

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

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WV Department of
Environmental Protection

API 47 - 103 - 03429 County Wetzel District Green
Quad TH:Pine Grove BH: Center Point Pad Name Dogwood Field/Pool Name -----
Farm name Dallison Lumber, Inc Well Number Orner Unit 2H
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 4375242m Easting 523685m
Landing Point of Curve Northing 4374476.33m Easting 523163.86m
Bottom Hole Northing 4370256m Easting 524629m

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 11/1/2021 Date drilling ceased 11/27/2021
Date completion activities began 3/5/2022 Date completion activities ceased 4/23/2022
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

Reviewed by:

APPROVED

03/17/2023

Handwritten signature and date: 2/16/23

API 47- 103 - 03429 Farm name Dallison Lumber, Inc Well number Orner Unit 2H

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"	632'	New	54.5#, J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2648'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	24016'	New	23#, P-100	N/A	Y
Tubing		2-3/8"	7775'		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	630 sx	15.8	1.20	163	0'	8 Hrs.
Coal							
Intermediate 1	Class A	352 sx	15.8	1.16	75	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	792 sx (Lead) 4110 sx (Tail)	13.5 (Lead), 15.2(Tail)	1.4 (Lead), 1.18 (Tail)	862	-500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 24066' MD, 7223' TVD (BHL), 7223' (Deepest Point Drilled) Loggers TD (ft) 24066' MD
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 6865'

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

APPROVED

03/17/2023

API 47-103 - 03429 Farm name Dallison Lumber, Inc Well number Orner Unit 2H

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
*PLEASE SEE ATTACHED EXHIBIT 1					

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Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
*PLEASE SEE ATTACHED EXHIBIT 2								

Please insert additional pages as applicable.

03/17/2023

JAN 2/17/23

API 47- 103 - 03429 Farm name Dallison Lumber, Inc Well number Orner Unit 2H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>Marcellus</u>	<u>7088' (TOP) TVD</u>	<u>7850' (TOP) MD</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump
 SHUT-IN PRESSURE Surface 2800 psi Bottom Hole --- psi DURATION OF TEST --- hrs
 OPEN FLOW Gas 3520 mcfpd Oil 70 bpd NGL --- bpd Water 866 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**

Please insert additional pages as applicable.

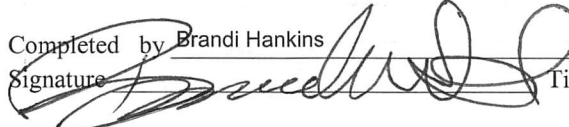
Drilling Contractor H & P Drilling
 Address 912 N Eagle Valley Rd City Howard State PA Zip 16841

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

Cementing Company Halliburton Energy Services
 Address 3000 W. Sam Houston Pkwy City Houston State TX Zip 76114

Stimulating Company Halliburton
 Address 3000 W. Sam Houston Pkwy City Houston State TX Zip 76114

Please insert additional pages as applicable.

Completed by Brandi Hankins Telephone 304-842-9759
 Signature  Title Completions Technician Date 2/2/23

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

03/17/2023 

API 47-103-03429 Farm Name Dallison Lumber Inc. Well Number Orner Unit 2H

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	03/05/2022	23946	23902	32	Marcellus
2	03/06/2022	23862.25316	23695.519	32	Marcellus
3	03/06/2022	23659.77215	23493.038	32	Marcellus
4	03/07/2022	23457.29114	23290.557	32	Marcellus
5	03/07/2022	23254.81013	23088.0759	32	Marcellus
6	03/07/2022	23052.32911	22885.5949	32	Marcellus
7	03/08/2022	22849.8481	22683.1139	32	Marcellus
8	03/08/2022	22647.36709	22480.6329	32	Marcellus
9	03/09/2022	22444.88608	22278.1519	32	Marcellus
10	03/09/2022	22242.40506	22075.6709	32	Marcellus
11	03/09/2022	22039.92405	21873.1899	32	Marcellus
12	03/09/2022	21837.44304	21670.7089	32	Marcellus
13	03/10/2022	21634.96203	21468.2278	32	Marcellus
14	03/10/2022	21432.48101	21265.7468	32	Marcellus
15	03/11/2022	21230	21063.2658	32	Marcellus
16	03/11/2022	21027.51899	20860.7848	32	Marcellus
17	03/11/2022	20825.03797	20658.3038	32	Marcellus
18	03/12/2022	20622.55696	20455.8228	32	Marcellus
19	03/12/2022	20420.07595	20253.3418	32	Marcellus
20	03/12/2022	20217.59494	20050.8608	32	Marcellus
21	03/13/2022	20015.11392	19848.3797	32	Marcellus
22	03/13/2022	19812.63291	19645.8987	32	Marcellus
23	03/13/2022	19610.1519	19443.4177	32	Marcellus
24	03/13/2022	19407.67089	19240.9367	32	Marcellus
25	03/14/2022	19205.18987	19038.4557	32	Marcellus
26	03/14/2022	19002.70886	18835.9747	32	Marcellus
27	03/14/2022	18800.22785	18633.4937	32	Marcellus
28	03/14/2022	18597.74684	18431.0127	32	Marcellus
29	03/14/2022	18395.26582	18228.5316	32	Marcellus
30	03/15/2022	18192.78481	18026.0506	32	Marcellus
31	03/15/2022	17990.3038	17823.5696	32	Marcellus
32	03/15/2022	17787.82278	17621.0886	32	Marcellus
33	03/16/2022	17585.34177	17418.6076	32	Marcellus
34	03/16/2022	17382.86076	17216.1266	32	Marcellus
35	03/17/2022	17180.37975	17013.6456	32	Marcellus
36	03/17/2022	16977.89873	16811.1646	32	Marcellus
37	03/17/2022	16775.41772	16608.6835	32	Marcellus
38	03/18/2022	16572.93671	16406.2025	32	Marcellus
39	03/18/2022	16370.4557	16203.7215	32	Marcellus
40	03/18/2022	16167.97468	16001.2405	32	Marcellus
41	03/18/2022	15965.49367	15798.7595	32	Marcellus
42	03/19/2022	15763.01266	15596.2785	32	Marcellus
43	03/19/2022	15560.53165	15393.7975	32	Marcellus
44	03/19/2022	15358.05063	15191.3165	32	Marcellus
45	03/20/2022	15155.56962	14988.8354	32	Marcellus
46	03/20/2022	14953.08861	14786.3544	32	Marcellus
47	03/20/2022	14750.60759	14583.8734	32	Marcellus
48	03/21/2022	14548.12658	14381.3924	32	Marcellus
49	03/21/2022	14345.64557	14178.9114	32	Marcellus
50	03/21/2022	14143.16456	13976.4304	32	Marcellus
51	03/22/2022	13940.68354	13773.9494	32	Marcellus
52	03/22/2022	13738.20253	13571.4684	32	Marcellus
53	03/22/2022	13535.72152	13368.9873	32	Marcellus
54	03/22/2022	13333.24051	13166.5063	32	Marcellus
55	03/23/2022	13130.75949	12964.0253	32	Marcellus
56	03/23/2022	12928.27848	12761.5443	32	Marcellus
57	03/23/2022	12725.79747	12559.0633	32	Marcellus
58	03/23/2022	12523.31646	12356.5823	32	Marcellus
59	03/23/2022	12320.83544	12154.1013	32	Marcellus
60	03/24/2022	12118.35443	11951.6203	32	Marcellus
61	03/24/2022	11915.87342	11749.1392	32	Marcellus
62	03/24/2022	11713.39241	11546.6582	32	Marcellus
63	03/24/2022	11510.91139	11344.1772	32	Marcellus
64	03/24/2022	11308.43038	11141.6962	32	Marcellus
65	03/25/2022	11105.94937	10939.2152	32	Marcellus
66	03/25/2022	10903.46835	10736.7342	32	Marcellus
67	03/25/2022	10700.98734	10534.2532	32	Marcellus
68	03/25/2022	10498.50633	10331.7722	32	Marcellus
69	03/26/2022	10296.02532	10129.2911	32	Marcellus
70	03/26/2022	10093.5443	9926.81013	32	Marcellus
71	03/26/2022	9891.063291	9724.32911	32	Marcellus
72	03/26/2022	9688.582278	9521.8481	32	Marcellus
73	03/27/2022	9486.101266	9319.36709	32	Marcellus
74	03/27/2022	9283.620253	9116.88608	32	Marcellus
75	03/27/2022	9081.139241	8914.40506	32	Marcellus
76	03/27/2022	8878.658228	8711.92405	32	Marcellus
77	03/27/2022	8676.177215	8509.44304	32	Marcellus
78	03/28/2022	8473.696203	8306.96203	32	Marcellus
79	03/28/2022	8271.21519	8104.48101	32	Marcellus
80	03/28/2022	8068.734177	7902	32	Marcellus

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EXHIBIT 2

Stage No.	Stimulations Date	Avg Pump Rate	Avg Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	(SIP) (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/ other (units)
1	03/05/2022	63.82	9456	9603	4226	171910	331727	N/A
2	03/06/2022	82.69	9895	7251	4248	411960	313425	N/A
3	03/06/2022	79.22	10046	5915	4254	421060	304669	N/A
4	03/07/2022	81.5	9898	5763	4090	148276	324046	N/A
5	03/07/2022	71.46	9606	6182	3538	139090	428945	N/A
6	03/07/2022	76.04	9873	6225	3180	136901	325995	N/A
7	03/08/2022	74.47	9450	5873	3353	129240	314166	N/A
8	03/08/2022	71.35	9034	5817	3759	264890	330067	N/A
9	03/09/2022	84.66	10566	6057	4469	239290	316286	N/A
10	03/09/2022	81.8	10564	7042	3537	259920	321945	N/A
11	03/09/2022	73.95	10459	8329	3632	261660	315286	N/A
12	03/09/2022	58.23	9908	10479	4675.84	242260	417382	N/A
13	03/10/2022	86.47	10043	7021	4163	244420	311816	N/A
14	03/10/2022	86.87	10540	10165	3512	263050	308266	N/A
15	03/11/2022	90.5	10458	9669	4359	246690	302041	N/A
16	03/11/2022	80.58	10023	6701	3847	246120	340243	N/A
17	03/11/2022	89.68	10588	9979	4240	262050	308867	N/A
18	03/12/2022	88.49	10526	9982	4422	268180	325379	N/A
19	03/12/2022	89.71	10156	7309	4422	245100	312852	N/A
20	03/12/2022	91.65	10574	7340	4390	259810	308128	N/A
21	03/13/2022	93.04	10425	9223	4745	234010	304862	N/A
22	03/13/2022	90.36	10533	9666	4667	240000	307322	N/A
23	03/13/2022	93.07	10470	7189	4662	261000	327792	N/A
24	03/13/2022	92.92	10305	6536	4569	286900	313222	N/A
25	03/14/2022	86.98	10004	8536	4284	240970	298483	N/A
26	03/14/2022	91.47	10227	10002	4308	243690	306348	N/A
27	03/14/2022	92.3	10182	6775	4583	261120	312532	N/A
28	03/14/2022	94.71	10537	9631	4399	241630	300999	N/A
29	03/14/2022	89.35	10461	9960	4328	243610	300851	N/A
30	03/15/2022	91.2	10047	6857	4091.62	243680	316026	N/A
31	03/15/2022	93.2	9940	5992	3862	264480	323857	N/A
32	03/15/2022	88.34	10089	6553	3867	240000	305757	N/A
33	03/16/2022	93.22	10329	5995	3932	247330	303304	N/A
34	03/16/2022	92	10191	6550	4969	272750	325507	N/A
35	03/17/2022	92.34	10100	6049	4138	265420	301209	N/A
36	03/17/2022	90.11	9487	7667	4280	264960	300044	N/A
37	03/17/2022	95.84	9992	6237	4201	289250	296934	N/A
38	03/18/2022	95.86	9935	6145	4166	266680	299108	N/A
39	03/18/2022	95.15	9766	6926	4845	285690	307409	N/A
40	03/18/2022	93	9290	7252	4151	284320	319025	N/A
41	03/18/2022	94.4	9497	6030	4783	261170	305867	N/A
42	03/19/2022	61.72	9440	7081	3318	263420	419335	N/A
43	03/19/2022	93.67	9835	6768	3796	218640	299189	N/A
44	03/19/2022	88.6	9274	5841	4260	219170	295260	N/A
45	03/20/2022	93.87	9590	6479	4405	153460	296458	N/A
46	03/20/2022	88.39	9271	5813	5103	150300	482597	N/A
47	03/20/2022	86.81	9364	6319	4295	152460	306818	N/A
48	03/21/2022	65	8576	5497	4847	157410	353791	N/A
49	03/21/2022	81.54	8259	6190	4098	108370	307296	N/A
50	03/21/2022	79.82	8001	6222	4561	263730	382476	N/A
51	03/22/2022	83.13	8289	6184	4863	260180	294971	N/A
52	03/22/2022	80.45	7721	8565	4190	109360	305031	N/A
53	03/22/2022	79.61	7998	8415	4370	306020	309071	N/A
54	03/22/2022	79.83	7887	8202	4850	303940	298933	N/A
55	03/23/2022	73.37	7546	6037	4794	276790	371063	N/A
56	03/23/2022	78.86	8017	6204	4323	288740	296109	N/A
57	03/23/2022	80.22	7808	8276	4486	157010	293696	N/A
58	03/23/2022	80.6	7907	8197	4667	154230	296274	N/A
59	03/23/2022	80.82	7592	5739	4630	151880	286377	N/A
60	03/24/2022	79.38	8050	5968	4676	221420	296714	N/A
61	03/24/2022	80.54	7604	7895	4441	242420	284071	N/A
62	03/24/2022	82.47	8045	8279	4477	265310	296805	N/A
63	03/24/2022	83.51	7918	7856	4667	245060	288570	N/A
64	03/24/2022	84.39	7748	5964	4882	264220	296429	N/A
65	03/25/2022	79.99	7894	6492	4351	264410	293942	N/A
66	03/25/2022	83.18	8054	8006	4577	243510	288354	N/A
67	03/25/2022	86.09	7676	7944	4142	111390	308042	N/A
68	03/25/2022	84.11	8115	6683	3764	112200	302291	N/A
69	03/26/2022	78.98	8058	7102	4413	128400	366914	N/A
70	03/26/2022	59.46	7758	7770	3629	113780	382680	N/A
71	03/26/2022	81.24	7495	7643	4830	112870	295119	N/A
72	03/26/2022	80.18	7371	6885	4198	110890	309879	N/A
73	03/27/2022	82.17	7202	6590	4418	132990	308248	N/A
74	03/27/2022	83.17	7235	7029	4229	109450	298384	N/A
75	03/27/2022	81.38	7199	7140	4830	266380	290883	N/A
76	03/27/2022	84.1	7160	7310	4290	109290	295008	N/A
77	03/27/2022	78.74	6859	7256	4553	284710	292370	N/A
78	03/28/2022	82.97	6878	6608	4656	176840	297818	N/A
79	03/28/2022	84.43	7164	7086	4202	176500	306662	N/A
80	03/28/2022	82.91	7129	7586	4899.72	175980	316084	N/A
	AVG=	84	9,056	7,270	4,314	17,863,667	25,348,001	TOTAL

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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
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	2,191	1,990	2,278
Big Lime	2,221	2,744	2,248	2,849
Fifty Foot Sandstone	2,744	2,919	2,819	3,043
Gordon	2,919	3,162	3,013	3,311
Fifth Sandstone	3,162	3,218	3,281	3,373
Bayard	3,218	4,127	3,343	4,362
Speechley	4,127	4,267	4,332	4,514
Balltown	4,267	4,760	4,484	5,043
Bradford	4,760	5,309	5,013	5,642
Benson	5,309	5,724	5,612	6,098
Alexander	5,724	6,905	6,068	7,419
Sycamore	6,744	6,875	7,222	7,389
Middlesex	6,875	6,982	7,389	7,559
Burkett	6,982	7,014	7,559	7,625
Tully	7,014	7,088	7,625	7,850
Marcellus	7,088	NA	7,850	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.

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03/17/2023

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:	47-103-03429-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	ORNER UNIT 2H
Latitude:	39.52642000
Longitude:	-80.72459000
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7,221
Total Base Water Volume (gal):	24,997,375
Total Base Non Water Volume:	0



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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	86.71378	Density = 8.50
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	100.00000	0.18458	

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Sand-Premium White-40/70	Halliburton	Proppant					
				Listed Below			
HAI-501	Halliburton	Acid Corrosion Inhibitor					
				Listed Below			
Excelerate LX-15	Halliburton	Friction Reducer					
				Listed Below			
FLUID Enviro-Syn HCR-7000-WL	Fluid Energy Group	Acid Replacement					
				Listed Below			
WG-36 GELLING AGENT	Halliburton	Gelling Agent					
				Listed Below			
MC B-8614A	MultiChem	Biocide					
				Listed Below			
OPTIFLO-II DELAYED RELEASE BREAKER	Halliburton	Breaker					
				Listed Below			
HYDROCHLORIC ACID, 22 BAUME	Halliburton	Solvent					
				Listed Below			

Sand-Common White-100 Mesh, SSA-2	Halliburton	Proppant					
				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	13.04965	
			Hydrochloric acid	7647-01-0	30.00000	0.04122	
			Complex Amine Compound	Proprietary	60.00000	0.03849	
			Guar gum	9000-30-0	100.00000	0.02229	
			Hydrotreated light petroleum distillate	64742-47-8	30.00000	0.01924	
			Surfactant	Proprietary	5.00000	0.00321	
			Sobitan, mono-9-octadecenoate, (Z)	1338-43-8	5.00000	0.00321	
			Glutaraldehyde	111-30-8	30.00000	0.00260	
			Ammonium persulfate	7727-54-0	100.00000	0.00108	
			Ethoxylated alcohols	Proprietary	5.00000	0.00065	
			Organic chloride compound	Proprietary	1.00000	0.00064	
			Alkoxyated polyhydric alcohol	Proprietary	1.00000	0.00064	
			Proprietary	Proprietary	20.00000	0.00056	
			Alkyl (C12-16) dimethylbenzyl ammonium chloride	68424-85-1	5.00000	0.00043	
			Oxylated phenolic resin	Proprietary	30.00000	0.00032	
			Proprietary	Proprietary	10.00000	0.00028	
			Methanol	67-56-1	100.00000	0.00026	
			Ethanol	64-17-5	1.00000	0.00009	
			Mixture of dimer and trimer fatty acids of indefinite composition derived from tall oil	61790-12-3	30.00000	0.00008	
			Modified thiourea polymer	Proprietary	30.00000	0.00008	

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			Hexadecene	629-73-2	5.00000	0.00001	
			Propargyl alcohol	107-19-7	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	
			Formaldehyde	50-00-0	0.01000	0.00001	
			Acrylamide	79-06-1	0.01000	0.00001	
			Organic salt #1	Proprietary	0.01000	0.00001	
			Sodium glycolate	2836-32-0	0.01000	0.00001	
			Nitrated acetate salt	Proprietary	0.01000	0.00001	
			Organic salt #2	Proprietary	0.01000	0.00001	

* 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)

1,540' to Bottom Hole

4,587' to Top Hole

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

LONGITUDE 80 - 42 - 30

5,552' to Top Hole

6,746' to Bottom Hole

Antero Resources
Well No. Orner 2H
As-Drilled
Antero Resources Corporation

Sheet 1 of 2

47-103-672

5/8" Rebar
As-Drilled Well No.
Orner Unit 2H

Notes
West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements. Well No. Orner Unit 2H Top Hole coordinates are N: 376,198.87' Longitude: 80°43'28.54" E: 1,654,577.30' Bottom Hole coordinates are N: 359,788.14' Longitude: 39°28'53.31" E: 1,657,404.16' UTM Zone 17, NAD 1983

Top Hole Coordinates Bottom Hole Coordinates
N: 4,375,242.114m N: 4,370,256.859m
E: 523,685.354m E: 524,629.914m

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

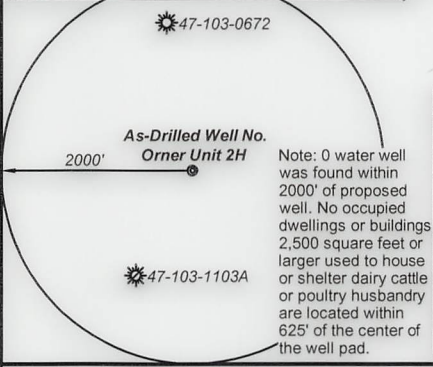
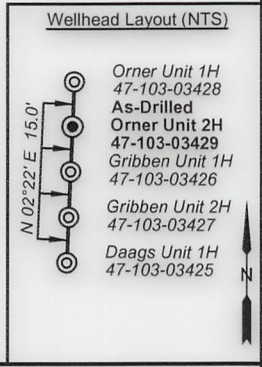


SEAL

Orner Unit 2H As-Drilled POE Coordinates
West Virginia Coordinate System of 1927, North Zone
N: 375,176.94'
E: 1,652,400.95'
Latitude: 39°31'24.73"
Longitude: 80°43'56.13"
UTM Zone 17, NAD 1983
N: 4,374,919.691m
E: 523,027.487m

	Bearing	Dist.
L1	S 10°02' E	1,539.7'
L2	S 21°35' W	1,804.0'
L3	N 70°10' W	924.2'
L4	N 18°15' W	1,326.2'

- 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.)



FILE NO: 329-34-G-17
DRAWING NO: Orner 2H 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 2H
API WELL NO
47 - 103 - 03429
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. BRC Appalachian Minerals I, LLC (4) Sharon Hosey Seckman; Erwin Patterson; Christian Engle, et ux; Robert Okey Whiting; Kimberly A. Hoskins, et vir; J.M. Mayfield, et al; Tony Eugene Crabtree, et ux; Shiben Estates, Inc. (2);

ROYALTY OWNER: Joan B. Hoge Trust; Waco Oil & Gas Co. Inc.; Terry Bartrug; William J. Walker; LEASE NO: ACREAGE: 208

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: 7,223' TVD 24,066' 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


03/17/2023

Antero Resources
Well No. Orner 2H
As-Drilled
 Antero Resources Corporation



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	William J. Walker
G	Sandra D. Derby
H	J.M. Mayfield, et al
I	Tony Eugene Crabtree, et ux
J	Shiben Estates, Inc.
K	Shiben Estates, Inc.
L	Christian Engle, et ux
M	Robert Okey Whiting
N	BRC Appalachian Minerals I, LLC
O	Tribune Resources Minerals, LLC
P	Frank L. Straight
Q	Kimberly A. Hoskins, et vir
R	Sharon Hosey Seckman
S	Erwin Patterson
T	Edward A. Schulte Jr.
U	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	20-31	Tony E. & Marion L. Crabtree	365/337	68.95
5	20-42	Sandra D. Derby	384/585	21.80
6	20-44	Tony E. & Marion L. Crabtree	365/337	4.50
7	22-40	Robert L. Jr. & Donna Jones	436/692	16.00
8	22-5	Robert L. Jr. & Donna K. Jones	297/500	76.00
9	22-14.1	Tony E. & Marion L. Crabtree	365/337	41.80
10	22-6	Denzil W. Sloan	305/582	21.23
11	22-19	Coastal Forest Resources Co.	444/105	155.30
12	22-20	Lawrence J. Bish, et al	420/736	63.23
13	22-29	Timothy L. Yoho	377/411	50.00
14	22-34	Coastal Forest Resources Co.	444/105	172.91
15	22-28	Coastal Forest Resources Co.	444/105	77.10
16	3-11	Dominic J. & Delmer M. Kowalski	317/307	106.94
17	25-2	Coastal Forest Resources Co.	444/105	61.93
18	25-3	Coastal Forest Resources Co.	444/105	32.00
19	25-5	Christopher & Dennis Doyle	410/80	39.36
20	3-12	David Schulte, et al	WB14/440	80.73
21	25-9	Christopher & Dennis Doyle	410/80	2.00
22	25-8	Christopher & Dennis Doyle	410/80	3.30
23	25-6	State of West Virginia Public Land Corp.	331/497	216.30
24	25-10	Christopher & Dennis Doyle	410/80	13.00
25	25-13	Christopher & Dennis Doyle	410/80	38.50
26	25-16	Coastal Forest Resources Co.	444/105	139.57

FILE NO: <u>329-34-G-17</u>	 STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OIL AND GAS DIVISION	DATE: <u>July 12</u> 20 <u>22</u>
DRAWING NO: <u>Orner 2H As-Drilled</u>		OPERATOR'S WELL NO. <u>Orner Unit 2H</u>
SCALE: <u>1" = 2000'</u>		API WELL NO
MINIMUM DEGREE OF ACCURACY: <u>Submeter</u>		<u>47</u> — <u>103</u> — <u>03429</u>
PROVEN SOURCE OF ELEVATION: <u>CORS, Monroe County, OH</u>		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. BRC Appalachian Minerals I, LLC (4); Sharon Hosey Seckman; Erwin Patterson; Christian Engle, et ux; Robert Okey Whiting; Kimberly A. Hoskins, et vir; J.M. Mayfield, et al; Tony Eugene Crabtree, et ux; Shiben Estates, Inc. (2); ROYALTY OWNER: Joan B. Hoge Trust; Waco Oil & Gas Co. Inc.; Terry Bartrug; William J. Walker; LEASE NO: _____ ACREAGE: 208 23.0; 137.0; 25.92.904; 68.95625; 20; 4.5; 76; 200; 50; 22.5; 39; 3.3; 47.5; 68.9563; 89; 244; 38.5

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled 7,223' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 24,066' MD

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