

WR-35  
Rev. 8/23/13

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

API 47-095-02449 County Tyler District Centerville  
 Quad Middlebourne 7.5' Pad Name Lemuel Pad Field/Pool Name -----  
 Farm name Antero Resources Corporation Well Number Midge 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 4363657m Easting 507453m  
 Landing Point of Curve Northing 4363531m Easting 507357m  
 Bottom Hole Northing 4361166m Easting 508226m

Elevation (ft) 1155' 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 6/23/2017 Date drilling commenced 12/10/2017 Date drilling ceased 7/11/2018  
 Date completion activities began 9/11/2018 Date completion activities ceased 10/22/2018  
 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 None Identified Open mine(s) (Y/N) depths No  
 Salt water depth(s) ft None Identified Void(s) encountered (Y/N) depths No  
 Coal depth(s) ft 1328', 1468' Cavern(s) encountered (Y/N) depths No  
 Is coal being mined in area (Y/N) No

Reviewed by:

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API 47-095 - 02449 Farm name Antero Resources Corporation Well number Midge 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"	112'	New	78.67#, A252	N/A	Y
Surface	17-1/2"	13-3/8"	641'	New	54.5#, J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2584'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	15362'	New	23#, HCPP-110	N/A	Y
Tubing		2-3/8"	6765'		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	204 sx	15.6	1.18	241	0'	8 Hrs.
Surface	Class A	525 sx	15.6	1.20	630	0'	8 Hrs.
Coal							
Intermediate 1	Class A	890 sx	15.6	1.18	1050	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	715 sx (Lead) 1390 sx (Tail)	14.0 (Lead), 15.2 (Tail)	1.45 (Lead), 1.83 (Tail)	3580	~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 15382' MD, 6571' TVD (BHL), 6594' (Deepest Point Drilled) Loggers TD (ft) 15382' MD

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

Plug back procedure N/A

Kick off depth (ft) 5785'

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

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PERFORATION RECORD

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

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)
<b>*PLEASE SEE ATTACHED EXHIBIT 2</b>								

Please insert additional pages as applicable.



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PRODUCING FORMATION(S)	DEPTHS	
Marcellus	6533' (TOP) TVD	6823' (TOP) MD

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface 4100 psi Bottom Hole --- psi DURATION OF TEST --- hrs

OPEN FLOW Gas 11691 mcfpd Oil 273 bpd NGL --- bpd Water 680 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 <sub>2</sub> S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	

**\*PLEASE SEE ATTACHED EXHIBIT 3**


Please insert additional pages as applicable.

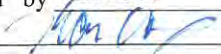
Drilling Contractor Frontier Drilling LLC  
Address 562 Spring Run Road City Pennsboro State WV Zip 26415

Logging Company Reach Wireline  
Address 100 Nu Energy Drive, Suite 1 City Aledo State TX Zip 76008

Cementing Company C&J Energy Services  
Address 1650 Hackers Creek City Jane Lew State WV Zip 26378

Stimulating Company US Well Services  
Address 535 Industrial Park Drive City Jane Lew State WV Zip 26378

Please insert additional pages as applicable.

Completed by Karin Cox Telephone 303-357-6820  
Signature  Title Permitting Agent Date 2/28/2019

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

API 47-095-02449 Farm Name Antero Resources Corporation Well Number Midge Unit 2H					
EXHIBIT 1					
Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	9/11/2018	15158.1	15257.2	24	Marcellus
2	9/11/2018	14956.08	15126.43	48	Marcellus
3	9/12/2018	14754.06	14924.41	48	Marcellus
4	9/12/2018	14552.04	14722.39	48	Marcellus
5	9/12/2018	14350.02	14520.37	48	Marcellus
6	9/13/2018	14148	14318.35	48	Marcellus
7	9/13/2018	13945.98	14116.33	48	Marcellus
8	9/13/2018	13743.96	13914.31	48	Marcellus
9	9/13/2018	13541.94	13712.29	48	Marcellus
10	9/14/2018	13339.92	13510.27	48	Marcellus
11	9/14/2018	13137.9	13308.25	48	Marcellus
12	9/14/2018	12935.88	13106.23	48	Marcellus
13	9/15/2018	12733.86	12904.21	48	Marcellus
14	9/15/2018	12531.84	12702.19	48	Marcellus
15	9/15/2018	12329.82	12500.17	48	Marcellus
16	9/15/2018	12127.8	12298.15	48	Marcellus
17	9/16/2018	11925.78	12096.13	48	Marcellus
18	9/16/2018	11723.76	11894.11	48	Marcellus
19	9/16/2018	11521.74	11692.09	48	Marcellus
20	9/16/2018	11319.72	11490.07	48	Marcellus
21	9/17/2018	11117.7	11288.05	48	Marcellus
22	9/17/2018	10915.68	11086.03	48	Marcellus
23	9/17/2018	10713.66	10884.01	48	Marcellus
24	9/18/2018	10511.64	10681.99	48	Marcellus
25	9/18/2018	10309.62	10479.97	48	Marcellus
26	9/18/2018	10107.6	10277.95	48	Marcellus
27	9/19/2018	9905.58	10075.93	48	Marcellus
28	9/19/2018	9703.56	9873.91	48	Marcellus
29	9/19/2018	9501.54	9671.89	48	Marcellus
30	9/20/2018	9299.52	9469.87	48	Marcellus
31	9/20/2018	9097.5	9267.85	48	Marcellus
32	9/20/2018	8895.48	9065.83	48	Marcellus
33	9/21/2018	8693.46	8863.81	48	Marcellus
34	9/21/2018	8491.44	8661.79	48	Marcellus
35	9/21/2018	8289.42	8459.77	48	Marcellus
36	9/21/2018	8087.4	8257.75	48	Marcellus
37	9/22/2018	7885.38	8055.73	48	Marcellus
38	9/23/2018	7683.36	7853.71	48	Marcellus
39	9/23/2018	7481.34	7651.69	48	Marcellus
40	9/23/2018	7279.32	7449.67	48	Marcellus
41	9/24/2018	7077.3	7247.65	48	Marcellus
42	9/24/2018	6875.28	7045.63	48	Marcellus



API 47-095-02449 Farm Name Antero Resources Corporation Well Number Midge Unit 2H								
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	9/11/2018	62.3179	7071.557	0	5374	262180	8315	N/A
2	9/11/2018	74.9629	7785.59	6092	3388	405100	8141	N/A
3	9/12/2018	80.0656	7713.771	6185	3933	404680	7990	N/A
4	9/12/2018	75.559	7544.459	5960	3818	405560	7952	N/A
5	9/12/2018	78.6164	7597.747	5721	3328	405780	8159	N/A
6	9/13/2018	76.0096	7724.482	5955	3458	406520	8112	N/A
7	9/13/2018	76.5703	7369.556	5891	3963	404780	8155	N/A
8	9/13/2018	76.2881	7426.892	5368	3832	405020	8000	N/A
9	9/13/2018	77.8782	7417.352	5843	3738	405320	8101	N/A
10	9/14/2018	78.1877	7274.913	5340	3983	405740	7915	N/A
11	9/14/2018	78.11	7520.832	5370	4841	406060	9602	N/A
12	9/14/2018	75.5661	7239.458	5544	3792	405360	8224	N/A
13	9/15/2018	75.3046	7093.196	5404	4710	405340	7998	N/A
14	9/15/2018	76.3105	7113.567	5198	4571	406240	7844	N/A
15	9/15/2018	79.1603	6927.998	5389	4495	406300	7839	N/A
16	9/15/2018	74.4666	7193.864	5878	3704	405360	7979	N/A
17	9/16/2018	75.6212	6990.513	5362	4627	406120	7871	N/A
18	9/16/2018	79.6506	7105.539	5246	4409	404720	7691	N/A
19	9/16/2018	80.538	7217.752	5560	5067	405060	7708	N/A
20	9/16/2018	78.6824	6977.078	5603	4553	405400	7904	N/A
21	9/17/2018	78.2299	7019.746	5658	4539	409840	7795	N/A
22	9/17/2018	80.1	6997.03	5430	4981	403740	7791	N/A
23	9/17/2018	78.6851	6724.888	5745	3889	405540	7894	N/A
24	9/18/2018	77.5779	6879.24	5471	3692	405640	7838	N/A
25	9/18/2018	79.4867	7308.579	5434	3900	404700	7758	N/A
26	9/18/2018	79.3004	7054.368	5674	3605	404960	8091	N/A
27	9/19/2018	72.8006	6743.012	6003	4057	403040	11182	N/A
28	9/19/2018	80.2156	7048.691	5566	4693	403380	7984	N/A
29	9/19/2018	78.671	6582.864	5320	3433	404440	7868	N/A
30	9/20/2018	77.317	6868.126	5746	4635	332580	9322	N/A
31	9/20/2018	79.7992	6891.543	5680	3736	428640	8860	N/A
32	9/20/2018	77.3668	6749.045	6246	3363	405120	7822	N/A
33	9/21/2018	78.1402	6458.235	5505	3922	404640	7798	N/A
34	9/21/2018	78.9898	6813.245	4502	3975	405460	7838	N/A
35	9/21/2018	79.615	6615.106	5363	4040	403800	7778	N/A
36	9/21/2018	79.5071	7064.506	5838	4880	374980	9554	N/A
37	9/22/2018	78.2635	6402.613	5648	4094	405540	7814	N/A
38	9/23/2018	78.7548	6254.966	5185	3757	404240	7650	N/A
39	9/23/2018	79.9601	6649.92	6119	4703	396200	7657	N/A
40	9/23/2018	78.4786	6462.181	6010	4092	404280	8577	N/A
41	9/24/2018	77.3104	6288.449	6216	3974	405060	7795	N/A
42	9/24/2018	80.1794	6263.243	5459	3692	407300	8023	N/A
	AVG=	78	7,011	5,494	4,125	16,789,760	342,189	TOTAL

API 47-095-02449 Farm Name Antero Resources Corporation Well Number Midge 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
Sandstone	0	528	0	528
Silty sandstone	528	568	528	568
Sandy siltstone	568	608	568	608
Silty shale	608	688	608	688
Calcareous shale	688	788	688	788
Shaly siltstone	788	848	788	848
Silty Marlstone	848	948	848	948
Calcareous shale	948	1,008	948	1,008
Sandy siltstone	1,008	1,088	1,008	1,088
Calcareous shale	1,088	1,328	1,088	1,328
Coal / shale	1,328	1,468	1,328	1,468
Sandy shale/coal	1,468	1,908	1,468	1,908
Sandy siltstone	1,908	1,996	1,908	2,004
Big Lime	1,996	2,204	2,004	2,211
Big Injun	2,204	2,699	2,211	2,707
Gantz Sand	2,699	2,816	2,707	2,824
Fifty Foot Sandstone	2,816	2,970	2,824	2,979
Gordon	2,970	3,093	2,979	3,103
Fifth Sandstone	3,093	3,396	3,103	3,408
Bayard	3,396	3,689	3,408	3,705
Warren	3,689	4,061	3,705	4,082
Speechley	4,061	4,312	4,082	4,335
Balltown	4,312	4,729	4,335	4,756
Bradford	4,729	4,986	4,756	5,015
Benson	4,986	5,390	5,015	5,423
Alexander	5,390	5,923	5,423	5,930
Rhinestreet	5,923	6,249	5,930	6,324
Sycamore	6,249	6,390	6,324	6,517
Middlesex	6,390	6,482	6,517	6,686
Burkett	6,482	6,508	6,686	6,749
Tully	6,508	6,533	6,749	6,823
Marcellus	6,533	N/A	6,823	N/A

\*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:	9/11/2018
Job End Date:	9/24/2018
State:	West Virginia
County:	Tyler
API Number:	47-095-02449-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Midge 2H
Latitude:	39.42232500
Longitude:	-80.91358600
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6.594
Total Base Water Volume (gal):	14,783,360
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
Water	Antero Resources	Carrier/Base Fluid	Water	7732-18-5	100.00000	87.74572	
Sand	J.S. Well Services, LLC	Proppant					
HCL Acid (12.6%-17.5%)	J.S. Well Services, LLC	Bulk Acid	Crystalline Silica, quartz	14808-60-7	100.00000	11.94899	
			Water	7732-18-5	87.40000	0.15677	
			Hydrogen Chloride	7647-01-0	17.50000	0.03645	
LGC-15	J.S. Well Services, LLC	Gelling Agents					
			Guar Gum	9000-30-0	50.00000	0.03564	
			Petroleum Distillates	64742-47-8	60.00000	0.03375	
			Suspending agent (solid)	14808-60-7	3.00000	0.00545	
			Surfactant	68439-51-0	3.00000	0.00214	
WFRA-405	J.S. Well Services, LLC	Friction Reducer					
			2-Propenoic acid, polymer with propenamide	29003-06-9	30.00000	0.01423	
			Hydrated light distillate (petroleum)	64742-47-8	30.00000	0.01146	



Bioclear 2000	U.S. Well Services, LLC	Anti-Bacterial Agent							
			2,2-dibromo-3-nitripropionamide	10222-01-2		20.00000		0.00427	
			Deionized Water	7732-18-5		28.00000		0.00244	
AP One	U.S. Well Services, LLC	Gel Breakers							
			Ammonium Persulfate	7727-54-0		100.00000		0.00129	
SI-1200s	U.S. Well Services, LLC	Scale Inhibitor							
			Proprietary Scale Inhibitor	Proprietary		10.00000		0.00129	
AI-303	U.S. Well Services, LLC	Acid Corrosion Inhibitors							
			Ethylene glycol	107-21-1		40.00000		0.00005	
			Cinnamaldehyde	104-55-2		20.00000		0.00002	
			Formic acid	64-18-6		20.00000		0.00002	
			Butyl cellosolve	111-76-2		20.00000		0.00002	
			Polyether	60828-78-6		10.00000		0.00001	
			Acetophenone, thiourea, formaldehyde polymer	68527-49-1		5.00000		0.00001	

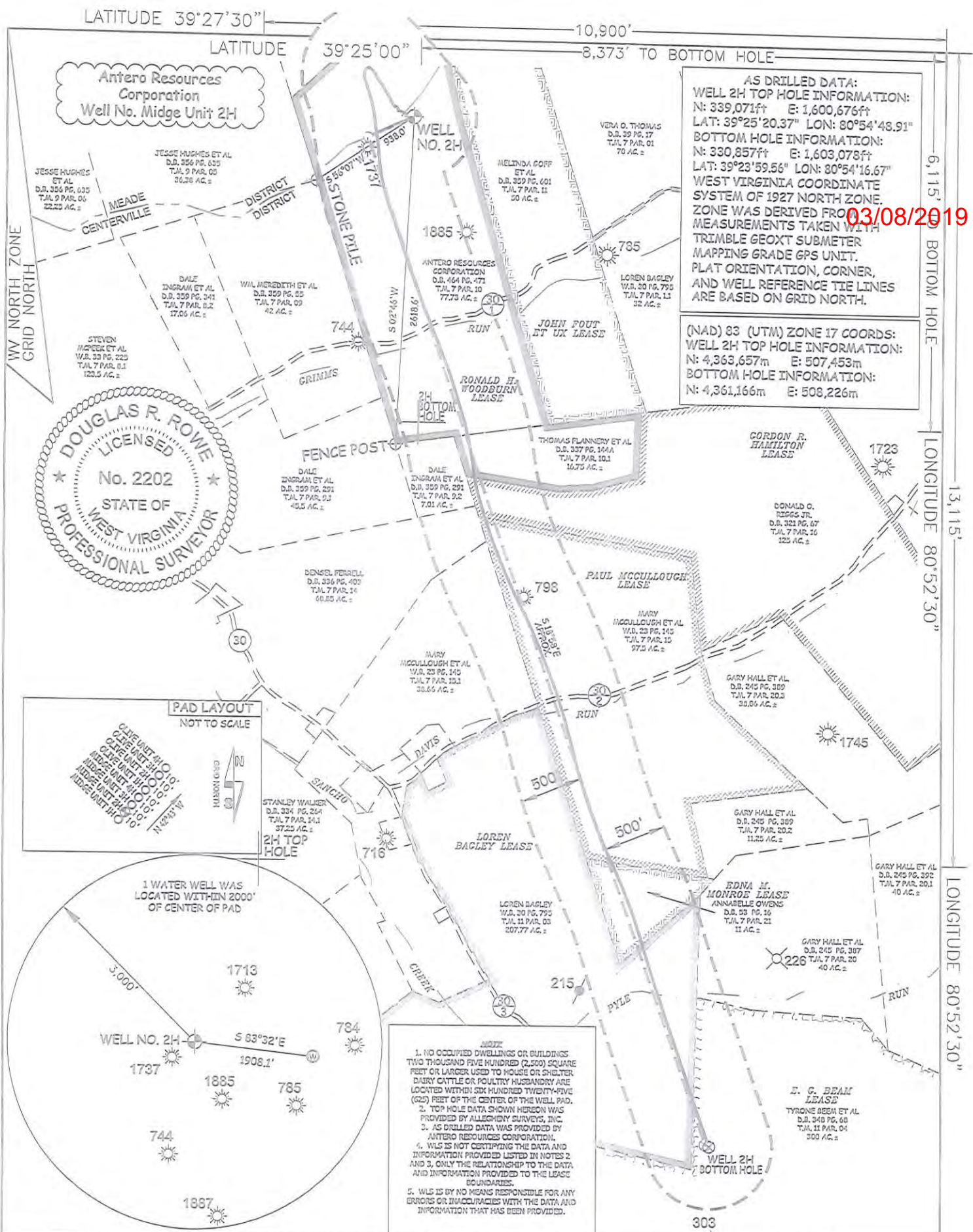
Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.

\* Total Water Volume sources may include fresh water, produced water, and/or 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)

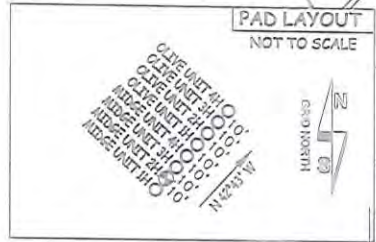




**AS DRILLED DATA:**  
**WELL 2H TOP HOLE INFORMATION:**  
 N: 339,071ft E: 1,600,676ft  
 LAT: 39°25'20.37" LON: 80°54'48.91"  
**BOTTOM HOLE INFORMATION:**  
 N: 330,857ft E: 1,603,078ft  
 LAT: 39°23'59.56" LON: 80°54'16.67"  
**WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE.**  
 ZONE WAS DERIVED 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 2H TOP HOLE INFORMATION:**  
 N: 4,363,657m E: 507,453m  
**BOTTOM HOLE INFORMATION:**  
 N: 4,361,166m E: 508,226m

03/08/2019



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 ALLEGHENY SURVEYS, INC.
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.

JOB # 16-028WA  
 DRAWING # MIDGE2HAD  
 SCALE 1" = 1000'  
 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

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

**LEGEND**  
 - - - - - Surface Owner Boundary Lines +/-  
 - - - - - Interior Surface Tracts +/-  
 ○ Proposed Well Path  
 ⊙ As Drilled Well Path  
 DOUGLAS R. ROWE P.S. 2202  
 DATE 01/21/19  
 OPERATOR'S WELL# MIDGE UNIT #2H

WELL TYPE: OIL \_\_\_ GAS  LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS") PRODUCTION  STORAGE \_\_\_ DEEP \_\_\_ SHALLOW   
 LOCATION: ELEVATION 1,155' AS BUILT WATERSHED OUTLET MIDDLE ISLAND CREEK  
 QUADRANGLE MIDDLEBOURNE 7.5' DISTRICT CENTERVILLE COUNTY TYLER  
 SURFACE OWNER ANTERO RESOURCES CORPORATION ACREAGE 77.73 ACRES +/-  
 OIL & GAS ROYALTY OWNER RONALD H. WOODBURN; GORDON R. HAMILTON; PAUL MCCULLOUGH; EDNA M. MONROE; LOREN BAGLEY; E. G. BEAM LEASE ACREAGE 94 AC±; 125 AC±; 97.5 AC±; 11 AC±; 207.77 AC±; 317 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 6,571' TVD 15,382' MD  
 WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM  
 ADDRESS 1615 WYNKOOP ST. DENVER, CO 80202 ADDRESS 5400 D BIG TYLER ROAD CHARLESTON, WV 25313