

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

API 47-095-02663 County Tyler District McElroy
Quad Shirley 7.5' Pad Name Colorado West Field/Pool Name ---
Farm name Antero Resources Corporation Well Number Flames 1H
Operator (as registered with the OOG) Antero Resources Corporation
Address 1615 Wynkoop St 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 4361451m Easting 518124m
Landing Point of Curve Northing 518163.95m Easting 4361634.74m
Bottom Hole Northing 4365017m Easting 517086m

Elevation (ft) 749' 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 11/7/2019 Date drilling commenced 1/16/2020 Date drilling ceased 2/19/2020
Date completion activities began 2/18/2021 Date completion activities ceased 4/3/2021
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 298 Open mine(s) (Y/N) depths N
Salt water depth(s) ft 916 Void(s) encountered (Y/N) depths N
Coal depth(s) ft None Identified Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

APPROVED

Reviewed by:
Stevie Key
07/21/2023
4/13/23

API 47- 095 - 02663 Farm name Antero Resources Corporation Well number Flames 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	24"	20"	105'	New	94#, H-40	N/A	Y
Surface	17-1/2"	13-3/8"	438'	New	54.5#, J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	3103'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"	5-1/2"	18581'	New	20#, P-110	N/A	Y
Tubing		2-3/8"	6616'		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	1.20	43	0	8 Hrs
Surface	Class A	353 sx	15.6	1.20	75	0	8 Hrs
Coal							
Intermediate 1	Class A	991 sx	15.6	1.20	210	0	8 Hrs
Intermediate 2							
Intermediate 3							
Production	Class H	792 sx (Lead) 2881 sx (Tail)	13.5 (Lead), 15.2(Tail)	1.4 (Lead), 1.26 (Tail)	646	-500' Into Intermediate Casing	8 Hrs
Tubing							

Drillers TD (ft) 18602' MD, 6427' TVD (BHL), 6434' (Deepest Point Drilled) Loggers TD (ft) 18602' MD

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

Plug back procedure N/A

Kick off depth (ft) 5650'

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 over 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 on 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 _____

07/21/2023

J. M. [Signature]

4/13/18

API 47- 095 - 02663 Farm name Antero Resources Corporation Well number Flames 1H

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
*PLEASE SEE ATTACHED EXHIBIT 1					

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
*PLEASE SEE ATTACHED EXHIBIT 2								

Please insert additional pages as applicable.

07/21/2023
[Handwritten signature]

WR-35
Rev. 8/23/13

API 47- 095 - 02663 Farm name Antero Resources Corporation Well number Flames 1H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>Marcellus</u>	<u>6366' (TOP) TVD</u>	<u>6664' (TOP) MD</u>

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 7066 mcfpd Oil 101 bpd NGL --- bpd Water .42 bpd GAS MEASURED BY Estimated Orifice Pilot

<u>LITHOLOGY/ FORMATION</u>	<u>TOP DEPTH IN FT</u>	<u>BOTTOM DEPTH IN FT</u>	<u>TOP DEPTH IN FT</u>	<u>BOTTOM DEPTH IN FT</u>	<u>DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H₂S, ETC)</u>
	<u>NAME TVD</u>	<u>TVD</u>	<u>MD</u>	<u>MD</u>	
	<u>0</u>		<u>0</u>		
*PLEASE SEE ATTACHED EXHIBIT 3					

Please insert additional pages as applicable.

Drilling Contractor Patterson Drilling Company
Address 10713 West Sam Houston Parkway North City Houston State TX Zip 77064

Logging Company Nine Energy Services
Address 6500 West Fwy City Fort Worth State TX Zip 76116

Cementing Company Schlumberger Oilfield Services
Address 300 Schlumberger Dr City Sugarland State TX Zip 77478

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 2/7/2023

Submission of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

07/21/2023

LATITUDE 39°25'00"

11,212'

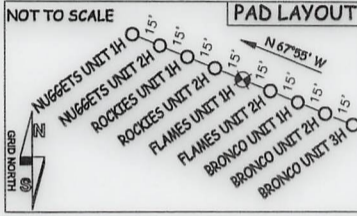
2,817' TO BOTTOM HOLE

LATITUDE 39°27'30"

Antero Resources Corporation Well No. Flames Unit 1H

AS DRILLED DATA: WELL 1H TOP HOLE INFORMATION: N: 331,249ft E: 1,635,571ft LAT: 39°24'08.26" LON: 80°47'22.84" BOTTOM HOLE INFORMATION: N: 343,006ft E: 1,632,361ft LAT: 39°26'03.99" LON: 80°48'05.91" WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE. ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE GEOXT SUBMETER MAPPING GRADE GPS UNIT. PLAT ORIENTATION, CORNER, AND WELL REFERENCE TIE LINES ARE BASED ON GRID NORTH.

(NAD) 83 (UTM) ZONE 17 COORDS: WELL 1H TOP HOLE INFORMATION: N: 4,361,451m E: 518,124m BOTTOM HOLE INFORMATION: N: 4,365,017m E: 517,086m



NOTE: 12 WATER WELLS WERE LOCATED WITHIN 2000' OF THE PROPOSED WELL

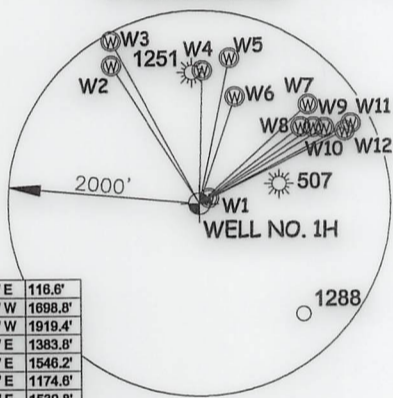
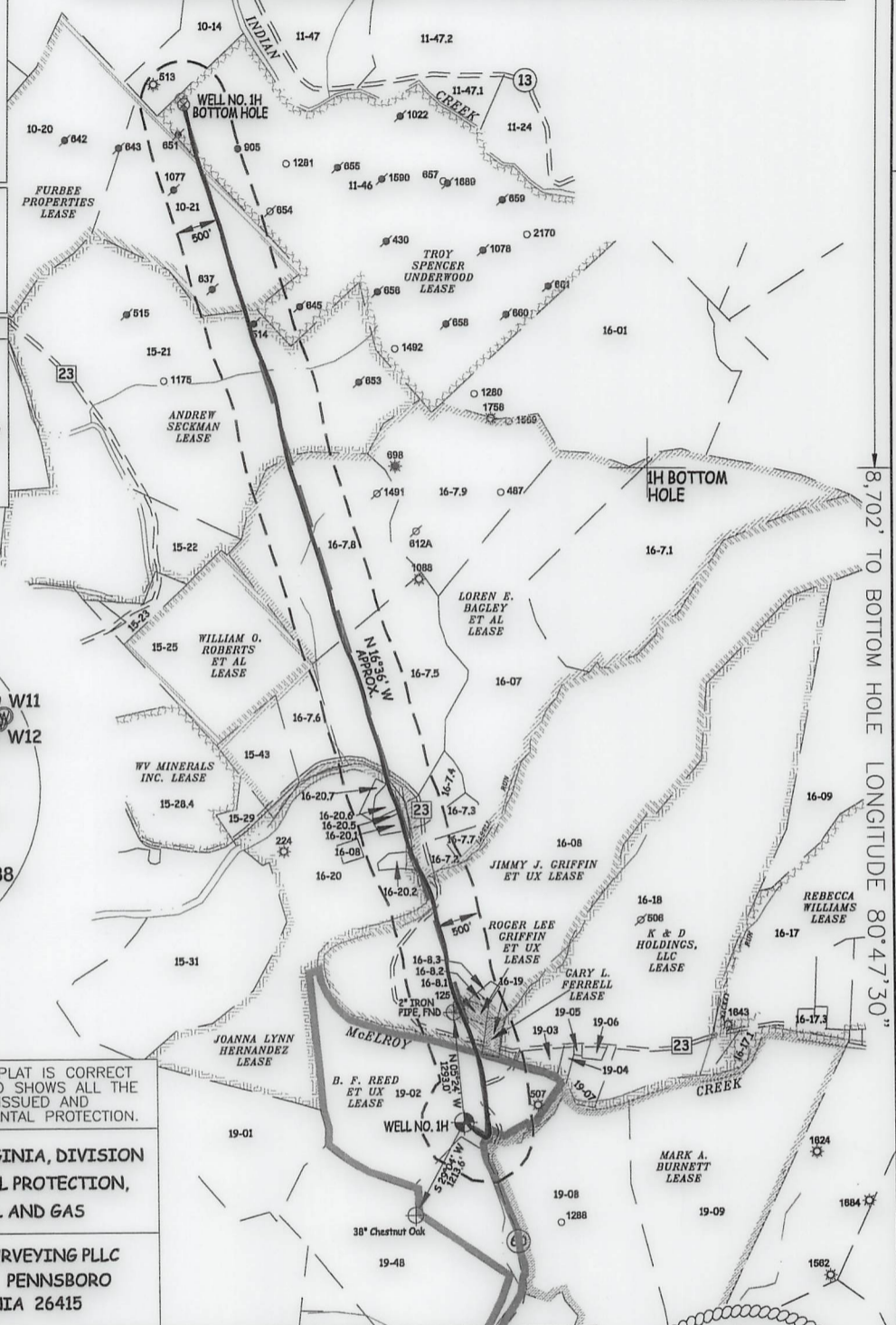


Table with 3 columns: Well ID, Northing, Easting. Lists wells W1 through W12 with their respective coordinates.

Table with 6 columns: TM-Par, Surface Owner, and well numbers. Lists various landowners and their associated well identifiers.



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 PERSCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

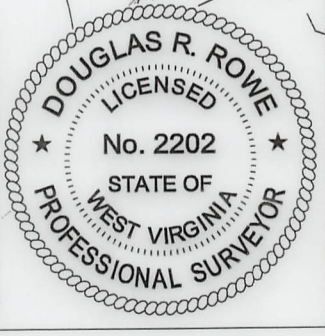


STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS. WILLOW LAND SURVEYING PLLC, 220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415

JOB # 19-005WA, DRAWING # FLAMES1HAD, SCALE 1" = 2000', MINIMUM DEGREE OF ACCURACY SUBMETER, PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS, STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS

LEGEND: Surface Owner Boundary Lines +/-, Interior Surface Tracts +/-, Proposed Well Path, As Drilled Well Path. Includes signature of Douglas R. Rowe and date 06/09/21.

NOTE: 1. NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER DAIRY CATTLE OR POULTRY HUSBANDRY ARE LOCATED WITHIN SIX HUNDRED TWENTY-FIVE (625) FEET OF THE CENTER OF THE WELL PAD. 2. TOP HOLE DATA SHOWN HEREON WAS PROVIDED BY ANTERO RESOURCES CORPORATION. 3. AS DRILLED DATA WAS PROVIDED BY ANTERO RESOURCES CORPORATION. 4. WLS IS NOT CERTIFYING THE DATA AND INFORMATION PROVIDED LISTED IN NOTES 2 AND 3, ONLY THE RELATIONSHIP TO THE DATA AND INFORMATION PROVIDED TO THE LEASE BOUNDARIES. 5. WLS IS BY NO MEANS RESPONSIBLE FOR ANY ERRORS OR INACCURACIES WITH THE DATA AND INFORMATION THAT HAS BEEN PROVIDED.



WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL 47 095 02663 (IF "GAS") PRODUCTION X STORAGE DEEP SHALLOW X STATE COUNTY PERMIT LOCATION: ELEVATION 749' - AS BUILT WATERSHED McELROY CREEK QUADRANGLE SHIRLEY 7.5' DISTRICT McELROY COUNTY TYLER SURFACE OWNER ANTERO RESOURCES CORPORATION ACREAGE 127.86 ACRES +/- OIL & GAS ROYALTY OWNER B.F. REED ET UX; JIMMY J. GRIFFIN ET UX; ROGER LEE GRIFFIN ET UX; LEASE ACREAGE 130 AC.±; 236 AC.±; 1.46 AC.±; JOANNA LYNN HERNANDEZ; LOREN E. BAGLEY ET AL; ANDREW SECKMAN; 99.5 AC.±; 502.8 AC.±; 300 AC.±; FURBEE PROPERTIES; TROY SPENCER UNDERWOOD 316 AC.±; 257 AC.± PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) AS DRILLED PLUG & ABANDON CLEAN OUT & REPLUG TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,427' TVD 18,602' MD WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM ADDRESS 1615 WYNKOOP ST. ADDRESS 5400 D BIG TYLER ROAD DENVER, CO 80202 CHARLESTON, WV 25313

WV NORTH ZONE GRID NORTH

5,236'

LONGITUDE 80°45'00"

8,702' TO BOTTOM HOLE LONGITUDE 80°47'30"

COUNTY NAME

PERMIT

07/21/2023

LATITUDE 39°25'00"

11,212'

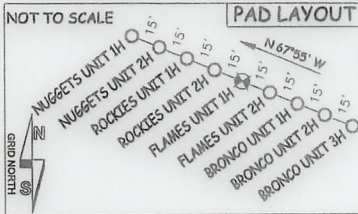
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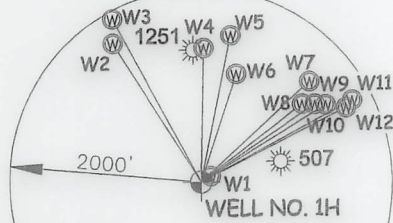


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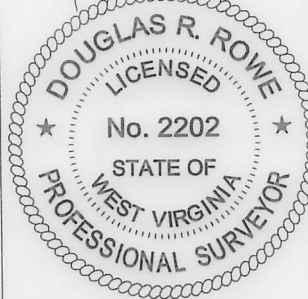
STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

WILLOW LAND SURVEYING PLLC 220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415

JOB # 19-005WA DRAWING # FLAMES1HAD SCALE 1" = 2000' MINIMUM DEGREE OF ACCURACY SUBMETER ... STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS

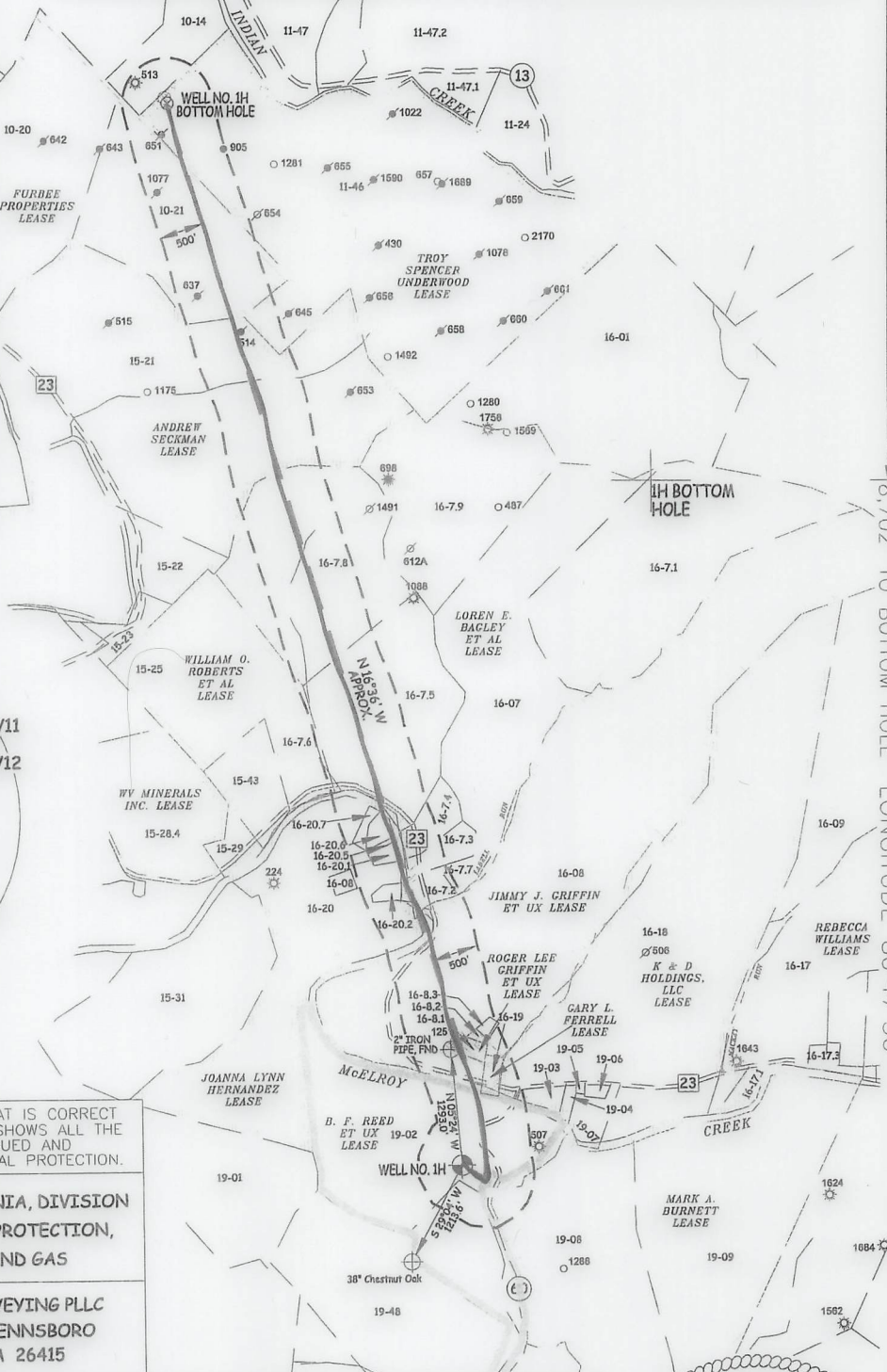
LEGEND: Surface Owner Boundary Lines +/- Interior Surface Tracts +/- Proposed Well Path As Drilled Well Path ... DOUGLAS R. ROWE P.S. 2202 DATE 09/14/20 OPERATOR'S WELL # FLAMES UNIT #1H

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Table with columns: TM-Par, Surface Owner, and Well ID (e.g., 10-14, 10-20, 10-21, etc.).



WV NORTH ZONE GRID NORTH

5,236'

LONGITUDE 80°45'00"

8,702' TO BOTTOM HOLE LONGITUDE 80°47'30"

LATITUDE 39°25'00"

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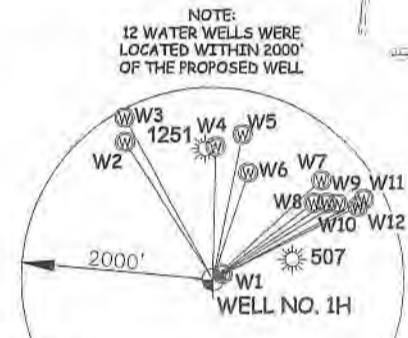
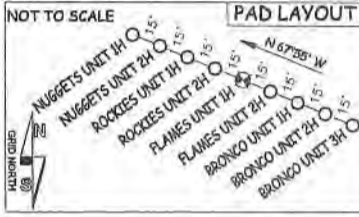
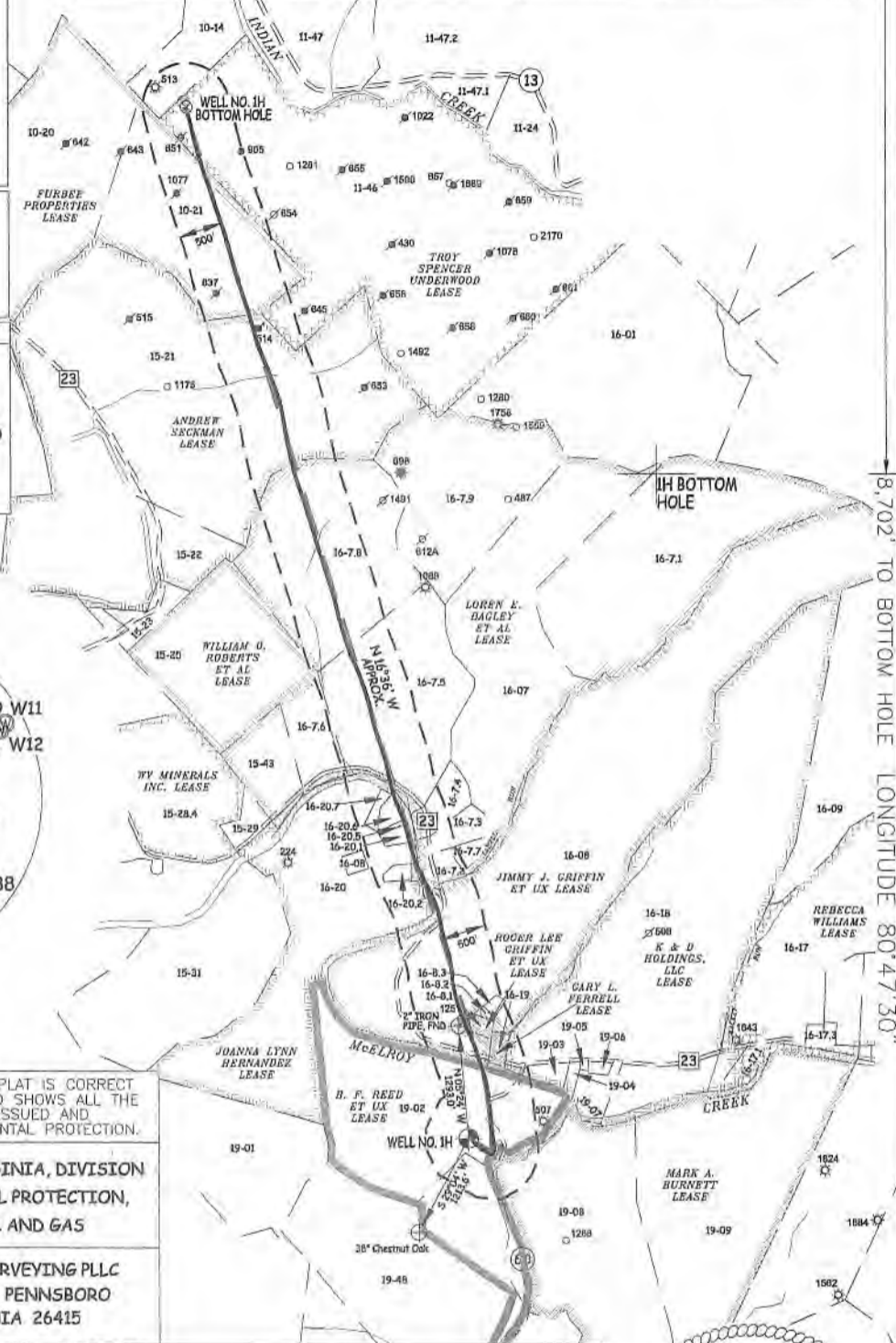


Table with 3 columns: Well ID, Bearing, Distance. Lists wells W1 through W12 with their respective bearings and distances from W1.

Table with 6 columns: TM-Par, Surface Owner, Well ID, Surface Owner, Well ID, Surface Owner, Well ID, Surface Owner, Well ID, Surface Owner, Well ID, Surface Owner. Lists well owners and their corresponding well IDs.



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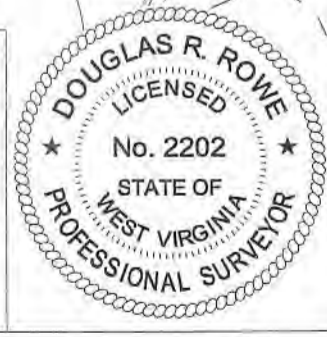


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LEGEND: Surface Owner Boundary Lines +/-, Interior Surface Tracts +/-, Proposed Well Path, As Drilled Well Path. Signature of Douglas R. Rowe, P.S. 2202, DATE 06/09/21, OPERATOR'S WELL# FLAMES UNIT #1H

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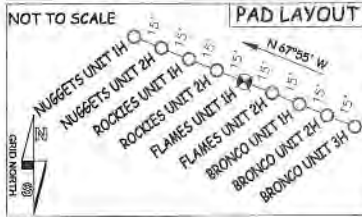
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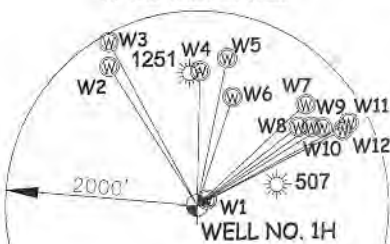


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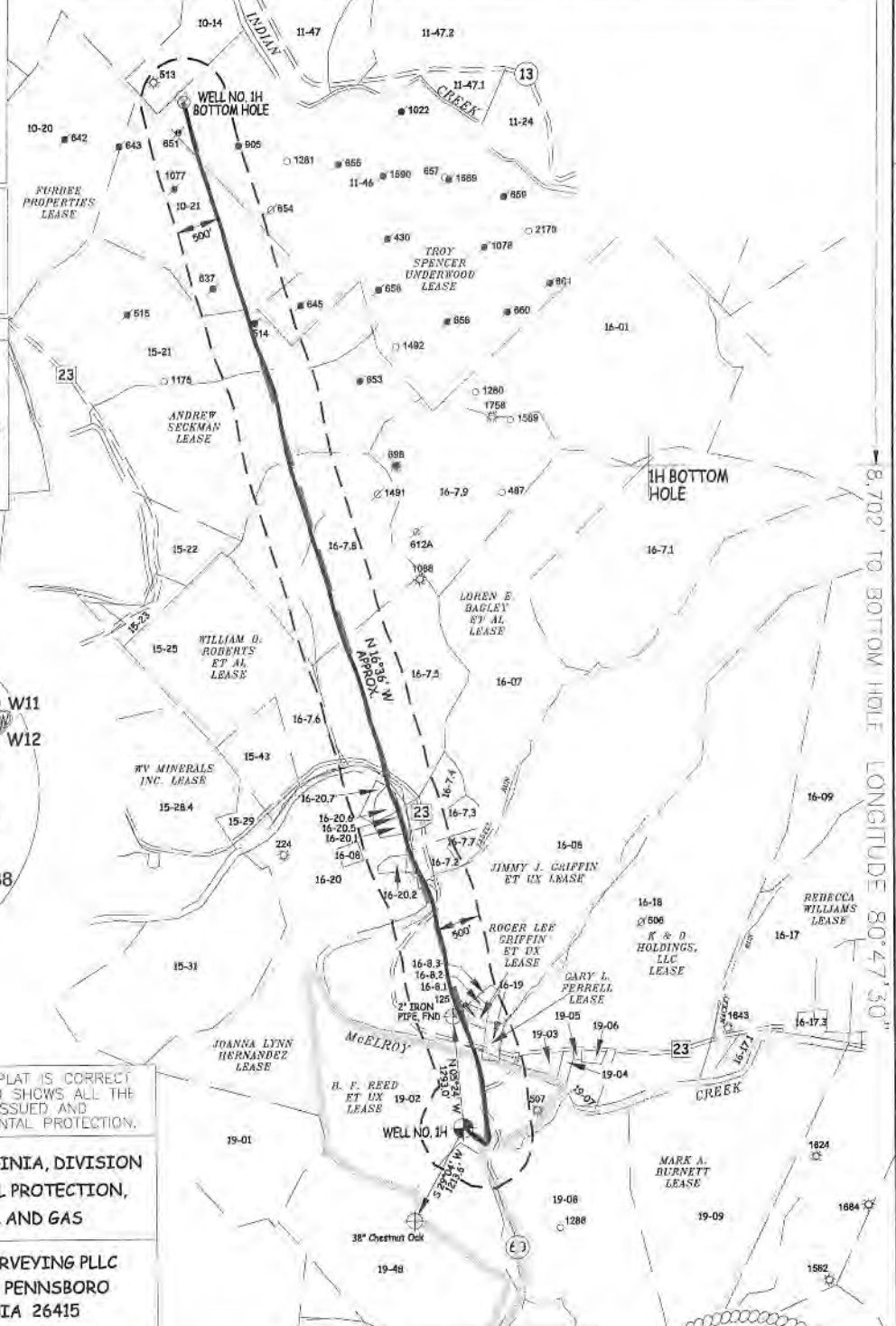
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STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

WILLOW LAND SURVEYING PLLC 220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415

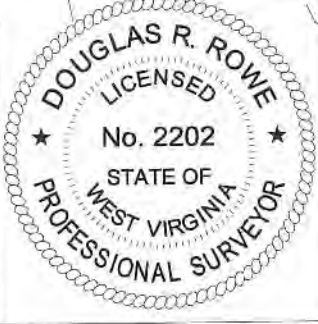
Table listing Surface Owners and their corresponding well numbers (e.g., 10-14 Charlene Garrison, 15-29 Mitchell Herrick).



JOB # 19-005WA DRAWING # FLAMES1HAD SCALE 1" = 2000' MINIMUM DEGREE OF ACCURACY SUBMETER PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS

LEGEND: Surface Owner Boundary Lines +/- Interior Surface Tracts +/- Proposed Well Path As Drilled Well Path DOUGLAS R. ROWE P.S. 2202 DATE 09/14/20 OPERATOR'S WELL# FLAMES UNIT #1H

NOTE: 1. NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER DAIRY CATTLE OR POULTRY HUSBANDRY ARE LOCATED WITHIN SIX HUNDRED TWENTY-FIVE (625) FEET OF THE CENTER OF THE WELL PAD. 2. TOP HOLE DATA SHOWN HEREON WAS PROVIDED BY ANTERO RESOURCES CORPORATION. 3. AS DRILLED DATA WAS PROVIDED BY ANTERO RESOURCES CORPORATION. 4. WLS IS NOT CERTIFYING THE DATA AND INFORMATION PROVIDED LISTED IN NOTES 2 AND 3, ONLY THE RELATIONSHIP TO THE DATA AND INFORMATION PROVIDED TO THE LEASE BOUNDARIES. 5. WLS IS BY NO MEANS RESPONSIBLE FOR ANY ERRORS OR INACCURACIES WITH THE DATA AND INFORMATION THAT HAS BEEN PROVIDED.



WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL 47 095 02663 (IF "GAS") PRODUCTION X STORAGE DEEP SHALLOW X STATE COUNTY PERMIT LOCATION: ELEVATION 749' - AS BUILT WATERSHED McELROY CREEK QUADRANGLE SHIRLEY 7.5' DISTRICT McELROY COUNTY TYLER SURFACE OWNER ANTERO RESOURCES CORPORATION ACREAGE 127.86 ACRES +/- OIL & GAS ROYALTY OWNER B.F. REED ET UX; JIMMY J. GRIFFIN ET UX; ROGER LEE GRIFFIN ET UX; LEASE ACREAGE 130 AC.±; 236 AC.±; 1.46 AC.±; JOANNA LYNN HERNANDEZ; LOREN E. BAGLEY ET AL.; ANDREW SECKMAN; 99.5 AC.±; 502.8 AC.±; 300 AC.±; FURBEE PROPERTIES; TROY SPENCER UNDERWOOD 316 AC.±; 257 AC.± PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) AS DRILLED PLUG & ABANDON CLEAN OUT & REPLUG TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,427' TVD 18,602' MD WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM ADDRESS 1815 WYNKOOP ST. ADDRESS 5400 D BIG TYLER ROAD CHARLESTON, WV 25313 FORM WW-6 DENVER, CO 80202


LONGITUDE 80°45'00" 8,702' TO BOTTOM HOLE LONGITUDE 80°47'30"

Handwritten signature and date: JAW 9/18/23

API 47-095-02663 Farm Name Antero Resources Corporation Well Number Flames Unit 1H

Exhibit 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	2/18/2021	18484.6	18440.9	36	Marcellus
2	2/18/2021	18401.25289	18189.3702	36	Marcellus
3	2/19/2021	18151.7231	17939.8404	36	Marcellus
4	2/19/2021	17902.19331	17690.3106	36	Marcellus
5	2/19/2021	17652.66353	17440.7809	36	Marcellus
6	2/20/2021	17403.13374	17191.2511	36	Marcellus
7	2/20/2021	17153.60395	16941.7213	36	Marcellus
8	2/20/2021	16904.07416	16692.1915	36	Marcellus
9	2/20/2021	16654.54438	16442.6617	36	Marcellus
10	2/20/2021	16405.01459	16193.1319	36	Marcellus
11	2/21/2021	16155.4848	15943.6021	36	Marcellus
12	2/21/2021	15905.95502	15694.0723	36	Marcellus
13	2/21/2021	15656.42523	15444.5426	36	Marcellus
14	2/22/2021	15406.89544	15195.0128	36	Marcellus
15	2/22/2021	15157.36565	14945.483	36	Marcellus
16	2/22/2021	14907.83587	14695.9532	36	Marcellus
17	2/22/2021	14658.30608	14446.4234	36	Marcellus
18	2/22/2021	14408.77629	14196.8936	36	Marcellus
19	2/23/2021	14159.2465	13947.3638	36	Marcellus
20	2/23/2021	13909.71672	13697.834	36	Marcellus
21	2/23/2021	13660.18693	13448.3043	36	Marcellus
22	2/23/2021	13410.65714	13198.7745	36	Marcellus
23	2/24/2021	13161.12736	12949.2447	36	Marcellus
24	2/24/2021	12911.59757	12699.7149	36	Marcellus
25	2/24/2021	12662.06778	12450.1851	36	Marcellus
26	2/26/2021	12412.53799	12200.6553	36	Marcellus
27	2/26/2021	12163.00821	11951.1255	36	Marcellus
28	2/27/2021	11913.47842	11701.5957	36	Marcellus
29	2/27/2021	11663.94863	11452.066	36	Marcellus
30	2/28/2021	11414.41884	11202.5362	36	Marcellus
31	3/1/2021	11164.88906	10953.0064	36	Marcellus
32	3/1/2021	10915.35927	10703.4766	36	Marcellus
33	3/2/2021	10665.82948	10453.9468	36	Marcellus
34	3/3/2021	10416.2997	10204.417	36	Marcellus
35	3/3/2021	10166.76991	9954.88723	36	Marcellus
36	3/4/2021	9917.240122	9705.35745	36	Marcellus
37	3/4/2021	9667.710334	9455.82766	36	Marcellus
38	3/5/2021	9418.180547	9206.29787	36	Marcellus
39	3/5/2021	9168.65076	8956.76809	36	Marcellus
40	3/6/2021	8919.120973	8707.2383	36	Marcellus
41	3/6/2021	8669.591185	8457.70851	36	Marcellus
42	3/7/2021	8420.061398	8208.17872	36	Marcellus
43	3/7/2021	8170.531611	7958.64894	36	Marcellus
44	3/7/2021	7921.001824	7709.11915	36	Marcellus
45	3/8/2021	7671.472036	7459.58936	36	Marcellus
46	3/8/2021	7421.942249	7210.05957	36	Marcellus
47	3/8/2021	7172.412462	6960.52979	36	Marcellus
48	3/8/2021	6922.882675	6711	36	Marcellus

07/21/2023 

API 47-095-02663 Farm Name Antero Resources Corporation Well Number Flames Unit 1H

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	2/18/2021	70.98	7897.76	9323.3	4659.1	184790	216349	N/A
2	2/18/2021	89.25	8405	6151	4544.71	503380	386950	N/A
3	2/19/2021	90.82	8226.98	5475.76	4373.2	500180	386215	N/A
4	2/19/2021	86.58	8263.16	6058.08	5315.15	507480	393436	N/A
5	2/19/2021	88.61	8373	5764	5097.94	512550	392903	N/A
6	2/20/2021	91.11	8136.28	5899.04	5054.1	506970	386359	N/A
7	2/20/2021	91.62	8484	7800	4298.45	501400	369087	N/A
8	2/20/2021	89.12	8610.06	2672.49	4534.26	509875	428020	N/A
9	2/20/2021	90.44	8449.35	2533.91	3886.89	503370	449217	N/A
10	2/20/2021	89.85	8514	6803	4426.42	499600	440215	N/A
11	2/21/2021	88.78	7911.47	6202.4	4683.73	504350	374756	N/A
12	2/21/2021	86.32	7977.6	3136.19	4546.66	500450	452574	N/A
13	2/21/2021	91.5	8299.4	5917.3	4692.7	495265	379168	N/A
14	2/22/2021	92.88	8132	7010	4356.6	498475	357773	N/A
15	2/22/2021	90.29	7938.38	7631.7	4620.63	505750	369559	N/A
16	2/22/2021	85.75	7710.01	2720.54	4472.75	500590	374596	N/A
17	2/22/2021	94.63	8232	2709	4205.14	500430	353089	N/A
18	2/22/2021	91.95	8172	5254	4032.87	502450	371750	N/A
19	2/23/2021	94.07	8246	7679	4080.41	507760	365733	N/A
20	2/23/2021	93.79	8409	7950	3892	507900	360029	N/A
21	2/23/2021	94.94	8238	7707	4213	503000	356902	N/A
22	2/23/2021	95.15	8248	7036	4929.54	509540	365780	N/A
23	2/24/2021	93.52	8286	7371	4419	502690	361609	N/A
24	2/24/2021	96.09	8157	6033	4556	502070	358749	N/A
25	2/24/2021	88.09	8312	8656	3646.64	505630	359400	N/A
26	2/26/2021	94.31	8234	6182	3799	501560	364548	N/A
27	2/26/2021	88.51	8213	6492	4261.08	454530	431047	N/A
28	2/27/2021	95.66	8146	6500	3760	503710	361446	N/A
29	2/27/2021	96.17	7816.15	7907.84	3791.48	507950	358788	N/A
30	2/28/2021	94.48	7982.03	7558.64	3749.09	512040	363172	N/A
31	3/1/2021	86.08	8098	8421	3790.79	508450	358903	N/A
32	3/1/2021	92.24	7945.25	6775.41	3969.35	506180	360243	N/A
33	3/2/2021	92.08	8210.41	6921.98	3870.6	511570	426299	N/A
34	3/3/2021	92.53	8106.56	2445.05	4177.5	502550	362912	N/A
35	3/3/2021	92.08	8067.64	6041.88	3943.95	497130	358282	N/A
36	3/4/2021	82.82	8090	6228	3929	507010	542191	N/A
37	3/4/2021	91.81	7874.84	2931.73	5054.9	506070	373549	N/A
38	3/5/2021	94.99	7987	6583	4357	510270	355396	N/A
39	3/5/2021	92.85	7955	3173	5147.58	520135	372248	N/A
40	3/6/2021	95.46	8000.77	7083.91	4617.84	183290	355560	N/A
41	3/6/2021	96.06	7593.63	6134.1	4547.13	183150	355909	N/A
42	3/7/2021	92.27	7549.37	2861.71	3969.74	187390	355123	N/A
43	3/7/2021	96.97	7866	5876	4432	184930	357021	N/A
44	3/7/2021	94.63	7267.75	2648.87	4781.09	181330	364226	N/A
45	3/8/2021	91.96	7369	6409	4393	183440	356994	N/A
46	3/8/2021	96.76	7431	7268	4490	179870	354235	N/A
47	3/8/2021	96.36	7634.18	7589.61	4342.01	185370	358829	N/A
48	3/8/2021	95.18	7087.32	3327.41	4449.3	182270	353228	N/A
AVG=		92	8,045	5,934	4,358	20,976,140	18,010,367	TOTAL

07/21/2023

EXHIBIT 3

LITHOLOGY/ FORMATION	TOP DEPTH (TVD)	BOTTOM DEPTH (TVD)	TOP DEPTH (MD)	BOTTOM DEPTH (MD)
	From Surface	From Surface	From Surface	From Surface
Shale	0	310	0	310
Silty sandstone	310	460	310	460
Shale	460	700	460	700
Silty Shale	700	820	700	820
Shale with interbedded limestone	820	850	820	850
Shale	850	880	850	880
Shale w/ trace coal	880	910	880	910
Shaley Sandstone	910	1,180	910	1,180
Shale	1,180	1,240	1,180	1,240
Sandstone w/ interbedded coals	1,240	1,330	1,240	1,330
Sandstone w/ trace coal	1,330	1,480	1,330	1,480
Sandstone	1,480	1,510	1,480	1,510
Shale	1,510	1,677	1,510	N/A
Big Lime	1,677	2,375	1,677	2,375
Fifty Foot Sandstone	2,375	2,479	2,375	2,479
Gordon	2,479	2,791	2,479	2,792
Fifth Sandstone	2,791	2,819	2,792	2,819
Bayard	2,819	3,606	2,819	3,608
Speechley	3,606	3,838	3,608	3,842
Balltown	3,838	4,323	3,842	4,331
Bradford	4,323	4,793	4,331	4,805
Benson	4,793	5,050	4,805	5,066
Alexander	5,050	6,179	5,066	6,247
Sycamore	5,993	6,154	6,054	6,222
Middlesex	6,154	6,290	6,247	6,437
Burkett	6,290	6,318	6,462	6,500
Tully	6,318	6,366	6,525	6,664
Marcellus	6,366	NA	6,664	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.

07/21/2023

SM

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	2/18/2021
Job End Date:	3/8/2021
State:	West Virginia
County:	Tyler
API Number:	47-095-02663-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	FLAMES UNIT 1H
Latitude:	39.40229000
Longitude:	-80.78968000
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,434
Total Base Water Volume (gal):	18,739,965
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	86.80759	Density = 8.50
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	100.00000	0.06732	

SM

FLUID Enviro-Syn HCR-7000-WL	Fluid Energy Group	Acid Replacement					
				Listed Below			
Excelerate LX-15	Halliburton	Friction Reducer					
				Listed Below			
Sand-Premium White-40/70	Halliburton	Proppant					
				Listed Below			
OPTIFLO-II DELAYED RELEASE BREAKER	Halliburton	Breaker					
				Listed Below			
WG-36 GELLING AGENT	Halliburton	Gelling Agent					
				Listed Below			
HYDROCHLORIC ACID, 22 BAUME	Halliburton	Solvent					
				Listed Below			
MC B-8614	Halliburton	Biocide					
				Listed Below			
Sand-Common White-100 Mesh, SSA-2	Halliburton	Proppant					
				Listed Below			

STW

HAI-501	Halliburton	Acid Corrosion Inhibitor					
				Listed Below			
Sand-Premium White-30/70	Halliburton	Proppant					
				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	13.04056	
			Complex Amine Compound	Proprietary	60.00000	0.03813	
			Hydrotreated light petroleum distillate	64742-47-8	30.00000	0.01906	
			Proprietary	Proprietary	20.00000	0.01033	
			Guar gum	9000-30-0	100.00000	0.00730	
			Hydrochloric acid	7647-01-0	30.00000	0.00626	
			Proprietary	Proprietary	10.00000	0.00516	
			Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8	5.00000	0.00318	
			Surfactant	Proprietary	5.00000	0.00318	
			Glutaraldehyde	111-30-8	30.00000	0.00250	
			Ethoxylated alcohols	Proprietary	5.00000	0.00064	
			Alkoxyated polyhydric alcohol	Proprietary	1.00000	0.00064	
			Organic chloride compound	Proprietary	1.00000	0.00064	
			Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl chlorides	68424-85-1	5.00000	0.00042	
			Ammonium persulfate	7727-54-0	100.00000	0.00015	
			Methanol	67-56-1	100.00000	0.00012	
			Ethanol	64-17-5	1.00000	0.00008	
			Oxylated phenolic resin	Proprietary	30.00000	0.00005	

DM

			Modified thiourea polymer	Proprietary	30.00000	0.00001	
			Mixture of dimer and trimer fatty acids of indefinite composition derived from tall oil	61790-12-3	30.00000	0.00001	
			Phosphoric acid	7664-38-2	0.10000	0.00001	
			Organic salt #2	Proprietary	0.01000	0.00001	
			Acrylamide	79-06-1	0.01000	0.00001	
			Sodium glycolate	2836-32-0	0.01000	0.00001	
			Formaldehyde	50-00-0	0.01000	0.00001	
			Organic salt #1	Proprietary	0.01000	0.00001	
			Sodium hydroxide	1310-73-2	0.01000	0.00001	
			Nitrated acetate salt	Proprietary	0.01000	0.00001	
			Hexadecene	629-73-2	5.00000	0.00000	
			Propargyl alcohol	107-19-7	5.00000	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)