

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

API 47 - 103 - 03616 County Wetzel District Green  
Quad Pine Grove 7.5' Pad Name Cedar Field/Pool Name -----  
Farm name Dallison Lumber Company Well Number Gunto 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 4379817.911m Easting 524595.222m  
Landing Point of Curve Northing 4379793.43m Easting 525099.81m  
Bottom Hole Northing 4375297.130m Easting 526670.607m

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

Mud - Polymer

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Date permit issued 10/4/2023 Date drilling commenced 10/30/2023 Date drilling ceased 12/31/2023  
Date completion activities began 4/6/2024 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 - 03616 Farm name Dallison Lumber Company Well number Gunto 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"	735'	New	54.5#, J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	3611'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4" /8-1/2"	5-1/2"	23417'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	7346'		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 <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	Class A	209 sx	15.6	1.18	247	0'	8 Hrs.
Surface	Class C	690	15.8	1.16	800	0'	8 Hrs.
Coal							
Intermediate 1	Class C	1230 sx	15.8	1.16	1427	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	3945 sx (Tail)	13.5 (Spacer), 15.2(Lead)	1.30 (Tail)	5129	-500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 23417' MD, 7205' TVD (BHL), 7205' TVD (Deepest Point Drilled) Loggers TD (ft) 23388' MD  
 Deepest formation penetrated Marcellus Plug back to (ft) N/A  
 Plug back procedure N/A

Kick off depth (ft) 6592'

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 OCT 02 2024

WAS WELL COMPLETED OPEN HOLE?  Yes  No DETAILS WV Department of Environmental Protection

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

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EXHIBIT 1					
Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	4/7/2024	23290	23246	36	Marcellus
2	4/7/2024	23207.53846	23042.2308	36	Marcellus
3	4/8/2024	23006.76923	22841.4615	36	Marcellus
4	4/8/2024	22806	22640.6923	36	Marcellus
5	4/9/2024	22605.23077	22439.9231	36	Marcellus
6	4/9/2024	22404.46154	22239.1538	36	Marcellus
7	4/10/2024	22203.69231	22038.3846	36	Marcellus
8	4/10/2024	22002.92308	21837.6154	36	Marcellus
9	4/10/2024	21802.15385	21636.8462	36	Marcellus
10	4/11/2024	21601.38462	21436.0769	36	Marcellus
11	4/12/2024	21400.61538	21235.3077	36	Marcellus
12	4/12/2024	21199.84615	21034.5385	36	Marcellus
13	4/13/2024	20999.07692	20833.7692	36	Marcellus
14	4/13/2024	20798.30769	20633	36	Marcellus
15	4/20/2024	20597.53846	20432.2308	36	Marcellus
16	4/21/2024	20396.76923	20231.4615	36	Marcellus
17	4/22/2024	20196	20030.6923	36	Marcellus
18	4/23/2024	19995.23077	19829.9231	36	Marcellus
19	4/24/2024	19794.46154	19629.1538	36	Marcellus
20	4/25/2024	19593.69231	19428.3846	36	Marcellus
21	4/26/2024	19392.92308	19227.6154	36	Marcellus
22	4/26/2024	19192.15385	19026.8462	36	Marcellus
23	4/28/2024	18991.38462	18826.0769	36	Marcellus
24	4/28/2024	18790.61538	18625.3077	36	Marcellus
25	4/29/2024	18589.84615	18424.5385	36	Marcellus
26	4/30/2024	18389.07692	18223.7692	36	Marcellus
27	5/1/2024	18188.30769	18023	36	Marcellus
28	5/2/2024	17987.53846	17822.2308	36	Marcellus
29	5/3/2024	17786.76923	17621.4615	36	Marcellus
30	5/3/2024	17586	17420.6923	36	Marcellus
31	5/4/2024	17385.23077	17219.9231	36	Marcellus
32	5/5/2024	17184.46154	17019.1538	36	Marcellus
33	5/5/2024	16983.69231	16818.3846	36	Marcellus
34	5/6/2024	16782.92308	16617.6154	36	Marcellus
35	5/7/2024	16582.15385	16416.8462	36	Marcellus
36	5/7/2024	16381.38462	16216.0769	36	Marcellus
37	5/8/2024	16180.61538	16015.3077	36	Marcellus
38	5/8/2024	15979.84615	15814.5385	36	Marcellus
39	5/8/2024	15779.07692	15613.7692	36	Marcellus
40	5/9/2024	15578.30769	15413	36	Marcellus
41	5/9/2024	15377.53846	15212.2308	36	Marcellus
42	5/10/2024	15176.76923	15011.4615	36	Marcellus
43	5/10/2024	14976	14810.6923	36	Marcellus
44	5/10/2024	14775.23077	14609.9231	36	Marcellus
45	5/11/2024	14574.46154	14409.1538	36	Marcellus
46	5/11/2024	14373.69231	14208.3846	36	Marcellus
47	5/11/2024	14172.92308	14007.6154	36	Marcellus
48	5/12/2024	13972.15385	13806.8462	36	Marcellus
49	5/12/2024	13771.38462	13606.0769	36	Marcellus
50	5/13/2024	13570.61538	13405.3077	36	Marcellus
51	5/13/2024	13369.84615	13204.5385	36	Marcellus
52	5/14/2024	13169.07692	13003.7692	36	Marcellus
53	5/14/2024	12968.30769	12803	36	Marcellus
54	5/14/2024	12767.53846	12602.2308	36	Marcellus
55	5/15/2024	12566.76923	12401.4615	36	Marcellus
56	5/15/2024	12366	12200.6923	36	Marcellus
57	5/15/2024	12165.23077	11999.9231	36	Marcellus
58	5/16/2024	11964.46154	11799.1538	36	Marcellus
59	5/16/2024	11763.69231	11598.3846	36	Marcellus
60	5/17/2024	11562.92308	11397.6154	36	Marcellus
61	5/17/2024	11362.15385	11196.8462	36	Marcellus
62	5/17/2024	11161.38462	10996.0769	36	Marcellus
63	5/18/2024	10960.61538	10795.3077	36	Marcellus
64	5/18/2024	10759.84615	10594.5385	36	Marcellus
65	5/18/2024	10559.07692	10393.7692	36	Marcellus
66	5/19/2024	10358.30769	10193	36	Marcellus
67	5/19/2024	10157.53846	9992.23077	36	Marcellus
68	5/20/2024	9956.76923	9791.46154	36	Marcellus
69	5/20/2024	9756	9590.69231	36	Marcellus
70	5/20/2024	9555.230769	9389.92308	36	Marcellus
71	5/21/2024	9354.461538	9189.15385	36	Marcellus
72	5/21/2024	9153.692308	8988.38462	36	Marcellus
73	5/21/2024	8952.923077	8787.61538	36	Marcellus
74	5/22/2024	8752.153846	8586.84615	36	Marcellus
75	5/22/2024	8551.384615	8386.07692	36	Marcellus
76	5/22/2024	8350.615385	8185.30769	36	Marcellus
77	5/23/2024	8149.846154	7984.53846	36	Marcellus
78	5/23/2024	7949.076923	7783.76923	36	Marcellus
79	5/24/2024	7748.307692	7583	36	Marcellus

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EXHIBIT 2

Stage No.	Stimulations Date	Avg Pump Rate	AVG Treatment Pressure (PSI)		Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbbls)	Amount of Nitrogen/ other (units)
			Treatment Pressure (PSI)	Breakdown Pressure (PSI)					
1	4/7/2024	81.31542	9687.37	7338.64	4534.516	166840	5003.381	N/A	
2	4/7/2024	93.81184	10370.65	6781.77	4676.998	416320	7093.4048	N/A	
3	4/8/2024	89.44832	10323.44	7124.61	4455.178	415860	6953.9286	N/A	
4	4/8/2024	94.99654	10527.57	6369.81	4572.76	400530	7042.3095	N/A	
5	4/9/2024	91.61729	10576.27	7205.9	4334.946	393370	8063.2857	N/A	
6	4/9/2024	93.99002	10313.68	6467.41	4514.609	401890	6979.4048	N/A	
7	4/10/2024	88.94585	10046.05	6533.78	4411.872	407720	6938.9762	N/A	
8	4/10/2024	96.77434	10495.95	6360.24	4635.014	403600	6771.5476	N/A	
9	4/10/2024	95.19745	10495.95	6812	4864.266	418320	7207.2381	N/A	
10	4/11/2024	93.95736	10496.66	6303.71	4340.105	424900	7298.7143	N/A	
11	4/12/2024	92.68302	10436.34	6645.12	4236.608	420840	7834.7381	N/A	
12	4/12/2024	92.68977	10567.33	6473.29	4459.307	415860	7249.3095	N/A	
13	4/13/2024	86.11292	10548.27	6898.39	4043.762	412160	7232.3571	N/A	
14	4/13/2024	92.26992	10555.35	7150.8	4342.332	416980	7115.4524	N/A	
15	4/20/2024	96.17405	10438.79	6468.36	4626	411640	7058.8333	N/A	
16	4/21/2024	92.71886	10483.59	7263.38	4576.974	420080	7032.6667	N/A	
17	4/22/2024	93.65036	10442.45	7187.83	4472	409920	7112.2619	N/A	
18	4/23/2024	91.50291	10457.4	6986.2	4535.681	408140	7186.5476	N/A	
19	4/24/2024	87.51272	10529.12	6321.79	3927.647	416228	7456.5238	N/A	
20	4/25/2024	91.7197	10407.22	7120.4	4469.01	412780	7199.0476	N/A	
21	4/26/2024	94.39384	10502.48	6947.49	4491.903	418620	7391.5476	N/A	
22	4/26/2024	93.66844	10388.61	6856.76	4716.348	422180	7383.0714	N/A	
23	4/28/2024	86.12377	10106.35	6795.21	4757.247	456063	11746.976	N/A	
24	4/28/2024	95.26055	10418.56	6782.73	4484.154	415320	7773.9524	N/A	
25	4/29/2024	89.94218	9853.554	6545.05	4688.304	424260	7680.2619	N/A	
26	4/30/2024	88.64759	9545.388	6416.59	4231	417040	7414.7143	N/A	
27	5/1/2024	91.40663	10099.68	6865.93	4220	419160	7247.5238	N/A	
28	5/2/2024	92.07225	9867.554	7236.06	4417.488	415380	7584.8571	N/A	
29	5/3/2024	92.65113	9983.538	7444.39	4343.215	422620	7567.2381	N/A	
30	5/3/2024	92.87972	9936.591	7349.9	4408.072	415380	7375.0952	N/A	
31	5/4/2024	81.59107	9825.738	5100.57	4426.921	417640	7836.381	N/A	
32	5/5/2024	90.0968	9691.854	7830.96	4729	420880	7466.5476	N/A	
33	5/5/2024	88.83355	9250.416	6858.4	4345.059	411960	7141.2381	N/A	
34	5/6/2024	87.11641	10053.85	6795.51	4289	420480	7600.7619	N/A	
35	5/7/2024	88.71138	9120.307	6625.97	4578.595	413280	7427.3333	N/A	
36	5/7/2024	92.29244	9565.561	7059.75	5133	418680	7334.619	N/A	
37	5/8/2024	92.37782	9588.998	7202	4547.736	421920	7354.119	N/A	
38	5/8/2024	96.75545	9844.334	6852.68	4233.69	419060	7141.2143	N/A	
39	5/8/2024	96.49983	9582.678	7134	4540.934	419580	7344.2143	N/A	
40	5/9/2024	95.95332	9590.381	6797.8	4100	417920	7429.619	N/A	
41	5/9/2024	95.29267	9450.649	7252.74	4545.833	413280	7162.1667	N/A	
42	5/10/2024	96.47363	9317.004	6856.78	4513.214	404710	7038.8333	N/A	
43	5/10/2024	98.88256	9359.003	6838.69	4679	418620	7343.8095	N/A	
44	5/10/2024	97.19163	9292.237	6895.86	4383.073	421080	7496.8571	N/A	
45	5/11/2024	93.12723	9071.678	6711.19	4804.353	404080	7283.9048	N/A	
46	5/11/2024	95.67162	9064.587	6261.53	4269	397060	7105.5476	N/A	
47	5/11/2024	95.84127	9507.918	6498.55	4377.358	421900	7162.7143	N/A	
48	5/12/2024	74.11649	9569.708	5792	4644	416980	9697.8571	N/A	
49	5/12/2024	92.53715	8790.392	6534.1	4744.817	419720	7341.4048	N/A	
50	5/13/2024	91.51556	8892.653	6144.62	4358.709	399300	7058.5476	N/A	
51	5/13/2024	95.19849	8585.646	6275.06	4791	417220	7272.5952	N/A	
52	5/14/2024	96.57955	8755.443	6274.14	4226.66	399540	6997.119	N/A	
53	5/14/2024	96.33733	8709.615	6156.4	4319.064	395530	7029.2619	N/A	
54	5/14/2024	97.8839	8918.157	6374.86	4242.868	419840	7163.7857	N/A	
55	5/15/2024	97.39945	8728.327	6640.25	4364.186	394970	7030.1905	N/A	
56	5/15/2024	97.44358	8873.6	6542.99	4322.609	426600	7318.6667	N/A	
57	5/15/2024	95.1865	8277.995	6654.22	4281.539	419740	7036.4286	N/A	
58	5/16/2024	96.64616	8521.499	6535.85	4363	419080	7258.619	N/A	
59	5/16/2024	96.89258	8457.054	6204.39	4211	423020	7148.8333	N/A	
60	5/17/2024	97.16108	8426.638	6837.45	4190.557	423800	7319.619	N/A	
61	5/17/2024	96.52896	8575.846	6718.25	4397.88	422440	7311.0476	N/A	
62	5/17/2024	97.05572	8322.022	6354.74	3924.52	425940	7145.5238	N/A	
63	5/18/2024	96.79781	8177.459	5940.6	4252	414420	7079	N/A	
64	5/18/2024	97.52109	8224.942	5987.77	4496	418840	7305.9524	N/A	
65	5/18/2024	98.4329	8417.895	6527.83	4412	415940	7071.8571	N/A	
66	5/19/2024	98.19881	8380.426	5894.66	4009.835	414720	7288.0476	N/A	
67	5/19/2024	97.88094	8159.184	5796.36	4238.593	422920	7044.9048	N/A	
68	5/20/2024	98.05036	8085.784	6077.63	4092	410400	7189.8571	N/A	
69	5/20/2024	97.96505	7849.551	6153.65	3957.252	414800	7211.6905	N/A	
70	5/20/2024	97.48618	7924.11	6382.57	4236.998	418880	7113.2143	N/A	
71	5/21/2024	97.91426	8021.586	5933.41	4209	415700	7120.8333	N/A	
72	5/21/2024	98.0765	8081.909	6369.39	3965.464	415400	6974.5238	N/A	
73	5/21/2024	97.96388	8056.611	6016.78	3904	413340	6882.6667	N/A	
74	5/22/2024	98.02381	7962.15	6060.91	4383	415540	7045.7381	N/A	
75	5/22/2024	97.81146	7690.573	6341.29	4316.768	413620	7009.0714	N/A	
76	5/22/2024	96.48415	7849.056	7304.52	4417	414860	6939.7857	N/A	
77	5/23/2024	98.11485	7561.658	6256.17	4203	421440	7048.8095	N/A	
78	5/23/2024	96.52538	7525.003	6094.91	4227	410260	7004.2381	N/A	
79	5/24/2024	98.12498	7542.565	7013.63	4254	416400	6562.5238	N/A	
	AVERAGE	93.9	9,316	6,618	4,395	32,573,331	575,687	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	2,165	2,020	2,201
Big Lime	2,195	2,997	2,201	3,066
Fifty Foot Sandstone	2,997	3,069	3,036	3,141
Gordon	3,069	3,301	3,111	3,381
Fifth Sandstone	3,301	3,641	3,351	3,733
Bayard	3,641	4,029	3,703	4,143
Speechley	4,029	4,174	4,113	4,295
Balltown	4,174	4,654	4,265	4,792
Bradford	4,654	5,250	4,762	5,408
Benson	5,250	5,699	5,378	5,876
Alexander	5,699	6,894	5,846	7,153
Sycamore	6,734	6,864	6,964	7,123
Middlesex	6,864	6,963	7,123	7,268
Burkett	6,963	6,993	7,268	7,321
Tully	6993	7081	7321	7531
Marcellus	7081	NA	7531	NA

RECEIVED  
Office of Oil and Gas

OCT 02 2024

WV Department of  
Environmental Protection01/17/2025 

**Antero Resources  
Well No. Gunto 1H  
As-Drilled  
Antero Resources Corporation**



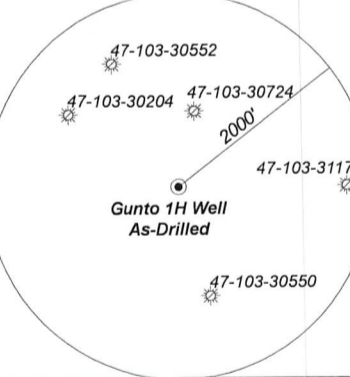
Top Hole Coordinates, As-drilled data, and information was provided by Antero Resources Corporation. Allegheny Surveys Inc. (ASI) is not certifying the data and information provided. ASI is not responsible for any errors or inaccuracies with the data and information that has been provided.

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 prescribed by the Department of Environmental Protection.

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

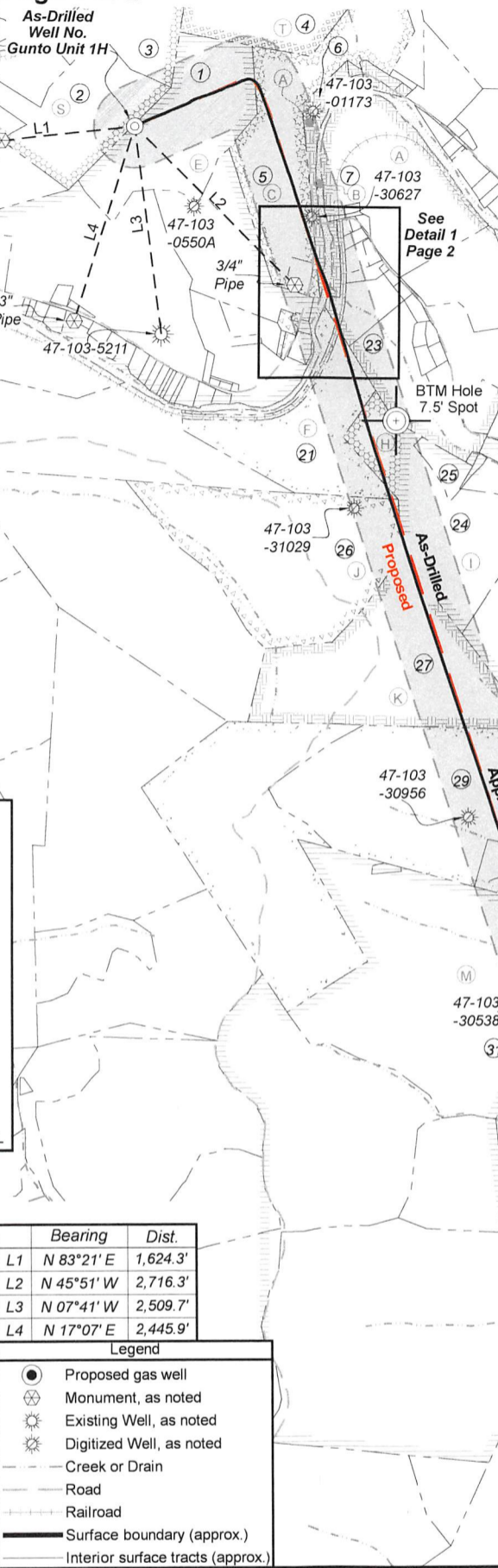


Note: 0 water wells were found within 2000' of proposed well. No occupied dwellings or buildings 2,500 square feet or larger used to house or shelter dairy cattle or poultry husbandry are located within 625' of the center of the well pad.

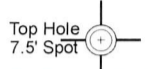


	Bearing	Dist.
L1	N 83°21' E	1,624.3'
L2	N 45°51' W	2,716.3'
L3	N 07°41' W	2,509.7'
L4	N 17°07' E	2,445.9'

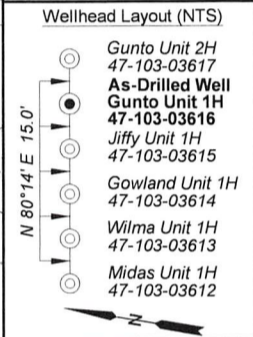
- Legend**
- Proposed gas well
  - ⊗ Monument, as noted
  - ☀ Existing Well, as noted
  - ☀ Digitized Well, as noted
  - Creek or Drain
  - Road
  - Railroad
  - Surface boundary (approx.)
  - Interior surface tracts (approx.)



**Notes**  
West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements. Well No. Gunto Unit 1H Top Hole coordinates are N: 391,164.20' Latitude: 39°34'03.46" E: 1,657,812.98' Longitude: 80°42'49.83" Bottom Hole coordinates are N: 376,215.65' Latitude: 39°31'36.59" E: 1,664,376.13' Longitude: 80°41'23.50" UTM Zone 17, NAD 1983 Top Hole Coordinates Bottom Hole Coordinates N: 4,379,817.911m N: 4,375,297.130m E: 524,595.222m E: 526,670.607m Plat orientation and corner and well references are based upon the grid north meridian. Well location references are based upon the magnetic meridian.



**Notes:**  
Well No. Gunto Unit 1H As-Drilled POE Coordinates WV Coordinate System of 1927, North Zone N: 391,282.98' E: 1,659,453.90' Latitude: 39°34'04.85" Longitude: 80°42'28.90" UTM Zone 17, NAD 1983 N: 4,379,862.457m E: 525,094.547m



6,542' to Bottom Hole

1,553' to Top Hole

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

TOP HOLE LONGITUDE 80 - 42 - 30  
BTM HOLE LONGITUDE 80 - 40 - 00  
5,721' to Top Hole  
5,404' to Bottom Hole

FILE NO: 123-34-G-18  
DRAWING NO: Gunto 1H As-Drilled Plat  
SCALE: 1" = 2000'  
MINIMUM DEGREE OF ACCURACY: Submeter  
PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

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

DATE: September 9 20 24  
OPERATOR'S WELL NO. Gunto 1H  
API WELL NO  
47 - 103 - 03616  
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 COUNTY: Wetzel 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: 23,417' MD 7,205' TVD

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



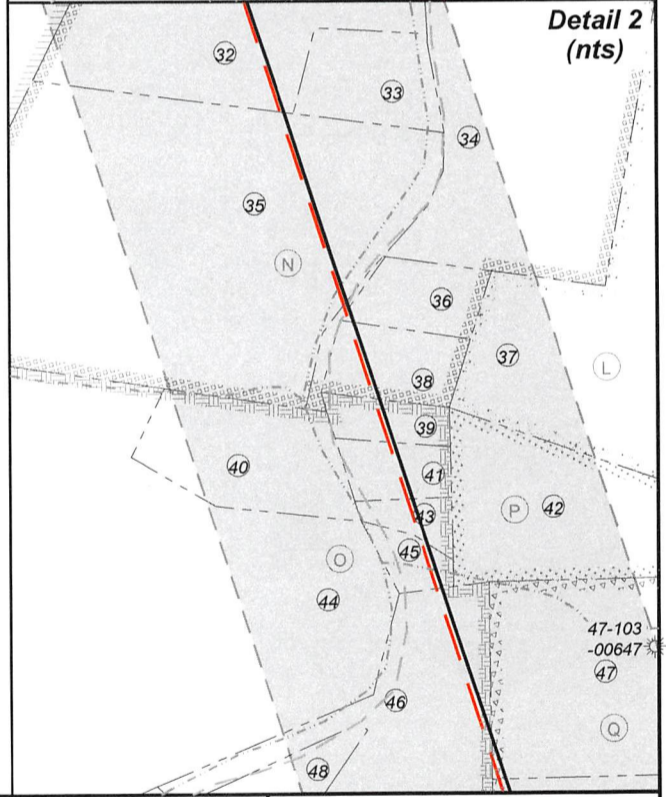
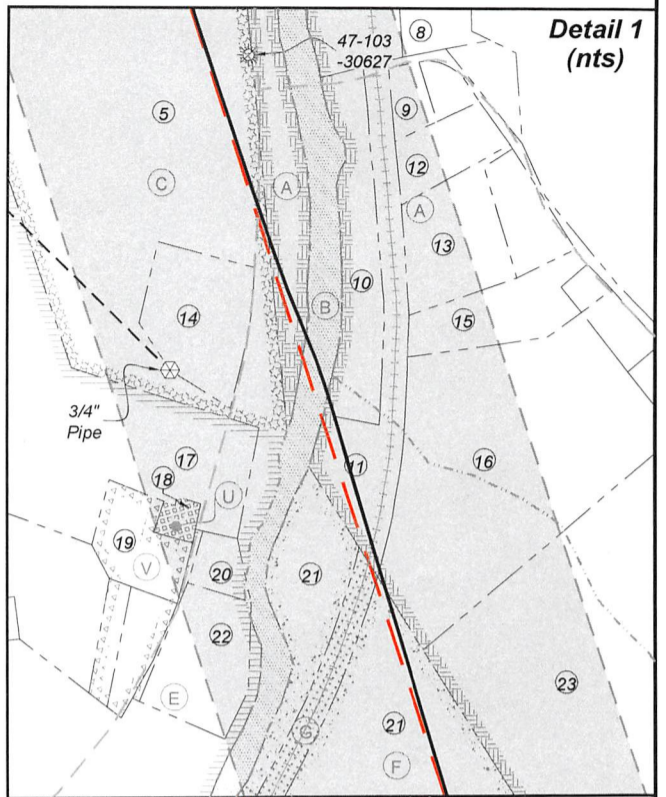
**Antero Resources**  
**Well No. Gunto 1H**  
**As-Drilled**  
**Antero Resources Corporation**



Page 2 of 2

Leases			
A	Chesapeake Appalachia, LLC	I	Three Rivers Royalty II, LLC
B	WVDNR	J	Jeffrey T. Hayes
C	Eddie D. Dallison	K	Tribune Resources Minerals, LLC
E	Jenkins Miller	L	Thomas Cunningham, et ux
F	Coastal Forest Resources Co.	M	Shiben Estates Inc.
G	CSX Transportation, Inc.	N	BRC Appalachian Minerals I, LLC
H	Chesapeake Appalachia, LLC	O	Shiben Estates Inc.
		P	George H. & A. A. Umstead
		Q	T.M. Cunningham, et ux
		R	Clay D. C. Dallison, et al
		S	Antero Minerals, LLC
		T	James E. Coen, et ux
		U	Albert J. Moore, et ux, et al
		V	J.B. Holtzclaw

ID	TM-Par	Owner	Bk/Pg	Acres
1	14-19	Dallison Lumber Company	357/267	51.50
2	13-40	Kenneth E. & Vicky A. VanDyne	357/204	42.33
3	13-26.7	John M. & Stanley D. Pittman	458/837	55.00
4	14-16	Antero Midstream, LLC	491/484	54.00
5	14-20	Dallison Lumber Co.	357/270	109.91
6	14-21	Dominion Gathering & Processing, Inc.	460/781	3.20
7	14-36	Dominion Gathering & Processing, Inc.	460/781	57.41
8	14-64	Kathy Sue Phillips	436/126	0.50
9	14-64.13	Andrew C. Brown, Sr.	424/774	0.34
10	14-64.16	Kathy Sue Phillips	364/667	3.00
11	14-64.11	Clara M. Haught	462/594	25.26
12	14-64.12	Jaclyn S. Lively	M98/648	0.99
13	14-64.9	Timothy & Kimberly Bates Revocable Trust	486/525	1.84
14	14-20.1	David A. Burtrand, et al	435/879	2.00
15	14-64.8	Sandra J. Fortney	295/301	1.64
16	14-64.10	Clara M. Haught	462/594	8.33
17	14-34	Dearld T. Mason	292/646	41.00
18	14-44	Barbara Jo Leek, et al	360/141	0.25
19	14-43	Melvin G. Leek	397/499	0.60
20	14-63	Melvin G. Leek	397/499	0.50
21	17-10	Coastal Forest Resources	444/105	90.00
22	14-62	Brian Lowe	427/299	2.00
23	14-64.11	Clara M. Haught	462/594	25.26
24	18-2.1	Heath L. Tennant	404/26	56.85
25	18-2.10	Michael & Cheryl Adams	350/398	5.08
26	17-21	Pauline E. Hayes	420/626	83.30
27	17-32	Pauline E. Hayes	420/626	79.25
28	18-2.7	Howard B. & Roxie J. Rice	335/520	67.70
29	18-4	Barbara D. Cunningham	291/112	212.80
30	18-6	Barbara D. Cunningham	291/112	56.80
31	17-51	Linda K. Ice & Harry G. Wichterman Jr.	WB66/545	156.00
32	18-8	Linda K. Ice & Harry G. Wichterman Jr.	W66/545	23.40
33	18-8.9	Linda Ice Long	431/249	1.75
34	18-8.2	Harry Glenn Wichterman, Jr.	437/425	13.35
35	21-24	Linda Ice Long	431/249	17.95
36	21-23	Harry Glenn Wichterman	429/560	1.24
37	18-9	Gordon F. Yost, et al	405/237	74.47
38	21-22	Harry Glenn Wichterman	429/558	1.40
39	21-2	David L. Haught & Tammy L. Watson	378/684	0.90
40	21-1	Lucile Olga Noland, et al	157/348	3.30
41	21-5.1	David L. & Patricia L. Haught	249/274	1.02
42	21-3	Dallison Lumber	419/596	50.00
43	21-5.2	David L. & Patricia L. Haught	249/274	0.50
44	21-4	Michael & Janet Miller	282/45	23.06
45	21-5	Olga Lucille Nolan	260/264	1.00
46	21-7	Francis & Patricia Fluharty	436/793	14.14
47	21-6	Olga Lucille Nolan	260/264	18.20
48	21-7.5	Kelly L. Fluharty	431/816	1.50
49	21-8	Coastal Forest Resources Co.	444/105	60.70
50	21-7.7	Robert & Gloria Fluharty	436/808	5.44
51	21-9	Kyle R. & Lauren Fluharty	439/308	45.90
52	21-11	Unknown	---/---	6.8
53	21-12	Dallison Lumber Co.	372/1	21.72
54	21-13	Coastal Forest Resources Co.	444/105	27.70
55	21-3	State of WV	207/239	5228.5



FILE NO: 123-34-G-18  
 DRAWING NO: Gunto 1H As-Drilled Plat  
 SCALE: 1" = 2000'  
 MINIMUM DEGREE OF ACCURACY:  
 Submeter  
 PROVEN SOURCE OF ELEVATION:  
 WVDOT, Harrisville, WV

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

DATE: September 9 20 24  
 OPERATOR'S WELL NO. Gunto 1H  
 API WELL NO  
 47 - 103 - 03616  
 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 DALLISSON LUMBER COMPANY COUNTY: Wetzel 01/17/2025  
 SURFACE OWNER: DALLISSON LUMBER 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 7,205' TVD  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 23,417' 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



**Antero Resources**  
**Well No. Gunto 1H**  
**As-Drilled**  
**Antero Resources Corporation**

**Page 1 of 2**

As-Drilled  
 Well No.  
 Gunto Unit 1H

6,542' to Bottom Hole

1,553' 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. Gunto Unit 1H Top Hole coordinates are  
 N: 391,164.20' Latitude: 39°34'03.46"  
 E: 1,657,812.98' Longitude: 80°42'49.83"  
 Bottom Hole coordinates are  
 N: 376,215.65' Latitude: 39°31'36.59"  
 E: 1,664,376.13' Longitude: 80°41'23.50"  
 UTM Zone 17, NAD 1983  
 Top Hole Coordinates Bottom Hole Coordinates  
 N: 4,379,817.911m N: 4,375,297.130m  
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TOP HOLE LONGITUDE 80 - 42 - 30  
 BTM HOLE LONGITUDE 80 - 40 - 00  
 5,721' to Top Hole  
 5,404' to Bottom Hole



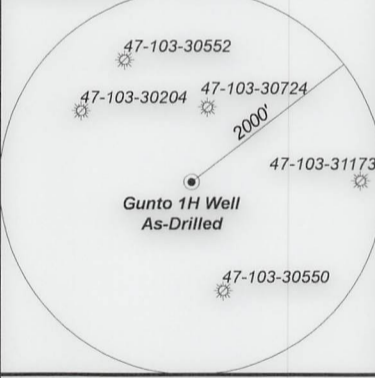
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I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.

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

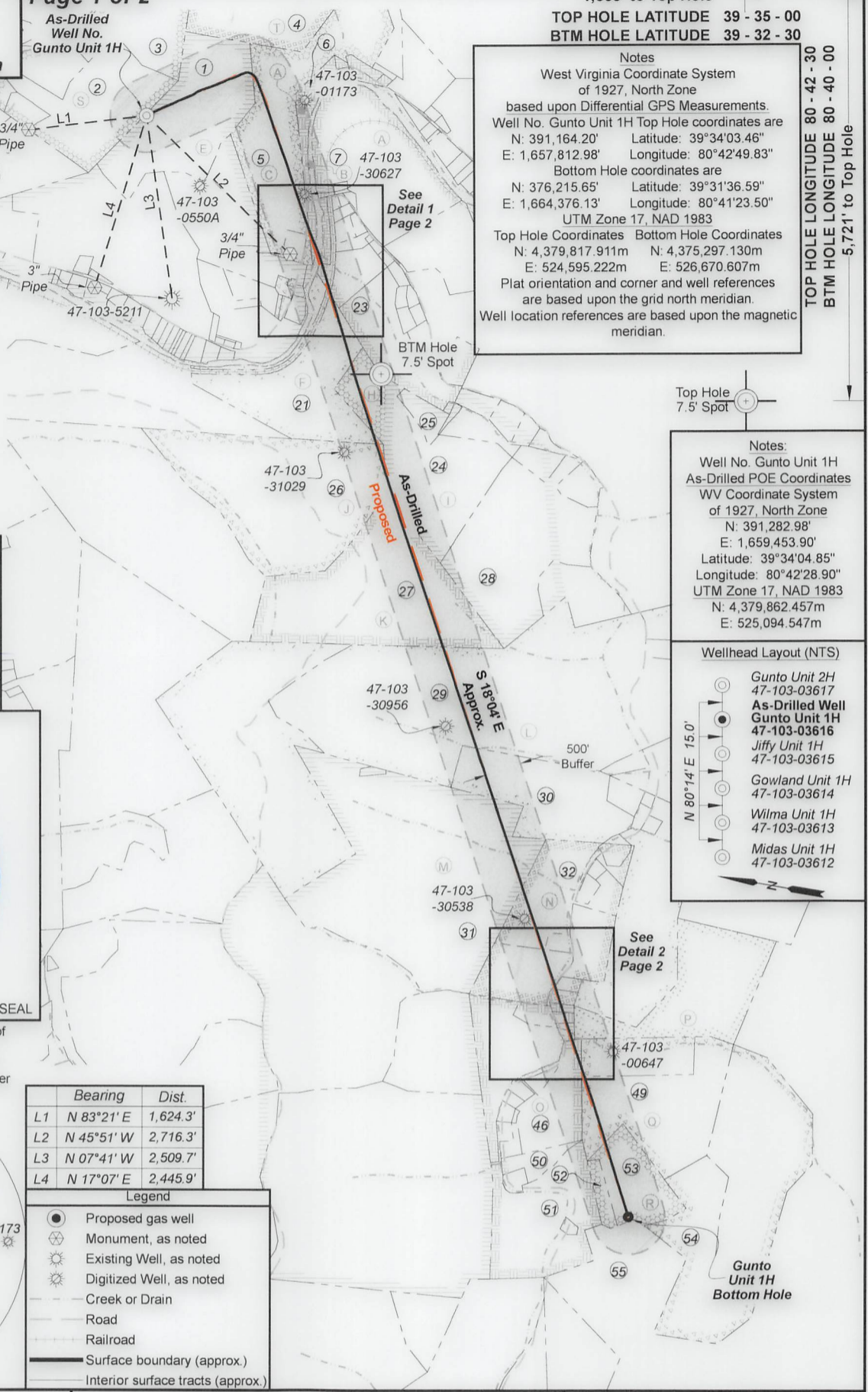


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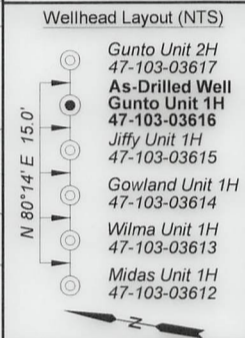


	Bearing	Dist.
L1	N 83°21' E	1,624.3'
L2	N 45°51' W	2,716.3'
L3	N 07°41' W	2,509.7'
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- Legend**
- Proposed gas well
  - ⊗ Monument, as noted
  - ☼ Existing Well, as noted
  - ☼ Digitized Well, as noted
  - Creek or Drain
  - Road
  - Railroad
  - Surface boundary (approx.)
  - Interior surface tracts (approx.)



**Notes:**  
 Well No. Gunto Unit 1H  
 As-Drilled POE Coordinates  
 WV Coordinate System  
 of 1927, North Zone  
 N: 391,282.98'  
 E: 1,659,453.90'  
 Latitude: 39°34'04.85"  
 Longitude: 80°42'28.90"  
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 N: 4,379,862.457m  
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FILE NO: 123-34-G-18  
 DRAWING NO: Gunto 1H As-Drilled Plat  
 SCALE: 1" = 2000'  
 MINIMUM DEGREE OF ACCURACY:  
 Submeter  
 PROVEN SOURCE OF ELEVATION:  
 WVDOT, Harrisville, WV

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

DATE: September 9 20 24  
 OPERATOR'S WELL NO. Gunto 1H  
 API WELL NO  
 47 - 103 - 03616  
 STATE COUNTY PERMIT

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 (IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW  
 LOCATION: ELEVATION: As-Built: 1,248' WATERSHED: Fishing Creek QUADRANGLE: Pine Grove  
 DISTRICT: Green Dallison Lumber COMPANY: Wetz  
 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 7,205' TVD  
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 ADDRESS: 1615 Wynkoop Street ADDRESS: 535 White Oaks Blvd.  
 Denver, CO 80202 Bridgeport, WV 26330



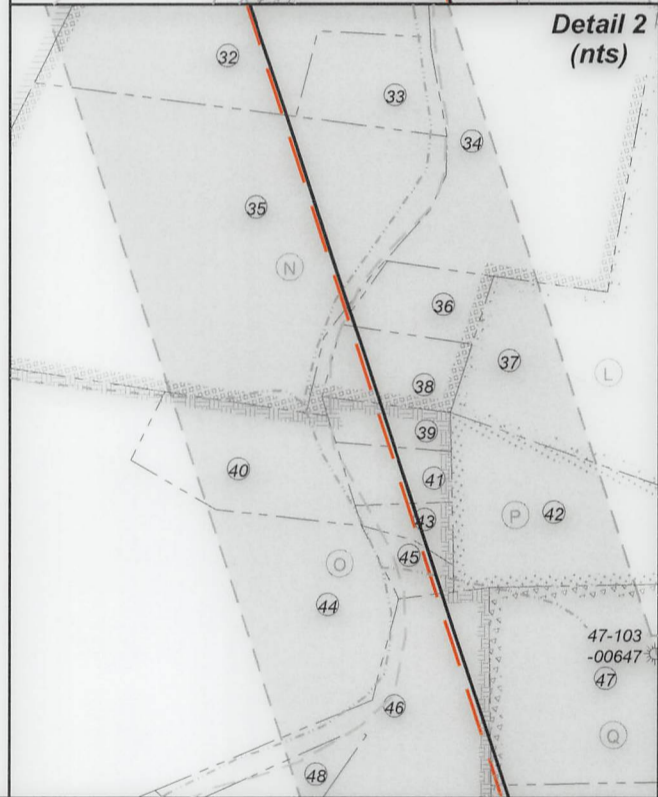
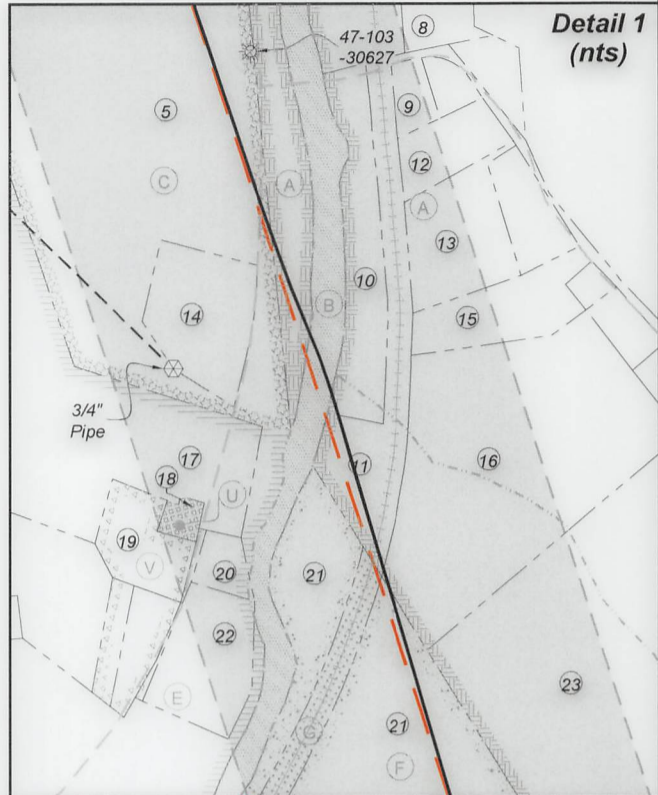
**Antero Resources**  
**Well No. Gunto 1H**  
**As-Drilled**  
**Antero Resources Corporation**

Leases					
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F	Coastal Forest Resources Co.	M	Shiben Estates Inc.	T	James E. Coen, et ux
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H	Chesapeake Appalachia, LLC	O	Shiben Estates Inc.	V	J.B. Holtzclaw



Page 2 of 2

ID	TM-Par	Owner	Bk/Pg	Acres
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4	14-16	Antero Midstream, LLC	491/484	54.00
5	14-20	Dallison Lumber Co.	357/270	109.91
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52	21-11	Unknown	---/---	6.8
53	21-12	Dallison Lumber Co.	372/1	21.72
54	21-13	Coastal Forest Resources Co.	444/105	27.70
55	21-3	State of WV	207/239	5228.5



FILE NO: <u>123-34-G-18</u>	<b>STATE OF WEST VIRGINIA</b> DEPARTMENT OF ENVIRONMENTAL PROTECTION <b>OIL AND GAS DIVISION</b>	DATE: <u>September 9 20 24</u>
DRAWING NO: <u>Gunto 1H As-Drilled Plat</u>		OPERATOR'S WELL NO. <u>Gunto 1H</u>
SCALE: <u>1" = 2000'</u>		API WELL NO
MINIMUM DEGREE OF ACCURACY: <u>Submeter</u>		<u>47 - 103 - 03616</u>
PROVEN SOURCE OF ELEVATION: <u>WVDOT, Harrisville, WV</u>		STATE COUNTY PERMIT
WELL TYPE: <input type="checkbox"/> OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> LIQUID INJECTION <input type="checkbox"/> WASTE DISPOSAL (IF GAS) PRODUCTION: <input type="checkbox"/> STORAGE <input type="checkbox"/> DEEP <input checked="" type="checkbox"/> SHALLOW		
LOCATION: ELEVATION: <u>As-Built: 1,248'</u> WATERSHED: <u>Fishing Creek</u>		QUADRANGLE: <u>Pine Grove</u>
DISTRICT: <u>Green</u> Dallison Lumber Company		COUNTY: <u>Wetzel</u> <b>01/17/2025</b>
SURFACE OWNER: <u>Dallison Lumber Company</u>		ACREAGE: <u>51.5</u>
ROYALTY OWNER: <u>Jenkins Miller</u>		LEASE NO: _____ ACREAGE: <u>200</u>
PROPOSED WORK: <input type="checkbox"/> DRILL <input type="checkbox"/> CONVERT <input checked="" type="checkbox"/> DRILL DEEPER <input type="checkbox"/> FRACTURE OR STIMULATE <input type="checkbox"/> PLUG OFF OLD FORMATION <input type="checkbox"/> PERFORATE NEW FORMATION <input checked="" type="checkbox"/> OTHER PHYSICAL CHANGE IN WELL (SPECIFY) <u>As-Drilled</u>		
<input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> CLEAN OUT AND REPLUG		TARGET FORMATION: <u>Marcellus Shale</u> ESTIMATED DEPTH: <u>7,205' TVD</u> <u>23,417' MD</u>
WELL OPERATOR: <u>Antero Resources Corporation</u>		DESIGNATED AGENT: <u>Kevin Ellis</u>
ADDRESS: <u>1615 Wynkoop Street</u> <u>Denver, CO 80202</u>		ADDRESS: <u>535 White Oaks Blvd.</u> <u>Bridgeport, WV 26330</u>



## Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	04/06/2024
Job End Date:	05/24/2024
State:	West Virginia
County:	Wetzel
API Number:	47-103-03616-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	GUNTO 1H
Latitude:	39.567708
Longitude:	-80.71366
Datum:	WGS84
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7204
Total Base Water Volume (gal)*:	25110121.06
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					RECEIVED Office of Oil and Gas
HYDROCHLORIC ACID, 22 BAUME	Halliburton	Solvent					OCT 02 2024
MC B-8123	MultiChem	Biocide					WV Department of Environmental Protection
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	88.32832	None
			Crystalline silica, quartz	14808-60-7	100.00000	11.45814	None
			Water	7732-18-5	100.00000	0.14595	None
			Hydrochloric acid	7647-01-0	30.00000	0.03430	None
			Complex amine compound	Proprietary	60.00000	0.02348	None
			Guar gum	9000-30-0	100.00000	0.01429	None
			Hydrotreated distillate	Proprietary	30.00000	0.01174	None
			Proprietary	Proprietary	20.00000	0.00825	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	0.00655	None
			Hydrotreated light petroleum distillates	64742-47-8	30.00000	0.00327	None
			Ammonium chloride	12125-02-9	5.00000	0.00250	None
			Glutaraldehyde	111-30-8	30.00000	0.00209	None
			Fatty nitrogen derived amides	Proprietary	5.00000	0.00196	None
			Ethoxylated alcohol	Proprietary	5.00000	0.00196	None
			Amides, tall-oil fatty, N,N-bis(hydroxyethyl)	68155-20-4	5.00000	0.00055	None
			Ethoxylated branched C13 alcohol	78330-21-9	5.00000	0.00055	None
			Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8	1.00000	0.00050	None
			Sorbitan monooleate polyoxyethylene derivative	9005-65-6	1.00000	0.00050	None
			Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1	5.00000	0.00035	None
			Ammonium persulfate	7727-54-0	100.00000	0.00022	None
			Methanol	67-56-1	100.00000	0.00021	None
			Citric acid	77-92-9	60.00000	0.00008	None

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			Oxylated phenolic resin	Proprietary	30.00000	0.00007	None
			Mixture of dimer and trimer fatty acids of indefinite composition derived from tall oil	61790-12-3	30.00000	0.00006	None
			Modified thiourea polymer	Proprietary	30.00000	0.00006	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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