.53
O	STATE OF W.V. (NORTHWESTERN TURNPIKE)	N/A	N/A
P	BRADY KNOTTS	3-16-35	8.32

REFERENCES



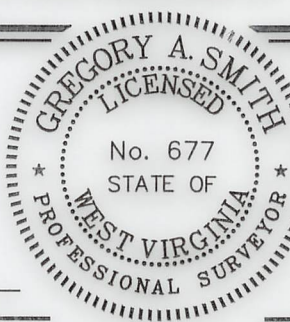
NOTES ON SURVEY

- 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.



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P.S. Gregory A. Smith
 677

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 DATE JULY 14, 20 22
 REVISED _____, 20 _____
 OPERATORS WELL NO. 214
 API WELL NO. 47 - 091 - 01365
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 9111-Arsenal-SURV-Plat214ad-R00-220712-CPM.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 1293 80' 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 63/31/2023
 PROPOSED WORK :
 LEASE NO. SEE WW-6A1
 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 MARCELLUS
 ESTIMATED DEPTH TMD 22,215 / TVD 7,789'

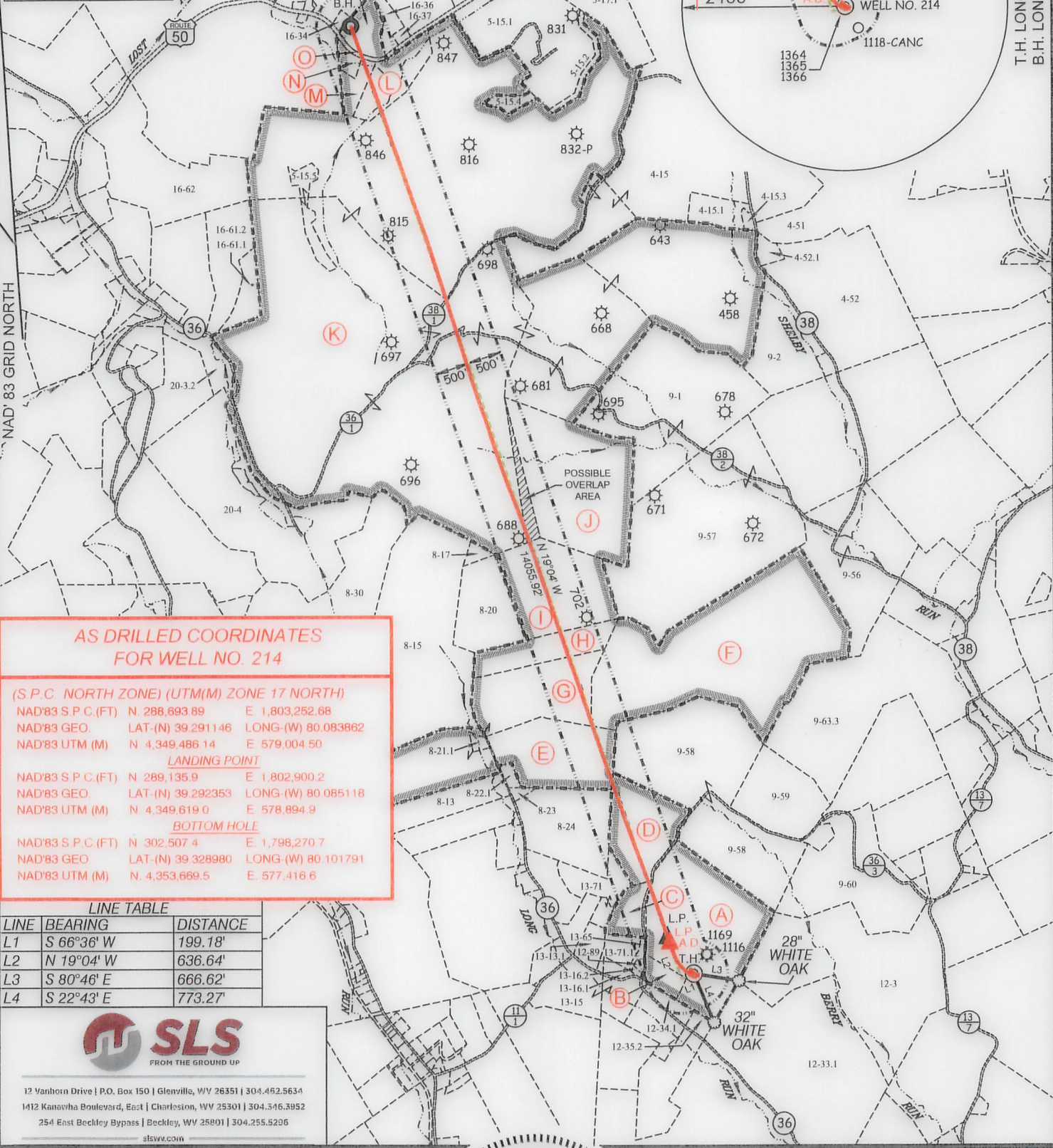
WELL OPERATOR ARSENAL RESOURCES DESIGNATED AGENT GARY SHORT
 ADDRESS 6031 WALLACE RD. EXT. SUITE 101 ADDRESS 633 WEST MAIN STREET
WEXFORD, PA 15090 BRIDGEPORT, WV 26330

COUNTY NAME
 PERMIT

ARMSTRONG II LEASE WELL NO. 214 ARSENAL RESOURCES

LEGEND

AS DRILLED	
PROPOSED	



**AS DRILLED COORDINATES
FOR WELL NO. 214**

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

NAD'83 S.P.C.(FT)	N. 288,693.89	E. 1,803,252.68
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NAD'83 UTM (M)	N. 4,349,486.14	E. 579,004.50

LANDING POINT

NAD'83 S.P.C.(FT)	N. 289,135.9	E. 1,802,900.2
NAD'83 GEO.	LAT-(N) 39.292353	LONG-(W) 80.085118
NAD'83 UTM (M)	N. 4,349,619.0	E. 578,894.9

BOTTOM HOLE

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NAD'83 GEO.	LAT-(N) 39.328980	LONG-(W) 80.101791
NAD'83 UTM (M)	N. 4,353,669.5	E. 577,416.6

LINE TABLE

LINE	BEARING	DISTANCE
L1	S 66°36' W	199.18'
L2	N 19°04' W	636.64'
L3	S 80°46' E	666.62'
L4	S 22°43' E	773.27'



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 slsvw.com

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

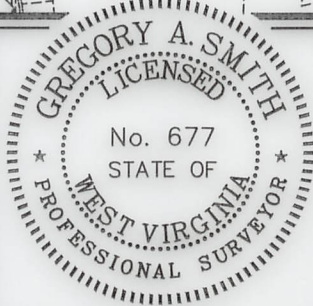
NAD'83 S.P.C.(FT)	N. 288,693.89	E. 1,803,252.68
NAD'83 GEO.	LAT-(N) 39.291146	LONG-(W) 80.083862
NAD'83 UTM (M)	N. 4,349,486.14	E. 579,004.50

LANDING POINT

NAD'83 S.P.C.(FT)	N. 289,216.5	E. 1,802,861.9
NAD'83 GEO.	LAT-(N) 39.292573	LONG-(W) 80.085255
NAD'83 UTM (M)	N. 4,349,643.4	E. 578,882.8

BOTTOM HOLE

NAD'83 S.P.C.(FT)	N. 302,500.9	E. 1,798,269.2
NAD'83 GEO.	LAT-(N) 39.328962	LONG-(W) 80.101796
NAD'83 UTM (M)	N. 4,353,667.5	E. 577,416.2



(+) 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)	

SCALE 1" = 2000' 9111-Arsenal-SURV-Plat214ad-R00-220712-CPM.dwg FILE NO.

DATE JULY 14, 2022
 REVISED _____, 20____
 OPERATORS WELL NO. 214
 API WELL NO. 47-091-01365
 STATE COUNTY PERMIT

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



WELL OPERATOR ARSENAL RESOURCES
 ADDRESS 6031 WALLACE RD. EXT. SUITE 101
 WEXFORD, PA 15090

DESIGNATED AGENT GARY SHORT
 ADDRESS 633 WEST MAIN STREET
 BRIDGEPORT, WV 26330

COUNTY NAME PERMIT

03/31/2023

