

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

API 47-095-02733 County Tyler District Union/Meade  
Quad Middlebourne Pad Name Roma Lou Field/Pool Name -----  
Farm name Antero Resources Corporation Well Number Patty 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 4370702m Easting 502248m  
Landing Point of Curve Northing 4370288.83m Easting 501734.22m  
Bottom Hole Northing 4367669m Easting 502661m

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 4/13/2021 Date drilling commenced 5/5/2021 Date drilling ceased 6/24/2021  
Date completion activities began 7/19/2021 Date completion activities ceased 8/31/2021  
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 158' Open mine(s) (Y/N) depths No  
Salt water depth(s) ft 1678' Void(s) encountered (Y/N) depths No  
Coal depth(s) ft 483' Cavern(s) encountered (Y/N) depths No  
Is coal being mined in area (Y/N) No

Reviewed by:  
\_\_\_\_\_

WR-35  
Rev. 8/23/13

API 47- 095 - 02733 Farm name Antero Resources Corporation Well number Patty Unit 2H

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/ N) * Provide details below*
Conductor	24"	20"	80'	New	94#, H-40	N/A	Y
Surface	17-1/2"	13-3/8"	392'	New	54.5#, J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2654'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	16013'	New	20#, P-100	N/A	Y
Tubing		2-3/8"	6543'		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	351 sx	15.6	1.18	75	0'	8 Hrs.
Surface	Class A	522 sx	15.8	1.16	93	0'	8 Hrs.
Coal							
Intermediate 1	Class A	1080 sx	15.8	1.17	223	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	792 sx (Lead) 2260 sx (Tail)	13.5 (Lead), 15.2(Tail)	1.4 (Lead), 1.32 (Tail)	534	-500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 16605' MD, 6129' TVD (BHL), 6129' (Deepest Point Drilled) Loggers TD (ft) 16605' MD  
 Deepest formation penetrated Marcellus Plug back to (ft) N/A  
 Plug back procedure N/A

Kick off depth (ft) 5660'

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



API 47-095-02733 Farm name Antero Resources Corporation Well number Patty Unit 2H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>Marcellus</u>	<u>5992' (TOP)</u> TVD	<u>6606' (TOP)</u> MD
_____	_____	_____
_____	_____	_____

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump  
 SHUT-IN PRESSURE Surface 2800 psi Bottom Hole --- psi DURATION OF TEST --- hrs  
 OPEN FLOW Gas 10119 mcfpd Oil 262 bpd NGL --- bpd Water 851 bpd GAS MEASURED BY  Estimated  Orifice  Pilot

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

**\*PLEASE SEE ATTACHED EXHIBIT 3**


Please insert additional pages as applicable.

Drilling Contractor H & P Drilling  
 Address 912 N Eagle Valley Rd City Howard State PA Zip 16841  
 Logging Company Nine Energy Services  
 Address 6500 West Fwy City Fort Worth State TX Zip 76116  
 Cementing Company Halliburton Energy Services  
 Address 3000 W. Sam Houston Pkwy City Houston State TX Zip 76114  
 Stimulating Company Halliburton  
 Address 3000 W. Sam Houston Pkwy City Houston State TX Zip 76114

Please insert additional pages as applicable.

Completed by Brandi Hankins Telephone 303-357-7223  
 Signature [Signature] Title Completions Technician Date 3/31/20

**API 47-095-02733 Farm Name Antero Resources Well Number Patty Unit 2H**

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	07/19/2021	15944.5	15900.4	36	Marcellus
2	07/25/2021	15859.52741	15647.4919	36	Marcellus
3	07/25/2021	15609.81931	15397.7838	36	Marcellus
4	07/26/2021	15360.1112	15148.0757	36	Marcellus
5	07/26/2021	15110.40309	14898.3676	36	Marcellus
6	07/27/2021	14860.69498	14648.6595	36	Marcellus
7	07/27/2021	14610.98687	14398.9514	36	Marcellus
8	07/28/2021	14361.27876	14149.2432	36	Marcellus
9	07/28/2021	14111.57066	13899.5351	36	Marcellus
10	07/29/2021	13861.86255	13649.827	36	Marcellus
11	07/29/2021	13612.15444	13400.1189	36	Marcellus
12	07/30/2021	13362.44633	13150.4108	36	Marcellus
13	07/30/2021	13112.73822	12900.7027	36	Marcellus
14	07/31/2021	12863.03012	12650.9946	36	Marcellus
15	07/31/2021	12613.32201	12401.2865	36	Marcellus
16	07/31/2021	12363.6139	12151.5784	36	Marcellus
17	08/01/2021	12113.90579	11901.8703	36	Marcellus
18	08/02/2021	11864.19768	11652.1622	36	Marcellus
19	08/02/2021	11614.48958	11402.4541	36	Marcellus
20	08/03/2021	11364.78147	11152.7459	36	Marcellus
21	08/03/2021	11115.07336	10903.0378	36	Marcellus
22	08/04/2021	10865.36525	10653.3297	36	Marcellus
23	08/04/2021	10615.65714	10403.6216	36	Marcellus
24	08/05/2021	10365.94903	10153.9135	36	Marcellus
25	08/05/2021	10116.24093	9904.20541	36	Marcellus
26	08/06/2021	9866.532819	9654.4973	36	Marcellus
27	08/06/2021	9616.82471	9404.78919	36	Marcellus
28	08/07/2021	9367.116602	9155.08108	36	Marcellus
29	08/07/2021	9117.408494	8905.37297	36	Marcellus
30	08/07/2021	8867.700386	8655.66486	36	Marcellus
31	08/07/2021	8617.992278	8405.95676	36	Marcellus
32	08/08/2021	8368.28417	8156.24865	36	Marcellus
33	08/08/2021	8118.576062	7906.54054	36	Marcellus
34	08/09/2021	7868.867954	7656.83243	36	Marcellus
35	08/09/2021	7619.159846	7407.12432	36	Marcellus
36	08/10/2021	7369.451737	7157.41622	36	Marcellus
37	08/10/2021	7119.743629	6907.70811	36	Marcellus
38	08/10/2021	6870.035521	6658	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	07/19/2021	75.25	7972	6099	3790.01	184360	205849	N/A
2	07/25/2021	84.21	8358	5476	4016	506560	361462	N/A
3	07/25/2021	85.54	8326	5433	3392	505410	361068	N/A
4	07/26/2021	84.13	8310	5457	3341	505010	361253	N/A
5	07/26/2021	84.47	8407	5066	3209	508290	361280	N/A
6	07/27/2021	82.76	8258	5328	3500	492180	361433	N/A
7	07/27/2021	84.36	8334	6024	3220	502910	350399	N/A
8	07/28/2021	84.5	8299	7637	3412.65	626830	352614	N/A
9	07/28/2021	83.82	8035	5614	3962	505470	345449	N/A
10	07/29/2021	84.81	7895	6258	3590	510520	342349	N/A
11	07/29/2021	77.39	7434	6247	3449.83	506870	343214	N/A
12	07/30/2021	84.76	7636	6412	3434	503540	343001	N/A
13	07/30/2021	84.08	7499	5924	4032	505580	380540	N/A
14	07/31/2021	84.82	7549	7124	3363	508210	374688	N/A
15	07/31/2021	84.32	7657	5878	3475	505240	376034	N/A
16	07/31/2021	81.54	7322	7022	3251	513630	367853	N/A
17	08/01/2021	84.49	7421	5806	3442	511910	373115	N/A
18	08/02/2021	84.2	7255	7054	3536	508550	373533	N/A
19	08/02/2021	84.21	7438	6106	3494	506690	375741	N/A
20	08/03/2021	84.69	7013	6484	3465	507720	370957	N/A
21	08/03/2021	81.77	6868	5842	3762	505080	368979	N/A
22	08/04/2021	84.39	6878	7041	3539	517650	371672	N/A
23	08/04/2021	83	6816	5911	3793	514940	365361	N/A
24	08/05/2021	84.3	6957	6886	3700	508970	374023	N/A
25	08/05/2021	83.98	6763	6188	3632	508350	374052	N/A
26	08/06/2021	84.3	6709	6159	3741	508180	373643	N/A
27	08/06/2021	84.24	6605	5552	3825	506950	376369	N/A
28	08/07/2021	82.62	6490.41	5202.06	3972.63	506320	385944	N/A
29	08/07/2021	84.17	6556	5564	3783	507510	381381	N/A
30	08/07/2021	84.38	6508	5319	3870	507020	344863	N/A
31	08/07/2021	84.15	6563	5069	3795	510220	375969	N/A
32	08/08/2021	84.39	6526	4856	3861.51	513160	381611	N/A
33	08/08/2021	83.85	6547	4890	3701	508940	382969	N/A
34	08/09/2021	84.33	6381	5454	3904	505620	377496	N/A
35	08/09/2021	84.77	6349	4839	3485	507920	379321	N/A
36	08/10/2021	85.16	6243	5053	3852	504960	375297	N/A
37	08/10/2021	83.79	6070	5780	3824	503410	375976	N/A
38	08/10/2021	84.05	6050	5733	3522.09	492810	372561	N/A
	AVG=	<b>84</b>	<b>7,218</b>	<b>5,889</b>	<b>3,630</b>	<b>19,063,490</b>	<b>13,819,319</b>	TOTAL

API 47-095-02733 Farm Name Antero Resources Corporation Well Number Patty Unit 2H

**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	1,653	1,630	1,690
Big Lime	1,683	2,206	1,690	2,286
Fifty Foot Sandstone	2,206	2,453	2,256	2,552
Gordon	2,453	2,758	2,522	2,881
Fifth Sandstone	2,758	2,851	2,851	2,981
Bayard	2,851	3,718	2,951	3,924
Speechley	3,718	3,883	3,894	4,105
Balltown	3,883	4,366	4,075	4,629
Bradford	4,366	4,683	4,599	4,973
Benson	4,683	4,895	4,943	5,206
Alexander	4,895	5,920	5,176	6,394
Sycamore	5,792	5,999	6,213	6,364
Middlesex	5,890	6,022	6,364	6,525
Burkett	5,969	0	6,525	6,606
Marcellus	5,992	0	6,606	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.

## Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	7/19/2021
Job End Date:	8/10/2021
State:	West Virginia
County:	Tyler
API Number:	47-095-02733-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	PATTY 2H
Latitude:	39.48584700
Longitude:	-80.97403000
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,128
Total Base Water Volume (gal):	14,217,421
Total Base Non Water Volume:	0



### Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Produced Water	Halliburton	Base Fluid					
			Water	7732-18-5	100.00000	86.33609	Density = 8.50
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	100.00000	0.07832	



MC B-8614A	MultiChem	Biocide					
				Listed Below			
OPTIFLO-II DELAYED RELEASE BREAKER	Halliburton	Breaker					
				Listed Below			
Excelerate LX-15	Halliburton	Friction Reducer					
				Listed Below			
Sand-Common White-100 Mesh, SSA-2	Halliburton	Proppant					
				Listed Below			
HAI-501	Halliburton	Acid Corrosion Inhibitor					
				Listed Below			
HYDROCHLORI C ACID, 22 BAUME	Halliburton	Solvent					
				Listed Below			
FLUID Enviro- Syn HCR-7000- WL	Fluid Energy Group	Acid Replacement					
				Listed Below			
WG-36 GELLING AGENT	Halliburton	Gelling Agent					
				Listed Below			

Items above are Trade Names with the exception of Base Water . Items below are the individual ingredients.						
			Crystalline silica, quartz	14808-60-7	100.00000	13.53288
			Complex Amine Compound	Proprietary	60.00000	0.01856
			Hydrochloric acid	7647-01-0	30.00000	0.01559
			Hydrotreated light petroleum distillate	64742-47-8	30.00000	0.00928
			Proprietary	Proprietary	20.00000	0.00697
			Guar gum	9000-30-0	100.00000	0.00532
			Proprietary	Proprietary	10.00000	0.00348
			Glutaraldehyde	111-30-8	30.00000	0.00234
			Sobitan, mono-9-octadecenoate, (Z)	1338-43-8	5.00000	0.00155
			Surfactant	Proprietary	5.00000	0.00155
			Alkyl (C12-16) dimethylbenzyl ammonium chloride	68424-85-1	5.00000	0.00039
			Ethoxylated alcohols	Proprietary	5.00000	0.00031
			Alkoxylated polyhydric alcohol	Proprietary	1.00000	0.00031
			Organic chloride compound	Proprietary	1.00000	0.00031
			Ammonium persulfate	7727-54-0	100.00000	0.00009
			Methanol	67-56-1	100.00000	0.00009
			Ethanol	64-17-5	1.00000	0.00008
			Oxylated phenolic resin	Proprietary	30.00000	0.00003
			Modified thiourea polymer	Proprietary	30.00000	0.00003
			Mixture of dimer and trimer fatty acids of indefinite composition derived from tall oil	61790-12-3	30.00000	0.00003
			Hexadecene	629-73-2	5.00000	0.00000
			Propargyl alcohol	107-19-7	5.00000	0.00000
			Organic salt #1	Proprietary	0.01000	0.00000
			Formaldehyde	50-00-0	0.01000	0.00000

			Sodium hydroxide	1310-73-2	0.01000	0.00000	
			Acrylamide	79-06-1	0.01000	0.00000	
			Organic salt #2	Proprietary	0.01000	0.00000	
			Nitrated acetate salt	Proprietary	0.01000	0.00000	
			Sodium glycolate	2836-32-0	0.01000	0.00000	
			C.I. pigment Orange 5	3468-63-1	1.00000	0.00000	

\* Total Water Volume sources may include various types of water including fresh water, produced water, and recycled water

\*\* Information is based on the maximum potential for concentration and thus the total may be over 100%

\*\*\* If you are calculating a percentage of total ingredients do not add the water volume below the green line to the water volume above the green line

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.

Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

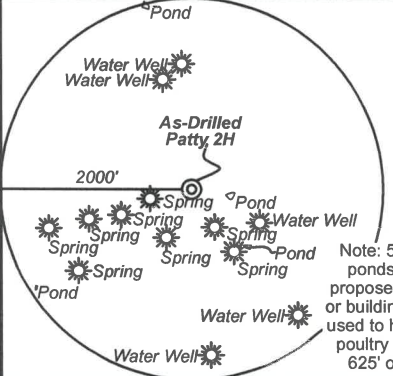
**Antero Resources  
Well No. Patty 2H  
As-Drilled**  
Antero Resources Corporation



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

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

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

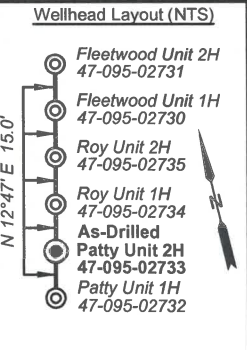


Note: 5 water wells 8 springs and 4 ponds were found within 2000' of proposed well. No occupied dwellings or buildings 2,500 square feet or larger used to house or shelter dairy cattle or poultry husbandry are located within 625' of the center of the well pad.

Bearing	Dist.
L1 N 65°08' E	2,319.4'
L2 S 85°20' W	1,621.0'
L3 N 68°07' W	1,437.0'
L4 N 05°50' W	1,885.3'

**Notes**  
West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.  
Well No. Patty Unit 2H Top Hole coordinates are  
N: 362,478.70' Latitude: 39°29'09.05"  
E: 1,583,982.71' Longitude: 80°58'26.50"  
Bottom Hole coordinates are  
N: 352,503.70' Latitude: 39°27'30.66"  
E: 1,585,171.99' Longitude: 80°58'09.25"  
UTM Zone 17, NAD 1983  
Top Hole Coordinates Bottom Hole Coordinates  
N: 4,370,702.595m N: 4,367,669.710m  
E: 502,248.073m E: 502,661.133m  
Plat orientation and corner and well references are based upon the grid north meridian.  
Well location references are based upon the magnetic meridian.

**Patty Unit 2H As-Drilled POE Coordinates**  
West Virginia Coordinate System of 1927, North Zone  
N: 361,460.92' E: 1,582,245.60'  
Latitude: 39°28'58.71" Longitude: 80°58'48.44"  
UTM Zone 17, NAD 1983  
N: 4,370,383.651m E: 501,724.036m



**Legend**

- Proposed gas well
- Monument, as noted
- Existing Well, as noted
- Creek or Drain
- Road
- Surface boundary (approx.)
- Interior surface tracts (approx.)
- County Line

FILE NO: 197-54-M-18  
DRAWING NO: Patty Unit 2H As-Drilled  
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: November 11 2021  
OPERATOR'S WELL NO. Patty 2H  
API WELL NO  
47 - 095 - 02733  
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: Middlebourne  
DISTRICT: Union/Meade COUNTY: Tyler

SURFACE OWNER: Antero Resources Corp. ROYALTY OWNER: Berna J. Hammel; Roma Hart; Michael D. & Carol Wise; Donald M. Thomas, et ux (2)  
DESIGNED AGENT: Dianna Stamper - CT Corporation System  
ACREAGE: 60.38

PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 6,129' TVD 16,065' MD

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

4,430' to Top Hole  
3,079' to Bottom Hole  
LATITUDE 39 - 30 - 00  
LONGITUDE 80 - 57 - 30

5,156' to Top Hole  
15,110' to Bottom Hole



ID	TM/Par	Owner	Bk/Pg	Acres
1	10-4.1	Antero Resources Corporation	OR12/739	60.38
2	10-4	Kevin L. & Tammy J. Thomas	OR7/290	32.22
3	9-9.1	Jennifer K. & Diane M. Thomas	AR46/754	40.00
4	9-9	Patrick L. & Tammy M. Smith	341/695	58.50
5	9-12	Mary J. Patterson	176/58	30.00
6	9-13	Kevin L. & Tammy J. Thomas	OR 7/290	2.00
7	9-15.3	Billy D. & Roma L. Thomas Hart	WB21/443	4.50
8	9-16	Billy D. & Roma L. Hart	154/569	20.00
9	10-5.3	Richard Daniel Bowen	344/814	25.93
10	10-6	James F. & Sarah K. Boley	321/745	1.00
11	10-7	Michael D. & Carol Wise	349/420	71.70
12	10-9	Bowen Family Irrevocable Trust	370/750	82.00
13	9-47	Coastal Lumber Company	301/131	67.24
14	10-8	Don M. & Montana Thomas	136/131	56.36
15	14-5	Stephen A. & Kimberly D. Starkey	382/395	16.07
16	14-1	Donald Marvin & Montana Thomas	215/271	27.25
17	13-26	Paul E. Snider	189/412	83.62
18	14-2	Everett E. Harris, et al	281/483	109.88
19	2-8	Roy F. Gorrell	415/82	68.66
20	2-6	Barnett Shinn Estate	WB23/146	15.00
21	2-9	Fred Davis	341/608	35.56
22	2-10	Joshua D. Botkins	399/327	96.00

Leases	
A	Berna J. Hammel
B	Maurice C. Grove
C	Sally & Mitchell Dunn
D	OPEN
E	OPEN
F	Roma Hart
G	J&N Management Enterprises, LLC
H	Richard A. Danser
I	Michael D. & Carol Wise
J	Bowen Family Irrevocable Trust
K	Barbara Ann Fowler
L	Donald M. Thomas, et ux
M	Andrew E. Harris, et ux
N	Donald M. Thomas, et ux
O	Paul E. Snider
P	Everett Harris
Q	Paula D. Garvey
R	Brady Carol Shinn
S	Kenneth James Lantz
T	Joshua Botkins

FILE NO: 197-54-M-18  
DRAWING NO: Patty Unit 2H As-Drilled  
SCALE: 1" = 1500'  
MINIMUM DEGREE OF ACCURACY:  
Submeter  
PROVEN SOURCE OF ELEVATION:  
WVDOT, Harrisville, WV



DATE: November 11 2021  
OPERATOR'S WELL NO. Patty 2H  
API WELL NO  
47 - 095 - 02733  
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: Middlebourne  
DISTRICT: Union/Meade COUNTY: Tyler

SURFACE OWNER: Antero Resources Corp. Kenneth James Lantz; Joshua Botkins; Sally & Mitchell Dunn; Andrew E. Harris, et ux; Everett Harris; Paula D. Garvey; ACREAGE: 60.38  
ROYALTY OWNER: Berna J. Hammel; Roma Hart; Michael D. & Carol Wise; Donald M. Thomas, et ux (2) LEASE NO: ACREAGE: 71.7; 35.5625; 96.0  
90.24; 16.625; 27.25; 60.38; 36.225; 38.87;

PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled 6,129' TVD  
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