

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

API 47 - 095 - 02849 County Tyler District Union/Lincoln
Quad TH: Middlebourne BH: Paden City Pad Name Roma Lou Field/Pool Name ----
Farm name Antero Resources Corporation Well Number Loki 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 4370599.881m Easting 502234.913m
Landing Point of Curve Northing 4349184.00m Easting 536089.16m
Bottom Hole Northing 4375337.296m Easting 500990.206m

Elevation (ft) 883' 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 3/13/2023 Date drilling commenced 4/18/2023 Date drilling ceased 5/28/2023
Date completion activities began 9/7/2023 Date completion activities ceased 11/1/2023
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 168' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 1678' Void(s) encountered (Y/N) depths No
Coal depth(s) ft 622' Cavern(s) encountered (Y/N) depths No
Is coal being mined in area (Y/N) No

APPROVED

Reviewed by:

[Signature]
06/21/2024

API 47-095 - 02849 Farm name Antero Resources Corporation Well number Loki Unit 1H

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	28"	20"	130'	New	91.59#, J-55	N/A	Y
Surface	17-1/2"	13-3/8"	375'	New	54.5#, J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	3100'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	22403'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	6185'		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	225 sx	15.6	1.18	266	0'	8 Hrs.
Surface	Class C	330 sx	15.8	1.17	386	0'	8 Hrs.
Coal							
Intermediate 1	Class C	1080 sx	15.8	1.16	1253	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	3700 sx (Tail)	13.5 (Lead), 15.2(Tail)	1.30 (Tail)	4810	-500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 22403' MD, 5984' TVD (BHL), 6096' (Deepest Point Drilled) Loggers TD (ft) 22403' MD
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

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Kick off depth (ft) 5365'

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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

06/21/2024

Exhibit 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	9/7/2023	22274	22230	36	Marcellus
2	9/9/2023	22191.67932	22027.0759	36	Marcellus
3	9/9/2023	21991.75527	21827.1519	36	Marcellus
4	9/9/2023	21791.83122	21627.2278	36	Marcellus
5	9/9/2023	21591.90717	21427.3038	36	Marcellus
6	9/10/2023	21391.98312	21227.3797	36	Marcellus
7	9/10/2023	21192.05907	21027.4557	36	Marcellus
8	9/10/2023	20992.13502	20827.5316	36	Marcellus
9	9/10/2023	20792.21097	20627.6076	36	Marcellus
10	9/10/2023	20592.28692	20427.6835	36	Marcellus
11	9/11/2023	20392.36287	20227.7595	36	Marcellus
12	9/11/2023	20192.43882	20027.8354	36	Marcellus
13	9/11/2023	19992.51477	19827.9114	36	Marcellus
14	9/11/2023	19792.59072	19627.9873	36	Marcellus
15	9/11/2023	19592.66667	19428.0633	36	Marcellus
16	9/12/2023	19392.74262	19228.1392	36	Marcellus
17	9/12/2023	19192.81857	19028.2152	36	Marcellus
18	9/12/2023	18992.89451	18828.2911	36	Marcellus
19	9/12/2023	18792.97046	18628.3671	36	Marcellus
20	9/13/2023	18593.04641	18428.443	36	Marcellus
21	9/13/2023	18393.12236	18228.519	36	Marcellus
22	9/13/2023	18193.19831	18028.5949	36	Marcellus
23	9/14/2023	17993.27426	17828.6709	36	Marcellus
24	9/14/2023	17793.35021	17628.7468	36	Marcellus
25	9/15/2023	17593.42616	17428.8228	36	Marcellus
26	9/15/2023	17393.50211	17228.8987	36	Marcellus
27	9/15/2023	17193.57806	17028.9747	36	Marcellus
28	9/15/2023	16993.65401	16829.0506	36	Marcellus
29	9/15/2023	16793.72996	16629.1266	36	Marcellus
30	9/16/2023	16593.80591	16429.2025	36	Marcellus
31	9/16/2023	16393.88186	16229.2785	36	Marcellus
32	9/16/2023	16193.95781	16029.3544	36	Marcellus
33	9/16/2023	15994.03376	15829.4304	36	Marcellus
34	9/16/2023	15794.1097	15629.5063	36	Marcellus
35	9/17/2023	15594.18565	15429.5823	36	Marcellus
36	9/17/2023	15394.2616	15229.6582	36	Marcellus
37	9/17/2023	15194.33755	15029.7342	36	Marcellus
38	9/17/2023	14994.4135	14829.8101	36	Marcellus
39	9/17/2023	14794.48945	14629.8861	36	Marcellus
40	9/17/2023	14594.5654	14429.962	36	Marcellus
41	9/18/2023	14394.64135	14230.038	36	Marcellus
42	9/18/2023	14194.7173	14030.1139	36	Marcellus
43	9/18/2023	13994.79325	13830.1899	36	Marcellus
44	9/18/2023	13794.8692	13630.2658	36	Marcellus
45	9/18/2023	13594.94515	13430.3418	36	Marcellus
46	9/18/2023	13395.0211	13230.4177	36	Marcellus
47	9/19/2023	13195.09705	13030.4937	36	Marcellus
48	9/19/2023	12995.173	12830.5696	36	Marcellus
49	9/19/2023	12795.24895	12630.6456	36	Marcellus
50	9/19/2023	12595.32489	12430.7215	36	Marcellus
51	9/19/2023	12395.40084	12230.7975	36	Marcellus
52	9/20/2023	12195.47679	12030.8734	36	Marcellus
53	9/20/2023	11995.55274	11830.9494	36	Marcellus
54	9/20/2023	11795.62869	11631.0253	36	Marcellus
55	9/20/2023	11595.70464	11431.1013	36	Marcellus
56	9/20/2023	11395.78059	11231.1772	36	Marcellus
57	9/21/2023	11195.85654	11031.2532	36	Marcellus
58	9/21/2023	10995.93249	10831.3291	36	Marcellus
59	9/21/2023	10796.00844	10631.4051	36	Marcellus
60	9/21/2023	10596.08439	10431.481	36	Marcellus
61	9/21/2023	10396.16034	10231.557	36	Marcellus
62	9/22/2023	10196.23629	10031.6329	36	Marcellus
63	9/22/2023	9996.312236	9831.70886	36	Marcellus
64	9/22/2023	9796.388186	9631.78481	36	Marcellus
65	9/22/2023	9596.464135	9431.86076	36	Marcellus
66	9/22/2023	9396.540084	9231.93671	36	Marcellus
67	9/22/2023	9196.616034	9032.01266	36	Marcellus
68	9/23/2023	8996.691983	8832.08861	36	Marcellus
69	9/23/2023	8796.767932	8632.16456	36	Marcellus
70	9/23/2023	8596.843882	8432.24051	36	Marcellus
71	9/23/2023	8396.919831	8232.31646	36	Marcellus
72	9/23/2023	8196.995781	8032.39241	36	Marcellus
73	9/23/2023	7997.07173	7832.46835	36	Marcellus
74	9/24/2023	7797.147679	7632.5443	36	Marcellus
75	9/24/2023	7597.223629	7432.62025	36	Marcellus
76	9/24/2023	7397.299578	7232.6962	36	Marcellus
77	9/24/2023	7197.375527	7032.77215	36	Marcellus
78	9/24/2023	6997.451477	6832.8481	36	Marcellus
79	9/24/2023	6797.527426	6632.92405	36	Marcellus
80	9/25/2023	6597.603376	6433	36	Marcellus

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EXHIBIT 2

Stage No.	Stimulations Date	Avg Pump Rate	Avg Treatment Pressure (Psl)	Max Breakdown Pressure (Psl)	ISIP (Psl)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/ other (units)
1	9/7/2023	85.3	9057.1	6061.5	2863.8	167840	5976.6	N/A
2	9/9/2023	87.9	9941.1	5429.2	4060.2	421600	7653.1	N/A
3	9/9/2023	90.8	9934.6	5007.3	3089.4	421000	7450.6	N/A
4	9/9/2023	89.1	10210.6	4457.5	3111.5	396400	6936.4	N/A
5	9/9/2023	92.3	10095.5	5015.2	3295.9	402380	7170.8	N/A
6	9/10/2023	91.4	10105.7	4398.0	3573.0	413620	7290.9	N/A
7	9/10/2023	93.0	10120.3	4217.2	3367.8	425080	7459.2	N/A
8	9/10/2023	96.0	9844.9	4136.8	3087.7	413880	7365.4	N/A
9	9/10/2023	96.6	9747.4	4858.4	3124.0	403390	7235.5	N/A
10	9/10/2023	94.7	9866.9	4841.1	3381.1	404440	7163.6	N/A
11	9/11/2023	95.0	10204.8	4454.7	3407.0	418500	7342.2	N/A
12	9/11/2023	93.3	10136.7	4942.2	3390.5	420960	7303.5	N/A
13	9/11/2023	77.8	9728.0	4001.4	3164.8	415060	10698.8	N/A
14	9/11/2023	95.7	10096.5	5075.9	3211.0	422420	7383.9	N/A
15	9/11/2023	95.6	9971.1	4876.6	3165.0	403380	7171.7	N/A
16	9/12/2023	89.6	9644.7	4039.4	3596.0	419180	7172.0	N/A
17	9/12/2023	94.6	9446.0	3694.1	3188.6	421120	7381.0	N/A
18	9/12/2023	97.5	9798.1	5319.8	3212.0	418000	7345.9	N/A
19	9/12/2023	97.6	9714.2	3455.3	3255.2	421500	7334.2	N/A
20	9/13/2023	88.2	9229.8	4872.2	3721.6	439930	12277.7	N/A
21	9/13/2023	86.3	9785.8	5109.8	3362.5	421500	7229.3	N/A
22	9/13/2023	88.5	9663.2	4818.6	3421.0	421100	7152.0	N/A
23	9/14/2023	59.5	8496.0	4782.1	3953.3	442210	13191.1	N/A
24	9/14/2023	80.4	9085.6	4816.0	4495.0	418260	7568.5	N/A
25	9/15/2023	77.9	9091.6	5221.3	3330.0	399190	7360.6	N/A
26	9/15/2023	80.7	8551.4	4629.7	3995.0	423840	7685.4	N/A
27	9/15/2023	78.2	8148.6	3465.6	3429.6	423220	7685.4	N/A
28	9/15/2023	80.9	8141.5	3998.2	3447.5	420960	7760.8	N/A
29	9/15/2023	80.9	8215.3	4907.8	3679.4	419660	7654.3	N/A
30	9/16/2023	81.1	8137.5	4580.6	3687.0	417260	7657.4	N/A
31	9/16/2023	80.3	8735.8	4093.8	3495.0	418140	7553.5	N/A
32	9/16/2023	83.1	8854.7	4906.4	3323.9	419900	7613.2	N/A
33	9/16/2023	85.1	9194.0	5641.8	3135.0	420700	7572.3	N/A
34	9/16/2023	90.0	9032.3	5738.9	3117.0	421360	7744.4	N/A
35	9/17/2023	90.8	9051.3	5336.4	3363.0	421120	7503.6	N/A
36	9/17/2023	90.3	8795.1	5247.1	3591.0	419800	7524.0	N/A
37	9/17/2023	89.7	8648.2	5476.3	3199.4	416360	7602.9	N/A
38	9/17/2023	91.0	8706.7	5084.0	3206.8	423820	7529.8	N/A
39	9/17/2023	93.2	8682.5	6267.3	3133.4	412800	7667.5	N/A
40	9/17/2023	92.7	8157.0	5607.8	3337.8	412800	7495.3	N/A
41	9/18/2023	92.6	8539.3	3625.4	3572.0	417980	7380.1	N/A
42	9/18/2023	92.0	8406.9	4972.6	3637.0	416360	7397.5	N/A
43	9/18/2023	92.9	8429.6	6458.7	3293.3	415000	7441.5	N/A
44	9/18/2023	91.5	8334.2	8406.2	3277.6	412860	7426.0	N/A
45	9/18/2023	93.0	8329.3	5007.9	3232.0	422840	7367.8	N/A
46	9/18/2023	93.0	7961.4	3938.1	3640.2	422820	7617.5	N/A
47	9/19/2023	92.9	8247.1	4774.9	3756.5	420580	7483.9	N/A
48	9/19/2023	92.4	8159.4	4566.8	3751.0	416960	7425.3	N/A
49	9/19/2023	92.4	8128.4	4256.4	3583.4	412160	7366.1	N/A
50	9/19/2023	91.6	8115.1	4167.6	3514.0	417340	7382.3	N/A
51	9/19/2023	92.2	8046.9	4665.6	3880.0	415940	7592.4	N/A
52	9/20/2023	92.5	7788.6	3735.9	3640.0	405200	7251.1	N/A
53	9/20/2023	88.1	7758.0	5291.0	3471.2	419700	7560.8	N/A
54	9/20/2023	91.4	8005.3	5564.2	3131.5	416500	7523.2	N/A
55	9/20/2023	91.5	8078.8	4951.7	3323.6	423420	7661.0	N/A
56	9/20/2023	92.1	8022.5	4846.6	3116.0	421960	7523.5	N/A
57	9/21/2023	92.0	7915.4	4650.6	3305.5	413400	7085.7	N/A
58	9/21/2023	92.6	7757.6	3942.4	3386.5	403740.0	7179.6	N/A
59	9/21/2023	95.5	8155.5	4787.7	3338.4	413160.0	7414.3	N/A
60	9/21/2023	92.5	7888.7	4981.7	3420.0	398060.0	7202.2	N/A
61	9/21/2023	94.3	7880.7	5828.6	3060.7	422400.0	6986.6	N/A
62	9/22/2023	94.0	7800.9	4830.1	3257.0	418600.0	6974.1	N/A
63	9/22/2023	93.5	7759.1	6998.2	3144.2	411040.0	6924.8	N/A
64	9/22/2023	92.6	7658.6	5017.3	3258.3	422360.0	7329.4	N/A
65	9/22/2023	94.1	7553.7	3606.9	3287.5	419480.0	7336.4	N/A
66	9/22/2023	91.9	7396.0	4589.2	3409.0	418780.0	7021.7	N/A
67	9/22/2023	93.7	7500.9	5160.3	3475.4	412840.0	6874.1	N/A
68	9/23/2023	94.6	7420.2	4700.9	3223.0	418940.0	6956.3	N/A
69	9/23/2023	96.6	7652.0	4845.3	3195.9	412240.0	7033.1	N/A
70	9/23/2023	93.5	7290.4	5240.6	3134.0	400030.0	7114.5	N/A
71	9/23/2023	93.5	7204.5	5251.7	3142.4	401020.0	7194.3	N/A
72	9/23/2023	94.1	6931.7	5546.0	3239.0	419230.0	7266.1	N/A
73	9/23/2023	95.1	7152.4	5359.8	3304.0	417980.0	6931.7	N/A
74	9/24/2023	94.7	7149.6	5006.8	3264.0	427020.0	7044.9	N/A
75	9/24/2023	95.2	7195.6	5028.0	3475.1	387700.0	6671.0	N/A
76	9/24/2023	92.8	7160.5	5288.6	3206.4	403280.0	7062.5	N/A
77	9/24/2023	93.3	6823.7	5288.6	3111.5	413640.0	7199.5	N/A
78	9/24/2023	89.8	6824.9	5856.5	3317.0	420040.0	7384.3	N/A
79	9/24/2023	93.8	6999.5	7207.9	3272.0	416540.0	6888.2	N/A
80	9/25/2023	93.6	7061.0	6600.2	3191.0	416880.0	6904.1	N/A
AVERAGE		91	8,507	4,972	3,378	33,049,700	599,244	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
Siltstone, Tr Shale	100	220	100	220
Shale	220	370	220	370
Shaley Siltstone	370	430	370	430
Limestone, Tr Shale	430	490	430	490
Siltstone, Tr Shale	490	640	490	640
Silty Sandstone	640	850	640	850
Shaley Siltstone	850	1,030	850	1,030
Shale, Tr Sandstone	1,030	1,090	1,030	1,090
Silty Shale, Tr Limestone	1,090	1,150	1,090	1,150
Sandy Shale	1,150	1,270	1,150	1,270
Sandstone, Tr Shale	1,270	1,450	1,270	1,450
Sandy Shale	1,450	1,630	1,450	1,630
Shaley Limestone	1,630	1,635	1,630	1,653
Big Lime	1,665	2,179	1,653	2,216
Fifty Foot Sandstone	2,179	2,429	2,186	2,473
Gordon	2,429	2,722	2,443	2,773
Fifth Sandstone	2,722	2,819	2,743	2,872
Bayard	2,819	3,721	2,842	3,796
Speechley	3,721	3,866	3,766	3,946
Balltown	3,866	4,359	3,916	4,451
Bradford	4,359	4,710	4,421	4,809
Benson	4,710	4,915	4,779	5,018
Alexander	4,915	5,946	4,988	6,162
Sycamore	5,819	6,028	5,989	6,132
Middlesex	5,916	6,054	6,132	6,311
Burkett	5,998	0	6,311	6,381
Marcellus	6,024	0	6,381	0

*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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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	09/07/2023
Job End Date:	09/25/2023
State:	West Virginia
County:	Tyler
API Number:	47-095-02849-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	LOKI UNIT 1H
Latitude:	39.48499
Longitude:	-80.97401
Datum:	WGS84
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6096
Total Base Water Volume (gal)*:	26517349.5
Total Base Non Water Volume:	0



Water Source	Percent
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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
FDP-S1464-22	Halliburton	Friction Reducer					
HAI-501	Halliburton	Acid Corrosion Inhibitor					
HYDROCHLORIC ACID, 22 BAUME	Halliburton	Solvent					
Ingredients	Listed Above	Listed Above					
MC B-8614A	MultiChem	Biocide					
OPTIFLO-II DELAYED RELEASE BREAKER	Halliburton	Breaker					
Produced Water	Halliburton	Base Fluid					
Sand-Common White-100 Mesh, SSA-2	Halliburton	Proppant					
WG-36 GELLING AGENT	Halliburton	Gelling Agent					

06/21/2024

Items above are Trade Names. Items below are the individual ingredients.

			Water	7732-18-5	100.00000	86.78641	Density = 8.34
			Crystalline silica, quartz	14808-60-7	100.00000	12.96952	None
			Water	7732-18-5	100.00000	0.21327	None
			Hydrochloric acid	7647-01-0	30.00000	0.05246	None
			Complex amine compound	Proprietary	60.00000	0.03001	None
			Hydrotreated distillate	Proprietary	30.00000	0.01501	None
			Guar gum	9000-30-0	100.00000	0.01027	None
			Glutaraldehyde	111-30-8	30.00000	0.00251	None
			Ammonium chloride	12125-02-9	5.00000	0.00250	None
			Ethoxylated alcohol	Proprietary	5.00000	0.00250	None
			Fatty nitrogen derived amides	Proprietary	5.00000	0.00250	None
			Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8	1.00000	0.00050	None
			Sorbitan monooleate polyoxyethylene derivative	9005-65-6	1.00000	0.00050	None
			Alkyl (C12-16) dimethylbenzyl ammonium chloride	68424-85-1	5.00000	0.00042	None
			Methanol	67-56-1	100.00000	0.00033	None
			Ammonium persulfate	7727-54-0	100.00000	0.00021	None
			Mixture of dimer and trimer fatty acids of indefinite composition derived from tall oil	61790-12-3	30.00000	0.00010	None
			Modified thiourea polymer	Proprietary	30.00000	0.00010	None
			Ethanol	64-17-5	1.00000	0.00008	None
			Oxylated phenolic resin	Proprietary	30.00000	0.00006	None
			Propargyl alcohol	107-19-7	5.00000	0.00002	None
			Hexadecene	629-73-2	5.00000	0.00002	None
			Ethoxylated alcohols	Proprietary	5.00000	0.00002	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)

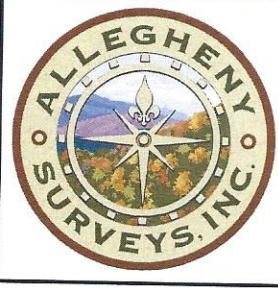
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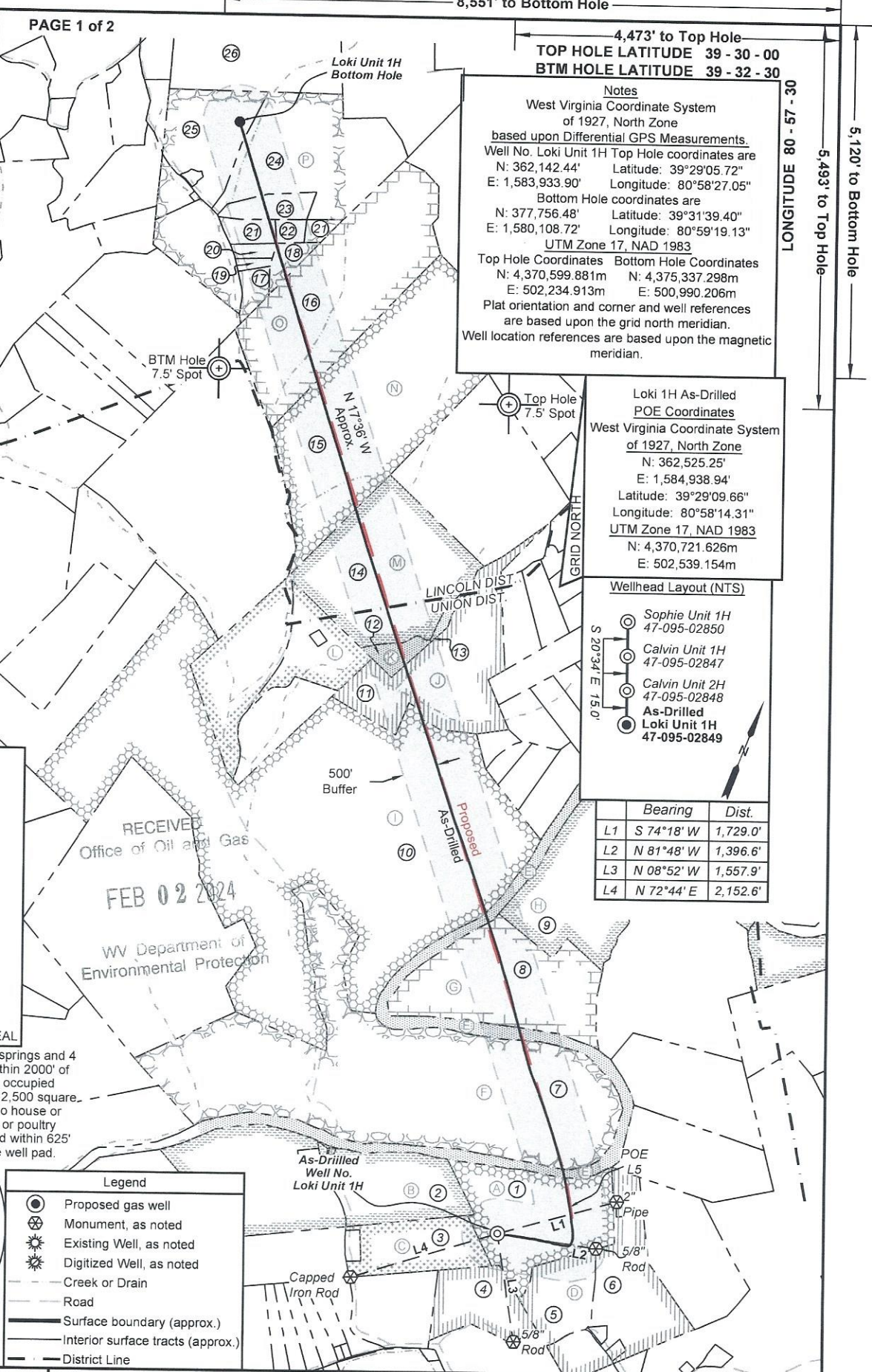
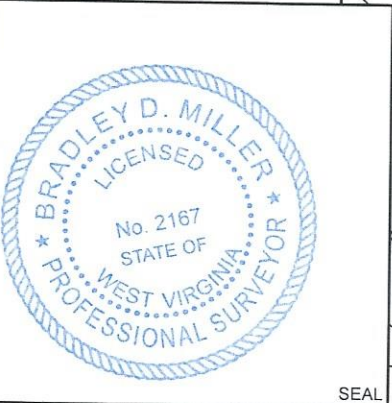
Antero Resources
Well No. Loki 1H
As-Drilled
 Antero Resources Corporation



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.

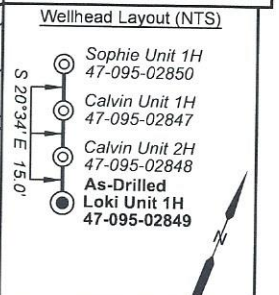
I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.

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

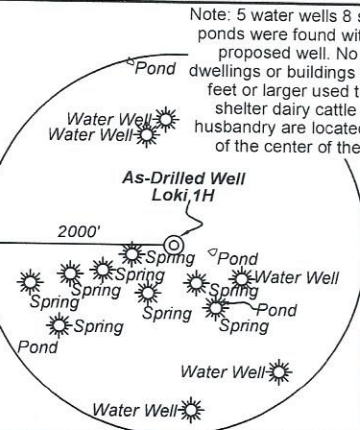


Notes
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
 Well No. Loki Unit 1H Top Hole coordinates are
 N: 362,142.44' Latitude: 39°29'05.72"
 E: 1,583,933.90' Longitude: 80°58'27.05"
 Bottom Hole coordinates are
 N: 377,756.48' Latitude: 39°31'39.40"
 E: 1,580,108.72' Longitude: 80°59'19.13"
 UTM Zone 17, NAD 1983
 Top Hole Coordinates Bottom Hole Coordinates
 N: 4,370,599.881m N: 4,375,337.298m
 E: 502,234.913m E: 500,990.206m
 Plat orientation and corner and well references are based upon the grid north meridian.
 Well location references are based upon the magnetic meridian.

Loki 1H As-Drilled POE Coordinates
 West Virginia Coordinate System of 1927, North Zone
 N: 362,525.25'
 E: 1,584,938.94'
 Latitude: 39°29'09.66"
 Longitude: 80°58'14.31"
 UTM Zone 17, NAD 1983
 N: 4,370,721.626m
 E: 502,539.154m



	Bearing	Dist.
L1	S 74°18' W	1,729.0'
L2	N 81°48' W	1,396.6'
L3	N 08°52' W	1,557.9'
L4	N 72°44' E	2,152.6'



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.)
- District Line

FILE NO: 259-54-U-22
 DRAWING NO: Loki Unit 1H As-Drilled
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: Submeter
 PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

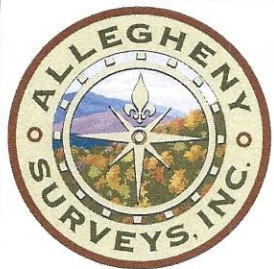
STATE OF WEST VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: January 17 20 24
 OPERATOR'S WELL NO. Loki 1H
 API WELL NO
 47 - 095 - 02849
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built 883' WATERSHED: Outlet Middle Island Creek QUADRANGLE: TH: Middlebourne
 DISTRICT: Union/Lincoln BH: Paden City COUNTY: Tyler 06/21/2024
 SURFACE OWNER: Antero Resources Corp. Colleen Marie Anderson; Warren V. Bowen; Linda Pryor Henriksen, et vir; Margaret Conaway-Torok; ACREAGE: 60.38 339.71; 156.786;
 ROYALTY OWNER: Berna J. Hammel; WVDNR; Steven D. Zechman & Linda M. Jensen; Jay Edward Smith; HAUGHT FAMILY TRUST; GREENBRIER ROYALTY FUND III, LLC; JULIA MARIE MAY; 65.462; 8.0; 83.61;
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION LEASE NO: ACREAGE: 158.79175; 119.75
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 22,403' MD 5,984' TVD

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



ID	TM-Par	Owner	Bk/Pg	Acres
1	10-4.1	Antero Resources Corporation	OR12/739	60.38
2	9-9.1	Jennifer K. & Diane M. Thomas	AR46/754	40.00
3	10-4	Kevin L. & Tammy J. Thomas	OR7/290	32.22
4	10-5.3	Richard Daniel Bowen	344/814	25.92
5	10-5.5	Bowen Family Irrevocable Trust	372/303	22.89
6	10-5	Timothy Brian Bowen, et al	652/440	48.36
7	9-4	Steven D. Zechman & Linda M. Jensen	348/422	250.00
8	6-3	Eldon J. & Ruth A. Helman	383/761	72.80
9	6-1	Eldon J. & Ruth A. Helman	383/761	169.00
10	5-16	Charity Gas Inc.	358/516	393.00
11	6-4	Darren E. Thacker	616/762	67.00
12	6-5.2	Julia Fetty Carolus	323/585	5.50
13	6-5.3	Julia Fetty Carolus	323/587	2.50
14	5-26	Paul R. Fetty	288/126	82.22
15	14-1	Edward E. & Connie Howell	361/829	158.74
16	11-11	Thomas E. Bowen	374/636	119.75
17	11-14	Calvin Lee & Irene M. Stewart	251/635	4.99
18	11-15	Thomas E. Bowen	374/636	6.00
19	11-14.2	Gerald Eugene & Sonya Stewart	374/843	1.75
20	11-14.1	Gerald Eugene Stewart	279/572	3.00
21	11-16	John Mark Campbell	326/365	8.85
22	11-16.1	John Lincoln & Autumn Rose Campbell	OR 43/11	3.09
23	11-17	Thomas E. Neff	341/213	10.00
24	11-18	William L. & Lynn A. Hinkle	366/387	72.50
25	11-19.1	Sheila & Rex Ervin	409/542	34.55
26	11-24	Ryan Chambers & Nancy Marie Chaplin	348/763	77.00

Leases	
A	Berna J. Hammel
B	Mary Faye Grove
C	Sally & Mitchell Dunn
D	J&N Management Enterprises, LLC
E	WVDNR
F	Steven D. Zechman & Linda M. Jensen
G	Jay Edward Smith
H	Norma R. Spencer
I	Haught Family Trust
J	Greenbrier Royalty Fund III, LLC
K	Julia Marie May
L	Warren T Stewart
M	Linda Pryor Henriksen, et vir
N	Margaret Conaway-Torok
O	Warren V. Bowen
P	Colleen Marie Anderson

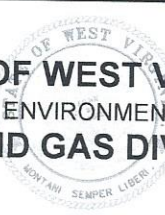
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