

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

API 47-085-10550 County Ritchie District Union
Quad Pullman 7.5' Pad Name Minear Field/Pool Name -----
Farm name Louis Daniel Easterday Revocable Living Trust Well Number Autumn 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 4338895m Easting 503612m
Landing Point of Curve Northing 4338777m Easting 503123m
Bottom Hole Northing 4343235m Easting 501610m

Elevation (ft) 1097' 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
Mud - Polymer

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Date permit issued 3/13/2025 Date drilling commenced 4/13/2025 Date drilling ceased 7/3/2025
Date completion activities began 8/19/2025 Date completion activities ceased 10/13/2025
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 757' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 1522' Void(s) encountered (Y/N) depths No
Coal depth(s) ft N/A Cavern(s) encountered (Y/N) depths No
Is coal being mined in area (Y/N) No

Reviewed

Reviewed by:

G.N.
03/04/2026

WR-35
Rev. 8/23/13

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API 47- 085 - 10550 Farm name Louis Daniel Easterday Revocable Living Trust Well number Autumn 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"	125.5'	New	94#, J-55	N/A	Y
Surface	17-1/2"	13-3/8"	874'	New	54.5#, J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	3365'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	22486'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	6630'		4.7#, P-110		
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	243 sx	15.6	1.18	287	0'	8 Hrs.
Surface	Class A	704 sx	15.6	1.19	838	0'	8 Hrs.
Coal							
Intermediate 1	Class A	1121 sx	15.6	1.18	1323	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	4100 sx (Tail)	13.5 (Spacer), 15.2(Tail)	1.26 (Tail)	5166	~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 22,486' MD, 6,377' TVD (BHL), 6,377' TVD (Deepest Point Drilled) Loggers TD (ft) 21,456' MD

Deepest formation penetrated Marcellus Plug back to (ft) N/A

Plug back procedure N/A

Kick off depth (ft) 5,820'

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

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 N/A

09/04/2026
8-12-2026

Well number Autumn Unit 1H

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)

[illegible][illegible][illegible]

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API 47- 085 - 10550 Farm name Louis Daniel Easterday Revocable Living Trust Well number Autumn Unit 1H

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	Oil	NGL	Water	GAS MEASURED BY		
	17,078.26 mcfpd	241.89 bpd	---	943.32 bpd	☐ Estimated	☒ Orifice	☐ Pilot

[illegible]

***PLEASE SEE ATTACHED EXHIBIT 3**

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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	SLB						
Address	5599 San Felipe St	City	Houston	State	TX	Zip	77056

Stimulating Company NexTier
Address 1650 Hackers Creek Rd City Jane Lew State WV Zip 26378

Completed by Stefan Gaspar Telephone 303-357-6959
Signature _____ Title Permitting Agent Date _____

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

09/04/2026

API 47-085-10550 Farm Name <u>Louis Daniel Easterday Revocable Living Trust</u> Well Number <u>Autumn Unit 1H</u>					
EXHIBIT 1					
Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	8/19/2025	22410	22435	36	Marcellus
2	8/19/2025	22210.62821	22378.7714	36	Marcellus
3	8/20/2025	22011.25641	22179.3996	36	Marcellus
4	8/20/2025	21811.88462	21980.0278	36	Marcellus
5	8/20/2025	21612.51282	21780.656	36	Marcellus
6	8/21/2025	21413.14103	21581.2842	36	Marcellus
7	8/21/2025	21213.76923	21381.9124	36	Marcellus
8	8/22/2025	21014.39744	21182.5406	36	Marcellus
9	8/22/2025	20815.02564	20983.1688	36	Marcellus
10	8/23/2025	20615.65385	20783.797	36	Marcellus
11	8/23/2025	20416.28205	20584.4252	36	Marcellus
12	8/24/2025	20216.91026	20385.0534	36	Marcellus
13	8/24/2025	20017.53846	20185.6816	36	Marcellus
14	8/24/2025	19818.16667	19986.3098	36	Marcellus
15	8/25/2025	19618.79487	19786.938	36	Marcellus
16	8/25/2025	19419.42308	19587.5662	36	Marcellus
17	8/26/2025	19220.05128	19388.1944	36	Marcellus
18	8/26/2025	19020.67949	19188.8226	36	Marcellus
19	8/26/2025	18821.30769	18989.4509	36	Marcellus
20	8/27/2025	18621.9359	18790.0791	36	Marcellus
21	8/27/2025	18422.5641	18590.7073	36	Marcellus
22	8/28/2025	18223.19231	18391.3355	36	Marcellus
23	8/28/2025	18023.82051	18191.9637	36	Marcellus
24	8/28/2025	17824.44872	17992.5919	36	Marcellus
25	8/29/2025	17625.07692	17793.2201	36	Marcellus
26	8/29/2025	17425.70513	17593.8483	36	Marcellus
27	8/29/2025	17226.33333	17394.4765	36	Marcellus
28	8/30/2025	17026.96154	17195.1047	36	Marcellus
29	8/30/2025	16827.58974	16995.7329	36	Marcellus
30	8/30/2025	16628.21795	16796.3611	36	Marcellus
31	8/31/2025	16428.84615	16596.9893	36	Marcellus
32	8/31/2025	16229.47436	16397.6175	36	Marcellus
33	9/1/2025	16030.10256	16198.2457	36	Marcellus
34	9/1/2025	15830.73077	15998.8739	36	Marcellus
35	9/1/2025	15631.35897	15799.5021	36	Marcellus
36	9/2/2025	15431.98718	15600.1303	36	Marcellus
37	9/2/2025	15232.61538	15400.7585	36	Marcellus
38	9/2/2025	15033.24359	15201.3868	36	Marcellus
39	9/3/2025	14833.87179	15002.015	36	Marcellus
40	9/3/2025	14634.5	14802.6432	36	Marcellus
41	9/3/2025	14435.12821	14603.2714	36	Marcellus
42	9/4/2025	14235.75641	14403.8996	36	Marcellus
43	9/4/2025	14036.38462	14204.5278	36	Marcellus
44	9/5/2025	13837.01282	14005.156	36	Marcellus
45	9/5/2025	13637.64103	13805.7842	36	Marcellus
46	9/5/2025	13438.26923	13606.4124	36	Marcellus
47	9/6/2025	13238.89744	13407.0406	36	Marcellus
48	9/6/2025	13039.52564	13207.6688	36	Marcellus
49	9/6/2025	12840.15385	13008.297	36	Marcellus
50	9/7/2025	12640.78205	12808.9252	36	Marcellus
51	9/7/2025	12441.41026	12609.5534	36	Marcellus
52	9/7/2025	12242.03846	12410.1816	36	Marcellus
53	9/8/2025	12042.66667	12210.8098	36	Marcellus
54	9/8/2025	11843.29487	12011.438	36	Marcellus
55	9/9/2025	11643.92308	11812.0662	36	Marcellus
56	9/9/2025	11444.55128	11612.6944	36	Marcellus
57	9/9/2025	11245.17949	11413.3226	36	Marcellus
58	9/10/2025	11045.80769	11213.9509	36	Marcellus
59	9/10/2025	10846.4359	11014.5791	36	Marcellus
60	9/10/2025	10647.0641	10815.2073	36	Marcellus
61	9/11/2025	10447.69231	10615.8355	36	Marcellus
62	9/11/2025	10248.32051	10416.4637	36	Marcellus
63	9/12/2025	10048.94872	10217.0919	36	Marcellus
64	9/12/2025	9849.576923	10017.7201	36	Marcellus
65	9/12/2025	9650.205128	9818.34829	36	Marcellus
66	9/13/2025	9450.833333	9618.9765	36	Marcellus
67	9/13/2025	9251.461538	9419.6047	36	Marcellus
68	9/13/2025	9052.089744	9220.23291	36	Marcellus
69	9/14/2025	8852.717949	9020.86111	36	Marcellus
70	9/14/2025	8653.346154	8821.48932	36	Marcellus
71	9/14/2025	8453.974359	8622.11752	36	Marcellus
72	9/15/2025	8254.602564	8422.74573	36	Marcellus
73	9/15/2025	8055.230769	8223.37393	36	Marcellus
74	9/16/2025	7855.858974	8024.00214	36	Marcellus
75	9/16/2025	7656.487179	7824.63034	36	Marcellus
76	9/16/2025	7457.115385	7625.25855	36	Marcellus
77	9/17/2025	7257.74359	7425.88675	36	Marcellus
78	9/17/2025	7058.371795	7226.51496	36	Marcellus
79	9/17/2025	6859	7027.14316	36	Marcellus

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API 47-085-10550 Farm Name Louis Daniel Easterday Revocable Living Trust, Well Number Autumn Unit 1H								
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 (bbls)	Amount of Nitrogen/ other (units)
1	8/19/2025	82.4	9421	7207	3682	132980	3724.7619	N/A
2	8/19/2025	82.7	10019	7257	4599	405440	7276.1905	N/A
3	8/20/2025	96.2	10313	4367	4043	409440	7266.6667	N/A
4	8/20/2025	99.8	10626	6527	4240	410700	7261.9048	N/A
5	8/20/2025	95.8	10248	6276	4547	412240	7252.381	N/A
6	8/21/2025	97.4	10400	6446	3263	415960	7242.8571	N/A
7	8/21/2025	95.8	10184	5087	4281	415220	7233.3333	N/A
8	8/22/2025	96	10282	5837	3299	418400	7223.8095	N/A
9	8/22/2025	95.8	10238	3173	4195	409420	7219.0476	N/A
10	8/23/2025	95.5	10222	6753	3540	409720	7209.5238	N/A
11	8/23/2025	96.6	10376	5239	3617	412500	7200	N/A
12	8/24/2025	95.3	9843	5155	4410	414420	7190.4762	N/A
13	8/24/2025	96.8	10087	6898	3510	410820	7185.7143	N/A
14	8/24/2025	87.6	9896	5779	4386	415900	7176.1905	N/A
15	8/25/2025	98.8	10260	6178	4083	415280	7166.6667	N/A
16	8/25/2025	99.8	10552	4811	4455	410540	7157.1429	N/A
17	8/26/2025	97.8	10045	5267	4621	412640	7150	N/A
18	8/26/2025	96.7	9964	6357	4013	409880	7142.8571	N/A
19	8/26/2025	97.4	10279	4475	4280	416300	7133.3333	N/A
20	8/27/2025	97.5	9997	5698	4376	405600	7123.8095	N/A
21	8/27/2025	93	9823	5235	4754	403220	7114.2857	N/A
22	8/28/2025	97.3	9253	5748	4061	410360	7109.5238	N/A
23	8/28/2025	96.6	9448	7387	3979	409260	7100	N/A
24	8/28/2025	95.9	10208	3835	4347	408740	7090.4762	N/A
25	8/29/2025	87.1	9438	6082	3632	410280	7080.9524	N/A
26	8/29/2025	95	9994	7242	3928	410680	7076.1905	N/A
27	8/29/2025	96.6	10107	6401	3686	418260	7066.6667	N/A
28	8/30/2025	96.6	9643	7162	4109	413420	7057.1429	N/A
29	8/30/2025	88.4	9386	4972	3294	413720	7047.619	N/A
30	8/30/2025	95.4	10047	6043	4056	409300	7038.0952	N/A
31	8/31/2025	96.5	9867	6491	3721	406800	7033.3333	N/A
32	8/31/2025	96.8	9572	6515	3597	413100	7023.8095	N/A
33	9/1/2025	97.5	9681	6068	3759	408800	7014.2857	N/A
34	9/1/2025	92.8	9276	4359	3295	410580	7004.7619	N/A
35	9/1/2025	97.2	9538	4307	3931	409300	7000	N/A
36	9/2/2025	96.3	9621	6662	4099	411260	6990.4762	N/A
37	9/2/2025	96.4	9534	4258	3802	412420	6980.9524	N/A
38	9/2/2025	98.3	9352	5120	4170	415720	6971.4286	N/A
39	9/3/2025	97	9114	7019	4077	414680	6961.9048	N/A
40	9/3/2025	95.6	9341	3529	3990	397120	6957.1429	N/A
41	9/3/2025	95.6	9722	5858	3712	417000	6947.619	N/A
42	9/4/2025	97.7	9013	4535	3417	410540	6938.0952	N/A
43	9/4/2025	97.7	9597	5445	4052	413520	6928.5714	N/A
44	9/5/2025	97.1	8774	7061	3748	409580	6923.8095	N/A
45	9/5/2025	97.1	8272	4856	3817	405780	6914.2857	N/A
46	9/5/2025	97.5	8587	4604	3980	409760	6904.7619	N/A
47	9/6/2025	98.5	8654	6067	3860	409980	6895.2381	N/A
48	9/6/2025	96.3	8668	4476	3902	415740	6888.0952	N/A
49	9/6/2025	97.4	8374	5751	3612	409460	6880.9524	N/A
50	9/7/2025	98	8353	6378	3602	412140	6871.4286	N/A
51	9/7/2025	96.7	8180	4358	3783	413360	6861.9048	N/A
52	9/7/2025	97.6	7935	6047	3638	408580	6852.381	N/A
53	9/8/2025	97.8	7894	4350	3864	411560	6847.619	N/A
54	9/8/2025	97.9	8255	6201	3595	410360	6838.0952	N/A
55	9/9/2025	98	8069	6129	3636	405820	6828.5714	N/A
56	9/9/2025	97.6	8018	4797	3814	407940	6821.4286	N/A
57	9/9/2025	97.3	8163	6097	2873	418000	6819.0476	N/A
58	9/10/2025	98.7	8127	5521	3617	410880	6814.2857	N/A
59	9/10/2025	95.8	8411	5443	4254	413160	6809.5238	N/A
60	9/10/2025	97.6	8403	6189	3127	411420	6804.7619	N/A
61	9/11/2025	89.3	8336	5729	4145	414180	6800	N/A
62	9/11/2025	97.2	7562	5081	3733	412100	6797.619	N/A
63	9/12/2025	96.5	7773	4562	3408	402160	6792.8571	N/A
64	9/12/2025	97.5	7946	6602	3777	408160	6788.0952	N/A
65	9/12/2025	96.3	7986	5771	3550	414840	6783.3333	N/A
66	9/13/2025	96.8	7932	4568	4041	410420	6780.9524	N/A
67	9/13/2025	97.8	7955	5867	3563	415520	6776.1905	N/A
68	9/13/2025	95.5	8104	4357	3605	409520	6771.4286	N/A
69	9/14/2025	98.3	7637	5579	4238	411660	6766.6667	N/A
70	9/14/2025	97.8	7587	5662	3944	413580	6761.9048	N/A
71	9/14/2025	98.8	8020	4975	3535	416740	6759.5238	N/A
72	9/15/2025	98	7613	7348	3324	415660	6754.7619	N/A
73	9/15/2025	96.8	7696	7166	3606	416300	6750	N/A
74	9/16/2025	97.1	7246	3563	3385	421340	6745.2381	N/A
75	9/16/2025	97.1	7170	4763	3708	411020	6742.8571	N/A
76	9/16/2025	98.5	7176	5301	3335	410230	6738.0952	N/A
77	9/17/2025	98	8281	4411	3140	418440	6733.3333	N/A
78	9/17/2025	96.5	8191	5218	3658	400020	6728.5714	N/A
79	9/17/2025	93.5	8292	5792	3408	412800	6726.1905	N/A
AVERAGE		96.1	9,031	5,591	3,832	32,229,690	547,144	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
Claystone, com SS, tr Sltst	874	924	874	924
Claystone, occ LS, rr Sltst	924	1,024	924	1,024
Sandstone, occ Sltst, rr Coal, tr LS	1,024	1,124	1,024	1,124
Sandstone, tr Sltst, tr Coal	1,074	1,174	1,074	1,174
Sandstone, occ Sltst, tr Coal	1,124	1,174	1,124	1,174
Sandstone, com Sltst, tr Shale	1,174	1,224	1,174	1,224
Sandstone, com Sltst	1,224	1,274	1,224	1,274
Sandstone, tr Sltst	1,274	1,424	1,274	1,424
Siltstone, occ Sandstone	1,424	1,524	1,424	1,524
Siltstone, occ Shale, tr Sandstone	1,524	1,574	1,524	1,574
Siltstone, occ Shale, tr coal, tr SS	1,574	1,674	1,574	1,674
Sandstone, tr Shale	1,674	1,724	1,674	1,724
Sandstone, tr Siltstone	1,724	1,824	1,724	1,824
Sandstone, Siltstone	1,824	1,924	1,824	1,924
Limestone, Silty Sandstone	1,924	1,907	1,924	1,932
Big Lime	1,933	2,654	1,932	2,729
Fifty Foot Sandstone	2,654	2,698	2,703	2,777
Gordon	2,698	2,905	2,751	2,996
Fifth Sandstone	2,905	3,344	2,970	3,463
Bayard	3,344	3,842	3,437	3,993
Speechley	3,842	4,102	3,967	4,269
Balltown	4,102	4,538	4,243	4,734
Bradford	4,538	4,854	4,708	5,072
Benson	4,854	5,118	5,046	5,353
Alexander	5,118	6,156	5,327	6,513
Sycamore	5984	6130	6288	6487
Middlesex	6130	6230	6487	6671
Burkett	6230	6260	6671	6748
Tully	6260	6281	6748	6813
Marcellus	6281	NA	6813	NA

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	08/19/2025
Job End Date:	09/17/2025
State:	West Virginia
County:	Ritchie
API Number:	47-085-10550-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Autumn Unit 1H
Latitude:	39.199314
Longitude:	-80.958173
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6329
Total Base Water Volume (gal)*:	24186204
Total Base Non Water Volume:	0



Water Source	Percent
Groundwater, < 1000TDS	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
100 mesh sand	NexTier Completions Solutions	Propping Agent					
15% HCl	Tarquin	Acid					
BELE LT Breaker	Chemstream	Breaker					
CIA-12	NexTier Completions Solutions	Acid corrosion inhibitor					
Clearal 268A	Chemstream	Biocide					
CoilSTREAM VB 625	Chemstream	Visc. Builder					
Other Chemical(s)	Listed Above	See Trade Name(s)					
StimSTEAM FR 2800	Chemstream	Friction Reducer					
StimSTREAM FR 9800	Chemstream	Friction Reducer					

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Water	Operator	Carrier Fluid					
Items above are Trade Names. Items below are the individual ingredients.							
			Water	7732-18-5	100.00000	85.85768	
			Crystalline Silica	14808-60-7	99.90000	13.74328	
			Water	7732-18-5	85.00000	0.26972	
			Hydrochloric Acid	7647-01-0	15.00000	0.04760	
			Aluminum Oxide	1344-28-1	0.10000	0.01376	
			Hydrotreated light distillates	64742-47-8	25.00000	0.00785	
			Water	7732-18-5	90.00000	0.00729	
			Acrylamide-Chloride Salt of Trimethylammonio-Ethyl Acrylate copolymer	69418-26-4	40.00000	0.00621	
			Alkanes, C12-26-branched and linear	90622-53-0	40.00000	0.00621	
			Heavy Aliphatic Naphtha	64742-96-7	60.00000	0.00571	
			Guar gum	9000-30-0	50.00000	0.00476	
			Ammonium Persulfate	7727-54-0	89.00000	0.00278	
			Water	7732-18-5	15.00000	0.00233	
			Glutaraldehyde	111-30-8	20.00000	0.00162	
			Alcohols, C11-14-iso-, C13-rich, ethoxylated	78330-21-9	5.00000	0.00157	
			Ethoxylated Alcohols (C12-16)	68551-12-2	5.00000	0.00078	
			Trade Secret	Proprietary	5.00000	0.00048	
			Trade Secret	Proprietary	3.00000	0.00029	
			Trade Secret	Proprietary	3.00000	0.00029	
			Quaternary Ammonium Compounds, Benzyl-C12-C16-alkyldimethyl, Chlorides	68424-85-1	3.00000	0.00024	
			Didecyldimethylammonium Chloride	7173-51-5	3.00000	0.00024	
			Ethylene glycol	107-21-1	45.00000	0.00014	
			Glycol Ether EB	111-76-2	45.00000	0.00014	
			N,N-Dimethylformamide	68-12-2	20.00000	0.00006	
			Tar bases,quinoline derivs.,benzyl chloride-quaternized	72480-70-7	20.00000	0.00006	
			Water	7732-18-5	15.00000	0.00005	
			Cinnamaldehyde	104-55-2	10.00000	0.00003	
			Nonylphenol ethoxylated	127087-87-0	10.00000	0.00003	
			Alcohols, C6-12	68603-15-6	10.00000	0.00003	

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* 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)

Antero Resources Corporation
Well No. Autumn #1H

UNION DISTRICT - RITCHIE COUNTY

7-13	Dawn McLaughlin
7-14	Wayne & Delphine Haddox
7-15	Louis Daniel Easterday Revocable Living Trust
7-16	Louis D Easterday
7-18	Louis D Easterday
7-19	Max & Laura Dodd
12-2.1	Hought Farm LLC
12-6	Robert & Dorothy Layton
12-6.1	Robert & Dorothy Layton
12-7	Louis Daniel Easterday Revocable Living Trust
12-7.1	Louis Daniel Easterday Revocable Living Trust

CLAY DISTRICT - RITCHIE COUNTY

35-3	Debra Davis, Et Al
35-8	Debra Clements
35-14	Darren & Danielle Dodd
35-14.2	Kevin Ross & Kayla Cunningham
35-15	Lewis Cottrill
35-31	Max & Laura Dodd
35-31.1	Bradley Dodd
35-31.3	Bryan Davis
35-31.4	Ruth Ann Dodd
35-31.5	Marilyn Sue Dodd
35-31.6	Gregory Dodd
35-40	Max & Laura Dodd
39-1	Lowell & Alma Blevins
39-1.1	Lowell & Alma Blevins
39-2	Loren & Lenise Sellers
39-2.1	John E. McCloy, JR.
39-3	Lowell & Alma Blevins
39-3.1	Lowell & Alma Blevins
39-3.2	Lowell & Alma Blevins
39-4	Gregory Dodd
39-5	Robert & Brenda McCullough
39-6	Robert & Brenda Dodd
39-11	Marilyn Sue Dodd
39-12	Douglas Wade Elder
39-13	Douglas Wade Elder
39-17	Grace Louise Elliott
39-17.1	Grace Louise Elliott
39-17.2	Grace Louise Elliott
39-17.3	Defrahn Trust
39-17.4	Andrew Fulesi & Kain Grimm

LESSOR

A	ELKHORN MINERALS III, LLC.
B	LINDA KAY SMITH
C	DAVID W. DOTSON
D	DAVID W. DOTSON
E	WV DOT, DOH
F	BURL DODD ET AL

LATITUDE 39°15'00"

6,566' TO BOTTOM HOLE

WELL 1H TOP HOLE INFORMATION:
N: 258,026ft E: 1,586,715ft
LAT: 39°11'57.20" LON: 80°57'30.03"

BOTTOM HOLE INFORMATION:
N: 272,379ft E: 1,580,384ft
LAT: 39°14'18.03" LON: 80°58'53.45"

WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE. ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE GEOXT SUBMETER

MAPPING GRADE GPS UNIT. PLAT ORIENTATION, CORNER, AND WELL REFERENCE TIE LINES ARE BASED ON GRID NORTH.

(NAD) 83 (UTM) ZONE 17 COORDS:
WELL 1H TOP HOLE INFORMATION:
N: 4,338,895m E: 503,612m
BOTTOM HOLE INFORMATION:
N: 4,343,235m E: 501,610m

(NAD) 27 (UTM) ZONE 17 COORDS:
WELL 1H TOP HOLE INFORMATION:
N: 14,234,477ft E: 1,652,219ft
POINT OF ENTRY INFORMATION:
N: 14,233,909ft E: 1,650,674ft
BOTTOM HOLE INFORMATION:
N: 14,248,718ft E: 1,645,651ft

1H TOP HOLE

4,247' TO BOTTOM HOLE

WV NORTH ZONE GRID NORTH

3,318'

LONGITUDE 80°57'30"

LONGITUDE 80°57'30"

NOTE:
7 WATER WELLS WERE LOCATED WITHIN 2000' OF THE CENTER OF PAD

WELL NO. 1H

W1 W2 W3 W4 W5 W6 W7

WATER WELLS

W1	S 86°08' E	1093.5'
W2	S 81°22' W	1624.9'
W3	S 75°32' W	1309.4'
W4	S 71°11' W	1368.5'
W5	S 66°20' W	914.7'
W6	S 65°21' W	1193.6'
W7	N 74°39' E	1936.7'

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 RULES ISSUED AND PERSCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

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

WILLOW LAND SURVEYING PLLC
220 MASONIC AVE. PENNSBORO
WEST VIRGINIA 26415

JOB # 25-004WA
DRAWING # AUTUMN1HAD
SCALE 1" = 2000'
MINIMUM DEGREE OF ACCURACY SUBMETER
PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
DIVISION OF OIL AND GAS

LEGEND

---	Surface Owner Boundary Lines +/-
---	Interior Surface Tracts +/-
○	Proposed Well Path
○	As Drilled Well Path

THOMAS SUMMERS P.S. 2109
DATE 12/15/25
OPERATOR'S WELL# AUTUMN UNIT #1H
47 - 085 - 10550
STATE COUNTY PERMIT

PAD LAYOUT

NOT TO SCALE

KEEL UNIT 1H
JIB UNIT 1H
SAIL UNIT 1H
AFT UNIT 1H
AUTUMN UNIT 1H
ELLIOTT UNIT 1H

WELL TYPE: OIL ☐ GAS ☒ LIQUID INJECTION ☐ WASTE DISPOSAL (IF "GAS") PRODUCTION ☒ STORAGE ☐ DEEP ☐ SHALLOW

LOCATION: ELEVATION AS BUILT - 1,097' WATERSHED SOUTH FORK HUGHES RIVER QUADRANGLE PULLMAN 7.5' DISTRICT UNION COUNTY RITCHIE

SURFACE OWNER LOUIS DANIEL EASTERDAY REVOCABLE LIVING TRUST ACREAGE 5.25 ACRES +/-

OIL & GAS ROYALTY OWNER JOSEPH A. HOWARD LEASE ACREAGE 5.25 ACRES±

PROPOSED WORK: DRILL ☐ CONVERT ☐ DRILL DEEPER ☐ REDRILL ☐ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION PERFORATE NEW FORMATION ☐ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) AS DRILLED

PLUG & ABANDON ☐ CLEAN OUT & REPLUG ☐

TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,377' TVD 22,486' MD

WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT CONRAD BASTON

ADDRESS 1615 WYNKOOP ST. ADDRESS 535 WHITE OAKS BLVD

FORM WW-6 DENVER, CO 80202 BRIDGEPORT, WV 26330

09/04/2026

NOTE:
1. NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER DAIRY CATTLE OR POULTRY HUSBANDRY ARE LOCATED WITHIN SIX HUNDRED TWENTY-FIVE (625) FEET OF THE CENTER OF THE WELL PAD.
2. TOP HOLE DATA SHOWN HEREON WAS PROVIDED BY ANTERO RESOURCES CORPORATION.
3. AS DRILLED DATA WAS PROVIDED BY ANTERO RESOURCES CORPORATION.
4. WLS IS NOT CERTIFYING THE DATA AND INFORMATION PROVIDED LISTED IN NOTES 2 AND 3, ONLY THE RELATIONSHIP TO THE DATA AND INFORMATION PROVIDED TO THE LEASE BOUNDARIES.
5. WLS IS BY NO MEANS RESPONSIBLE FOR ANY ERRORS OR INACCURACIES WITH THE DATA AND INFORMATION THAT HAS BEEN PROVIDED.