

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

API 47-095-02894 County THL: Tyler, BHL: Pleasants District THL: Meade, BHL: Union
Quad Bens Run Pad Name Wrigley Pad Field/Pool Name ----
Farm name Shirley J. Wells & Susie Cunningham Well Number Oxbow 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 4363541.467m Easting 499302.736m
Landing Point of Curve Northing 4363490.05m Easting 498401.94m
Bottom Hole Northing 4367940.141m Easting 496785.098m

Elevation (ft) 937' 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 7/24/24 Date drilling commenced 9/25/2024 Date drilling ceased 11/2/2024
Date completion activities began 12/21/2024 Date completion activities ceased 1/22/2025
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 397' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 1436', 1847' 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:

05/16/2025

API 47-095 - 02894 Farm name Shirley J. Wells & Susie Cunningham Well number Oxbow Unit 1H

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/ N) * Provide details below*
Conductor	28"	20"	125.5'	New	91.59#, J-55	N/A	Y
Surface	17-1/2"	13-3/8"	501'	New	54.5#, J-55	N/A	Y
Coal							
Intermediate 1	12-3/8"	9-5/8"	3527'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	22732'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	6673'		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 ²)	Cement Top (MD)	WOC (hrs)
Conductor	Class A	158 sx	15.6	1.18	186	0'	8 Hrs.
Surface	Class A	447 sx	15.6	1.19	532	0'	8 Hrs.
Coal							
Intermediate 1	Class H	sx	15.6			0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class G	4400 sx (Lead)	13.5 (Lead), 15.2 (Tail)	1.26 (Lead)	5544	~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 22732' MD, 5971' TVD (BHL), 6071' (Deepest Point Drilled) Loggers TD (ft) 22732' MD

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

Plug back procedure N/A

Kick off depth (ft) 6049'

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

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WAS WELL COMPLETED OPEN HOLE? ☐ Yes ☒ No DETAILS

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

05/16/2025

5/14/25

Farm name Shirley J. Wells & Susie Cunningham Well number Oxbow Unit 1H

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

***PLEASE SEE ATTACHED EXHIBIT 1**

[illegible]

STIMULATION INFORMATION PER STAGE

[illegible]

***PLEASE SEE ATTACHED EXHIBIT 2**

[illegible]

Please insert additional pages as applicable.

05/16/2025

2025

API 47- 095 - 02894 Farm name Shirley J. Wells & Susie Cunningham Well number Oxbow Unit 1H

PRODUCING FORMATION(S)

DEPTHS

Marcellus 5999' (TOP) TVD 6897' (TOP) MD

Please insert additional pages as applicable.

GAS TEST ☐ Build up ☐ Drawdown ☒ Open Flow OIL TEST ☒ Flow ☐ Pump

SHUT-IN PRESSURE Surface 1190 psi Bottom Hole --- psi DURATION OF TEST --- hrs

OPEN FLOW Gas 13905.27 mcfpd Oil 463.01 bpd NGL --- bpd Water 1539.71 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**

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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 Raptor Consulting, Inc

Address 80 Emerson Ln #1307 City Bridgeville State PA Zip 15017

Cementing Company SLB Cementing

Address 5599 San Felipe St Fl 17 City Houston State TX Zip 77056

Stimulating Company Halliburton

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

Please insert additional pages as applicable.

Completed by Carly Wren

Telephone 303-357-7373

Signature Carly Wren Title Permitting Agent Date 4/14/2025

Submittal of Hydraulic Fracturing Chemical Disclosure Information

Attach copy of FRACFOCUS Registry

05/16/2025

API 47-025-02894 Farm Name Shirley J. Wells & Susie Cunningham Well Number Oxbow Unit 1H					
Exhibit 1					
Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	12/21/2024	22677	22662	36	Marcellus
2	12/21/2024	22623.8481	22460.0886	36	Marcellus
3	12/21/2024	22424.93671	22261.1772	36	Marcellus
4	12/22/2024	22226.02532	22062.2658	36	Marcellus
5	12/22/2024	22027.11392	21863.3544	36	Marcellus
6	12/22/2024	21828.20253	21664.443	36	Marcellus
7	12/22/2024	21629.29114	21465.5316	36	Marcellus
8	12/23/2024	21430.37975	21266.6203	36	Marcellus
9	12/23/2024	21231.46835	21067.7089	36	Marcellus
10	12/23/2024	21032.55696	20868.7975	36	Marcellus
11	12/23/2024	20833.64557	20669.8861	36	Marcellus
12	12/24/2024	20634.73418	20470.9747	36	Marcellus
13	12/24/2024	20435.82278	20272.0633	36	Marcellus
14	12/24/2024	20236.91139	20073.1519	36	Marcellus
15	12/24/2024	20038	19874.2405	36	Marcellus
16	12/25/2024	19839.08861	19675.3291	36	Marcellus
17	12/25/2024	19640.17722	19476.4177	36	Marcellus
18	12/25/2024	19441.26582	19277.5063	36	Marcellus
19	12/25/2024	19242.35443	19078.5949	36	Marcellus
20	12/25/2024	19043.44304	18879.6835	36	Marcellus
21	12/26/2024	18844.53165	18680.7722	36	Marcellus
22	12/26/2024	18645.62025	18481.8608	36	Marcellus
23	12/26/2024	18446.70886	18282.9494	36	Marcellus
24	12/26/2024	18247.79747	18084.038	36	Marcellus
25	12/26/2024	18048.88608	17885.1266	36	Marcellus
26	12/27/2024	17849.97468	17686.2152	36	Marcellus
27	12/27/2024	17651.06329	17487.3038	36	Marcellus
28	12/27/2024	17452.1519	17288.3924	36	Marcellus
29	12/27/2024	17253.24051	17089.481	36	Marcellus
30	12/27/2024	17054.32911	16890.5696	36	Marcellus
31	12/28/2024	16855.41772	16691.6582	36	Marcellus
32	12/28/2024	16656.50633	16492.7468	36	Marcellus
33	12/28/2024	16457.59494	16293.8354	36	Marcellus
34	12/28/2024	16258.68354	16094.9241	36	Marcellus
35	12/28/2024	16059.77215	15896.0127	36	Marcellus
36	12/29/2024	15860.86076	15697.1013	36	Marcellus
37	12/29/2024	15661.94937	15498.1899	36	Marcellus
38	12/29/2024	15463.03797	15299.2785	36	Marcellus
39	12/29/2024	15264.12658	15100.3671	36	Marcellus
40	12/29/2024	15065.21519	14901.4557	36	Marcellus
41	12/30/2024	14866.3038	14702.5443	36	Marcellus
42	12/30/2024	14667.39241	14503.6329	36	Marcellus
43	12/30/2024	14468.48101	14304.7215	36	Marcellus
44	12/30/2024	14269.56962	14105.8101	36	Marcellus
45	12/30/2024	14070.65823	13906.8987	36	Marcellus
46	12/31/2024	13871.74684	13707.9873	36	Marcellus
47	12/31/2024	13672.83544	13509.0759	36	Marcellus
48	12/31/2024	13473.92405	13310.1646	36	Marcellus
49	12/31/2024	13275.01266	13111.2532	36	Marcellus
50	1/1/2025	13076.10127	12912.3418	36	Marcellus
51	1/1/2025	12877.18987	12713.4304	36	Marcellus
52	1/1/2025	12678.27848	12514.519	36	Marcellus
53	1/1/2025	12479.36709	12315.6076	36	Marcellus
54	1/1/2025	12280.4557	12116.6962	36	Marcellus
55	1/1/2025	12081.5443	11917.7848	36	Marcellus
56	1/2/2025	11882.63291	11718.8734	36	Marcellus
57	1/2/2025	11683.72152	11519.962	36	Marcellus
58	1/2/2025	11484.81013	11321.0506	36	Marcellus
59	1/2/2025	11285.89873	11122.1392	36	Marcellus
60	1/2/2025	11086.98734	10923.2278	36	Marcellus
61	1/3/2025	10888.07595	10724.3165	36	Marcellus
62	1/3/2025	10689.16456	10525.4051	36	Marcellus
63	1/3/2025	10490.25316	10326.4937	36	Marcellus
64	1/3/2025	10291.34177	10127.5823	36	Marcellus
65	1/3/2025	10092.43038	9928.67089	36	Marcellus
66	1/3/2025	9893.518987	9729.75949	36	Marcellus
67	1/4/2025	9694.607595	9530.8481	36	Marcellus
68	1/4/2025	9495.696203	9331.93671	36	Marcellus
69	1/4/2025	9296.78481	9133.02532	36	Marcellus
70	1/4/2025	9097.873418	8934.11392	36	Marcellus
71	1/4/2025	8898.962025	8735.20253	36	Marcellus
72	1/4/2025	8700.050633	8536.29114	36	Marcellus
73	1/4/2025	8501.139241	8337.37975	36	Marcellus
74	1/5/2025	8302.227848	8138.46835	36	Marcellus
75	1/5/2025	8103.316456	7939.55696	36	Marcellus
76	1/5/2025	7904.405063	7740.64557	36	Marcellus
77	1/5/2025	7705.493671	7541.73418	36	Marcellus
78	1/5/2025	7506.582278	7342.82278	36	Marcellus
79	1/5/2025	7307.670886	7143.91139	36	Marcellus
80	1/5/2025	7108.759494	6945	36	Marcellus

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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	12/21/2024	69.4	9888.9	7023.8	3655.6	125900	3806.2	N/A
2	12/21/2024	94.1	10389.0	6134.9	5281.0	394730	6923.3	N/A
3	12/21/2024	91.0	10268.8	6072.1	4222.0	405680	7520.3	N/A
4	12/22/2024	91.0	10282.3	6053.8	3026.0	410160	7329.2	N/A
5	12/22/2024	92.8	10153.5	6077.7	4698.0	409280	7525.2	N/A
6	12/22/2024	94.2	10211.1	5666.5	4637.7	398670	7071.0	N/A
7	12/22/2024	95.5	10314.9	5723.6	3195.1	415140	7266.0	N/A
8	12/23/2024	95.0	10201.7	5493.9	4856.0	414120	7473.4	N/A
9	12/23/2024	94.5	9997.9	5384.6	5261.0	413640	7669.7	N/A
10	12/23/2024	96.4	9891.7	5178.4	5002.0	397790	7000.4	N/A
11	12/23/2024	97.8	10016.9	6036.3	8559.7	397360	7035.2	N/A
12	12/24/2024	97.2	10038.0	5717.5	3817.0	414050	7156.7	N/A
13	12/24/2024	97.0	9877.7	0.0	4777.9	394260	7119.7	N/A
14	12/24/2024	98.7	9900.8	4893.2	3586.0	398650	7246.7	N/A
15	12/24/2024	89.9	9302.4	5629.3	3757.0	419260	7374.5	N/A
16	12/25/2024	93.6	9620.4	5398.6	4465.0	399200	7072.0	N/A
17	12/25/2024	96.5	9872.6	5456.9	3682.1	398130	7274.7	N/A
18	12/25/2024	97.9	9861.0	5412.3	4561.0	405550	6989.1	N/A
19	12/25/2024	98.3	9986.8	0.0	4240.0	414440	7487.0	N/A
20	12/25/2024	96.1	9808.2	5266.8	4156.0	396480	6839.1	N/A
21	12/26/2024	96.3	9697.9	5590.6	4535.2	399770	6953.5	N/A
22	12/26/2024	97.5	9631.1	5636.5	4527.0	395380	6976.7	N/A
23	12/26/2024	98.6	9613.4	5283.8	4453.0	399260	6806.4	N/A
24	12/26/2024	98.5	9664.3	5525.2	4650.0	420040	6981.5	N/A
25	12/26/2024	97.1	9758.1	5426.4	5286.7	395260	6715.7	N/A
26	12/27/2024	98.4	9837.8	5446.3	3789.0	411660	7073.0	N/A
27	12/27/2024	98.9	9565.8	5506.2	3818.0	416060	7055.0	N/A
28	12/27/2024	98.6	9364.7	5550.4	4201.0	414660	7235.5	N/A
29	12/27/2024	98.0	9320.4	5415.2	3824.0	414680	6986.0	N/A
30	12/27/2024	98.5	9157.2	5443.8	3788.0	402590	6941.5	N/A
31	12/28/2024	98.5	9285.7	5524.9	4295.8	416240	6964.6	N/A
32	12/28/2024	94.0	8971.6	5510.8	4643.0	394980	6851.5	N/A
33	12/28/2024	96.2	8895.1	5407.8	4507.0	413370	7197.1	N/A
34	12/28/2024	97.4	8872.0	5298.2	4507.7	412000	6965.0	N/A
35	12/28/2024	97.2	8905.9	5431.9	4065.0	414160	6945.1	N/A
36	12/29/2024	96.0	8708.9	5267.1	3857.0	394760	6640.0	N/A
37	12/29/2024	97.0	8935.8	5357.7	4430.0	415760	7213.5	N/A
38	12/29/2024	99.8	8816.0	5211.7	4267.0	412740	7175.1	N/A
39	12/29/2024	98.2	8866.1	5271.5	4215.0	415380	7234.3	N/A
40	12/29/2024	98.9	8791.0	5398.9	3985.0	409840	7380.8	N/A
41	12/30/2024	97.4	8661.7	5457.9	4356.0	396810	6457.3	N/A
42	12/30/2024	98.0	8724.1	5318.9	4300.0	413600	6971.4	N/A
43	12/30/2024	98.6	8741.4	4289.5	4370.0	399540	6940.1	N/A
44	12/30/2024	95.7	8495.3	5401.9	3987.0	392930	6599.3	N/A
45	12/30/2024	98.0	8586.3	5264.1	3195.7	416880	6918.1	N/A
46	12/31/2024	97.4	8573.5	5444.8	4225.0	399300	6920.5	N/A
47	12/31/2024	97.9	8427.2	0.0	3520.0	418360	7188.0	N/A
48	12/31/2024	91.5	8044.8	4922.8	3100.0	375680	6344.6	N/A
49	12/31/2024	96.4	8430.2	3793.1	4693.0	395960	6657.7	N/A
50	1/1/2025	97.7	8241.8	5602.2	4086.0	389450	6605.4	N/A
51	1/1/2025	97.5	8267.5	5365.5	4285.0	393920	6664.7	N/A
52	1/1/2025	97.9	8366.6	5270.7	4155.0	394330	6563.5	N/A
53	1/1/2025	99.2	8282.2	5264.1	3758.0	403960	6616.5	N/A
54	1/1/2025	98.3	7880.8	5532.4	3849.3	398680	6730.8	N/A
55	1/1/2025	98.0	8117.9	5564.0	4381.0	395570	6651.1	N/A
56	1/2/2025	98.5	7943.4	5525.7	4469.0	413180	7245.0	N/A
57	1/2/2025	99.1	8009.7	5178.1	4458.0	394840	6715.2	N/A
58	1/2/2025	99.4	7982.3	5063.3	4546.0	396640.0	6561.9	N/A
59	1/2/2025	99.0	7917.3	5436.5	4177.0	396890.0	6656.0	N/A
60	1/2/2025	99.7	7972.6	5181.4	4311.0	390510.0	6649.5	N/A
61	1/3/2025	101.2	8048.8	5324.3	4198.0	399330.0	6459.8	N/A
62	1/3/2025	98.6	7738.6	5171.4	4106.0	404220.0	6643.6	N/A
63	1/3/2025	99.3	7913.8	5754.3	3493.1	406780.0	6773.8	N/A
64	1/3/2025	99.6	7788.1	5402.1	3574.6	407280.0	6771.4	N/A
65	1/3/2025	99.5	7805.3	5444.7	4131.0	391720.0	6766.7	N/A
66	1/3/2025	97.6	7565.4	5561.7	4037.0	414220.0	6761.9	N/A
67	1/4/2025	97.7	7530.7	5744.5	4291.0	393710.0	6757.1	N/A
68	1/4/2025	96.6	7526.8	5571.8	4131.0	410940.0	6754.8	N/A
69	1/4/2025	99.1	7605.4	5515.4	4369.0	390030.0	6750.0	N/A
70	1/4/2025	99.6	7545.1	5111.4	3877.0	412980.0	6745.2	N/A
71	1/4/2025	99.4	7521.3	5544.8	5116.0	395440.0	6740.5	N/A
72	1/4/2025	97.7	7506.7	5137.6	5466.0	395280.0	6735.7	N/A
73	1/4/2025	97.9	7326.1	5225.6	4884.0	396230.0	6733.3	N/A
74	1/5/2025	98.4	7518.8	5893.1	3892.0	410920.0	6728.6	N/A
75	1/5/2025	98.0	7532.6	5511.7	4401.0	394790.0	6723.8	N/A
76	1/5/2025	99.8	6976.7	4997.4	2337.0	408440.0	6719.0	N/A
77	1/5/2025	99.6	6572.0	2658.0	3102.0	393840.0	6716.7	N/A
78	1/5/2025	99.5	6765.4	3097.8	3574.0	398200.0	6711.9	N/A
79	1/5/2025	99.6	6707.9	3084.1	3635.0	414500.0	6707.1	N/A
80	1/5/2025	98.9	6681.8	3306.1	3566.0	416140.0	6702.4	N/A
AVERAGE		97	8,730	5,113	4,219	32,023,100	550,531	TOTAL

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APR 25 2025

WV Department of
Environmental Protection

05/16/2025

EXHIBIT 3

LITHOLOGY/ FORMATION	TOP DEPTH (TVD)	BOTTOM DEPTH (TVD)	TOP DEPTH (MD)	BOTTOM DEPTH (MD)
	From Surface	From Surface	From Surface	From Surface
Silty Sandstone	524	624	524	624
Sandstone, Occ Siltstone	624	724	624	724
Silty Sandstone, tr Shale	724	874	724	874
Siltstone, tr Shale, tr LS	824	924	824	924
Siltstone, tr Shale	874	924	874	924
Siltstone, tr Sandstone, tr LS	924	974	924	974
Siltstone, tr Sandstone, rr LS	974	1,074	974	1,074
Sandstone	1,074	1,274	1,074	1,274
Sandstone, Occ Siltstone, Tr Coal	1,274	1,374	1,274	1,374
Silty Sandstone, tr Coal	1,374	1,474	1,374	1,474
Sandstone, tr Coal	1,474	1,574	1,474	1,574
Sandstone	1,574	1,674	1,574	1,674
Sandstone, tr Siltstone	1,674	1,724	1,674	1,724
Sandstone, rr Siltstone	1,724	1,774	1,724	1,774
Limestone, rr Sandstone, tr Shale	1,774	1,710	1,774	1,770
Big Lime	1,736	2,326	1,770	2,471
Fifty Foot Sandstone	2,326	2,564	2,445	2,743
Gordon	2,564	2,767	2,717	2,974
Fifth Sandstone	2,767	3,142	2,948	3,404
Bayard	3,142	3,755	3,378	4,104
Speechley	3,755	4,011	4,078	4,402
Balltown	4,011	4,333	4,376	4,769
Bradford	4,333	4,622	4,743	5,105
Benson	4,622	4,750	5,079	5,253
Alexander	4,750	5,926	5,227	6,689
Sycamore	5,811	5,900	6,510	6,663
Middlesex	5,900	5,976	6,663	6,837
Burkett	5,976	5,999	6,837	6,897
Marcellus	5,999	NA	6,897	NA

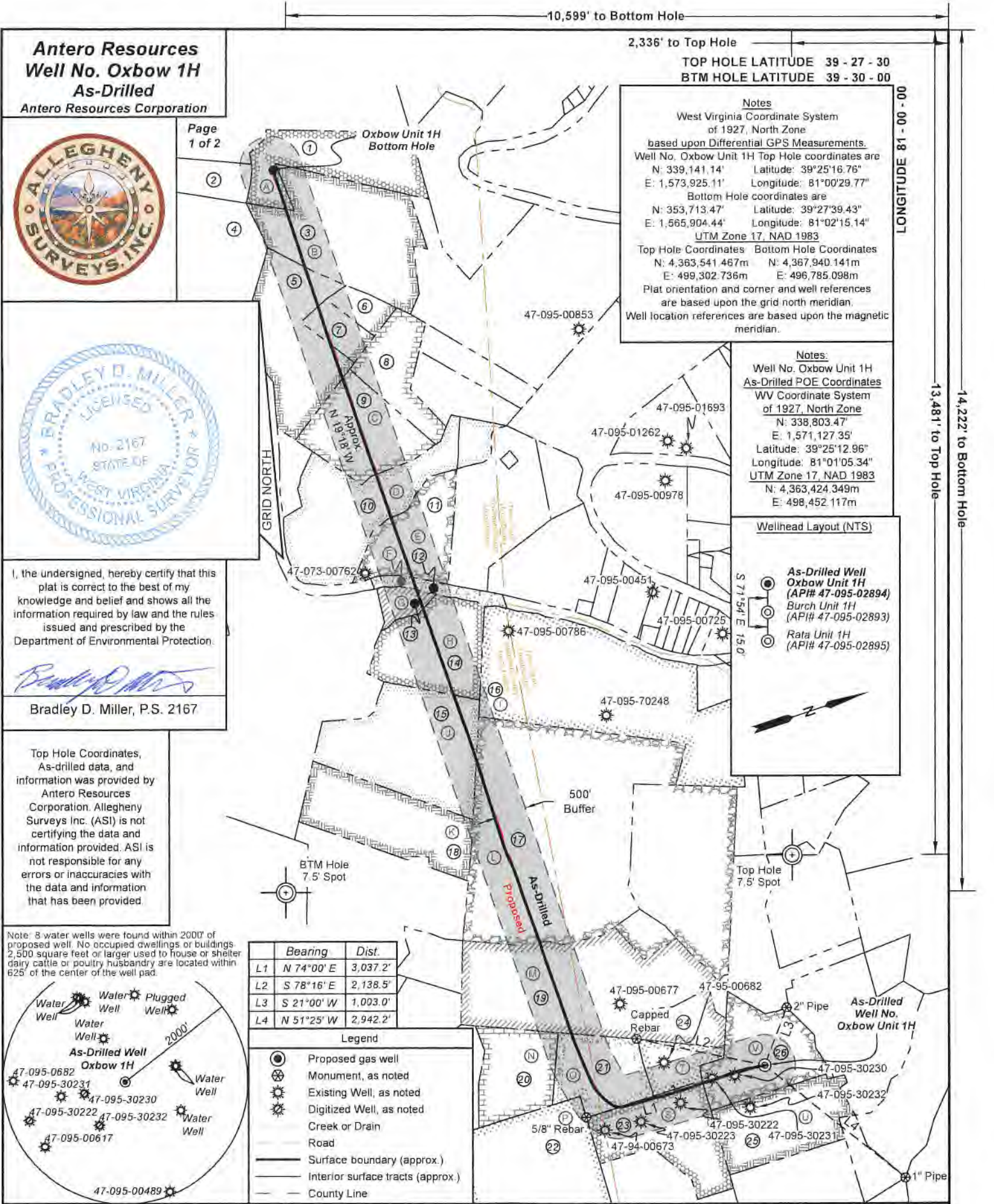
*Please note Antero determines formation tops based on mud logs that are only run on one well on a multi-well pad. The measured depth (MD) data on subsequent wells may be slightly different due to the well's unique departure.

RECEIVED
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APR 25 2025

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Environmental Protection

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

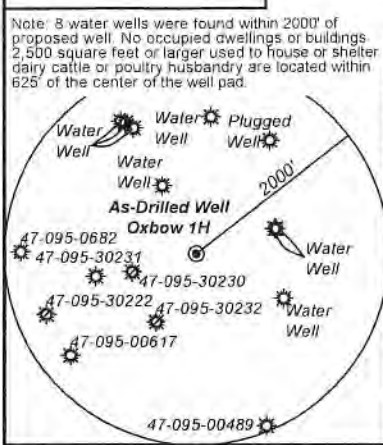


I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.

Bradley D. Miller

Bradley D. Miller, P.S. 2167

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



	Bearing	Dist.
L1	N 74°00' E	3,037.2'
L2	S 78°16' E	2,138.5'
L3	S 21°00' W	1,003.0'
L4	N 51°25' W	2,942.2'

- 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.)
 - County Line

10,599' to Bottom Hole

2,336' to Top Hole

TOP HOLE LATITUDE 39 - 27 - 30
BTM HOLE LATITUDE 39 - 30 - 00

Notes
West Virginia Coordinate System of 1927, North Zone
based upon Differential GPS Measurements.
Well No. Oxbow Unit 1H Top Hole coordinates are
N: 339,141.14' Latitude: 39°25'16.76"
E: 1,573,925.11' Longitude: 81°00'29.77"
Bottom Hole coordinates are
N: 353,713.47' Latitude: 39°27'39.43"
E: 1,565,904.44' Longitude: 81°02'15.14"
UTM Zone 17, NAD 1983
Top Hole Coordinates: Bottom Hole Coordinates
N: 4,363,541.467m N: 4,367,940.141m
E: 499,302.736m E: 496,785.098m
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. Oxbow Unit 1H
As-Drilled POE Coordinates
WV Coordinate System of 1927, North Zone
N: 338,803.47'
E: 1,571,127.35'
Latitude: 39°25'12.96"
Longitude: 81°01'05.34"
UTM Zone 17, NAD 1983
N: 4,363,424.349m
E: 498,452.117m

Wellhead Layout (NTS)

As-Drilled Well
Oxbow Unit 1H
(API# 47-095-02894)
Burch Unit 1H
(API# 47-095-02893)
Rata Unit 1H
(API# 47-095-02895)

FILE NO: 130-51-U-22
DRAWING NO: Oxbow Unit 1H 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 16 20 25
OPERATOR'S WELL NO. Oxbow Unit 1H
API WELL NO
47 - 095 - 02894
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built 937' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Bens Run
DISTRICT: THL: Meade, BHL: Union COUNTY: THL: 05/16/2025
SURFACE OWNER: Shirley J. Wells & Suise Cunningham ACREAGE: 53.85
ROYALTY OWNER: Antero Minerals, LLC LEASE NO: ACREAGE: 365.445
PROPOSED WORK: ☐ DRILL ☐ CONVERT ☐ DRILL DEEPER ☐ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION
☐ PERFORATE NEW FORMATION ☒ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled 5,971' TVD
☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 22,732' 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



Leases	
A	Roy Emmett Huffman & Linda Gay Huffman, H/W
B	Michael Scott Bonner
C	Terry Heinzman & Daphne Heinzman, H/W
D	Clifford Benjamin Boone & Rebecca Louise Boone, H/W
E	The Estate of Mary Jane Stewart
F	WVDNR
G	A.P. Allen, et ux
H	A.P. Allen, et ux
I	Wells Cattle Farms, Inc.
J	A.P. Allen, et ux
K	A.P. Allen, et ux
L	Greenbrier Royalty Fund II, LLC
M	Vicki Bonner
N	Bradley William Poch
O	Bradley William Poch
P	Paolo Augustus Tanzey
S	Inex B. Fletcher, et vir
T	Janelle Sue Perkins
U	Mary C. Robinson Living Trust
V	Antero Minerals, LLC

ID	TM/Par	Owner	Bk/Pg	Acres
1	3-9	Roy Emmett & Linda Gay Huffman	126/341	55.00
2	3-21	Nancy J. Greenwalt Heirs	11/394	20.00
3	3-23A	David L. Bonner	WB33/171	104.00
4	3-22	John L. Renner	247/569	55.44
5	7-12	Peggy Bonner Parker	WB14/255	65.21
6	3-26	Glen E. Bonner	WB33/171	13.35
7	7-10	David L. Bonner	WB33/171	13.33
8	7-14	Terry & Daphne Heinzman	262/527	61.77
9	7-14.1	Terry & Daphne Heinzman	262/527	30.00
10	7-13.1	Rebecca Louise & Clifford Benjamin Boone	348/317	77.25
11	7-13.2	Terry & Daphne Heinzman	342/105	42.70
12		Middle Island Creek		
13	7-21	Webb Camp, Inc.	147/300	7.50
14	7-22	Forty-Four Acres, Inc.	208/134	44.50
15	7-26	Wells Cattle Farms, Inc.	338/153	122.00
16	4-8	Wells Cattle Farms, Inc.	331/164	155.00
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FILE NO: 130-51-U-22
DRAWING NO: Oxbow Unit 1H As-Drilled
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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 16 20 25
OPERATOR'S WELL NO. Oxbow Unit 1H
API WELL NO
47 - 095 - 02894
STATE COUNTY PERMIT

WELL TYPE: ☐ OIL ☒ GAS ☐ LIQUID INJECTION ☐ WASTE DISPOSAL
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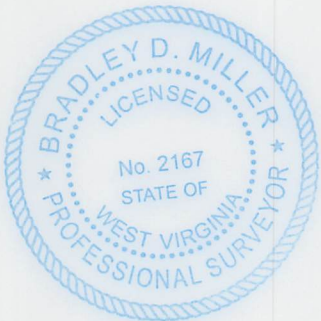
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Antero Resources
Well No. Oxbow 1H
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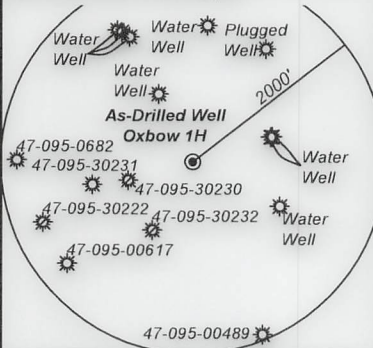


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Note: 8 water wells were found within 2000' of proposed well. No occupied dwellings or buildings 2,500 square feet or larger used to house or shelter dairy cattle or poultry husbandry are located within 625' of the center of the well pad.



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(API# 47-095-02894)
Burch Unit 1H
(API# 47-095-02893)
Rata Unit 1H
(API# 47-095-02895)



LONGITUDE 81 - 00 - 00

13,481' to Top Hole

14,222' to Bottom Hole

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



Page
2 of 2

Leases	
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Submeter
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WVDOT, Harrisville, WV

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



DATE: April 16 20 25
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API WELL NO
47 — 095 — 02894
STATE COUNTY PERMIT

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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:	12/21/2024
Job End Date:	01/05/2025
State:	West Virginia
County:	Tyler
API Number:	47-095-02894-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	OXBOW UNIT 1H
Latitude:	39.421407
Longitude:	-81.008103
Datum:	WGS84
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6071
Total Base Water Volume (gal)*:	24420549
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					
HAI-501	Halliburton	Acid Corrosion Inhibitor					
HYDROCHLORIC ACID, 22 BAUME	Halliburton	Solvent					
HYDROCHLORIC ACID, 28%	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,	Halliburton	Proppant					

05/16/2025

[Handwritten signature]

SSA-2							
WG-36 GELLING AGENT	Halliburton	Gelling Agent					
Items above are Trade Names. Items below are the individual ingredients.							
			Water	7732-18-5	100.00000	86.86518	None
			Crystalline silica, quartz	14808-60-7	100.00000	12.94409	None
			Water	7732-18-5	100.00000	0.16366	None
			Hydrochloric acid	7647-01-0	30.00000	0.04061	None
			Complex amine compound	Proprietary	60.00000	0.01962	None
			Hydrotreated distillate	Proprietary	30.00000	0.00981	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	0.00657	None
			Guar gum	9000-30-0	100.00000	0.00368	None
			Hydrotreated light petroleum distillates	64742-47-8	30.00000	0.00328	None
			Glutaraldehyde	111-30-8	30.00000	0.00230	None
			Ammonium chloride	12125-02-9	5.00000	0.00218	None
			Ethoxylated alcohol	Proprietary	5.00000	0.00164	None
			Fatty nitrogen derived amides	Proprietary	5.00000	0.00164	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 monooleate polyoxyethylene derivative	9005-65-6	1.00000	0.00044	None
			Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1	5.00000	0.00038	None
			Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8	1.00000	0.00033	None
			Methanol	67-56-1	100.00000	0.00024	None
			Ammonium persulfate	7727-54-0	100.00000	0.00012	None
			Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8	1.00000	0.00011	None
			Citric acid	77-92-9	1.00000	0.00008	None
			Mixture of dimer and trimer fatty acids of indefinite composition derived from tall oil	61790-12-3	30.00000	0.00007	None

05/16/2025

			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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