

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

API 47 - 103 - 03615 County Wetzel District Green
Quad Pine Grove 7.5' Pad Name Cedar Field/Pool Name -----
Farm name Dallison Lumber Company Well Number Jiffy Unit 1H
Operator (as registered with the OOG) Antero Resources Corporation
Address 1615 Wynkoop Street City Denver State CO Zip 80202

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4379817.063m Easting 524590.780m
Landing Point of Curve Northing 4379567.94m Easting 524914.25m
Bottom Hole Northing 4375241.814m Easting 526426.916m

Elevation (ft) 1248' 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)
Air - Foam & 4% KCL

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Mud - Polymer
Date permit issued 10/4/2023 Date drilling commenced 11/1/2023 Date drilling ceased 1/9/2024
Date completion activities began 4/7/2024 Date completion activities ceased 6/28/2024
Verbal plugging (Y/N) N/A Date permission granted N/A Granted by N/A

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

Freshwater depth(s) ft 612' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 2193' Void(s) encountered (Y/N) depths No
Coal depth(s) ft 1010' Cavern(s) encountered (Y/N) depths No
Is coal being mined in area (Y/N) No

APPROVED
Reviewed by: [Signature]
01/17/2025

API 47- 103 - 03615 Farm name Dallison Lumber Company Well number Jiffy Unit 1H

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	28"	20"	130'	New	91.59#, J-55	N/A	Y
Surface	17-1/2"	13-3/8"	720'	New	54.5#, J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	3532'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4" /8-1/2"	5-1/2"	23207'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	7198'		4.7#, J-55		
Packer type and depth set		N/A					

Comment Details _____

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	Class A	209 sx	15.6	1.18	247	0'	8 Hrs.
Surface	Class C	690 sx	15.8	1.16	800	0'	8 Hrs.
Coal							
Intermediate 1	Class C	1515 sx	15.8	1.16	1757	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	4024 sx (Tail)	13.5 (Spacer), 15.2 (Lead)	1.30 (Tail)	5231	~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 23207' MD, 7193' TVD (BHL), 7194' TVD (Deepest Point Drilled) Loggers TD (ft) 23177' MD
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 6402'

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 _____
Conductor - 0
 Surface - 1 above guide shoe, 1 above insert float, 1 every 4th joint to surface
 Intermediate - 1 above float joint, 1 above float collar, 1 every 4th joint to surface
 Production - 1 above float joint, 1 below float collar, 1 every 3rd joint to top of cement

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WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____ WV Department of Environmental Protection

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED N/A

01/17/2025

API 47- 103 - 03615 Farm name Dallison Lumber Company Well number Jiffy Unit 1H

PRODUCING FORMATION(S)	DEPTHS		
Marcellus	7081' (TOP)	TVD	7361' (TOP) MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

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

OPEN FLOW Gas 18800.59 mcfd Oil 402.13 bpd NGL --- bpd Water 978.30 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)
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***PLEASE SEE ATTACHED EXHIBIT 3**

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Please insert additional pages as applicable.

Drilling Contractor H & P Drilling
Address 912 N Eagle Valley Rd City Howard State PA Zip 16841

Logging Company Nine Energy Services
Address 6500 West Fwy City Fort Worth State TX Zip 76116

Cementing Company Halliburton Energy Services
Address 3000 N Sam Houston Pkwy E City Houston State TX Zip 77032

Stimulating Company Halliburton
Address 3000 N Sam Houston Pkwy E. City Houston State TX Zip 77032

Please insert additional pages as applicable.

Completed by Stefan Gaspar Telephone 303-357-6959
Signature [Signature] Title Permitting Agent Date 10/1/24

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

[Signature]
01/17/2025

API 47-103-03615 Farm Name Dallison Lumber Company Well Number Jiffy Unit 1H

EXHIBIT 1					
Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	4/7/2024	23077	23033	33	Marcellus
2	4/7/2024	22994.63034	22829.7821	33	Marcellus
3	4/8/2024	22794.41239	22629.5641	33	Marcellus
4	4/8/2024	22594.19444	22429.3462	33	Marcellus
5	4/9/2024	22393.9765	22229.1282	33	Marcellus
6	4/9/2024	22193.75855	22028.9103	33	Marcellus
7	4/10/2024	21993.5406	21828.6923	33	Marcellus
8	4/10/2024	21793.32265	21628.4744	33	Marcellus
9	4/11/2024	21593.1047	21428.2564	33	Marcellus
10	4/11/2024	21392.88675	21228.0385	33	Marcellus
11	4/12/2024	21192.66888	21027.8205	33	Marcellus
12	4/12/2024	20992.45085	20827.6026	33	Marcellus
13	4/13/2024	20792.23291	20627.3846	33	Marcellus
14	4/13/2024	20592.01496	20427.1667	33	Marcellus
15	4/21/2024	20391.79701	20226.9487	33	Marcellus
16	4/21/2024	20191.57906	20026.7308	33	Marcellus
17	4/22/2024	19991.36111	19826.5128	33	Marcellus
18	4/23/2024	19791.14316	19626.2949	33	Marcellus
19	4/24/2024	19590.92521	19426.0769	33	Marcellus
20	4/25/2024	19390.70726	19225.859	33	Marcellus
21	4/26/2024	19190.48932	19025.641	33	Marcellus
22	4/27/2024	18990.27137	18825.4231	33	Marcellus
23	4/28/2024	18790.05342	18625.2051	33	Marcellus
24	4/29/2024	18589.83547	18424.9872	33	Marcellus
25	4/29/2024	18389.61752	18224.7692	33	Marcellus
26	4/30/2024	18189.39957	18024.5513	33	Marcellus
27	5/1/2024	17989.18162	17824.3333	33	Marcellus
28	5/2/2024	17788.96368	17624.1154	33	Marcellus
29	5/3/2024	17588.74573	17423.8974	33	Marcellus
30	5/4/2024	17388.52778	17223.6795	33	Marcellus
31	5/4/2024	17188.30983	17023.4615	33	Marcellus
32	5/5/2024	16988.09188	16823.2436	33	Marcellus
33	5/5/2024	16787.87393	16623.0256	33	Marcellus
34	5/6/2024	16587.65598	16422.8077	33	Marcellus
35	5/7/2024	16387.43803	16222.5897	33	Marcellus
36	5/7/2024	16187.22009	16022.3718	33	Marcellus
37	5/8/2024	15987.00214	15822.1538	33	Marcellus
38	5/8/2024	15786.78419	15621.9359	33	Marcellus
39	5/8/2024	15586.56624	15421.7179	33	Marcellus
40	5/9/2024	15386.34829	15221.5	33	Marcellus
41	5/9/2024	15186.13034	15021.2821	33	Marcellus
42	5/10/2024	14985.91239	14821.0641	33	Marcellus
43	5/10/2024	14785.69444	14620.8462	33	Marcellus
44	5/10/2024	14585.4765	14420.6282	33	Marcellus
45	5/11/2024	14385.25855	14220.4103	33	Marcellus
46	5/11/2024	14185.0406	14020.1923	33	Marcellus
47	5/12/2024	13984.82265	13819.9744	33	Marcellus
48	5/12/2024	13784.6047	13619.7564	33	Marcellus
49	5/12/2024	13584.38675	13419.5385	33	Marcellus
50	5/13/2024	13384.1688	13219.3205	33	Marcellus
51	5/13/2024	13183.95085	13019.1026	33	Marcellus
52	5/14/2024	12983.73291	12818.8846	33	Marcellus
53	5/14/2024	12783.51496	12618.6667	33	Marcellus
54	5/14/2024	12583.29701	12418.4487	33	Marcellus
55	5/15/2024	12383.07906	12218.2308	33	Marcellus
56	5/15/2024	12182.86111	12018.0128	33	Marcellus
57	5/15/2024	11982.64316	11817.7949	33	Marcellus
58	5/16/2024	11782.42521	11617.5769	33	Marcellus
59	5/16/2024	11582.20726	11417.359	33	Marcellus
60	5/17/2024	11381.98932	11217.141	33	Marcellus
61	5/17/2024	11181.77137	11016.9231	33	Marcellus
62	5/17/2024	10981.55342	10816.7051	33	Marcellus
63	5/18/2024	10781.33547	10616.4872	33	Marcellus
64	5/18/2024	10581.11752	10416.2692	33	Marcellus
65	5/19/2024	10380.89957	10216.0513	33	Marcellus
66	5/19/2024	10180.68162	10015.8333	33	Marcellus
67	5/19/2024	9980.463675	9815.61538	33	Marcellus
68	5/20/2024	9780.245726	9615.39744	33	Marcellus
69	5/20/2024	9580.027778	9415.17949	33	Marcellus
70	5/20/2024	9379.809829	9214.96154	33	Marcellus
71	5/21/2024	9179.59188	9014.74359	33	Marcellus
72	5/21/2024	8979.373932	8814.52564	33	Marcellus
73	5/21/2024	8779.155983	8614.30769	33	Marcellus
74	5/22/2024	8578.938034	8414.08974	33	Marcellus
75	5/22/2024	8378.720085	8213.87179	33	Marcellus
76	5/22/2024	8178.502137	8013.65385	33	Marcellus
77	5/23/2024	7978.284188	7813.4359	33	Marcellus
78	5/23/2024	7778.066239	7613.21795	33	Marcellus
79	5/24/2024	7577.848291	7413	33	Marcellus

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EXHIBIT 2

Stage No.	Stimulations Date	Avg Pump Rate	Avg Treatment Pressure (PSI)	max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbbls)	Amount of Nitrogen/ other (units)
1	4/7/2024	78.55622	9816.495	7972.45	3829.931	165960	4350.8571	N/A
2	4/7/2024	96.38159	10234.6	6707.69	4294.107	414560	6921.8333	N/A
3	4/8/2024	88.25349	9906.651	6581.86	4192.256	421700	7158.6905	N/A
4	4/8/2024	92.4679	10425.37	6661.44	4313.534	402750	6870.0952	N/A
5	4/9/2024	91.73216	10533.98	6765.98	4509.976	400070	6844.1667	N/A
6	4/9/2024	91.52944	10300.35	6447.13	4508.65	418760	7250.7619	N/A
7	4/10/2024	90.21146	10385.45	6862.18	4388.46	413180	7069.5238	N/A
8	4/10/2024	77.10533	10241.5	6797.29	4400.525	417330	10035.476	N/A
9	4/11/2024	77.58	9785	7049.16	4758.318	419240	10660	N/A
10	4/11/2024	89.65778	10478.43	6717.22	4374.419	416180	7701.9762	N/A
11	4/12/2024	86.62874	10232.3	6875.6	4279.652	419240	8047	N/A
12	4/12/2024	89.06	10448	7478.54	4424.841	410760	7628.8095	N/A
13	4/13/2024	90.12719	10374.22	6632.19	4083.782	420240	8724.2143	N/A
14	4/13/2024	87.78465	10207.06	7087.68	4332.929	414160	7688.3333	N/A
15	4/21/2024	91.84885	10003.21	7022.2	4667	417560	7787.8571	N/A
16	4/21/2024	92.94311	10590.46	7792.28	4146.476	422640	7254.2143	N/A
17	4/22/2024	85.79704	10443.55	7175.28	3917.264	415900	7628.3571	N/A
18	4/23/2024	91.11531	10584.58	7397.87	4418.703	417900	7136.9048	N/A
19	4/24/2024	89.67619	10325.23	6620.11	4117.545	418100	7207.4524	N/A
20	4/25/2024	87.20031	10474.22	7581.84	4031.768	422520	7302.5238	N/A
21	4/26/2024	93.87985	10478.38	6954.53	4253.378	419200	7203.8333	N/A
22	4/27/2024	96.39707	10502	6495.59	4314.314	417940	7254.3095	N/A
23	4/28/2024	76.41487	10073.67	6798.82	4451.567	401270	12570.405	N/A
24	4/29/2024	94.84014	10398.63	6964.54	4413.415	419940	7973.5714	N/A
25	4/29/2024	91.12917	9769.881	6772.98	4475.557	415840	7690.8095	N/A
26	4/30/2024	91.10936	9935.103	7254.68	4203	419540	7501.2857	N/A
27	5/1/2024	83.6756	9724.471	6758.31	4286	437240	11607.095	N/A
28	5/2/2024	78.9073	9710.179	7180.4	4437	418640	9184.1667	N/A
29	5/3/2024	95.19783	9962.576	6815.91	4273	421640	7518.8571	N/A
30	5/4/2024	93.28393	10189.33	6650.17	4085.922	420540	7413.0476	N/A
31	5/4/2024	74.81697	8857.816	6980.12	5075.888	421540	8978.4524	N/A
32	5/5/2024	87.72708	9415.827	6081.29	4327.133	418640	7598.6667	N/A
33	5/5/2024	89.0567	9085.019	6537.43	4347.287	414060	7614.0714	N/A
34	5/6/2024	92.07813	9739.959	6682.08	4681	412740	7420.9286	N/A
35	5/7/2024	90.05707	9031.513	6651.53	4425.285	417100	7334.4048	N/A
36	5/7/2024	56.22204	7257.682	6557.21	4118	226434	5000.2381	N/A
37	5/8/2024	90.7377	9413.886	7026.62	4146.488	422340	7935.4762	N/A
38	5/8/2024	92.43987	9274.064	6725.61	4239	421860	7228.2857	N/A
39	5/8/2024	95.83929	9235.552	6864.02	4329.834	412100	7349.7381	N/A
40	5/9/2024	95.16445	9078.965	6538.88	4812	400950	7121.2619	N/A
41	5/9/2024	91.43125	8934.476	8105.8	4471.59	415540	7363.8571	N/A
42	5/10/2024	96.44951	9070.733	6920.92	4259.012	397950	7340.5476	N/A
43	5/10/2024	96.75136	9020.797	6880.24	4523	419560	7373.0714	N/A
44	5/10/2024	96.86149	9008.729	6932.94	4282.768	417880	7239.1905	N/A
45	5/11/2024	96.37005	8903.86	6422.29	4713	398400	7146.4762	N/A
46	5/11/2024	94.99059	8866.702	6764.6	4592.851	399900	7041.4524	N/A
47	5/12/2024	96.24124	8881.803	6863.92	4701.731	401010	6982.619	N/A
48	5/12/2024	95.18088	8845.808	6315.67	4408	415180	7398.2143	N/A
49	5/12/2024	97.01654	8833.828	6945.6	4428.685	419580	7186.7857	N/A
50	5/13/2024	96.40097	8944.183	7148.59	4319	395380	6903.6667	N/A
51	5/13/2024	95.84114	8592.462	6148.26	4313	402720	7206.6905	N/A
52	5/14/2024	97.49041	8845.062	6781.94	4313.992	411960	7279.4762	N/A
53	5/14/2024	96.83231	8601.013	6674.11	4226.188	400560	7104.9286	N/A
54	5/14/2024	96.98924	8580.589	6579.46	4503.452	418360	7496.6905	N/A
55	5/15/2024	96.26811	8721.28	6462.78	4207.049	426140	7378.381	N/A
56	5/15/2024	96.75894	8769.201	6386.17	4164.658	414200	7109.4524	N/A
57	5/15/2024	97.14473	8223.445	6257.17	4411.89	425920	7236.7381	N/A
58	5/16/2024	97.17407	8532.828	6223	4352.213	413460	7234.2857	N/A
59	5/16/2024	96.8685	8332.06	6570.11	3993.67	416180	7240.1429	N/A
60	5/17/2024	97.05445	8621.23	7236.65	4121	420040	7261.8571	N/A
61	5/17/2024	97.91357	8198.959	5872.53	4056.283	420400	7252.1429	N/A
62	5/17/2024	98.49987	8268.737	6455.3	3922.625	424140	7355.7619	N/A
63	5/18/2024	96.84573	8071.039	5796.47	4356.111	422640	7682.4524	N/A
64	5/18/2024	97.99766	8173.286	6003.95	4236.385	410300	7200.7857	N/A
65	5/19/2024	96.79215	8036.704	6734.72	4020.95	416900	7127.881	N/A
66	5/19/2024	97.89509	8131.746	6231.66	4265	414020	7365.8571	N/A
67	5/19/2024	98.15965	7934.175	5703.15	3950.433	417640	6969.9286	N/A
68	5/20/2024	98.20043	7978.182	6266.03	4286	418940	7288.619	N/A
69	5/20/2024	97.85575	7786.63	5980.65	4363	418460	6994.0476	N/A
70	5/20/2024	97.46466	8086.971	5996.33	4048.596	418740	7074.5238	N/A
71	5/21/2024	97.01509	7897.697	6023.81	4139	413180	6851.0952	N/A
72	5/21/2024	97.48201	7889.138	6792.28	4091	415340	6995.2381	N/A
73	5/21/2024	95.87177	7691.937	7337.55	4528	424120	6844.2619	N/A
74	5/22/2024	97.85038	8077.607	7442.44	4115	419480	6956.9524	N/A
75	5/22/2024	97.4631	7523.437	6501.52	4121	420520	7095.0952	N/A
76	5/22/2024	99.83876	7544.832	5919.98	3922.914	413080	6989.2143	N/A
77	5/23/2024	97.87862	7814.276	6523.16	3874	421540	6877.2857	N/A
78	5/23/2024	96.29549	7565.38	5953.27	4031.119	415100	6962.6667	N/A
79	5/24/2024	97.9689	7787.205	7351.36	4134.17	424080	6770.5238	N/A
	AVERAGE	92.5	9,146	6,722	4,297	32,406,844	589,947	0

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EXHIBIT 3

LITHOLOGY/ FORMATION	TOP DEPTH (TVD)	BOTTOM DEPTH (TVD)	TOP DEPTH (MD)	BOTTOM DEPTH (MD)
	From Surface	From Surface	From Surface	From Surface
Sandy Siltstone, LS	100	320	100	320
Shaley Siltstone, tr LS	320	370	320	370
Sandy Shale	370	620	370	620
Siltstone, Occ SS, tr Shale, tr Coal	470	820	470	820
Sandy Siltstone, tr LS, tr Shale	620	820	620	820
Silty Sandstone, tr LS	820	920	820	920
Sandy Siltstone, tr LS, tr Shale	920	1,020	920	1,020
Silty Sandstone, tr Shale	1,020	1,120	1,020	1,120
Silty Sandstone, tr Shale, tr LS	1,120	1,220	1,120	1,220
Shaley Sandstone, occ Siltstone	1,220	1,420	1,220	1,420
Silty Sandstone, tr shale	1,420	1,520	1,420	1,520
Sandy Siltstone, tr Coal	1,520	1,670	1,520	1,670
Siltly Sandstone, tr Coal, tr Shale	1,670	1,870	1,670	1,870
Sandy Shale, tr Coal	1,870	2,020	1,870	2,020
Silty Sandstone, rr Coal	2,020	2,164	2,020	2,175
Big Lime	2,194	2,997	2,175	3,017
Fifty Foot Sandstone	2,997	3,067	2,987	3,088
Gordon	3,067	3,307	3,058	3,330
Fifth Sandstone	3,307	3,651	3,300	3,676
Bayard	3,651	4,020	3,646	4,050
Speechley	4,020	4,175	4,020	4,206
Balltown	4,175	4,658	4,176	4,695
Bradford	4,658	5,255	4,665	5,297
Benson	5,255	5,693	5,267	5,738
Alexander	5,693	6,896	5,708	6,986
Sycamore	6,735	6,866	6,798	6,956
Middlesex	6,866	6,965	6,956	7,101
Burkett	6,965	6,995	7,101	7,153
Tully	6995	7081	7153	7361
Marcellus	7081	NA	7361	NA

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OCT 02 2024

WV Department of
Environmental Protection

01/17/2025

Antero Resources
Well No. Jiffy 1H
As-Drilled
Antero Resources Corporation

Page 1 of 2

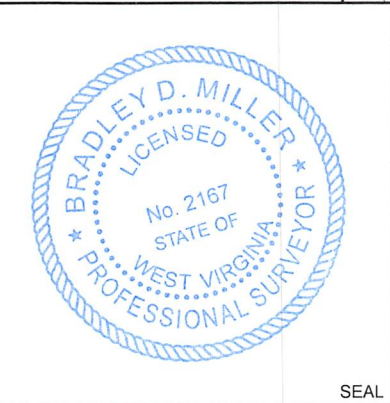
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 Well No. Jiffy
 Unit 1H



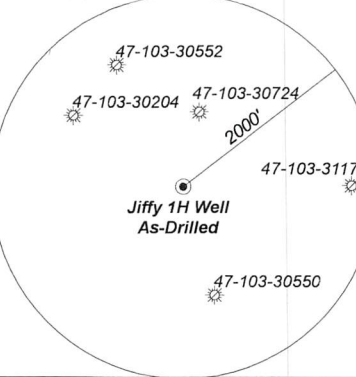
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Bradley D. Miller
 Bradley D. Miller, P.S. 2167



Note: 0 water wells were found within 2000' of proposed well. No occupied dwellings or buildings 2,500 square feet or larger used to house or shelter dairy cattle or poultry husbandry are located within 625' of the center of the well pad.



	Bearing	Dist.
L1	N 83°23' E	1,609.5'
L2	N 46°06' W	2,725.1'
L3	N 08°02' W	2,509.2'
L4	N 16°48' E	2,439.2'

- Legend**
- Proposed gas well
 - Monument, as noted
 - Existing Well, as noted
 - Digitized Well, as noted
 - Creek or Drain
 - Road
 - Railroad
 - Surface boundary (approx.)
 - Interior surface tracts (approx.)

7,343' to Bottom Hole

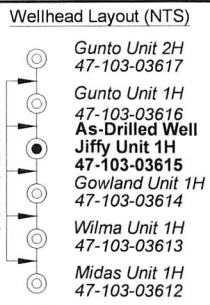
1,567' to Top Hole

TOP HOLE LATITUDE 39 - 35 - 00
 BTM HOLE LATITUDE 39 - 32 - 30

Notes
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements. Well No. Jiffy Unit 1H Top Hole coordinates are N: 391,161.66' Longitude: 80°42'50.02" E: 1,657,798.36' Longitude: 80°41'33.71" UTM Zone 17, NAD 1983
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 Plat orientation and corner and well references are based upon the grid north meridian. Well location references are based upon the magnetic meridian.

TOP HOLE LONGITUDE 80 - 42 - 30
 BTM HOLE LONGITUDE 80 - 40 - 00
 5,724' to Top Hole
 5,583' to Bottom Hole

Notes:
 Well No. Jiffy Unit 1H As-Drilled POE Coordinates WV Coordinate System of 1927, North Zone N: 391,070.16' E: 1,658,664.43' Longitude: 39°34'02.64" UTM Zone 17, NAD 1983 N: 4,379,793.598m E: 524,855.104m



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

FILE NO: 232-34-G-23
 DRAWING NO: Jiffy 1H As-Drilled Plat
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: Submeter
 PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

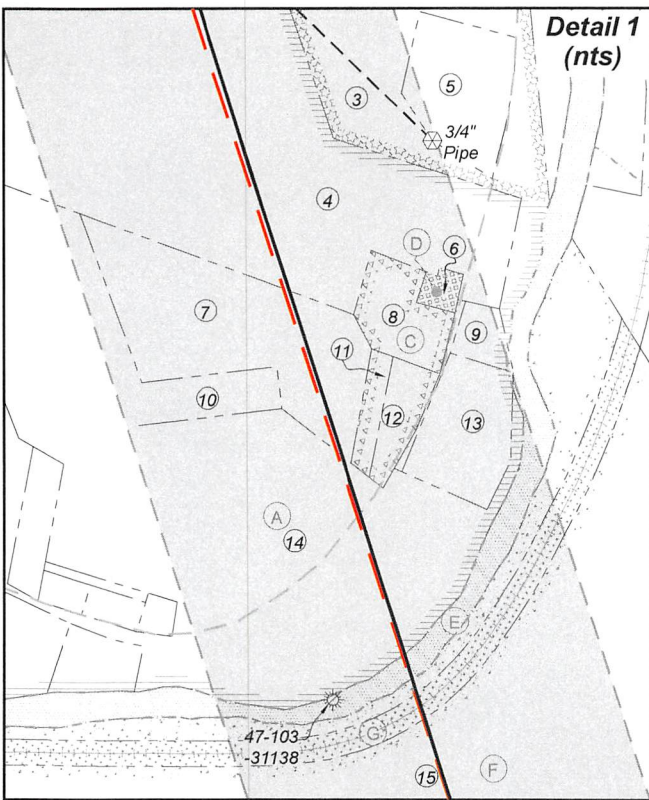
DATE: September 9 20 24
 OPERATOR'S WELL NO. Jiffy 1H
 API WELL NO
47 - 103 - 03615
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 LOCATION: ELEVATION: As-Built: 1,248' WATERSHED: Fishing Creek QUADRANGLE: Pine Grove
 DISTRICT: Green Dallison Lumber COMPANY: Wetz COUNTY: Wetz DATE: 01/17/2025
 SURFACE OWNER: Company ACREAGE: 51.5
 ROYALTY OWNER: Jenkins Miller LEASE NO: _____ ACREAGE: 200
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 7,193' TVD
23,207' MD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Kevin Ellis
 ADDRESS: 1615 Wynkoop Street ADDRESS: 535 White Oaks Blvd
Denver, CO 80202 Bridgeport, WV 26330



Leases	
A	Jenkins Miller
B	Eddie D. Dallison
C	J.B. Holtzclaw
D	Albert J. Moore, et ux, et al
E	WVDNR
F	Coastal Forest Resources Co.
G	CSX Transportation, Inc.
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O	Tribune Resources Minerals, LLC
P	Clay D.C. Dallison, et al



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2	13-40	Kenneth E. & Vicky A. VanDyne	357/204	42.33
3	14-20	Dallison Lumber Co.	357/270	109.91
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5	14-20.1	David A. Burtrand, et al	435/879	2.00
6	14-44	Barbara Jo Leek, et al	360/141	0.25
7	14-42	Karen King, et al	WB96/811	2.87
8	14-43	Melvin G. Leek	397/499	0.60
9	14-63	Melvin G. Leek	397/499	0.50
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21	17-41	Heartland Forest Land Fund VII, LP	431/936	0.94
22	18-6	Barbara D. Cunningham	291/112	56.80
23	17-51	Linda K. Ice & Harry G. Witcherman Jr.	WB66/545	156.00
24	18-8	Linda K. Ice & Harry G. Wichterman Jr.	W66/545	23.40
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 Submeter
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STATE OF WEST VIRGINIA
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 47 - 103 - 03615
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Antero Resources
Well No. Jiffy 1H
As-Drilled
Antero Resources Corporation

Page 1 of 2

As-Drilled
 Well No. Jiffy
 Unit 1H



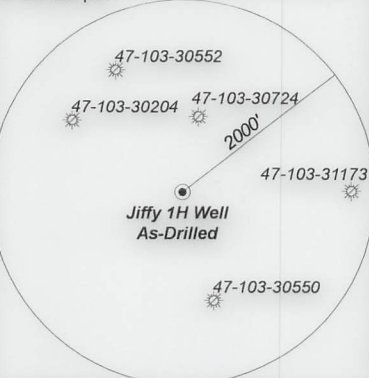
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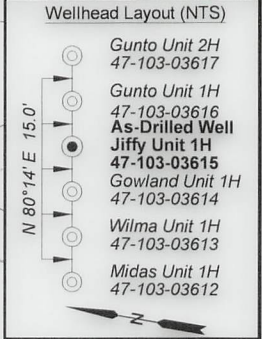
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 DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

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DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: September 9 2024
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API WELL NO
47 - 103 - 03615
STATE COUNTY PERMIT

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	04/07/2024
Job End Date:	05/24/2024
State:	West Virginia
County:	Wetzel
API Number:	47-103-03615-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	JIFFY 1H
Latitude:	39.567699
Longitude:	-80.713712
Datum:	WGS84
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7194
Total Base Water Volume (gal)*:	25765046.06
Total Base Non Water Volume:	0



Water Source	Percent
Produced Water	100.00%

Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Excelerate LX-21	Halliburton	Friction Reducer					
FDP-S1470-23	Halliburton	Friction Reducer					
FE-2A	Halliburton	Additive					
FLUID Enviro-Syn HCR-7000-WL	Fluid Energy Group	Acid Replacement					
HAI-501	Halliburton	Acid Corrosion Inhibitor					
HYDROCHLORIC ACID, 22 BAUME	Halliburton	Solvent					
MC B-8123	MultiChem	Biocide					
OPTIFLO-II DELAYED RELEASE BREAKER	Halliburton	Breaker					
Produced Water (Density 10.0)	Operator	Base Fluid					

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Sand-Common White-100 Mesh, SSA-2	Halliburton	Proppant					
WG-36 GELLING AGENT	Halliburton	Gelling Agent					
Items above are Trade Names. Items below are the individual ingredients.							
			Water	7732-18-5	100.00000	88.60266	None
			Crystalline silica, quartz	14808-60-7	100.00000	11.14506	None
			Water	7732-18-5	100.00000	0.15497	None
			Hydrochloric acid	7647-01-0	30.00000	0.03708	None
			Complex amine compound	Proprietary	60.00000	0.02352	None
			Proprietary	Proprietary	20.00000	0.01700	None
			Guar gum	9000-30-0	100.00000	0.01546	None
			Hydrotreated distillate	Proprietary	30.00000	0.01176	None
			Ethanaminium, N,N,N-trimethyl-2-(1- oxo-2-propen-1- yl)oxy-, chloride (1:1), polymer with 2- propenamide	69418-26-4	60.00000	0.00598	None
			Hydrotreated light petroleum distillates	64742-47-8	30.00000	0.00299	None
			Ammonium chloride	12125-02-9	5.00000	0.00246	None
			Glutaraldehyde	111-30-8	30.00000	0.00208	None
			Ethoxylated alcohol	Proprietary	5.00000	0.00196	None
			Fatty nitrogen derived amides	Proprietary	5.00000	0.00196	None
			Amides, tall-oil fatty, N,N-bis(hydroxyethyl)	68155-20-4	5.00000	0.00050	None
			Ethoxylated branched C13 alcohol	78330-21-9	5.00000	0.00050	None
			Sorbitan, mono-9- octadecenoate, (Z)	1338-43-8	1.00000	0.00049	None
			Sorbitan monooleate polyoxyethylene derivative	9005-65-6	1.00000	0.00049	None
			Quaternary ammonium compounds, benzyl- C12-16-alkyldimethyl, chlorides	68424-85-1	5.00000	0.00035	None
			Ammonium persulfate	7727-54-0	100.00000	0.00025	None
			Methanol	67-56-1	100.00000	0.00023	None
			Citric acid	77-92-9	60.00000	0.00008	None

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			Oxylated phenolic resin	Proprietary	30.00000	0.00008	None
			Mixture of dimer and trimer fatty acids of indefinite composition derived from tall oil	61790-12-3	30.00000	0.00007	None
			Modified thiourea polymer	Proprietary	30.00000	0.00007	None
			Propargyl alcohol	107-19-7	5.00000	0.00001	None
			Hexadecene	629-73-2	5.00000	0.00001	None
			Ethoxylated alcohols	Proprietary	5.00000	0.00001	None
			C.I. pigment Orange 5	3468-63-1	1.00000	0.00000	None

* Total Water Volume sources may include various types of water including fresh water, produced water, and recycled water

** Information is based on the maximum potential for concentration and thus the total may be over 100%

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.

Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

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