

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

API 47-095-02411 County Tyler District Centerville  
Quad Shirley 7.5' Pad Name Dawson Pad Field/Pool Name -----  
Farm name Gary D. Dawson et ux Well Number Bounty 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 4359045m Easting 510878m  
Landing Point of Curve Northing 4359215.46m Easting 510829.96m  
Bottom Hole Northing 4361714m Easting 509952m

Elevation (ft) 1009' 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 5/8/2017 Date drilling commenced 7/1/2017 Date drilling ceased 1/9/2018  
Date completion activities began 3/12/2018 Date completion activities ceased 9/5/2018  
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 N/A Open mine(s) (Y/N) depths No  
Salt water depth(s) ft N/A Void(s) encountered (Y/N) depths No  
Coal depth(s) ft None Identified Cavern(s) encountered (Y/N) depths No  
Is coal being mined in area (Y/N) No

Reviewed by:

\_\_\_\_\_

API 47-095 - 02411 Farm name Gary D. Dawson et ux Well number Bounty 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	24"	20"	80'	New	94#, H-40	N/A	Y
Surface	17-1/2"	13-3/8"	587'	New	48#, H-40	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2573'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	15788'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	6995'		4.7#, N-80		
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	120	0'	8 Hrs.
Surface	Class A	480 sx	15.6	1.18	826	0'	8 Hrs.
Coal							
Intermediate 1	Class A	870 sx	15.6	1.18	1181	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	710 sx (Lead) 1380 sx (Tail)	13.5 (Lead), 15.2 (Tail)	1.45 (Lead), 1.94 (Tail)		-500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 15792' MD, 6453' TVD (BHL), 6453' (Deepest Point Drilled) Loggers TD (ft) 15792' MD  
 Deepest formation penetrated Marcellus Plug back to (ft) N/A  
 Plug back procedure N/A

Kick off depth (ft) 5938'

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 - 02411 Farm name Gary D. Dawson et ux Well number Bounty Unit 1H

PRODUCING FORMATION(S)	DEPTHS	
Marcellus	6465' (TOP) TVD	6719' (TOP) 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 12940 mcfpd Oil 202 bpd NGL --- bpd Water 845 bpd GAS MEASURED BY  Estimated  Orifice  Pilot

LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H <sub>2</sub> S, ETC)
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**\*PLEASE SEE ATTACHED EXHIBIT 3**


Please insert additional pages as applicable.

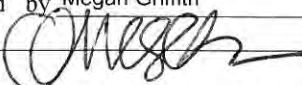
Drilling Contractor Patterson - UTI Drilling Company LLC  
Address 207 Carlton Drive City Eighty Four State PA Zip 15330

Logging Company Allied Horizontal Wireline Services  
Address 381 Colonial Manor Road City North Huntington State PA Zip 15642

Cementing Company BJ Services  
Address 1036 East Main Street City Bridgeport State WV Zip 26330

Stimulating Company Baker Hughes  
Address 837 Philippi Pike City Clarksburg State WV Zip 26301

Please insert additional pages as applicable.

Completed by Megan Griffith Telephone 303-357-7223  
Signature  Title Permitting Agent Date 10/4/2018

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

API 47-095-02411 Farm Name Gary D. Dawson Well Number Bounty Unit 1H

**EXHIBIT 1**

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	3/19/2018	15615	15670	60	Marcellus
2	3/19/2018	15414	15584	60	Marcellus
3	3/19/2018	15214	15383	60	Marcellus
4	4/6/2018	15013	15182	60	Marcellus
5	4/6/2018	14812	14981	60	Marcellus
6	4/7/2018	14611	14781	60	Marcellus
7	4/7/2018	14410	14580	60	Marcellus
8	4/7/2018	14210	14379	60	Marcellus
9	4/7/2018	14009	14178	60	Marcellus
10	4/8/2018	13808	13977	60	Marcellus
11	4/8/2018	13607	13777	60	Marcellus
12	4/8/2018	13407	13576	60	Marcellus
13	4/9/2018	13206	13375	60	Marcellus
14	4/9/2018	13005	13174	60	Marcellus
15	4/9/2018	12804	12973	60	Marcellus
16	4/9/2018	12603	12773	60	Marcellus
17	4/10/2018	12403	12572	60	Marcellus
18	4/10/2018	12202	12371	60	Marcellus
19	4/10/2018	12001	12170	60	Marcellus
20	4/11/2018	11800	11970	60	Marcellus
21	4/11/2018	11599	11769	60	Marcellus
22	4/11/2018	11399	11568	60	Marcellus
23	4/11/2018	11198	11367	60	Marcellus
24	4/12/2018	10997	11166	60	Marcellus
25	4/12/2018	10796	10966	60	Marcellus
26	4/12/2018	10595	10765	60	Marcellus
27	4/13/2018	10395	10564	60	Marcellus
28	4/13/2018	10194	10363	60	Marcellus
29	4/13/2018	9993	10162	60	Marcellus
30	4/13/2018	9792	9962	60	Marcellus
31	4/14/2018	9591	9761	60	Marcellus
32	4/14/2018	9391	9560	60	Marcellus
33	4/14/2018	9190	9359	60	Marcellus
34	4/14/2018	8989	9158	60	Marcellus
35	4/15/2018	8788	8958	60	Marcellus
36	4/15/2018	8588	8757	60	Marcellus
37	4/15/2018	8387	8556	60	Marcellus
38	4/16/2018	8186	8355	60	Marcellus
39	4/16/2018	7985	8155	60	Marcellus
40	4/16/2018	7784	7954	60	Marcellus
41	4/17/2018	7584	7753	60	Marcellus
42	4/18/2018	7383	7552	60	Marcellus
43	4/18/2018	7182	7351	60	Marcellus
44	4/18/2018	6981	7151	60	Marcellus
45	4/18/2018	6780	6950	60	Marcellus

## 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	3/19/2018	74.3951	7231.15	5281	3116	15628.15	4228	N/A
2	3/19/2018	76.7867	7426.22	5080	3208	15714.22	8428	N/A
3	3/19/2018	75	7444	5107	3016	15567	8647	N/A
4	4/6/2018	80.4	7717	5635	4073	17425	8237	N/A
5	4/6/2018	78.7	7571	5321	4653	17545	8531	N/A
6	4/7/2018	80.4	7660	5245	5150	18055	8420	N/A
7	4/7/2018	80.5	7720	5847	5004	18571	8259	N/A
8	4/7/2018	78.9	7488	5724	4331	17543	8324	N/A
9	4/7/2018	78.6	7449	5787	4453	17689	8246	N/A
10	4/8/2018	80.4	7670	5938	4544	18152	8475	N/A
11	4/8/2018	80.6	7635	5548	4651	17834	8242	N/A
12	4/8/2018	79.5	7808	5789	4176	17773	8276	N/A
13	4/9/2018	80	7686	5879	5520	19085	8189	N/A
14	4/9/2018	80.5	7661	5770	4438	17869	8213	N/A
15	4/9/2018	78.8	7387	5756	4176	17319	8853	N/A
16	4/9/2018	78.2	7279	5708	4395	17382	8262	N/A
17	4/10/2018	80.4	7668	5601	4302	17571	8264	N/A
18	4/10/2018	80	7884	5560	4888	18332	11085	N/A
19	4/10/2018	80	7217	5522	5027	17766	8292	N/A
20	4/11/2018	79.9	7150	5846	5640	18636	8361	N/A
21	4/11/2018	79.2	7352	5536	4680	17568	9710	N/A
22	4/11/2018	77.8	7061	5938	4320	17319	8280	N/A
23	4/11/2018	77.9	7141	5677	4968	17786	8335	N/A
24	4/12/2018	76.4	7000	5459	5547	18006	8188	N/A
25	4/12/2018	78.6	6885	5527	5040	17452	8290	N/A
26	4/12/2018	79.9	7067	5385	5112	17564	10263	N/A
27	4/13/2018	80.3	6995	5651	5126	17772	8238	N/A
28	4/13/2018	79.9	7216	5563	4893	17672	7845	N/A
29	4/13/2018	78.9	7235	5936	5143	18314	8201	N/A
30	4/13/2018	78.3	7110	5863	5917	18890	9055	N/A
31	4/14/2018	77.3	6975	6137	5450	18562	8262	N/A
32	4/14/2018	76.6	6625	5978	4875	17478	8079	N/A
33	4/14/2018	80	6660	5915	4313	16888	8163	N/A
34	4/14/2018	80.1	6624	6188	4628	17440	8474	N/A
35	4/15/2018	79.7	6570	5416	4558	16544	8471	N/A
36	4/15/2018	80.6	6627	6034	4444	17105	7987	N/A
37	4/15/2018	79.4	6486	4993	4440	15919	8085	N/A
38	4/16/2018	79.8	6675	4836	5533	17044	8327	N/A
39	4/16/2018	75	6720	5219	3888	15827	8140	N/A
40	4/16/2018	80.1	6535	5991	4288	16814	8078	N/A
41	4/17/2018	80.1	6478	5157	4591	16226	8182	N/A
42	4/18/2018	79.9	6449	5801	4264	16514	9453	N/A
43	4/18/2018	76.1	6375	5437	5013	16825	8727	N/A
44	4/18/2018	78.1	6231	6030	4090	16351	8083	N/A
45	4/18/2018	78.3	6503	5917	4290	16710	8139	N/A
	AVG=	<b>78.9</b>	<b>7,119</b>	<b>5,634</b>	<b>4,626</b>	<b>782,046</b>	<b>376,887</b>	TOTAL

## EXHIBIT 3

LITHOLOGY/ FORMATION	TOP DEPTH (TVD)	BOTTOM DEPTH (TVD)	TOP DEPTH (MD)	BOTTOM DEPTH (MD)
	From Surface	From Surface	From Surface	From Surface
Fresh Water	227'	N/A	227'	N/A
Sandstone	0	N/A	0	N/A
Silty Sandstone	300	N/A	300	N/A
Sandy Siltstone	440	N/A	440	N/A
Sandstone	600	N/A	600	N/A
Sandy Marlstone	700	N/A	700	N/A
Calcareous Sandstone	880	N/A	880	N/A
Silty Marlstone	1,070	N/A	1,070	N/A
Sandstone w/interbedded coal	1,280	N/A	1,280	N/A
Sandstone w/trace coal	1,440	N/A	1,440	N/A
Calcareous Shale	1,590	N/A	1,590	N/A
Coal/Shale	1,650	N/A	1,650	N/A
Calcareous Shale	1,670	N/A	1,670	N/A
Calcareous Sandstone	1,840	N/A	1,840	N/A
Big Lime	1,913	N/A	1,923	N/A
Big Injun	2,034	N/A	2,047	N/A
Gantz Sand	2,570	N/A	2,588	N/A
Fifty Foot Sandstone	2,665	N/A	2,684	N/A
Gordon	2,779	N/A	2,799	N/A
Fifth Sandstone	2,971	N/A	2,992	N/A
Bayard	3,182	N/A	3,204	N/A
Warren	3,467	N/A	3,489	N/A
Speechley	3,836	N/A	3,858	N/A
Balltown	4,256	N/A	4,297	N/A
Bradford	4,524	N/A	4,546	N/A
Benson	4,788	N/A	4,811	N/A
Alexander	5,196	N/A	5,219	N/A
Rhinestreet	5,767	N/A	5,790	N/A
Sycamore	6,133	N/A	6,177	N/A
Middlesex	6,297	N/A	6,398	N/A
Burkett	6,407	N/A	6,576	N/A
Tully	6,440	N/A	6,649	N/A
Marcellus	6,465	N/A	6,719	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:	3/19/2018
Job End Date:	4/18/2018
State:	West Virginia
County:	Tyler
API Number:	47-095-02411-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Bounty Unit 1H
Latitude:	39.37884300
Longitude:	-80.86927600
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,454
Total Base Water Volume (gal):	16,339,046
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	Supplied by Operator	Base Fluid	Water	7732-18-5	70.00000	88.11909	
DAP-103	CWS	Iron Control					
				Listed Below			



Sand (Proppant)	CWS	Propping Agent							
							Listed Below		
DAP-902	CWS	Scale Inhibitor							
							Listed Below		
SANIFRAC 8844	CWS	Biocide							
							Listed Below		
CI-9100G	CWS	Corrosion Inhibitor							
							Listed Below		
Calbreak 5501	CWS	Breaker							
							Listed Below		
DWP-641	CWS	Friction Reducer							
							Listed Below		
DWP-111	CWS	Gel Slurry							
							Listed Below		
Hydrochloric Acid	CWS	Clean Perforations							
							Listed Below		
Other Chemical (s)	Listed Above	See Trade Name (s) List							

					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	11.50841	
					Calcite	471-34-1	1.00000	0.08582	
					Hydrochloric acid	7647-01-0	37.00000	0.05790	
					Guar gum	9000-30-0	60.00000	0.03451	
					Distillates (petroleum), hydrotreated middle	64742-46-7	60.00000	0.03451	
					Illite	12173-60-3	1.00000	0.02923	
					Polymer	26100-47-0	45.00000	0.02782	
					Distillates (petroleum), hydrotreated light	64742-47-8	30.00000	0.01854	
					Goethite	1310-14-1	0.10000	0.01151	
					Apatite	64476-38-6	0.10000	0.01151	
					Biotite	1302-27-8	0.10000	0.01151	
					Ammonium Persulfate	64742-47-8	100.00000	0.01035	
					Ammonium chloride	12125-02-9	11.00000	0.00680	
					2-Propenoic acid, homopolymer, sodium salt	9003-04-7	40.00000	0.00607	
					Polyethylene glycol mixture	25322-68-3	54.50000	0.00602	
					Ilmenite	98072-94-7	0.10000	0.00292	
					Quaternary ammonium compounds, bis (hydrogenated tallow alkyl)dimethyl, salts with bentonite	68953-58-2	5.00000	0.00288	
					Sorbitan monooleate	1338-43-8	4.00000	0.00247	
					2,2-Dibromo-3-Nitriopropionamide	10222-01-2	20.00000	0.00221	
					Vinylidene chloride-methyl acrylate copolymer	69418-26-4	20.00000	0.00207	
					Polyethylene glycol monooleate	9004-96-0	3.00000	0.00185	

					57-55-6	10.00000	0.00152	
					61723-83-9	2.00000	0.00124	
					37251-67-5	1.50000	0.00086	
					61791-26-2	1.00000	0.00062	
					77-92-9	60.00000	0.00052	
					7647-15-6	4.00000	0.00044	
					3252-43-5	3.00000	0.00033	
					84133-50-6	0.50000	0.00031	
					79-06-1	0.10000	0.00006	
					107-21-1	40.00000	0.00003	
					34590-94-8	20.00000	0.00002	
					Proprietary	10.00000	0.00001	Proprietary CAS
					104-55-2	10.00000	0.00001	
					68513-87-1	1.00000	0.00001	
					64-18-6	10.00000	0.00001	
					67-63-0	5.00000	0.00001	
					72480-70-7	10.00000	0.00001	
					111-46-6	1.00000	0.00001	

\* 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)

LATITUDE 39°25'00"

11,459'

2,707' TO BOTTOM HOLE

LATITUDE 39°25'00"

LONGITUDE 80°52'30"

4,323' TO BOTTOM HOLE

13,088'

LONGITUDE 80°50'00"

Antero Resources Corporation  
Well No. Bounty Unit 1H

WELL 1H  
BOTTOM HOLE

CARL W. ASH LEASE

JOSEPH McCOLLY  
D.B. 332 PG. 440  
T.J.L. 12 PAR. 31  
21081 AC.±

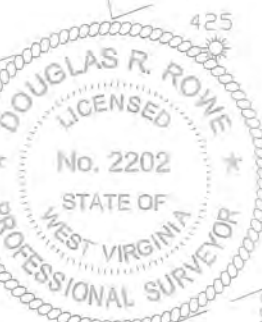
JOSEPH McCOLLY  
D.B. 332 PG. 440  
T.J.L. 11 PAR. 11.1  
6179 AC.±

WV NORTH ZONE  
GRID NORTH

3 WATER WELLS WERE  
LOCATED WITHIN 2000'  
OF CENTER OF PAD

WELL NO. 1H

1H BOTTOM  
HOLE



NOTES:  
WELL 1H TOP HOLE INFORMATION:  
N: 323,750ft E: 1,611,662ft  
LAT: 39°22'50.64" LON: 80°52'25.94"  
BOTTOM HOLE INFORMATION:  
N: 332,561ft E: 1,608,771ft  
LAT: 39°24'17.27" LON: 80°53'04.49"  
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: 4,359,045m E: 510,878m  
BOTTOM HOLE INFORMATION:  
N: 4,361,714m E: 509,952m

- NOTE
1. NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR LARGER USED TO HOUSE OR SHEDDER 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 # 16-033WA  
DRAWING # BOUNTY1HAD  
SCALE 1" = 1000'  
MINIMUM DEGREE OF ACCURACY SUBMETER  
PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

LEGEND  
--- Surface Owner Boundary Lines +/-  
--- Interior Surface Tracts +/-  
--- Proposed Well Path  
--- As Drilled Well Path

DOUGLAS R. ROWE P.S. 2202

DATE 08/29/2018

OPERATOR'S WELL# BOUNTYUNIT1H

API WELL # 47 - 095 - 02411

STATE COUNTY PERMIT

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 REGULATIONS 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

STATE OF WEST VIRGINIA DEPT. OF ENERGY DIVISION OF OIL AND GAS  
WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
(IF "GAS") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
LOCATION: ELEVATION 1,009' - AS DRILLED WATERSHED HEADWATERS MIDDLE ISLAND CREEK  
QUADRANGLE SHIRLEY 7.5' (TH) MIDDLEBOURNE 7.5' (BH) DISTRICT CENTERVILLE COUNTY TYLER

SURFACE OWNER GARY D. DAWSON ET UX ACREAGE 104.27 ACRES +/-

OIL & GAS ROYALTY OWNER GARY D. DAWSON ET UX; ROBERT C. DEAN; CARL ASH; LEASE ACREAGE 104.27 AC.±; 50.7 AC.±; 37 AC.±;  
KARLA R. SPENCER; DAVID E. BOWYER; WILMA J. HOWARD ET AL; CARL W. ASH 85.2 AC.±; 137.5 AC.±; 239 AC.±; 362.8 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 6,453' TVD 15,792' MD

WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER  
ADDRESS 1615 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD  
DENVER, CO 80202 CHARLESTON, WV 25313