

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

API 47 - 103 - 03649 County Wetzel District Green  
Quad Pine Grove 7.5' Pad Name Galmish Field/Pool Name ----  
Farm name Dallison Lumber Inc. Well Number Pine 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 526176.930m Easting 4380884.405m  
Landing Point of Curve Northing 526299.63m Easting 4380264.67m  
Bottom Hole Northing 527522.008m Easting 4376735.029m

Elevation (ft) 1160.7' 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 5/20/2024 Date drilling commenced 5/27/2024 Date drilling ceased 8/29/2024  
Date completion activities began 10/24/2024 Date completion activities ceased 1/7/2025  
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 45', 130' Open mine(s) (Y/N) depths No  
Salt water depth(s) ft 1961' 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

APPROVED  
Reviewed by: [Signature]  
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API 47-103 - 03649 Farm name Dallison Lumber Inc. Well number Pine 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	28"	20"	135'	New	91.59#, J-55	N/A	Y
Surface	17-1/2"	13-3/8"	384'	New	54.5#, J-55	N/A	Y
Coal							
Intermediate 1	12-3/8"	9-5/8"	3565'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4" /8-1/2"	5-1/2"	21913'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	7128'		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	204 sx	15.6	1.18	241	0'	8 Hrs.
Surface	Class C	352 sx	15.8	1.17	412	0'	8 Hrs.
Coal							
Intermediate 1	Class C	1240 sx	15.8	1.16	1438	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	3655 sx (Tail)	13.5 (Spacer), 15.2(Tail)	1.31 (Tail)	4788	~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 21,913' MD, 7,127' TVD (BHL), 7,127' TVD (Deepest Point Drilled) Loggers TD (ft) 21,883' MD  
Deepest formation penetrated Marcellus Plug back to (ft) N/A  
Plug back procedure N/A

Kick off depth (ft) 6,274'

Check all wireline logs run ☐ caliper ☐ density ☐ deviated/directional ☐ induction  
☐ neutron ☐ resistivity ☐ gamma ray ☐ temperature

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

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PERFORATION RECORD

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

**\*PLEASE SEE ATTACHED EXHIBIT 1**


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**


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Please insert additional pages as applicable.

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PRODUCING FORMATION(S)

DEPTHS

Marcellus 7,040' (TOP) TVD 7,356' (TOP) MD

Please insert additional pages as applicable.

GAS TEST ☐ Build up ☐ Drawdown ☒ Open Flow

OIL TEST ☒ Flow ☐ Pump

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

OPEN FLOW Gas 9,944.46 mcfpd Oil 247.31 bpd NGL --- bpd Water 950.31 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 <sub>2</sub> 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 N Sam Houston Pkwy E. City Houston State TX Zip 77032

Stimulating Company Halliburton

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

Please insert additional pages as applicable.

Completed by Stefan Gaspar

Telephone 303-357-6959

Signature *S Gaspar* Title Permitting Agent Date 5/6/2025

Submittal of Hydraulic Fracturing Chemical Disclosure Information

Attach copy of FRACFOCUS Registry

05/23/2025



## EXHIBIT 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	10/24/2024	21829	21784	36	Marcellus
2	10/24/2024	21745.65972	21580.9583	36	Marcellus
3	10/24/2024	21545.61806	21380.9167	36	Marcellus
4	10/25/2024	21345.57639	21180.875	36	Marcellus
5	10/25/2024	21145.53472	20980.8333	36	Marcellus
6	10/26/2024	20945.49306	20780.7917	36	Marcellus
7	10/26/2024	20745.45139	20580.75	36	Marcellus
8	10/26/2024	20545.40972	20380.7083	36	Marcellus
9	10/27/2024	20345.36806	20180.6667	36	Marcellus
10	10/27/2024	20145.32639	19980.625	36	Marcellus
11	10/27/2024	19945.28472	19780.5833	36	Marcellus
12	10/28/2024	19745.24306	19580.5417	36	Marcellus
13	10/28/2024	19545.20139	19380.5	36	Marcellus
14	10/28/2024	19345.15972	19180.4583	36	Marcellus
15	10/29/2024	19145.11806	18980.4167	36	Marcellus
16	10/29/2024	18945.07639	18780.375	36	Marcellus
17	10/29/2024	18745.03472	18580.3333	36	Marcellus
18	10/29/2024	18544.99306	18380.2917	36	Marcellus
19	10/30/2024	18344.95139	18180.25	36	Marcellus
20	10/30/2024	18144.90972	17980.2083	36	Marcellus
21	10/31/2024	17944.86806	17780.1667	36	Marcellus
22	10/31/2024	17744.82639	17580.125	36	Marcellus
23	10/31/2024	17544.78472	17380.0833	36	Marcellus
24	11/1/2024	17344.74306	17180.0417	36	Marcellus
25	11/1/2024	17144.70139	16980	36	Marcellus
26	11/1/2024	16944.65972	16779.9583	36	Marcellus
27	11/2/2024	16744.61806	16579.9167	36	Marcellus
28	11/2/2024	16544.57639	16379.875	36	Marcellus
29	11/2/2024	16344.53472	16179.8333	36	Marcellus
30	11/3/2024	16144.49306	15979.7917	36	Marcellus
31	11/3/2024	15944.45139	15779.75	36	Marcellus
32	11/3/2024	15744.40972	15579.7083	36	Marcellus
33	11/4/2024	15544.36806	15379.6667	36	Marcellus
34	11/4/2024	15344.32639	15179.625	36	Marcellus
35	11/4/2024	15144.28472	14979.5833	36	Marcellus
36	11/5/2024	14944.24306	14779.5417	36	Marcellus
37	11/5/2024	14744.20139	14579.5	36	Marcellus
38	11/5/2024	14544.15972	14379.4583	36	Marcellus
39	11/5/2024	14344.11806	14179.4167	36	Marcellus
40	11/6/2024	14144.07639	13979.375	36	Marcellus
41	11/6/2024	13944.03472	13779.3333	36	Marcellus
42	11/6/2024	13743.99306	13579.2917	36	Marcellus
43	11/7/2024	13543.95139	13379.25	36	Marcellus
44	11/7/2024	13343.90972	13179.2083	36	Marcellus
45	11/8/2024	13143.86806	12979.1667	36	Marcellus
46	11/8/2024	12943.82639	12779.125	36	Marcellus
47	11/8/2024	12743.78472	12579.0833	36	Marcellus
48	11/8/2024	12543.74306	12379.0417	36	Marcellus
49	11/9/2024	12343.70139	12179	36	Marcellus
50	11/9/2024	12143.65972	11978.9583	36	Marcellus
51	11/9/2024	11943.61806	11778.9167	36	Marcellus
52	11/10/2024	11743.57639	11578.875	36	Marcellus
53	11/10/2024	11543.53472	11378.8333	36	Marcellus
54	11/10/2024	11343.49306	11178.7917	36	Marcellus
55	11/10/2024	11143.45139	10978.75	36	Marcellus
56	11/11/2024	10943.40972	10778.7083	36	Marcellus
57	11/11/2024	10743.36806	10578.6667	36	Marcellus
58	11/11/2024	10543.32639	10378.625	36	Marcellus
59	11/12/2024	10343.28472	10178.5833	36	Marcellus
60	11/12/2024	10143.24306	9978.54167	36	Marcellus
61	11/12/2024	9943.201389	9778.5	36	Marcellus
62	11/13/2024	9743.159722	9578.45833	36	Marcellus
63	11/13/2024	9543.118056	9378.41667	36	Marcellus
64	11/13/2024	9343.076389	9178.375	36	Marcellus
65	11/13/2024	9143.034722	8978.33333	36	Marcellus
66	11/14/2024	8942.993056	8778.29167	36	Marcellus
67	11/14/2024	8742.951389	8578.25	36	Marcellus
68	11/14/2024	8542.909722	8378.20833	36	Marcellus
69	11/14/2024	8342.868056	8178.16667	36	Marcellus
70	11/15/2024	8142.826389	7978.125	36	Marcellus
71	11/15/2024	7942.784722	7778.08333	36	Marcellus
72	11/15/2024	7742.743056	7578.04167	36	Marcellus
73	11/16/2024	7542.701389	7378	36	Marcellus

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API 47-103-03649 Farm Name Dailison Lumber Inc. Well Number Pine Unit 2H								
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	10/24/2024	78.26658	10317.79	7839.71	3645.203	168860	5007.8333	N/A
2	10/24/2024	88.9186	10281.51	7038	4151.429	395950	7519.9286	N/A
3	10/24/2024	88.52756	10379.51	6529.83	4104.14	400940	7141.5	N/A
4	10/25/2024	88.30369	10534.77	6643.68	4251	414440	7328.4762	N/A
5	10/25/2024	79.92696	10263.19	7044.4	4454	401090	8417.8333	N/A
6	10/26/2024	87.54199	10134.71	6576	4382.384	396350	7267.5476	N/A
7	10/26/2024	90.09222	10371.67	6713.06	4328	411380	7206.9762	N/A
8	10/26/2024	93.56993	10411.76	6517.79	4382.006	413900	7235.5952	N/A
9	10/27/2024	90.50187	10341.82	6746.78	4487	402970	7001.2143	N/A
10	10/27/2024	86.86515	10575.32	6266.98	4872	398510	7154	N/A
11	10/27/2024	91.55189	10201.84	6472.38	4909	402360	7002.7619	N/A
12	10/28/2024	94.91455	10366.29	5901.77	5107	401780	6956.3095	N/A
13	10/28/2024	93.46074	10557.37	6564.65	4984	399380	7119.2857	N/A
14	10/28/2024	94.32355	10296.65	6664.08	4407	401790	6946.5238	N/A
15	10/29/2024	97.02109	10422.61	6418.79	4643	401700	6945.4762	N/A
16	10/29/2024	95.1449	10314.98	6381.24	4261.956	399290	7114.1905	N/A
17	10/29/2024	96.23079	10386.93	6317.72	4374.605	401000	7084.4762	N/A
18	10/29/2024	97.95412	10388.28	6362.1	4632	404860	6897.9762	N/A
19	10/30/2024	97.52385	10409.59	6613.77	4567	405560	6903.2143	N/A
20	10/30/2024	96.05353	10261.38	6235.64	4626	403050	7038.9048	N/A
21	10/31/2024	98.51013	10374.19	6442.12	4583	406680	7061.6667	N/A
22	10/31/2024	95.87732	10392.73	6870.68	4187.585	398400	7056.6429	N/A
23	10/31/2024	97.77034	10007.05	6002.15	5003	400790	7639.8095	N/A
24	11/1/2024	96.42351	9798.617	6519.96	4389.983	397850	7060.4762	N/A
25	11/1/2024	96.44579	9771.425	6661.24	4449.923	398960	7065.9762	N/A
26	11/1/2024	98.58949	9938.931	6712.97	4722	403970	6942.881	N/A
27	11/2/2024	96.77477	9872.471	6618.38	4345.517	398060	7015.3571	N/A
28	11/2/2024	96.11886	9746.537	6662.74	4026.124	404530	7032.881	N/A
29	11/2/2024	97.84095	10036.84	6696.87	4054.18	400610	6882.1905	N/A
30	11/3/2024	97.82417	9881.159	6424.13	4378	399360	6859.7619	N/A
31	11/3/2024	96.41719	9788.308	6090.22	3982.071	396790	6952.2857	N/A
32	11/3/2024	97.35878	9832.853	6651.22	4502	407980	6927.4762	N/A
33	11/4/2024	98.489	9980.86	6338.6	4631	401620	6926.381	N/A
34	11/4/2024	95.74168	9834.974	6450.94	4199.351	398870	6986.4048	N/A
35	11/4/2024	97.33541	9876.181	6488.87	4285	397600	6890.119	N/A
36	11/5/2024	98.57434	9842.293	5614.06	4562	402700	6911.7381	N/A
37	11/5/2024	97.0612	9809.42	6317.67	4187.285	401690	7056.4286	N/A
38	11/5/2024	96.38587	9576.599	5841.06	4163.911	398160	6919.5476	N/A
39	11/5/2024	96.05035	9578.8	6001.45	4689	417840	7140.5714	N/A
40	11/6/2024	96.58836	9651.949	6080.47	4005.003	416260	7068.1667	N/A
41	11/6/2024	97.28845	9522.977	5918.76	3943.137	399510	6914.619	N/A
42	11/6/2024	96.95745	9248.024	6170.53	4622	402450	7071.0952	N/A
43	11/7/2024	96.91094	9341.459	5897.07	4118.088	397680	6870.2381	N/A
44	11/7/2024	96.87033	9314.289	5990.29	4109.119	399090	6891.3333	N/A
45	11/8/2024	96.47707	9324.016	6276.43	4767	405080	7180	N/A
46	11/8/2024	97.26905	9478.322	6527.86	3888.45	412580	7089.9286	N/A
47	11/8/2024	96.43853	9050.97	5861.81	3935.779	418980	7118.7143	N/A
48	11/8/2024	97.07182	9067.717	5671.24	4487	399020	6978.9762	N/A
49	11/9/2024	96.4128	9079.147	6039.13	4017.371	395750	6882.4048	N/A
50	11/9/2024	97.33517	9217.704	5896.49	3899.887	401680	6925.2619	N/A
51	11/9/2024	97.26472	8994.445	5769.81	4750	416120	7115.9762	N/A
52	11/10/2024	96.94936	8935.842	5694.51	4158	397500	7004.619	N/A
53	11/10/2024	97.53617	9159.375	5856.15	3780.145	400610	6897.7857	N/A
54	11/10/2024	97.14102	9109.874	5604.23	3740.96	403690	6932.381	N/A
55	11/10/2024	96.24789	8798.476	5631.23	4125	401970	6971.2857	N/A
56	11/11/2024	96.20946	8744.066	5912.38	4082	399060	6770.2381	N/A
57	11/11/2024	97.03146	8376.51	5830.04	4198.343	419240	6957.4048	N/A
58	11/11/2024	97.76025	8481.824	5814.76	4251	418860	7017.5	N/A
59	11/12/2024	97.5608	8420.096	6192.41	4469	416600	6760.2619	N/A
60	11/12/2024	98.20587	8404.572	5836.25	4280.811	415580	6743.619	N/A
61	11/12/2024	96.9585	8115.81	5968.94	4257	421060	6925.0714	N/A
62	11/13/2024	96.22908	8145.806	5831.13	4478	415740	6913.0238	N/A
63	11/13/2024	98.16935	8175.647	5951.46	4435	421900	6805.9762	N/A
64	11/13/2024	98.41031	8301.83	5816.53	4416	420480	6766.8333	N/A
65	11/13/2024	96.81283	7975.549	5722.88	4402	414520	6857.4762	N/A
66	11/14/2024	97.39437	8259.886	5965.52	4478	419780	6971.8571	N/A
67	11/14/2024	97.5445	7943.032	6165.54	4535	393030	6601.7381	N/A
68	11/14/2024	97.62893	7970.063	6036.48	4324.693	400550	6593.381	N/A
69	11/14/2024	97.61157	7797.604	5842.25	4489	394280	6629	N/A
70	11/15/2024	90.70454	7457.715	6044.11	4581	398140	6689.3333	N/A
71	11/15/2024	97.4101	7907.634	6361.23	4206	389910	6484.5476	N/A
72	11/15/2024	97.64816	7636.369	5569.94	3928.81	396820	6673.7381	N/A
73	11/16/2024	97.52102	7647.069	6441.38	4120	399780	6778.4048	N/A
AVERAGE		95.5	9,428	6,239	4,345	29,280,920	508,471	0

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**EXHIBIT 3**

LITHOLOGY/ FORMATION	TOP DEPTH (TVD) From Surface	BOTTOM DEPTH (TVD) From Surface	TOP DEPTH (MD) From Surface	BOTTOM DEPTH (MD) From Surface
Sandstone	370	570	370	570
Sandstone, scat MICA	570	670	570	670
Sandstone	670	970	670	970
Limestone, rr SS, tr coal	870	1,020	870	1,020
Sandstone, tr LS	970	1,020	970	1,020
Sandy Siltstone, tr LS	1,020	1,320	1,020	1,320
Silty Sandstone, tr Coal	1,320	1,520	1,320	1,520
Sandstone, rr SLTST	1,520	1,670	1,520	1,670
Silty Sandstone, occ Coal	1,670	1,770	1,670	1,770
Sandstone, com SLTST, tr mica	1,770	1,920	1,770	1,920
Sandstone, occ SLTST	1,920	1,970	1,920	1,970
Silty Sandstone	1,970	2,070	1,970	2,070
Silty Sandstone, tr Coal	2,070	2,120	2,070	2,120
Siltstone	2,120	2,170	2,120	2,170
Siltstone, tr LS	2,170	2,069	2,170	2,075
Big Lime	2,099	2,905	2,075	2,923
Fifty Foot Sandstone	2,905	2,975	2,893	2,994
Gordon	2,975	3,212	2,964	3,234
Fifth Sandstone	3,212	3,547	3,204	3,573
Bayard	3,547	3,970	3,543	4,003
Speechley	3,970	4,111	3,973	4,146
Balltown	4,111	4,565	4,116	4,610
Bradford	4,565	5,144	4,580	5,197
Benson	5,144	5,599	5,167	5,658
Alexander	5,599	6,817	5,628	6,926
Sycamore	6,656	6,787	6,737	6,896
Middlesex	6,787	6,887	6,896	7,044
Burkett	6,887	6,918	7,044	7,100
Tully	6,918	7,010	7,100	7,326
Marcellus	7,010	NA	7,326	NA

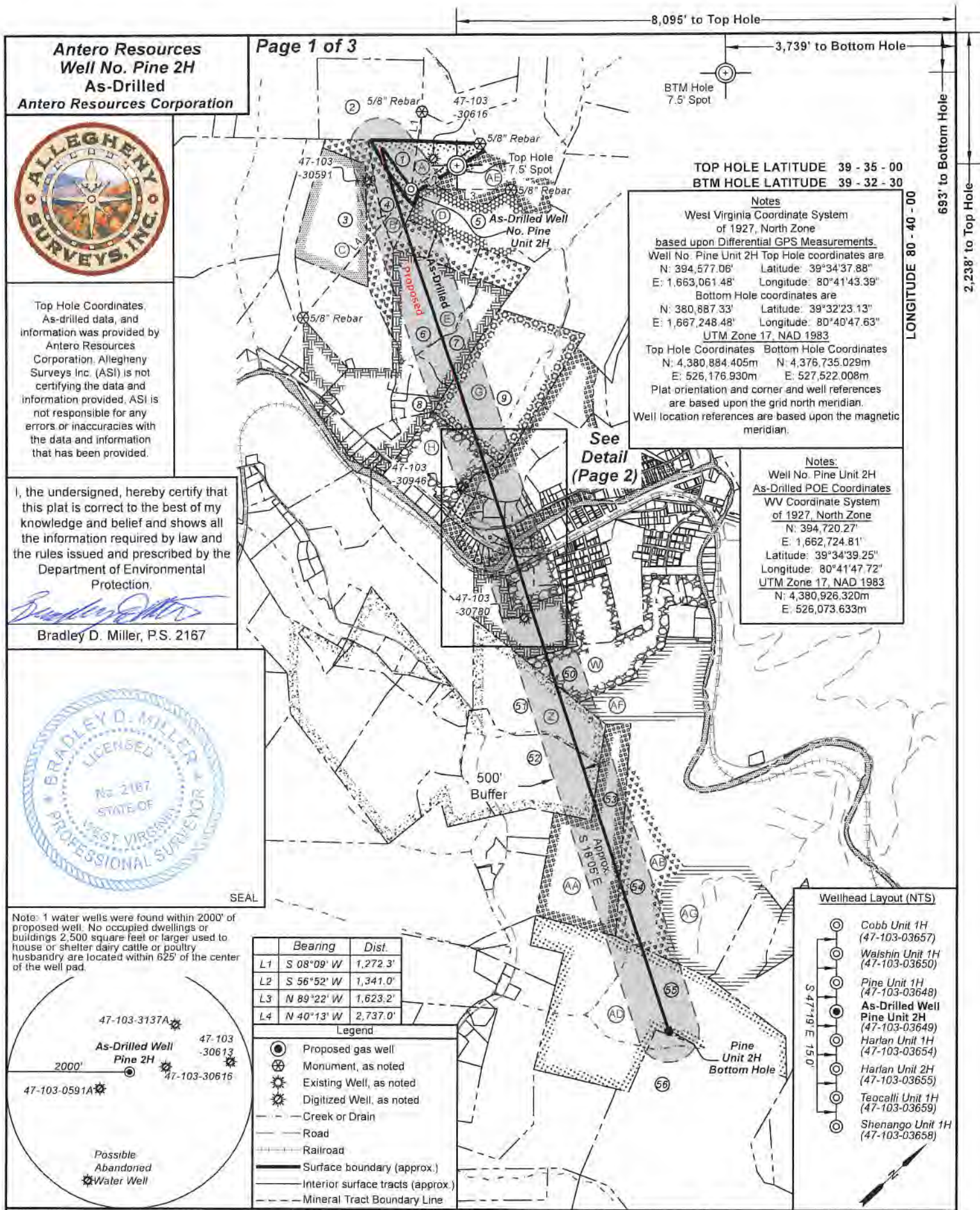
RECEIVED  
Office of Oil and Gas

MAY 07 2025

WV Department of  
Environmental Protection

05/23/2025





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

Page 1 of 3



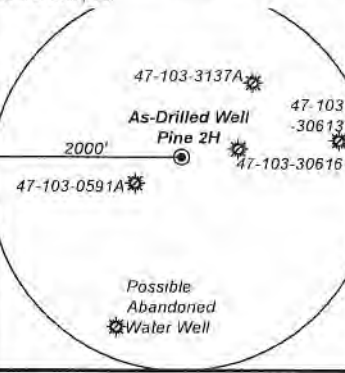
Top Hole Coordinates, As-drilled data, and information was provided by Antero Resources Corporation. Allegheny Surveys Inc. (ASI) is not certifying the data and information provided, ASI is not responsible for any errors or inaccuracies with the data and information that has been provided.

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, P.S. 2167



Note: 1 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	S 08°09' W	1,272.3'
L2	S 56°52' W	1,341.0'
L3	N 89°22' W	1,623.2'
L4	N 40°13' W	2,737.0'

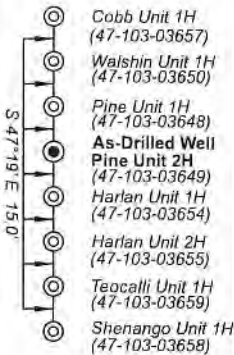
- Legend
- Proposed gas well
  - Monument, as noted
  - Existing Well, as noted
  - Digitized Well, as noted
  - Creek or Drain
  - Road
  - Railroad
  - Surface boundary (approx.)
  - Interior surface tracts (approx.)
  - Mineral Tract Boundary Line

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. Pine Unit 2H Top Hole coordinates are  
N: 394,577.06' Latitude: 39°34'37.88"  
E: 1,663,061.48' Longitude: 80°41'43.39"  
Bottom Hole coordinates are  
N: 380,887.33' Latitude: 39°32'23.13"  
E: 1,667,248.48' Longitude: 80°40'47.63"  
UTM Zone 17, NAD 1983  
Top Hole Coordinates Bottom Hole Coordinates  
N: 4,380,884.405m N: 4,376,735.029m  
E: 526,176.930m E: 527,522.008m  
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. Pine Unit 2H As-Drilled POE Coordinates  
WV Coordinate System of 1927, North Zone  
N: 394,720.27'  
E: 1,662,724.81'  
Latitude: 39°34'39.25"  
Longitude: 80°41'47.72"  
UTM Zone 17, NAD 1983  
N: 4,380,926.320m  
E: 526,073.633m

Wellhead Layout (NTS)



FILE NO: 128-34-G-18  
DRAWING NO: Pine 2H As-Drilled  
SCALE: 1" = 2000'  
MINIMUM DEGREE OF ACCURACY: Submeter  
PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

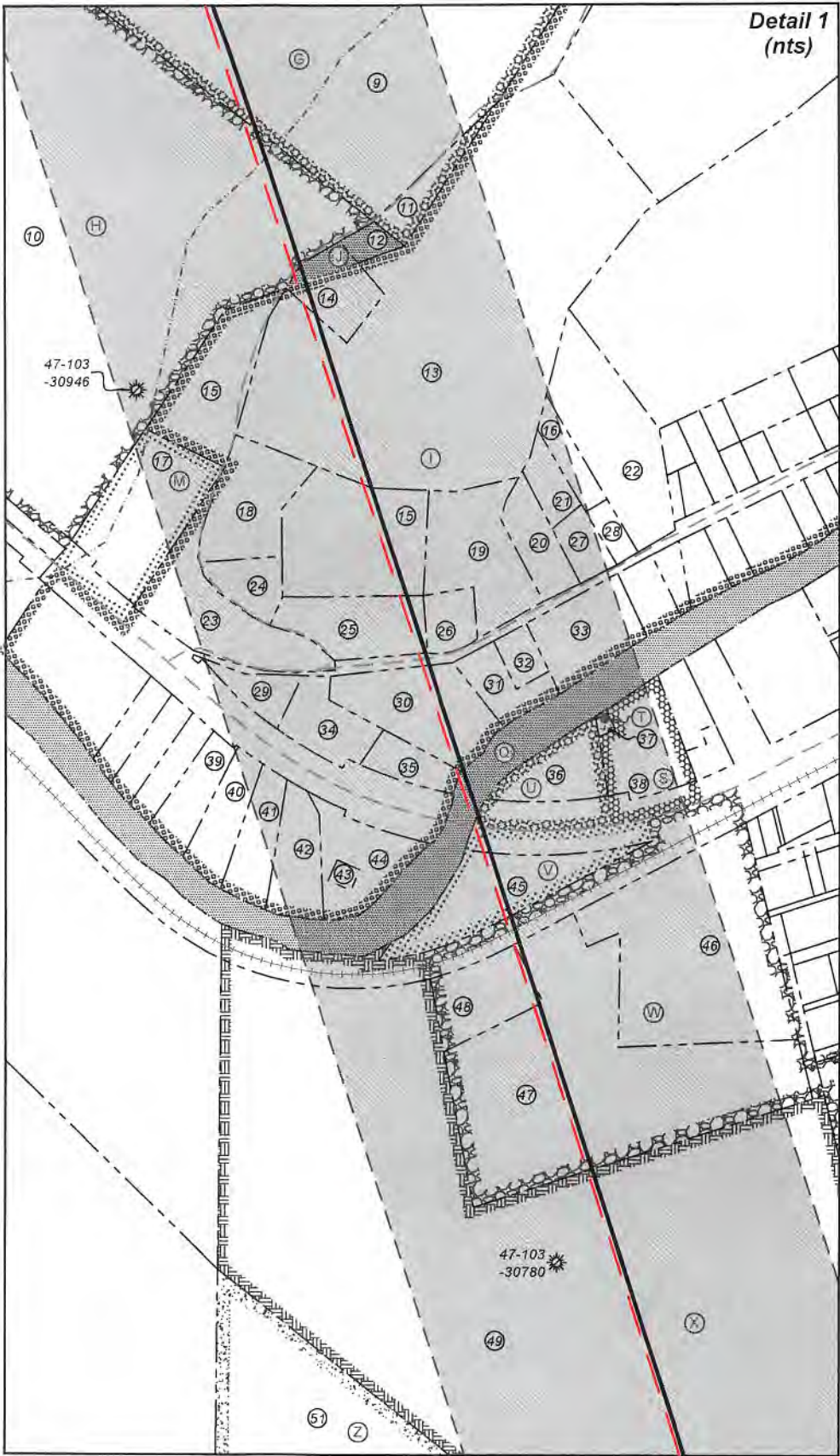
STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OIL AND GAS DIVISION

DATE: April 7 20 25  
OPERATOR'S WELL NO. Pine 2H  
API WELL NO  
47 103 03649  
STATE COUNTY PERMIT

WELL TYPE: ☐ OIL ☒ GAS ☐ LIQUID INJECTION ☐ WASTE DISPOSAL  
(IF GAS) PRODUCTION: ☐ STORAGE ☐ DEEP ☒ SHALLOW  
LOCATION: ELEVATION: As-Built 1,160.7' WATERSHED: Fishing Creek  
DISTRICT: Green Dallon  
SURFACE OWNER: Lumber Inc.  
ROYALTY OWNER: Robert Barry Myers, Jr. LEASE NO: ACREAGE: 25  
PROPOSED WORK: ☐ DRILL ☐ CONVERT ☐ DRILL DEEPER ☐ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION  
☐ PERFORATE NEW FORMATION ☒ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled 7,127' TVD  
☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 21,913' MD

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





FILE NO: 128-34-G-18  
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MINIMUM DEGREE OF ACCURACY:  
Submeter  
PROVEN SOURCE OF ELEVATION:  
WVDOT, Harrisville, WV



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(IF GAS) PRODUCTION: ☐ STORAGE ☐ DEEP ☒ SHALLOW  
LOCATION: ELEVATION: As-Built 1,160.7' WATERSHED: Fishing Creek QUADRANGLE: Pine Grove  
DISTRICT: Green Dallison COUNTY: Wetzel  
SURFACE OWNER: Lumber Inc. ACREAGE: 25  
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Denver, CO 80202 Bridgeport, WV 26330





Leases	
A	Robert Barry Myers, Jr.
B	Freedra Marie Brown
C	Clarice Ann Brown LeMasters
D	Aunix Energy, LLC
E	Bounty Minerals, LLC
G	David E. Bowyer
H	James E. Coen, et ux
I	T.H. Alley & Mary M. Alley
J	Michael W. Long, et ux
M	Lauren Dennis Roesner, Sr.
Q	WVDNR
S	Pine Grove Christian Church
T	Town of Pine Grove
U	Marlene Sue Barr
V	JMR Properties, LLC
W	Antero Minerals, LLC
X	Clay D. C. Dallison, et al
Z	Three Rivers Royalty II, LLC
AA	J.L. Newman
AB	BRC Appalachian Minerals I, LLC
AD	Ridgetop Appalachia, LLC
AE	Robert Barry Myers, Jr.
AF	Chesapeake Appalachia, LLC
AG	A. J. Wichterman, et al

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2	9-58	Dallison Lumber Inc.	474/290	32.00
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4	14-8	Clarice Ann Brown Lemasters	223/127	9.00
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6	14-30.1	Richard D. & Josielie V. Chapple	310/327	44.75
7	14-30.10	Cynthia L. & Terry L. Adams	347/706	20.67
8	14-30.11	Alan & Debra Miller	310/425	3.88
9	14-32	Community Sportsman Club	176/370	79.52
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11	14-32.1	Carlton G. & Barbara P. Norris	285/193	0.46
12	14-39.2	Robin Lynette Wadsworth, et al	416/421	0.20
13	14-33.3	Carlton G. & Barbara P. Norris	285/193	12.32
14	14-33.1	Robin Lynette Wadsworth, et al	416/421	0.72
15	14-33	Eva Arlene Adams	466/664	6.00
16	4-9	Church of Christ Pine Grove	244/192	0.79
17	5-10	John Edward Bell	405/468	1.92
18	14-33.6	Gary Lee & Kimberly J. Tennant	410/658	1.00
19	14-33.8	Charles S. & Constance S. Amos	446/391	1.54
20	4-6	Twila S. Kinkade	289/97	0.76
21	4-7.1	Church of Christ Pine Grove	244/192	1.10
22	4-8	Robert Lawson	479/531	1.32
23	5-11	Mountain State Telephone Company	286/262	1.70
24	14-33.7	Gary Lee & Kimberly J. Tennant	410/658	0.48
25	5-15	Eva Arlene Adams	466/664	1.00
26	5-16	Charles S. & Constance S. Amos	446/391	0.39
27	4-7	Timmy J. & Stacie M. Starkey	351/150	0.35
28	4-9.1	Church of Christ Pine Grove	244/192	0.21
29	5-12	Mary M. Phillips, et al	A90/636	0.54
30	5-14	Timothy Jack Davis	470/344	2.00
31	4-88	Timothy Jack Davis	470/344	0.99
32	4-88.1	Town of Pine Grove	341/615	0.27
33	4-89	Church of Christ Pine Grove	213/376	1.12
34	5-13	RANAO, Inc.	458/45	0.70
35	5-13.1	Magnolia Associates, LLC	388/87	0.38
36	4-84	Beverly L. Barr	488/937	0.81
37	4-82.1	Town of Pine Grove	454/722	0.04
38	4-82	The First Christian Church of Pine Grove	225/461	1.07
39	5-5	Priscilla Rebekah Lodge #296, Inc.	254/52	0.55
40	5-6	Priscilla Rebekah Lodge #296, Inc.	254/52	0.64
41	5-7	Priscilla Rebekah Lodge #296, Inc.	254/52	0.64
42	5-8	Priscilla Rebekah Lodge #296, Inc.	254/52	0.77
43	5-9.1	Town of Pine Grove	454/720	0.07
44	5-9	Wetzel County Hospital Wetzel County Commission	383/419	0.85
45	4-85	JMR Properties, LLC	416/607	1.71
46	4-87.1	Wetzel County BOE	289/235	4.29
47	4-87	Wetzel County BOE	350/707	9.79
48	4-87.2	Town of Pine Grove	337/148	0.90
49	18-1	Dallison Lumber Inc	392/637	32.00
50	16-2	Robert D. & Nancy L. Streets	219/100	33.70
51	18-2	Michael E. Goodrich	380/383	72.83
52	18-3	Kenneth K. Parks	W125/832	62.45
53	18-3.1	Dominion Gathering & Processing, Inc.	460/781	150.00
54	16-8	Dominion Gathering & Processing, Inc.	460/781	572.05
55	18-10	Paul U. & Betty A. Garber Revocable Living Trust	474/722	150.00
56	4-21-3	WV Conservation Commission	207/239	5,104.5

FILE NO: 128-34-G-18  
DRAWING NO: Pine 2H As-Drilled  
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: April 7 20 25  
OPERATOR'S WELL NO. Pine 2H  
API WELL NO  
47 - 103 - 03649  
STATE COUNTY PERMIT

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(IF GAS) PRODUCTION: ☐ STORAGE ☐ DEEP ☒ SHALLOW  
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DISTRICT: Green COUNTY: Wetzel  
SURFACE OWNER: Dallison Lumber Inc. ACREAGE: 25  
ROYALTY OWNER: Robert Barry Myers, Jr. LEASE NO: ACREAGE: 25  
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☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 7,127' TVD 21,913' MD

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




Antero Resources

Well No. Pine 2H

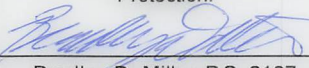
As-Drilled

Antero Resources Corporation




Top Hole Coordinates, As-drilled data, and information was provided by Antero Resources Corporation. Allegheeny 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.

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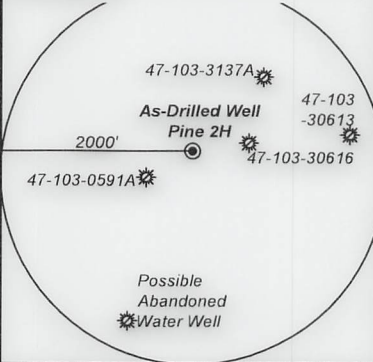


Bradley D. Miller, P.S. 2167

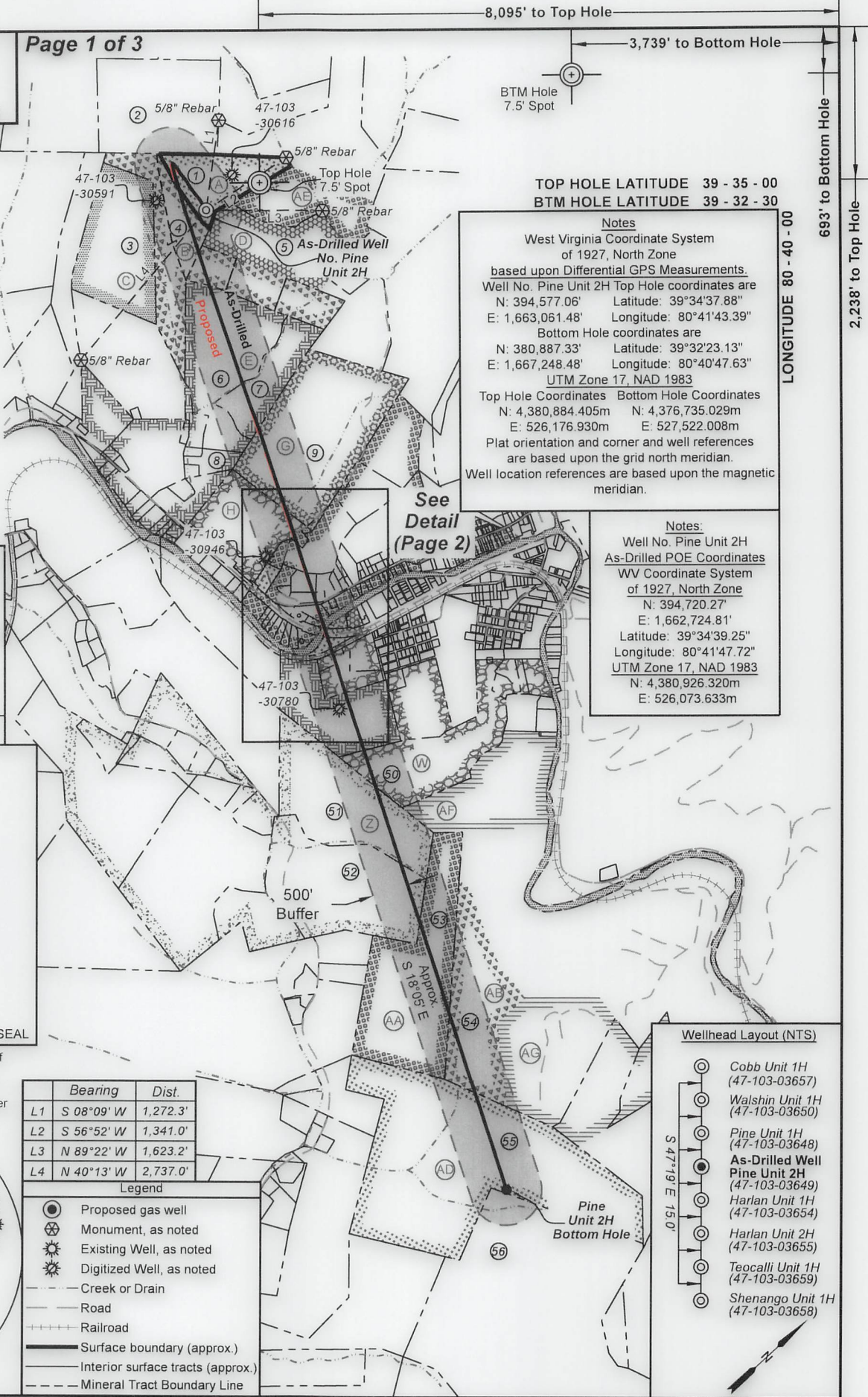


SEAL

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Page 1 of 3



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.

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Legend

Proposed gas well

Monument, as noted

Existing Well, as noted

Digitized Well, as noted

Creek or Drain

Road

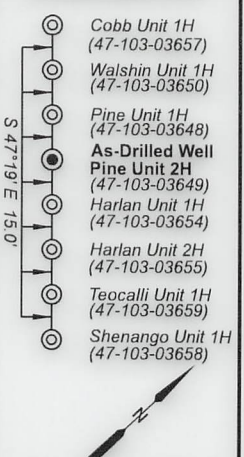
Railroad

Surface boundary (approx.)

Interior surface tracts (approx.)

Mineral Tract Boundary Line

Wellhead Layout (NTS)



FILE NO: 128-34-G-18

DRAWING NO: Pine 2H As-Drilled

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: April 7 20 25

OPERATOR'S WELL NO. Pine 2H

API WELL NO

47 - 103 - 03649

STATE COUNTY PERMIT

WELL TYPE: ☐ OIL    ☒ GAS    ☐ LIQUID INJECTION    ☐ WASTE DISPOSAL

(IF GAS) PRODUCTION:    ☐ STORAGE    ☐ DEEP    ☒ SHALLOW

LOCATION: ELEVATION: As-Built 1,160.7'    WATERSHED: Fishing Creek    QUADRANGLE: Pine Grove

DISTRICT: Green    Dallison    COUNTY: Wetzel 05/23/2025

SURFACE OWNER: Lumber Inc.    ACREAGE: 25

ROYALTY OWNER: Robert Barry Myers, Jr.    LEASE NO:    ACREAGE: 25

PROPOSED WORK: ☐ DRILL    ☐ CONVERT    ☐ DRILL DEEPER    ☐ FRACTURE OR STIMULATE    ☐ PLUG OFF OLD FORMATION

☐ PERFORATE NEW FORMATION    ☒ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled    7,127' TVD

☐ PLUG AND ABANDON    ☐ CLEAN OUT AND REPLUG    TARGET FORMATION: Marcellus Shale    ESTIMATED DEPTH: 21,913' MD

WELL OPERATOR: Antero Resources Corporation

DESIGNATED AGENT: Conrad Baston

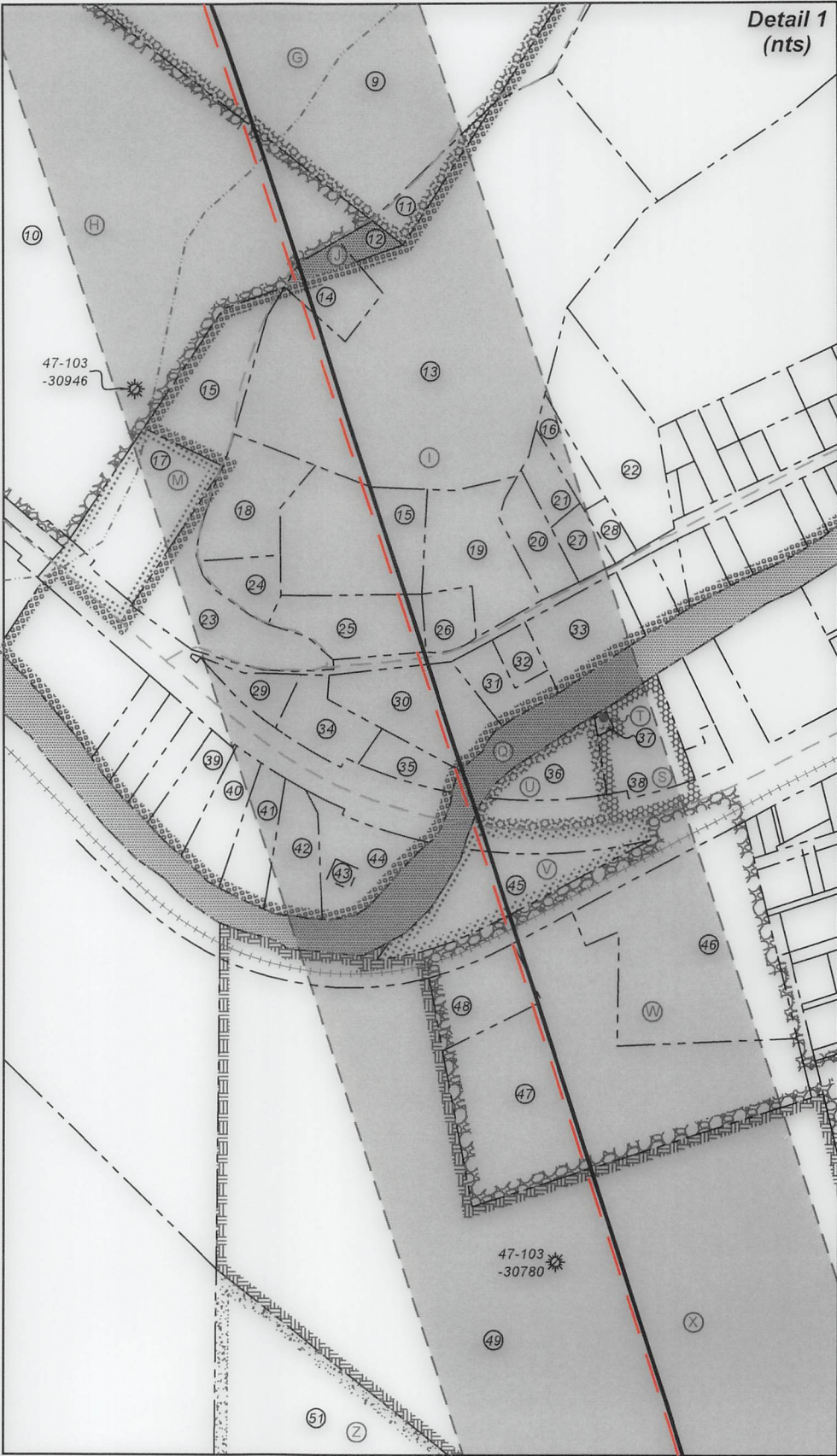
ADDRESS: 1615 Wynkoop Street

ADDRESS: 535 White Oaks Blvd.

Denver, CO 80202

Bridgeport, WV 26330





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40	5-6	Priscilla Rebekah Lodge #296, Inc.	254/52	0.64
41	5-7	Priscilla Rebekah Lodge #296, Inc.	254/52	0.64
42	5-8	Priscilla Rebekah Lodge #296, Inc.	254/52	0.77
43	5-9.1	Town of Pine Grove	454/720	0.07
44	5-9	Wetzel County Hospital Wetzel County Commission	383/419	0.85
45	4-85	JMR Properties, LLC	416/607	1.71
46	4-87.1	Wetzel County BOE	289/235	4.29
47	4-87	Wetzel County BOE	350/707	9.79
48	4-87.2	Town of Pine Grove	337/148	0.90
49	18-1	Dallison Lumber Inc	392/637	32.00
50	16-2	Robert D. & Nancy L. Streets	219/100	33.70
51	18-2	Michael E. Goodrich	380/383	72.83
52	18-3	Kenneth K. Parks	W125/832	62.45
53	18-3.1	Dominion Gathering & Processing, Inc.	460/781	150.00
54	16-8	Dominion Gathering & Processing, Inc.	460/781	572.05
55	18-10	Paul U. & Betty A. Garber Revocable Living Trust	474/722	150.00
56	4-21-3	WV Conservation Commission	207/239	5,104.5

FILE NO: 128-34-G-18  
DRAWING NO: Pine 2H As-Drilled  
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

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

DATE: April 7 2025  
OPERATOR'S WELL NO. Pine 2H  
API WELL NO  
47 - 103 - 03649  
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built 1,160.7' WATERSHED: Fishing Creek QUADRANGLE: Pine Grove  
DISTRICT: Green Dallison COUNTY: Wetzel  
SURFACE OWNER: Lumber Inc. ACREAGE: 25  
ROYALTY OWNER: Robert Barry Myers, Jr. LEASE NO: ACREAGE: 25  
PROPOSED WORK: ☐ DRILL ☐ CONVERT ☐ DRILL DEEPER ☐ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION  
☐ PERFORATE NEW FORMATION ☒ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled 7,127' TVD  
☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 21,913' MD

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



## Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	10/24/2024
Job End Date:	11/15/2024
State:	West Virginia
County:	Wetzel
API Number:	47-103-03649-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	PINE Unit 2H
Latitude:	39.577271
Longitude:	-80.695205
Datum:	WGS84
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7127
Total Base Water Volume (gal)*:	22260286
Total Base Non Water Volume:	0



Water Source	Percent
Produced Water	100.00%

RECEIVED  
Office of Oil and Gas  
MAY 07 2025  
WV Department of  
Environmental Protection

## 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					
HAI-501	Halliburton	Acid Corrosion Inhibitor					
HYDROCHLORIC ACID, 28%	Halliburton	Solvent					
LCA-1	Halliburton	Solvent					
MC B-8123	MultiChem	Biocide					
OPTIFLO-II DELAYED RELEASE BREAKER	Halliburton	Breaker					
Produced Water (Density 8.8)	Operator	Base Fluid					
Sand-Common White-100 Mesh, SSA-2	Halliburton	Proppant					

05/23/2025



WG-36 GELLING AGENT	Halliburton	Gelling Agent					
Items above are Trade Names. Items below are the individual ingredients.							
			Water	7732-18-5	100.00000	86.79428	None
			Crystalline silica, quartz	14808-60-7	100.00000	12.97367	None
			Water	7732-18-5	100.00000	0.19668	None
			Hydrochloric acid	7647-01-0	30.00000	0.04795	None
			Complex amine compound	Proprietary	60.00000	0.02712	None
			Hydrotreated distillate	Proprietary	100.00000	0.01356	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	0.00750	None
			Guar gum	9000-30-0	100.00000	0.00563	None
			Hydrotreated light petroleum distillates	64742-47-8	30.00000	0.00375	None
			Ammonium chloride	12125-02-9	5.00000	0.00288	None
			Glutaraldehyde	111-30-8	30.00000	0.00256	None
			Fatty nitrogen derived amides	Proprietary	5.00000	0.00226	None
			Ethoxylated alcohol	Proprietary	5.00000	0.00226	None
			Amides, tall-oil fatty, N,N-bis(hydroxyethyl)	68155-20-4	5.00000	0.00062	None
			Ethoxylated branched C13 alcohol	78330-21-9	5.00000	0.00062	None
			Sorbitan monooleate polyoxyethylene derivative	9005-65-6	1.00000	0.00058	None
			Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8	1.00000	0.00045	None
			Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1	5.00000	0.00043	None
			Methanol	67-56-1	100.00000	0.00024	None
			Ammonium persulfate	7727-54-0	100.00000	0.00014	None
			Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8	1.00000	0.00012	None
			Citric acid	77-92-9	1.00000	0.00009	None
			Mixture of dimer and trimer fatty acids of indefinite composition derived from tall oil	61790-12-3	30.00000	0.00007	None

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			Modified thiourea polymer	Proprietary	30.00000	0.00007	None
			Oxylated phenolic resin	Proprietary	30.00000	0.00004	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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