

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

RECEIVED
Office Of Oil and Gas

OCT 08 2024

API 47 - 017 - 06960 County Doddridge District West Union WV Department of Environmental Protection
Quad West Union Pad Name Genevieve Field/Pool Name -----
Farm name Antero Resources Corp Well Number Lyle 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 4350500.714m Easting 518815.413m
Landing Point of Curve Northing 4350141.88m Easting 518200.94m
Bottom Hole Northing 4347957.532m Easting 518930.446m

Elevation (ft) 886' 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 9/11/2023 Date drilling commenced 12/12/2023 Date drilling ceased 4/15/2024
Date completion activities began 5/25/2024 Date completion activities ceased 7/4/2024
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 414, 516' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 1468' 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

Reviewed by:
APPROVED SK 12-4-24
12/13/2024

API 47-017 - 06960 Farm name Antero Resources Corp Well number Lyle 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"	622'	New	54.5#, J-55	N/A	Y
Coal							
Intermediate 1	12-13/8"	9-5/8"	3404'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	15159'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	7091'		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	204 sx	15.6	1.18	241	0'	8 Hrs.
Surface	Class C	570 sx	15.8	1.16	661	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	2005 sx (Tail)	13.5 (Lead), 15.2(Tail)	1.31 (Tail)	2627	-500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 15159' MD, 6504' TVD (BHL), 6567' (Deepest Point Drilled) Loggers TD (ft) 15159' MD

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

Plug back procedure N/A

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Kick off depth (ft) 5829'

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

WV Department of Environmental Protection

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 12/13/2024
12-11-24

API 47- 017 - 06960 Farm name Antero Resources Corp Well number Lyle Unit 1H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
<u>Marcellus</u>	<u>6516' (TOP)</u>	<u>TVD</u>	<u>7325' (TOP) MD</u>
_____	_____	_____	_____
_____	_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 2240 psi Bottom Hole --- psi DURATION OF TEST --- hrs

OPEN FLOW Gas 12358 mcfpd Oil 85 bpd NGL --- bpd Water 344 bpd GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP	BOTTOM	TOP	BOTTOM	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	

***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 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 Carly Marvel Telephone 303-357-7373
Signature Carly Marvel Title Permitting Agent Date 9/23/2024

Submittal of Hydraulic Fracturing Chemical Disclosure Information

Attach copy of FRACFOCUS Registry
APPROVED SK 12-4-24 12/13/2024

API 47-017-06960 Farm Name Antero Resources Corporation Well Number Lyle Unit 1H

Exhibit 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	5/25/2024	15039.4	14995.2	36	Marcellus
2	5/26/2024	14956.60088	14791.6053	36	Marcellus
3	5/26/2024	14756.20614	14591.2105	36	Marcellus
4	5/27/2024	14555.8114	14390.8158	36	Marcellus
5	5/28/2024	14355.41667	14190.4211	36	Marcellus
6	5/28/2024	14155.02193	13990.0263	36	Marcellus
7	5/29/2024	13954.62719	13789.6316	36	Marcellus
8	5/30/2024	13754.23246	13589.2368	36	Marcellus
9	5/31/2024	13553.83772	13388.8421	36	Marcellus
10	5/31/2024	13353.44298	13188.4474	36	Marcellus
11	6/1/2024	13153.04825	12988.0526	36	Marcellus
12	6/1/2024	12952.65351	12787.6579	36	Marcellus
13	6/2/2024	12752.25877	12587.2632	36	Marcellus
14	6/2/2024	12551.86404	12386.8684	36	Marcellus
15	6/2/2024	12351.4693	12186.4737	36	Marcellus
16	6/3/2024	12151.07456	11986.0789	36	Marcellus
17	6/3/2024	11950.67982	11785.6842	36	Marcellus
18	6/4/2024	11750.28509	11585.2895	36	Marcellus
19	6/4/2024	11549.89035	11384.8947	36	Marcellus
20	6/4/2024	11349.49561	11184.5	36	Marcellus
21	6/5/2024	11149.10088	10984.1053	36	Marcellus
22	6/5/2024	10948.70614	10783.7105	36	Marcellus
23	6/5/2024	10748.3114	10583.3158	36	Marcellus
24	6/6/2024	10547.91667	10382.9211	36	Marcellus
25	6/6/2024	10347.52193	10182.5263	36	Marcellus
26	6/6/2024	10147.12719	9982.13158	36	Marcellus
27	6/7/2024	9946.732456	9781.73684	36	Marcellus
28	6/7/2024	9746.337719	9581.34211	36	Marcellus
29	6/8/2024	9545.942982	9380.94737	36	Marcellus
30	6/8/2024	9345.548246	9180.55263	36	Marcellus
31	6/8/2024	9145.153509	8980.15789	36	Marcellus
32	6/8/2024	8944.758772	8779.76316	36	Marcellus
33	6/8/2024	8744.364035	8579.36842	36	Marcellus
34	6/9/2024	8543.969298	8378.97368	36	Marcellus
35	6/9/2024	8343.574561	8178.57895	36	Marcellus
36	6/9/2024	8143.179825	7978.18421	36	Marcellus
37	6/9/2024	7942.785088	7777.78947	36	Marcellus
38	6/10/2024	7742.390351	7577.39474	36	Marcellus
39	6/10/2024	7541.995614	7377	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	5/25/2024	89.2	8680.5	6539.6	3912	166160	5272.2	N/A
2	5/26/2024	96.8	8489.0	6084.7	3853	421520	7005.9	N/A
3	5/26/2024	95.2	8901.2	6302.2	3688.524	411960	6948.2	N/A
4	5/27/2024	97.1	8775.0	6563.1	4193	418440	6996.2	N/A
5	5/28/2024	96.7	9706.8	6801.8	3252	422220	7093.4	N/A
6	5/28/2024	96.3	9182.2	6632.6	3896	415400	6746.9	N/A
7	5/29/2024	94.2	9052.5	8184.8	3828.236	420960	7034.2	N/A
8	5/30/2024	94.8	9043.1	6518.0	3997.944	412480	7221.7	N/A
9	5/31/2024	95.4	9082.0	6893.4	3876	416660	6935.8	N/A
10	5/31/2024	96.8	9002.2	5342.7	3710	418260	6892.5	N/A
11	6/1/2024	95.1	9090.4	6753.9	3722.203	417300	7064.8	N/A
12	6/1/2024	97.2	8945.8	6493.0	3636	419480	6940.8	N/A
13	6/2/2024	97.6	8918.0	6849.7	3562.233	416270	7019.4	N/A
14	6/2/2024	95.3	9016.4	6591.0	3362.001	422840	6811.0	N/A
15	6/2/2024	97.3	8993.9	6560.5	3625	421680	6828.5	N/A
16	6/3/2024	96.7	9045.3	6612.2	3565.189	418220	7152.8	N/A
17	6/3/2024	94.8	8633.2	7052.0	3780	397020	6622.7	N/A
18	6/4/2024	96.6	8974.2	6177.7	4478	395760	6603.8	N/A
19	6/4/2024	96.4	8759.0	6133.3	3739.73	397700	6718.5	N/A
20	6/4/2024	94.4	8690.0	6010.9	3701.882	400110	6924.2	N/A
21	6/5/2024	94.3	8835.5	6601.3	3599.113	402970	6835.4	N/A
22	6/5/2024	97.1	8858.0	6642.4	3622.154	399280	6485.1	N/A
23	6/5/2024	94.5	8923.1	6190.9	3471.406	396000	6648.9	N/A
24	6/6/2024	97.4	8872.0	6194.0	3572.338	402860	6560.9	N/A
25	6/6/2024	97.2	8892.5	6770.4	3669.684	399310	6754.8	N/A
26	6/6/2024	97.2	8483.8	6784.2	3369.233	403840	6609.7	N/A
27	6/7/2024	96.7	8661.7	6341.9	3948.035	396610	6968.5	N/A
28	6/7/2024	97.3	8938.6	5734.3	3613.877	401600	6534.5	N/A
29	6/8/2024	96.7	8624.1	5913.8	3512.775	398140	6760.0	N/A
30	6/8/2024	97.3	8821.7	6200.7	3626.367	404460	6977.5	N/A
31	6/8/2024	97.0	8493.6	6677.9	3466.614	405930	6909.9	N/A
32	6/8/2024	96.4	8465.4	6475.3	3718.058	400430	6616.7	N/A
33	6/8/2024	96.9	8120.4	6161.2	3853	399950	6710.0	N/A
34	6/9/2024	98.0	8442.4	6913.8	3438.9	401380	6735.5	N/A
35	6/9/2024	94.9	8215.4	6178.5	3523.519	395480	6525.1	N/A
36	6/9/2024	96.1	8567.4	7076.5	3495.499	401350	6417.7	N/A
37	6/9/2024	93.7	7935.9	6156.7	3705.824	403000	8030.7	N/A
38	6/10/2024	98.0	8495.0	6660.1	3846.245	414500	6913.0	N/A
39	6/10/2024	98.0	8704.6	7445.4	4119.375	398070	6387.0	N/A
	AVERAGE	96	8,778	6,518	3,706	15,655,600	265,214	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
Sandy Siltstone, Occ Shale	100	200	100	200
Silty Shale, Occ Sandstone	200	250	200	250
Silty Sandstone, Occ Shale	250	550	250	550
Silty Shale, Occ Sandstone	300	700	300	700
Sandy Siltstone, Occ Shale	550	700	550	700
Silty Sandstone	700	800	700	800
Sandstone, Occ Siltstone	800	1,000	800	1,000
Sandy Siltstone, Occ Shale	1,000	1,100	1,000	1,100
Silty Sandstone	1,100	1,250	1,100	1,250
Sandy Siltstone, rr Coal	1,250	1,350	1,250	1,350
Silty Sandstone	1,350	1,450	1,350	1,450
Silty Sandstone, tr Coal	1,450	1,600	1,450	1,600
Sandy Siltstone	1,600	1,800	1,600	1,800
Sandy Siltstone, tr Shale	1,800	1,820	1,800	1,820
Shaley Siltstone, tr Sandstone	1,820	1,782	1,820	1,847
Big Lime	1,812	2,453	1,847	2,599
Fifty Foot Sandstone	2,453	2,536	2,569	2,691
Gordon	2,536	2,764	2,661	2,940
Fifth Sandstone	2,764	2,863	2,910	3,048
Bayard	2,863	3,648	3,018	3,908
Speechley	3,648	3,915	3,878	4,209
Balltown	3,915	4,417	4,179	4,760
Bradford	4,417	4,840	4,730	5,227
Benson	4,840	5,133	5,197	5,549
Alexander	5,133	6,345	5,519	6,927
Sycamore	6,186	6,315	6,725	6,897
Middlesex	6,315	6,442	6,897	7,118
Burkett	6,442	6,472	7,118	7,186
Tully	6,472	6,516	7,186	7,325
Marcellus	6,516	NA	7,325	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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Environmental Protection

12/13/2024

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

9,041' to Top Hole

8,686' to Bottom Hole

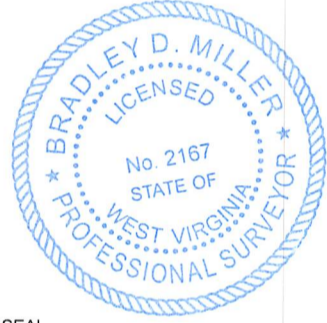
TOP HOLE LATITUDE 39 - 20 - 00
 BTM HOLE LATITUDE 39 - 17 - 30



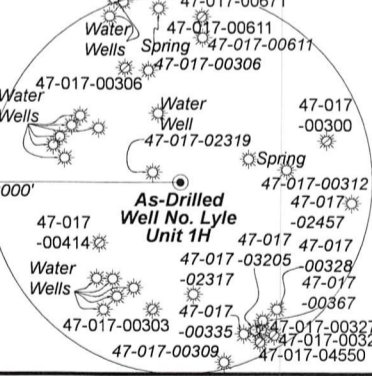
Top Hole Coordinates, As-drilled data, and information was provided by Antero Resources Corporation. Allegheeny Surveys Inc. (ASI) is not certifying the data and information provided. ASI is not responsible for any errors or inaccuracies with the data and information that has been provided.

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



Note: 14 water wells and 2 springs 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.

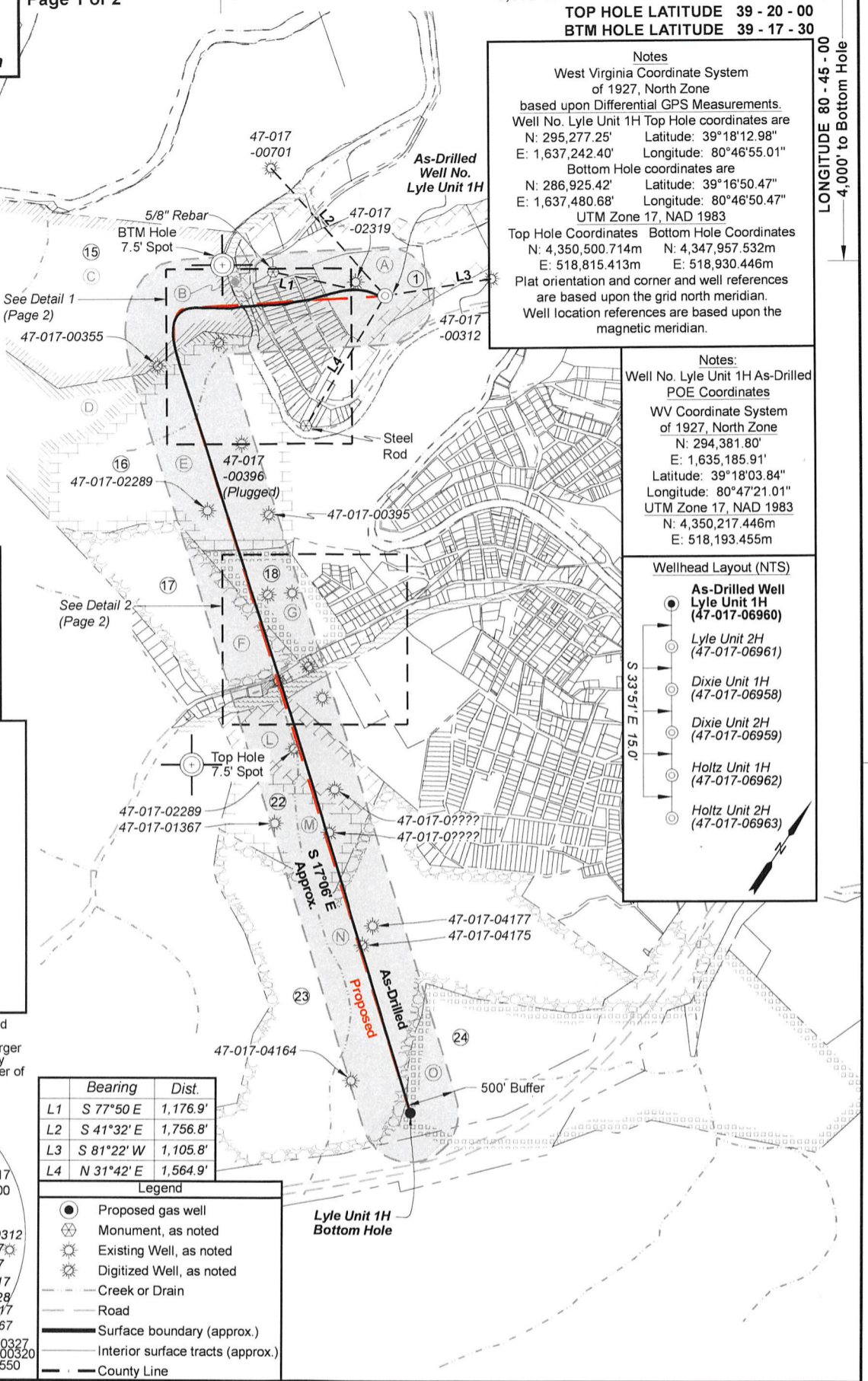
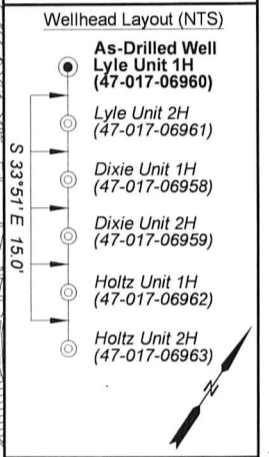


	Bearing	Dist.
L1	S 77°50' E	1,176.9'
L2	S 41°32' E	1,756.8'
L3	S 81°22' W	1,105.8'
L4	N 31°42' E	1,564.9'

- 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

Notes
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements. Well No. Lyle Unit 1H Top Hole coordinates are N: 295,277.25' Latitude: 39°18'12.98" E: 1,637,242.40' Longitude: 80°46'55.01" Bottom Hole coordinates are N: 286,925.42' Latitude: 39°16'50.47" E: 1,637,480.68' Longitude: 80°46'50.47" UTM Zone 17, NAD 1983
 Top Hole Coordinates Bottom Hole Coordinates
 N: 4,350,500.714m N: 4,347,957.532m
 E: 518,815.413m E: 518,930.446m
 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. Lyle Unit 1H As-Drilled POE Coordinates
 WV Coordinate System of 1927, North Zone
 N: 294,381.80'
 E: 1,635,185.91'
 Latitude: 39°18'03.84"
 Longitude: 80°47'21.01"
 UTM Zone 17, NAD 1983
 N: 4,350,217.446m
 E: 518,193.455m



LONGITUDE 80 - 45 - 00
 4,000' to Bottom Hole

10,828' to Top Hole

FILE NO: 59-30-WU-14
 DRAWING NO: Lyle Unit 1H As-Drilled Plat
 SCALE: 1" = 1500'
 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: October 4 20 24
 OPERATOR'S WELL NO. Lyle Unit 1H
 API WELL NO
 47 - 017 - 06960
 STATE COUNTY PERMIT

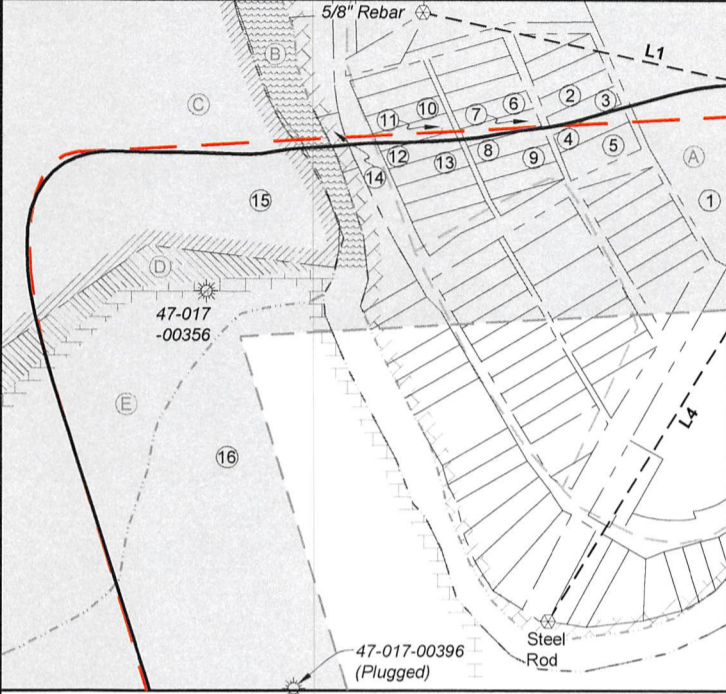
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 Headwaters Middle
 LOCATION: ELEVATION: As-Drilled 886' WATERSHED: Island Creek QUADRANGLE: West Union
 DISTRICT: West Union COUNTY: Doddridge
 SURFACE OWNER: Antero Resources Corp. ACREAGE: 16.5
 ROYALTY OWNER: Claude F. Smith, et ux LEASE NO: ACREAGE: 90
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled 6,504' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 15,159' MD

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

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

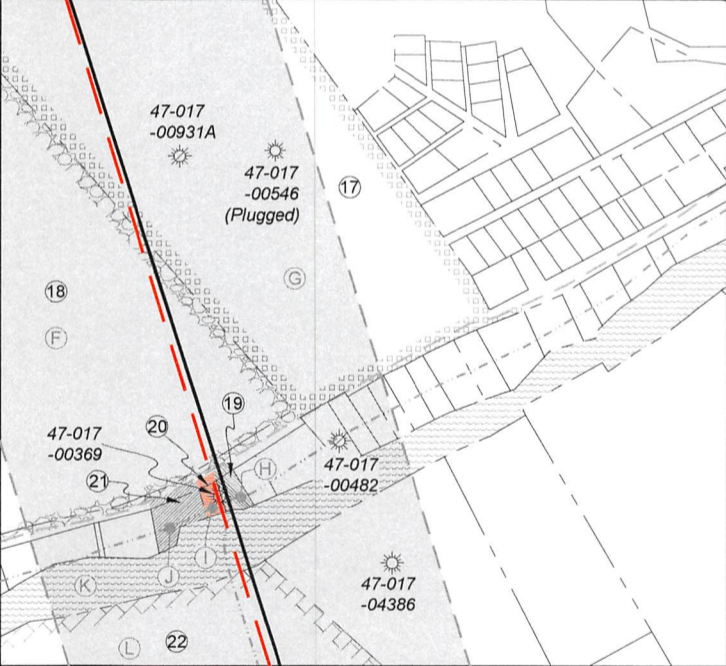


Detail 1 (NTS)



Leases	
A	Claude F. Smith, et ux
B	WVDNR
C	Masterson Family Trust
D	Alice H. Maxwell
E	Claude F. Smith, et ux
F	William G. Summers, et al
G	TBB Consulting, LLC
H	Russell D. Leggett, et ux
I	Pamela Kay McDonough
J	Christine Van Natter
K	WV State Rail Authority
L	Stuart Family Trust
M	Arnold L. Stuart, et ux
N	Celia Schulte, et al
O	Joseph Cheuvront & W.S. Stuart

Detail 2 (NTS)



ID	TM-Par	Owner	Bk/Pg	Acres
1	11-3	Antero Resources Corp.	431 / 528	16.50
2	35-3	Antero Resources Corp.	430 / 666	0.23
3	35-93	Antero Resources Corp.	430 / 666	0.23
4	35-94	Antero Resources Corp.	430 / 666	0.23
5	35-95	Antero Resources Corp.	430 / 666	0.36
6	35-75	Larry D. Patterson	240 / 110	0.23
7	35-7	James I. Williams	170 / 720	0.23
8	35-76	James I. Williams	170 / 720	0.23
9	35-77	Antero Resources Corp.	431 / 526	0.23
10	35-52	Danny G. Rowe	256 / 558	0.23
11	35-53	Antero Resources Corp.	431 / 240	0.22
12	35-54	Antero Resources Corp.	431 / 240	0.22
13	35-55	Antero Resources Corp.	431 / 240	0.22
14	35-38	Michael & Joseph Smith	365 / 407	0.31
15	11-1	Coastal Forest Resources Co.	260 / 135	238.44
16	11-13.2	Frank E. McGill	429 / 448	199.30
17	11-20	Nora Summers Estate	113 / 488	18.31
18	11-19.1	U.G. Summers Estate	113 / 484	49.50
19	33-38	Teddy D. Anderson, Jr.	518 / 671	0.17
20	33-37	Herold M. & Dottie M. Underwood	392 / 208	0.16
21	33-36	Herold M. & Dottie M. Underwood	392 / 208	0.33
22	11-36	James E. Heflin	173 / 794	49.00
23	15-3	E Properties LTD	201 / 396	186.86
24	15-4	E Properties LTD	201 / 396	115.03

FILE NO: 59-30-WU-14
 DRAWING NO: Lyle Unit 1H As-Drilled Plat
 SCALE: 1" = 1500'
 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: October 4 20 24
 OPERATOR'S WELL NO. Lyle Unit 1H
 API WELL NO
 47 - 017 - 06960
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 Headwaters Middle
 LOCATION: ELEVATION: As-Drilled 886' WATERSHED: Island Creek QUADRANGLE: West Union
 DISTRICT: West Union COUNTY: Doddridge
 SURFACE OWNER: Antero Resources Corp. ACREAGE: 16.5
 ROYALTY OWNER: Claude F. Smith, et ux LEASE NO: ACREAGE: 90
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled 6,504' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 15,159' MD

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

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

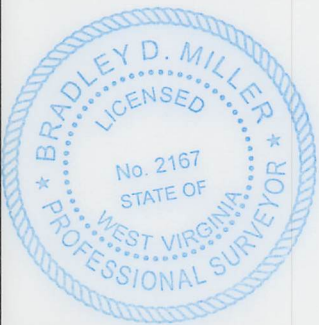
Page 1 of 2



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.

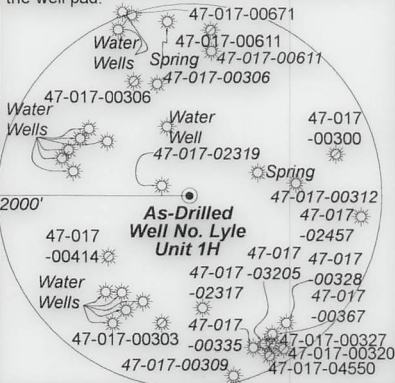
I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.

Bradley D. Miller, P.S. 2167



SEAL

Note: 14 water wells and 2 springs 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 77°50' E	1,176.9'
L2 S 41°32' E	1,756.8'
L3 S 81°22' W	1,105.8'
L4 N 31°42' E	1,564.9'

- 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

9,041' to Top Hole

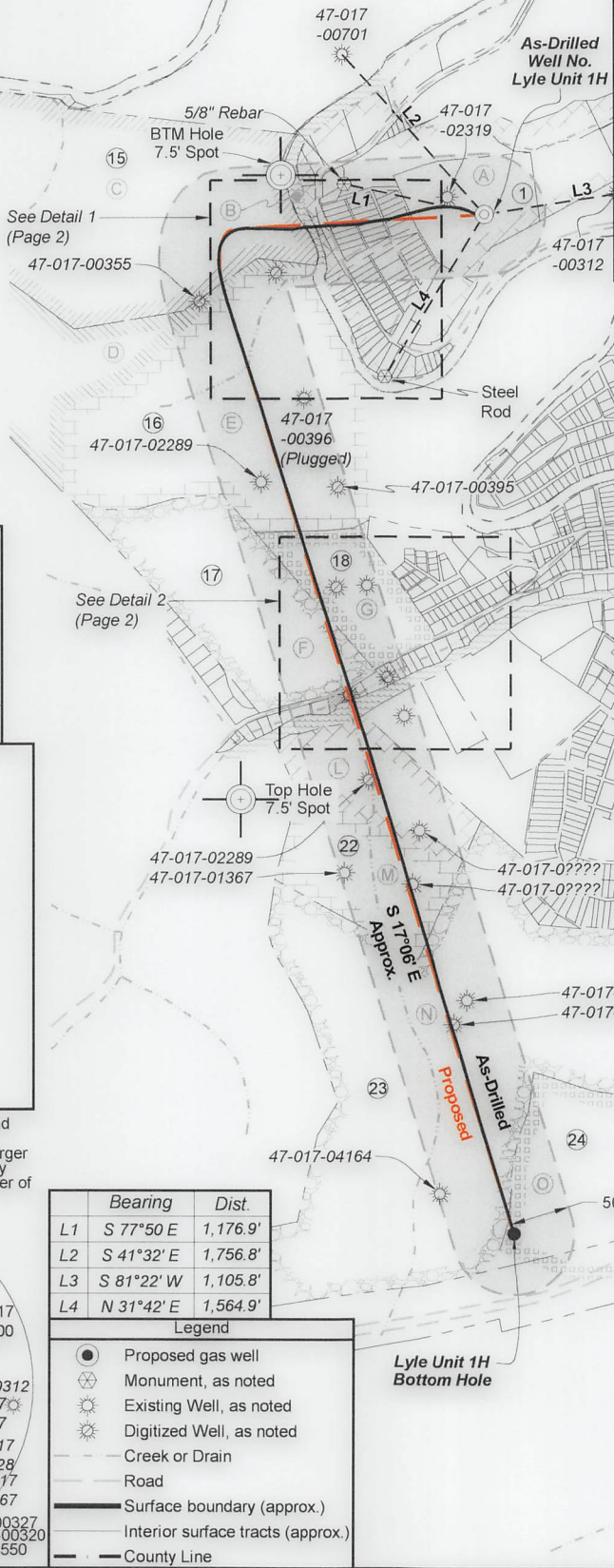
8,686' to Bottom Hole

TOP HOLE LATITUDE 39 - 20 - 00
 BTM HOLE LATITUDE 39 - 17 - 30

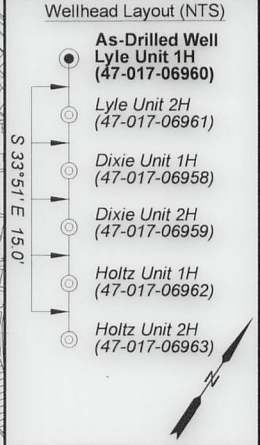
Notes
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements. Well No. Lyle Unit 1H Top Hole coordinates are N: 295,277.25' Latitude: 39°18'12.98" E: 1,637,242.40' Longitude: 80°46'55.01" Bottom Hole coordinates are N: 286,925.42' Latitude: 39°16'50.47" E: 1,637,480.68' Longitude: 80°46'50.47" UTM Zone 17, NAD 1983
 Top Hole Coordinates Bottom Hole Coordinates
 N: 4,350,500.714m N: 4,347,957.532m
 E: 518,815.413m E: 518,930.446m
 Plat orientation and corner and well references are based upon the grid north meridian. Well location references are based upon the magnetic meridian.

LONGITUDE 80 - 45 - 00
 4,000' to Bottom Hole

10,828' to Top Hole



Notes:
 Well No. Lyle Unit 1H As-Drilled POE Coordinates
 WV Coordinate System of 1927, North Zone
 N: 294,381.80'
 E: 1,635,185.91'
 Latitude: 39°18'03.84"
 Longitude: 80°47'21.01"
 UTM Zone 17, NAD 1983
 N: 4,350,217.446m
 E: 518,193.455m



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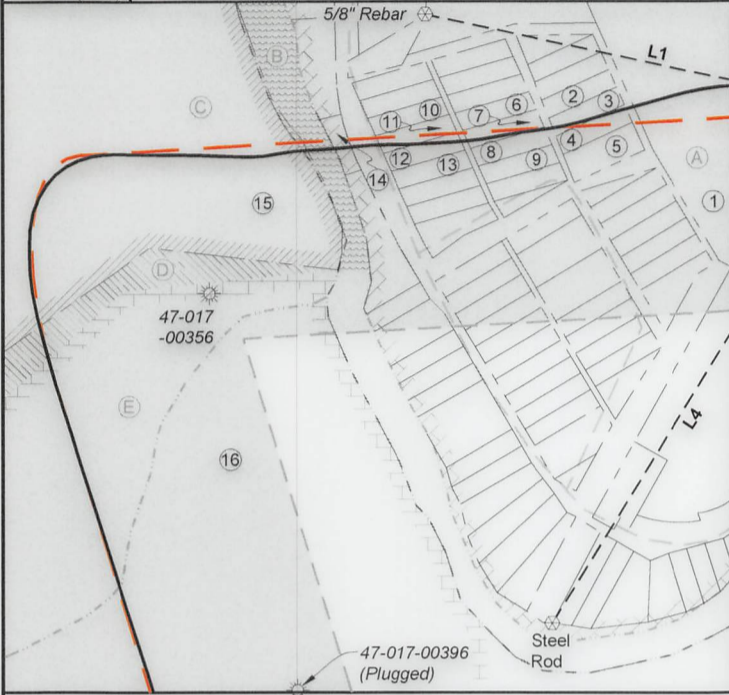
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WR-35

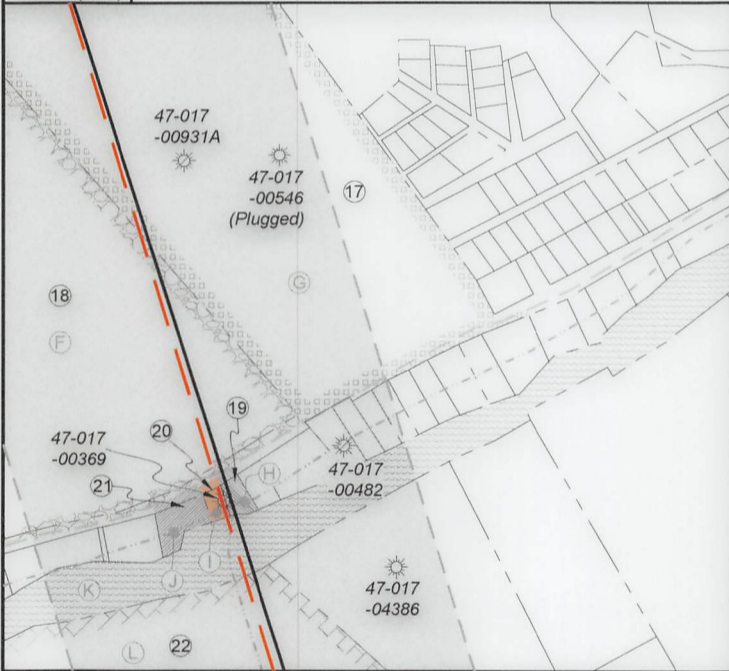


Detail 1 (NTS)



Leases	
A	Claude F. Smith, et ux
B	WVDNR
C	Masterson Family Trust
D	Alice H. Maxwell
E	Claude F. Smith, et ux
F	William G. Summers, et al
G	TBB Consulting, LLC
H	Russell D. Leggett, et ux
I	Pamela Kay McDonough
J	Christine Van Natter
K	WV State Rail Authority
L	Stuart Family Trust
M	Arnold L. Stuart, et ux
N	Celia Schulte, et al
O	Joseph Cheuvront & W.S. Stuart

Detail 2 (NTS)



ID	TM-Par	Owner	Bk/Pg	Acres
1	11-3	Antero Resources Corp.	431 / 528	16.50
2	35-3	Antero Resources Corp.	430 / 666	0.23
3	35-93	Antero Resources Corp.	430 / 666	0.23
4	35-94	Antero Resources Corp.	430 / 666	0.23
5	35-95	Antero Resources Corp.	430 / 666	0.36
6	35-75	Larry D. Patterson	240 / 110	0.23
7	35-7	James I. Williams	170 / 720	0.23
8	35-76	James I. Williams	170 / 720	0.23
9	35-77	Antero Resources Corp.	431 / 526	0.23
10	35-52	Danny G. Rowe	256 / 558	0.23
11	35-53	Antero Resources Corp.	431 / 240	0.22
12	35-54	Antero Resources Corp.	431 / 240	0.22
13	35-55	Antero Resources Corp.	431 / 240	0.22
14	35-38	Michael & Joseph Smith	365 / 407	0.31
15	11-1	Coastal Forest Resources Co.	260 / 135	238.44
16	11-13.2	Frank E. McGill	429 / 448	199.30
17	11-20	Nora Summers Estate	113 / 488	18.31
18	11-19.1	U.G. Summers Estate	113 / 484	49.50
19	33-38	Teddy D. Anderson, Jr.	518 / 671	0.17
20	33-37	Herold M. & Dottie M. Underwood	392 / 208	0.16
21	33-36	Herold M. & Dottie M. Underwood	392 / 208	0.33
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Hydraulic Fracturing Fluid Product Component Information Disclosure



Job Start Date:	05/23/2024
Job End Date:	06/10/2024
State:	West Virginia
County:	Doddridge
API Number:	47-017-06960-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	LYLE UNIT 1H
Latitude:	39.30369
Longitude:	-80.78178
Datum:	WGS84
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6566
Total Base Water Volume (gal)*:	11393817
Total Base Non Water Volume:	0

Water Source	Percent
Produced Water	100.00%

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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
Excelerate LX-21	Halliburton	Friction Reducer					
HAI-501	Halliburton	Acid Corrosion Inhibitor					
HYDROCHLORIC ACID, 22 BAUME	Halliburton	Solvent					
MC B-8123	MultiChem	Biocide					
OPTIFLO-II DELAYED RELEASE BREAKER	Halliburton	Breaker					
Produced Water (Density 10.0)	Operator	Base Fluid					
Sand-Common White-100 Mesh, SSA-2	Halliburton	Proppant					
WG-36 GELLING AGENT	Halliburton	Gelling Agent					

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

12/13/2024

			Water	7732-18-5	100.00000	87.91580	None
			Crystalline silica, quartz	14808-60-7	100.00000	12.06005	None
			Hydrochloric acid	7647-01-0	30.00000	0.03535	None
			Complex amine compound	Proprietary	60.00000	0.02226	None
			Hydrotreated distillate	Proprietary	30.00000	0.01113	None
			Guar gum	9000-30-0	100.00000	0.00659	None
			Glutaraldehyde	111-30-8	30.00000	0.00230	None
			Ammonium chloride	12125-02-9	5.00000	0.00185	None
			Fatty nitrogen derived amides	Proprietary	5.00000	0.00185	None
			Ethoxylated alcohol	Proprietary	5.00000	0.00185	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	0.00037	None
			Sorbitan monooleate polyoxyethylene derivative	9005-65-6	1.00000	0.00037	None
			Methanol	67-56-1	100.00000	0.00022	None
			Ammonium persulfate	7727-54-0	100.00000	0.00021	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
			Modified thiourea polymer	Proprietary	30.00000	0.00007	None
			Oxylated phenolic resin	Proprietary	30.00000	0.00006	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.

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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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