

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

API 47 - 103 - 03428 County Wetzel District Green
Quad TH:Pine Grove BH: Center Point Pad Name Dogwood Field/Pool Name ----- Office of Oil and Gas
Farm name Dallison Lumber, Inc Well Number Orner Unit 1H
Operator (as registered with the OOG) Antero Resources Corporation
Address 1615 Wynkoop Street City Denver State CO Zip 80202

RECEIVED
Office of Oil and Gas
FEB 07 2023
West Virginia Department of Environmental Protection

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4375246m Easting 523685m
Landing Point of Curve Northing 4374019.18m Easting 523060.88m
Bottom Hole Northing 4370230m Easting 524389m

Elevation (ft) 1308' 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

Date permit issued 8/23/2021 Date drilling commenced 11/3/2021 Date drilling ceased 11/18/2021
Date completion activities began 3/5/2022 Date completion activities ceased 4/25/2022
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 539' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 2341' Void(s) encountered (Y/N) depths No
Coal depth(s) ft 815' Cavern(s) encountered (Y/N) depths No
Is coal being mined in area (Y/N) No

APPROVED

Reviewed by:

Joe May
2/16/23

API 47- 103 - 03428 Farm name Dallison Lumber, Inc Well number Orner 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	24"	20"	80'	New	94#, H-40	N/A	Y
Surface	17-1/2"	13-3/8"	635'	New	54.5#, J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2729'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	23669'	New	20#, P-100	N/A	Y
Tubing		2-3/8"	7477'		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	352 sx	15.6	1.18	75	0'	8 Hrs.
Surface	Class A	628 sx	15.8	1.20	130	0'	8 Hrs.
Coal							
Intermediate 1	Class A	1010 sx	15.8	1.16	208	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	792 sx (Lead) 3985 sx (Tail)	13.5 (Lead), 15.2(Tail)	1.4 (Lead), 1.18 (Tail)	836	-500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 23718' MD, 7211' TVD (BHL), 7211' (Deepest Point Drilled) Loggers TD (ft) 23718' MD
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 7184'

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

Stamp
2/16/13

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	03/06/2022	23599	23555	32	Marcellus
2	03/06/2022	23516.51316	23351.0789	32	Marcellus
3	03/06/2022	23315.59211	23150.1579	32	Marcellus
4	03/07/2022	23114.67105	22949.2368	32	Marcellus
5	03/07/2022	22913.75	22748.3158	32	Marcellus
6	03/08/2022	22712.82895	22547.3947	32	Marcellus
7	03/08/2022	22511.90789	22346.4737	32	Marcellus
8	03/08/2022	22310.98684	22145.5526	32	Marcellus
9	03/09/2022	22110.06579	21944.6316	32	Marcellus
10	03/09/2022	21909.14474	21743.7105	32	Marcellus
11	03/09/2022	21708.22368	21542.7895	32	Marcellus
12	03/10/2022	21507.30263	21341.8684	32	Marcellus
13	03/10/2022	21306.38158	21140.9474	32	Marcellus
14	03/10/2022	21105.46053	20940.0263	32	Marcellus
15	03/11/2022	20904.53947	20739.1053	32	Marcellus
16	03/11/2022	20703.61842	20538.1842	32	Marcellus
17	03/11/2022	20502.69737	20337.2632	32	Marcellus
18	03/12/2022	20301.77632	20136.3421	32	Marcellus
19	03/12/2022	20100.85526	19935.4211	32	Marcellus
20	03/12/2022	19899.93421	19734.5	32	Marcellus
21	03/13/2022	19699.01316	19533.5789	32	Marcellus
22	03/13/2022	19498.09211	19332.6579	32	Marcellus
23	03/13/2022	19297.17105	19131.7368	32	Marcellus
24	03/13/2022	19096.25	18930.8158	32	Marcellus
25	03/14/2022	18895.32895	18729.8947	32	Marcellus
26	03/14/2022	18694.40789	18528.9737	32	Marcellus
27	03/14/2022	18493.48684	18328.0526	32	Marcellus
28	03/14/2022	18292.56579	18127.1316	32	Marcellus
29	03/15/2022	18091.64474	17926.2105	32	Marcellus
30	03/15/2022	17890.72368	17725.2895	32	Marcellus
31	03/15/2022	17689.80263	17524.3684	32	Marcellus
32	03/15/2022	17488.88158	17323.4474	32	Marcellus
33	03/16/2022	17287.96053	17122.5263	32	Marcellus
34	03/17/2022	17087.03947	16921.6053	32	Marcellus
35	03/17/2022	16886.11842	16720.6842	32	Marcellus
36	03/17/2022	16685.19737	16519.7632	32	Marcellus
37	03/17/2022	16484.27632	16318.8421	32	Marcellus
38	03/18/2022	16283.35526	16117.9211	32	Marcellus
39	03/18/2022	16082.43421	15917	32	Marcellus
40	03/18/2022	15881.51316	15716.0789	32	Marcellus
41	03/19/2022	15680.59211	15515.1579	32	Marcellus
42	03/19/2022	15479.67105	15314.2368	32	Marcellus
43	03/19/2022	15278.75	15113.3158	32	Marcellus
44	03/20/2022	15077.82895	14912.3947	32	Marcellus
45	03/20/2022	14876.90789	14711.4737	32	Marcellus
46	03/20/2022	14675.98684	14510.5526	32	Marcellus
47	03/21/2022	14475.06579	14309.6316	32	Marcellus
48	03/21/2022	14274.14474	14108.7105	32	Marcellus
49	03/21/2022	14073.22368	13907.7895	32	Marcellus
50	03/21/2022	13872.30263	13706.8684	32	Marcellus
51	03/22/2022	13671.38158	13505.9474	32	Marcellus
52	03/22/2022	13470.46053	13305.0263	32	Marcellus
53	03/22/2022	13269.53947	13104.1053	32	Marcellus
54	03/22/2022	13068.61842	12903.1842	32	Marcellus
55	03/23/2022	12867.69737	12702.2632	32	Marcellus
56	03/23/2022	12666.77632	12501.3421	32	Marcellus
57	03/23/2022	12465.85526	12300.4211	32	Marcellus
58	03/23/2022	12264.93421	12099.5	32	Marcellus
59	03/23/2022	12064.01316	11898.5789	32	Marcellus
60	03/24/2022	11863.09211	11697.6579	32	Marcellus
61	03/24/2022	11662.17105	11496.7368	32	Marcellus
62	03/24/2022	11461.25	11295.8158	32	Marcellus
63	03/24/2022	11260.32895	11094.8947	32	Marcellus
64	03/24/2022	11059.40789	10893.9737	32	Marcellus
65	03/25/2022	10858.48684	10693.0526	32	Marcellus
66	03/25/2022	10657.56579	10492.1316	32	Marcellus
67	03/25/2022	10456.64474	10291.2105	32	Marcellus
68	03/25/2022	10255.72368	10090.2895	32	Marcellus
69	03/26/2022	10054.80263	9889.36842	32	Marcellus
70	03/26/2022	9853.881579	9688.44737	32	Marcellus
71	03/26/2022	9652.960526	9487.52632	32	Marcellus
72	03/27/2022	9452.039474	9286.60526	32	Marcellus
73	03/27/2022	9251.118421	9085.68421	32	Marcellus
74	03/27/2022	9050.197368	8884.76316	32	Marcellus
75	03/27/2022	8849.276316	8683.84211	32	Marcellus
76	03/27/2022	8648.355263	8482.92105	32	Marcellus
77	03/28/2022	8447.434211	8282	32	Marcellus

RECEIVED
Office of Oil and Gas
FEB 07 2023
WV Department of
Environmental Protection

SM

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 (bbis)	Amount of Nitrogen/ other (units)
1	03/06/2022	59.94	9931.47	10365.91	4042.51	174450	221143	N/A
2	03/06/2022	81.93	9968	8826	4255	413690	302637	N/A
3	03/06/2022	77.76	10072	6570	3938	410680	309312	N/A
4	03/07/2022	78.97	9878	6277	4715	158500	328301	N/A
5	03/07/2022	76.64	9397	5911	3775	153030	364437	N/A
6	03/08/2022	78.43	9832	6082	3593	137000	315716	N/A
7	03/08/2022	73.86	9213	5836	3615	262520	326056	N/A
8	03/08/2022	86.63	10616	5989	3433	240560	316328	N/A
9	03/09/2022	85.34	10643	10137	3607	259440	307768	N/A
10	03/09/2022	84.53	10570	7612	3886	262950	319533	N/A
11	03/09/2022	86.15	10880	7428	3978	262560	320877	N/A
12	03/10/2022	57.03	9051	7474	4278	244570	479884	N/A
13	03/10/2022	88.63	10386	5820	4107	263320	317694	N/A
14	03/10/2022	91.87	10043	6515	4363	264730	343629	N/A
15	03/11/2022	91.48	10530	9204	4329	247170	302670	N/A
16	03/11/2022	41.59	7510	9706	3581	240750	421421	N/A
17	03/11/2022	84.41	10597	10125	3688	243220	303151	N/A
18	03/12/2022	88.26	10145	6362	4485	262260	346307	N/A
19	03/12/2022	89.96	10261	6547	4627	240416	352257	N/A
20	03/12/2022	86.26	10514	9977	4526	237190	296243	N/A
21	03/13/2022	91.3	10552	9368	4503	236130	303143	N/A
22	03/13/2022	85.59	9957	6484	4303	235640	393314	N/A
23	03/13/2022	89.39	9995	6228	4607	260810	320601	N/A
24	03/13/2022	91.63	10458	8576	4358	238290	295772	N/A
25	03/14/2022	91.88	10442	9689	4410	242630	299658	N/A
26	03/14/2022	91.72	9956	6945	4553	241640	320046	N/A
27	03/14/2022	92.55	10315	6751	4344	241070	305161	N/A
28	03/14/2022	95.27	10532	9434	4331	241640	298486	N/A
29	03/15/2022	96.37	10085	9371	4180	241500	300150	N/A
30	03/15/2022	95.91	10352	7214	4496	241370	315964	N/A
31	03/15/2022	85.42	10384	6914	3387	266280	309075	N/A
32	03/15/2022	93.27	10393	6343	4181	241000	299376	N/A
33	03/16/2022	95.56	10100	5853	4120	286180	304246	N/A
34	03/17/2022	88.27	9714	6670	3979	292230	408953	N/A
35	03/17/2022	95.15	9666	5665	4115	350960	308236	N/A
36	03/17/2022	88	9174	7552	4317	265720	387699	N/A
37	03/17/2022	93.1	9631	6125	3740	271580	299932	N/A
38	03/18/2022	95.53	10067	5698	4447	266520	294199	N/A
39	03/18/2022	95	10035	6928	4202	307600	293248	N/A
40	03/18/2022	93.93	8743	6107	4991	258060	368117	N/A
41	03/19/2022	96.73	9787	5919	3622	285460	301372	N/A
42	03/19/2022	91.29	9427	6537	3780.29	109160	305132	N/A
43	03/19/2022	95.54	9638	5538	4084	222110	305067	N/A
44	03/20/2022	86.9	9534	5724	3697	149830	335096	N/A
45	03/20/2022	93.8	9268	5740	3572	134020	296392	N/A
46	03/20/2022	96.12	9424	6343	4351	155040	303173	N/A
47	03/21/2022	90.67	8800	6135	4812	153600	387900	N/A
48	03/21/2022	72.22	8677	6156	3497	102090	307778	N/A
49	03/21/2022	81.96	8211	6133	3852	112950	356101	N/A
50	03/21/2022	82.97	8214	7604	4781	153440	276642	N/A
51	03/22/2022	76.59	7987	9012	4286	238450	386603	N/A
52	03/22/2022	78.75	7750	8525	4213	288120	300946	N/A
53	03/22/2022	79.94	7980	8041	4230	283390	304387	N/A
54	03/22/2022	81.87	7725	5622	4539	306590	298654	N/A
55	03/23/2022	76.57	7841	5877	4164	288210	295794	N/A
56	03/23/2022	78.94	7907	8108	4065	286640	296457	N/A
57	03/23/2022	80.27	7728	8367	4377	159320	298677	N/A
58	03/23/2022	81.05	7599	7724	4735	157740	293399	N/A
59	03/23/2022	79.06	7771	6422	4146	153990	288327	N/A
60	03/24/2022	81.18	7722	5803	4775	246630	285830	N/A
61	03/24/2022	81.43	7685	7723	4186	263350	292343	N/A
62	03/24/2022	83.57	8173	7860	4412	244440	294040	N/A
63	03/24/2022	81.32	8154	8404	4229	245060	288731	N/A
64	03/24/2022	77.83	8403	7144	4268	263830	294178	N/A
65	03/25/2022	83.04	7968	6293	3739	265590	295880	N/A
66	03/25/2022	84.82	8047	8076	4294	241652	290216	N/A
67	03/25/2022	85.12	7483	6956	4066	108540	306793	N/A
68	03/25/2022	84.55	7791	5917	3895	133480	295890	N/A
69	03/26/2022	84.69	8047	6881	3611	112260	293767	N/A
70	03/26/2022	82.09	7050	6309	4165	109370	299940	N/A
71	03/26/2022	79.65	7995	7439	3915	131650	306650	N/A
72	03/27/2022	81.93	7320	6636	4361	110540	293296	N/A
73	03/27/2022	81.54	7409	7637	4086	177140	287101	N/A
74	03/27/2022	83.77	7468	7580	3679	110320	336881	N/A
75	03/27/2022	84.2	7183	7371	4406	175260	280881	N/A
76	03/27/2022	80.36	7612	7916	4253	330410	293914	N/A
77	03/28/2022	82.35	7318	7316	4388	176280	296215	N/A
	AVG=	85	9,100	7,214	4,155	17,391,808	24,291,183	TOTAL

RECEIVED
Office of Oil and Gas

FEB 07 2023

WV Department of
Environmental Protection

SM

EXHIBIT 3

LITHOLOGY/ FORMATION	TOP DEPTH (TVD)	BOTTOM DEPTH (TVD)	TOP DEPTH (MD)	BOTTOM DEPTH (MD)
	From Surface	From Surface	From Surface	From Surface
Sandstone, tr shale	100	310	100	310
Shaly Siltstone, tr coal	310	460	310	460
Silty Sandstone, tr shale	460	550	460	550
Siltstone, tr coal	550	670	550	670
Sandstone	670	790	670	790
Siltstone, tr LS	790	910	790	910
Sandy Siltstone	910	1,090	910	1,090
Siltstone, tr LS	1,090	1,270	1,090	1,270
Sandstone, tr LS	1,270	1,390	1,270	1,390
Shaly Sandstone	1,390	1,540	1,390	1,540
Silty Sandstone, tr salt	1,540	1,690	1,540	1,690
Silty Sandstone, tr shale, tr coal	1,690	1,990	1,690	1,990
Sandy Siltstone, tr salt, tr shale	1,990	2,201	1,990	2,360
Big Lime	2,231	2,749	2,330	2,958
Fifty Foot Sandstone	2,749	2,929	2,928	3,170
Gordon	2,929	3,169	3,140	3,450
Fifth Sandstone	3,169	3,218	3,420	3,507
Bayard	3,218	4,136	3,477	4,540
Speechley	4,136	4,275	4,510	4,700
Balltown	4,275	4,760	4,670	5,260
Bradford	4,760	5,304	5,230	5,892
Benson	5,304	5,722	5,862	6,372
Alexander	5,722	6,901	6,342	7,751
Sycamore	6,743	6,871	7,551	7,721
Middlesex	6,871	6,973	7,721	7,892
Burkett	6,973	7,007	7,892	7,966
Tully	7,007	7,085	7,966	8,230
Marcellus	7,085	NA	8,230	NA

*Please note Antero determines formation tops based on mud logs that are only run on one well on a multi-well pad. The measured depth (MD) data on subsequent wells may be slightly different due to the well's unique departure.

RECEIVED
Office of Oil and Gas
FEB 07 2023
WV Department of
Environmental Protection

JM

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	3/5/2022
Job End Date:	3/28/2022
State:	West Virginia
County:	Wetzel
API Number:	47-103-03428-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	ORNER UNIT 1H
Latitude:	39.52646000
Longitude:	-80.72459000
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7,209
Total Base Water Volume (gal):	25,895,926
Total Base Non Water Volume:	0



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
Produced Water	Halliburton	Base Fluid					
			Water	7732-18-5	100.00000	87.52081	Density = 8.50
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	100.00000	0.16845	

RECEIVED
 Office of Oil and Gas
 FEB 07 2023
 WV Department of Environmental Protection

SM

EXCELERATE LX-16	Halliburton	Friction Reducer					
				Listed Below			
Sand-Premium White-40/70	Halliburton	Proppant					
				Listed Below			
HAI-501	Halliburton	Acid Corrosion Inhibitor					
				Listed Below			
HYDROCHLORIC ACID, 22 BAUME	Halliburton	Solvent					
				Listed Below			
WG-36 GELLING AGENT	Halliburton	Gelling Agent					
				Listed Below			
Sand-Common White-100 Mesh, SSA-2	Halliburton	Proppant					
				Listed Below			
OPTIFLO-II DELAYED RELEASE BREAKER	Halliburton	Breaker					
				Listed Below			
Excelerate LX-15	Halliburton	Friction Reducer					
				Listed Below			

FLUID Enviro-Syn HCR-7000-WL	Fluid Energy Group	Acid Replacement					
				Listed Below			
MC B-8614A	MultiChem	Biocide					
				Listed Below			
Items above are Trade Names with the exception of Base Water . Items below are the individual ingredients.							
			Crystalline silica, quartz	14808-60-7	100.00000	12.25971	
			Hydrochloric acid	7647-01-0	30.00000	0.03721	
			Complex Amine Compound	Proprietary	60.00000	0.03656	
			Guar gum	9000-30-0	100.00000	0.02191	
			Hydrotreated light petroleum distillate	64742-47-8	30.00000	0.01828	
			Surfactant	Proprietary	5.00000	0.00286	
			Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8	5.00000	0.00286	
			Glutaraldehyde	111-30-8	30.00000	0.00236	
			Ammonium persulfate	7727-54-0	100.00000	0.00097	
			Proprietary	Proprietary	20.00000	0.00073	
			Ethoxylated alcohols	Proprietary	5.00000	0.00058	
			Organic chloride compound	Proprietary	1.00000	0.00057	
			Alkoxyated polyhydric alcohol	Proprietary	1.00000	0.00057	
			Alkyl (C12-16) dimethylbenzyl ammonium chloride	68424-85-1	5.00000	0.00039	
			Sodium chloride	7647-14-5	10.00000	0.00038	
			Proprietary	Proprietary	10.00000	0.00036	
			Oxylated phenolic resin	Proprietary	30.00000	0.00029	
			Methanol	67-56-1	100.00000	0.00024	
			Ethoxylated alcohol	Proprietary	5.00000	0.00019	

RECEIVED
 Office of Oil and Gas
 WV Department of Environmental Protection
 FEB 07 2023

SM

			Amine	Proprietary	5.00000	0.00019	
			Ethanol	64-17-5	1.00000	0.00008	
			Modified thiourea polymer	Proprietary	30.00000	0.00007	
			Mixture of dimer and trimer fatty acids of indefinite composition derived from tall oil	61790-12-3	30.00000	0.00007	
			Propargyl alcohol	107-19-7	5.00000	0.00001	
			Hexadecene	629-73-2	5.00000	0.00001	
			C.I. pigment Orange 5	3468-63-1	1.00000	0.00001	
			Sodium hydroxide	1310-73-2	0.01000	0.00001	
			Sodium glycolate	2836-32-0	0.01000	0.00001	
			Organic salt #2	Proprietary	0.01000	0.00001	
			Formaldehyde	50-00-0	0.01000	0.00001	
			Organic salt #1	Proprietary	0.01000	0.00001	
			Nitrated acetate salt	Proprietary	0.01000	0.00001	
			Acrylamide	79-06-1	0.01000	0.00001	
			Diethanolamine	111-42-2	0.10000	0.00000	
			Sodium bisulphite	7681-57-4	0.10000	0.00000	
			Potassium formate	590-29-4	0.10000	0.00000	
			Ethylenediaminetetraacetic acid, tetrasodium salt	64-02-8	0.01000	0.00000	
			Ethylene oxide	75-21-8	0.01000	0.00000	
			Hydroquinone monomethyl ether	150-76-5	0.01000	0.00000	
			Nitrotriacetic acid, trisodium salt monohydrate	5064-31-3	0.01000	0.00000	
			Acetaldehyde	75-07-0	0.01000	0.00000	
			1,4-Dioxane	123-91-1	0.01000	0.00000	

* 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%

*** If you are calculating a percentage of total ingredients do not add the water volume below the green line to the water volume above the green line

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)

RECEIVED
Office of Oil and Gas

FEB 07 2023

WV Department of
Environmental Protection

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



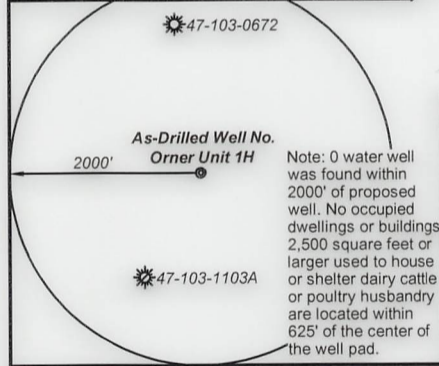
2,330' to Bottom Hole
 4,587' to Top Hole
 TOP HOLE LATITUDE 39 - 32 - 30
 BTM HOLE LATITUDE 39 - 30 - 00

Notes
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
 Well No. Orner Unit 1H Top Hole coordinates are
 N: 376,213.72' Latitude: 39°31'35.27"
 E: 1,654,577.78' Longitude: 80°43'28.54"
 Bottom Hole coordinates are
 N: 359,714.36' Latitude: 39°28'52.48"
 E: 1,656,612.42' Longitude: 80°42'59.72"
 UTM Zone 17, NAD 1983
 Top Hole Coordinates Bottom Hole Coordinates
 N: 4,375,246.641m N: 4,370,230.350m
 E: 523,685.425m E: 524,389.076m
 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 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.

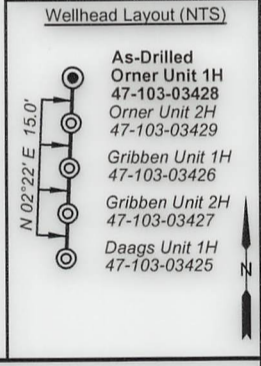
Bradley D. Miller
 Bradley D. Miller, P.S. 2167



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

Orner Unit 1H As-Drilled POE Coordinates
 West Virginia Coordinate System of 1927, North Zone
 N: 374,404.34'
 E: 1,651,815.66'
 Latitude: 39°31'17.01"
 Longitude: 80°44'03.47"
 UTM Zone 17, NAD 1983
 N: 4,374,681.331m
 E: 522,853.090m

	Bearing	Dist.
L1	S 10°09' E	1,525.2'
L2	S 21°45' W	1,790.0'
L3	N 69°18' W	928.9'
L4	N 18°02' W	1,340.1'



FILE NO: 329-34-G-17
 DRAWING NO: Orner 1H As-Drilled
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: Submeter
 PROVEN SOURCE OF ELEVATION: CORS, Monroe County, OH

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

DATE: July 12 2022
 OPERATOR'S WELL NO. Orner Unit 1H
 API WELL NO
 47 - 103 - 03428
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,308' WATERSHED: Fishing Creek QUADRANGLE: TH: Pine Grove BH: Center Point
 DISTRICT: Green Dallison COUNTY: Wetzel
 SURFACE OWNER: Lumber, Inc. Sharon Hosey Seckman; Christian Engle, et ux; Tribune Resources Minerals, LLC (3); ACREAGE: 208
 ROYALTY OWNER: Joan B. Hoge Trust; Waco Oil & Gas Co. Inc.; Terry Bartrug; Sandra D. Derby; J.M. Mayfield, et al; Shiben Estates, Inc. (2); BRC Appalachian Minerals I, LLC (5); LEASE NO: ACREAGE: 204.7505; 80.725;

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled 7,211' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 23,718' MD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Dianna Stamper - CT Corporation System
 ADDRESS: 1615 Wynkoop Street ADDRESS: 5400 D Big Tyler Road
 Denver, CO 80202 Charleston, WV 25313



Leases	
A	Joan B. Hoge Trust
B	Waco Oil & Gas Company Inc.
C	BRC Appalachian Minerals I, LLC
D	Terry Bartrug
E	BRC Appalachian Minerals I, LLC
F	BRC Appalachian Minerals I, LLC
G	Sandra D. Derby
H	William J. Walker
I	J.M. Mayfield, et al
J	Shiben Estates, Inc.
K	Shiben Estates, Inc.
L	BRC Appalachian Minerals I, LLC
M	J.W. & A.B. Haught
N	Christian Engle, et ux
O	Tribune Resources Minerals, LLC
P	BRC Appalachian Minerals I, LLC
Q	Tribune Resources Minerals, LLC
R	Tribune Resources Minerals, LLC
S	Kimberly A. Hoskins, et vir
T	Sharon Hosey Seckman
U	Tribune Resources Minerals, LLC
V	Tribune Resources Minerals, LLC
W	BRC Appalachian Minerals I LLC

ID	TM/Par	Owner	Bk/Pg	Acres
1	20-13	Dallison Lumber Inc.	440/243	208.00
2	20-12	Terry Bartrug	361/465	92.90
3	20-24	Lloyd Conley	355/553	89.00
4	20-16	Coastal Forest Resources Co.	444/105	75.50
5	20-30	Sandra D. Derby	384/585	21.50
6	20-40	Sandra D. Derby	384/585	3.50
7	20-31	Tony E. & Marion L. Crabtree	365/337	68.95
8	20-41	Sandra D. Derby	384/585	7.96
9	20-42	Sandra D. Derby	384/585	21.80
10	22-40	Robert L. Jr. & Donna Jones	436/692	16.00
11	22-5	Robert L. Jr. & Donna K. Jones	297/500	76.00
12	22-14.1	Tony E. & Marion L. Crabtree	365/337	41.80
13	22-6	Denzil W. Sloan	305/582	21.23
14	22-14	Denzil W. Sloan	305/582	9.47
15	22-18	Timothy L. & Vicki L. Glasscock	370/425	99.89
16	22-19	Coastal Forest Resources Co.	444/105	155.30
17	22-20	Lawrence J. Bish, et al	420/736	63.23
18	22-21.1	Thomas & Shawn Pratt	429/66	6.80
19	22-21.2	Thomas R. & Shon T. Pratt	312/697	23.00
20	22-34	Coastal Forest Resources Co.	444/105	172.91
21	22-28	Coastal Forest Resources Co.	444/105	77.10
22	22-27	Dominic J. & Delmer M. Kowalski	353/533	20.30
23	22-33	Dominic J. & Delmer M. Kowalski	353/533	20.30
24	3-11	Dominic J. & Delmer M. Kowalski	317/307	106.94
25	25-3	Coastal Forest Resources Co.	444/105	32.00
26	25-5	Christopher & Dennis Doyle	410/80	39.36
27	3-12	David Schulte, et al	WB14/440	80.73
28	25-12	Christopher & Dennis Doyle	410/80	9.50
29	25-13	Christopher & Dennis Doyle	410/80	38.50
30	25-10	Christopher & Dennis Doyle	410/80	13.00
31	25-14	Christopher & Dennis Doyle	410/80	11.00
32	25-15	Coastal Forest Resources Co.	444/105	2.30
33	25-16	Coastal Forest Resources Co.	444/105	139.57
34	3-13	William Blankenship	292/155	83.47

FILE NO: 329-34-G-17
 DRAWING NO: Orner 1H As-Drilled
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY:
 Submeter
 PROVEN SOURCE OF ELEVATION:
 CORS, Monroe County, OH



DATE: July 12 2022
 OPERATOR'S WELL NO. Orner Unit 1H
 API WELL NO
 47 - 103 - 03428
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,308' WATERSHED: Fishing Creek QUADRANGLE: TH: Pine Grove
 BH: Center Point
 DISTRICT: Green Dallison Sharon Hosey Seckman; COUNTY: Wetzel 200; 23.0; 137.9125;
 SURFACE OWNER: Lumber, Inc. Christian Engle, et ux; Tribune Resources Minerals, LLC (3); 92.904; 62.23125; 20;
 J.M. Mayfield, et al; Shiben Estates, Inc. (2); BRC Appalachian Minerals I, LLC (5); ACREAGE: 208 76; 47.5; 25; 38.5; 89;
 ROYALTY OWNER: Joan B. Hoge Trust; Waco Oil & Gas Co. Inc.; Terry Bartrug; Sandra D. Derby; LEASE NO: ACREAGE: 204.7505; 80.725;
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled 7.211' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 23,718' MD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Dianna Stamper - CT Corporation System
 ADDRESS: 1615 Wynkoop Street ADDRESS: 5400 D Big Tyler Road
 Denver, CO 80202 Charleston, WV 25313