

PROV
DATE: 11/10/17
State of West Virginia

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

API 47-017-06655 County Doddridge District Grant
Quad Smithburg 7.5' Pad Name Revival Pad Field/Pool Name -----
Farm name Larry Williams et al Well Number McCue 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 4352798m Easting 526714m
Landing Point of Curve Northing 4352667.368m Easting 526833.609m
Bottom Hole Northing 4350636m Easting 527496m

Elevation (ft) 1376' 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

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Date permit issued 01/26/2015 Date drilling commenced 10/15/2015 Date drilling ceased 12/15/2015
Date completion activities began 04/27/2017 Date completion activities ceased 06/06/2017
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 424', 437' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 1652', 1844' Void(s) encountered (Y/N) depths No
Coal depth(s) ft 1920', 2140' Cavern(s) encountered (Y/N) depths No
Is coal being mined in area (Y/N) No

Reviewed by:

11/10/2017

API 47-017 - 06655 Farm name Larry Williams et al Well number McCue Unit 1H

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade w/ft	Basket Depth(s)	Did cement circulate (Y/ N) * Provide details below*
Conductor	24"	20"	65'	New	94#, J-55	N/A	Y
Surface	17-1/2"	13-3/8"	563'	New	48#, H-40	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2522'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	14617'	New	20#, P-110	N/A	Y
Tubing		2-3/8"	7338'		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 ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	Class A	123 sx	15.6	1.18	145	0'	8 Hrs.
Surface	Class A	653 sx	15.6	1.18	771	0'	8 Hrs.
Coal							
Intermediate 1	Class A	917 sx	15.6	1.18	1082	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	1134 sx (Load) 1154 sx (Tail)	14.5 (Load), 15.2 (Tail)	1.33 (Load), 1.83 (Tail)	3620	-500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 14617' MD, 7210' TVD (BHL) & 7251' TVD (Deepest Point Drilled) Loggers TD (ft) 14569' MD
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 6501'

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

** This is a subsequent well. Antero only runs wireline logs on one well on a multi-well pad (Mt. Salem Revival Unit 1H API #47-017-06269). Please reference the wireline logs submitted with Form WR-35 for Mt. Salem Revival Unit 1H. A Cement Bond Log has been included with this submittal.

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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- 017 - 06655 Farm name Larry Williams et al Well number McCue Unit 1H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>Marcellus</u>	<u>7186' (TOP)</u> TVD	<u>7345' (TOP)</u> MD
_____	_____	_____
_____	_____	_____
_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 3550 psi Bottom Hole --- psi DURATION OF TEST --- hrs

OPEN FLOW Gas 11699 mcfpd Oil 2 bpd NGL --- bpd Water 797 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, H₂S, ETC)</u>
	<u>DEPTH IN FT NAME TVD</u>	<u>DEPTH IN FT TVD</u>	<u>DEPTH IN FT MD</u>	<u>DEPTH IN FT MD</u>	

***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 Clutch Energy Services LLC
Address 2154 Greensburg Rd City New Kensington State PA Zip 15068

Cementing Company Nabors Completion & Production Services, Co.
Address 1650 Hackers Creek City Jane Lew State WV Zip 26378

Stimulating Company CalFrac
Address 533 Industrial Park Drive City Jane Lew State WV Zip 26378

Please insert additional pages as applicable.

Completed by Samantha Klaas Telephone 303-357-6759
Signature *Samantha Klaas* Title Permitting Agent Date 09/27/2017

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

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EXHIBIT 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	4/27/2017	14499	14332	60	Marcellus
2	5/6/2017	14301	14133	60	Marcellus
3	5/7/2017	14102	13935	60	Marcellus
4	5/7/2017	13904	13737	60	Marcellus
5	5/8/2017	13706	13538	60	Marcellus
6	5/8/2017	13507	13340	60	Marcellus
7	5/9/2017	13309	13141	60	Marcellus
8	5/10/2017	13110	12943	60	Marcellus
9	5/10/2017	12912	12745	60	Marcellus
10	5/11/2017	12714	12546	60	Marcellus
11	5/11/2017	12515	12348	60	Marcellus
12	5/12/2017	12317	12150	60	Marcellus
13	5/12/2017	12119	11951	60	Marcellus
14	5/13/2017	11920	11753	60	Marcellus
15	5/14/2017	11722	11554	60	Marcellus
16	5/14/2017	11523	11356	60	Marcellus
17	5/15/2017	11325	11158	60	Marcellus
18	5/16/2017	11127	10959	60	Marcellus
19	5/18/2017	10928	10761	60	Marcellus
20	5/18/2017	10730	10563	60	Marcellus
21	5/19/2017	10532	10364	60	Marcellus
22	5/19/2017	10333	10166	60	Marcellus
23	5/20/2017	10135	9968	60	Marcellus
24	5/21/2017	9936	9769	60	Marcellus
25	5/22/2017	9738	9571	60	Marcellus
26	5/22/2017	9540	9372	60	Marcellus
27	5/23/2017	9341	9174	60	Marcellus
28	5/23/2017	9143	8976	60	Marcellus
29	5/24/2017	8945	8777	60	Marcellus
30	5/24/2017	8746	8579	60	Marcellus
31	5/25/2017	8548	8381	60	Marcellus
32	5/26/2017	8349	8182	60	Marcellus
33	5/26/2017	8151	7984	60	Marcellus
34	5/27/2017	7953	7785	60	Marcellus
35	5/27/2017	7754	7587	60	Marcellus
36	5/27/2017	7556	7389	60	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	5/5/2017	75.1	7688	5847	4904	506250	10183	N/A
2	5/6/2017	67.7	7594	6711	4780	506400	10289	N/A
3	5/7/2017	79.7	7932	7283	5359	506100	10038	N/A
4	5/7/2017	78.6	8008	7367	5782	505150	10037	N/A
5	5/8/2017	77.6	7702	6906	4796	508000	10078	N/A
6	5/8/2017	79.7	7698	6701	5432	507300	9970	N/A
7	5/9/2017	78.9	7890	7008	5600	506300	9994	N/A
8	5/10/2017	68.3	7440	6480	4217	506500	12086	N/A
9	5/10/2017	76.9	8081	7292	4599	506550	11271	N/A
10	5/11/2017	78.4	7697	7420	4485	506800	9994	N/A
11	5/11/2017	78.4	7692	6916	5502	505300	9884	N/A
12	5/12/2017	79.8	7477	6650	5627	509050	9946	N/A
13	5/12/2017	78.0	7486	6017	4596	506100	9919	N/A
14	5/13/2017	78.8	7669	6798	5916	505700	9969	N/A
15	5/14/2017	77.9	7310	6450	5952	505900	9882	N/A
16	5/14/2017	77.7	7453	6862	4800	506650	9957	N/A
17	5/15/2017	79.4	7299	6476	5633	505100	9933	N/A
18	5/16/2017	79.4	7365	5898	5675	507550	9928	N/A
19	5/18/2017	77.5	7710	7227	3469	506900	9955	N/A
20	5/18/2017	67.7	7634	6271	4973	505900	13085	N/A
21	5/19/2017	62.9	7787	6413	5324	506750	17282	N/A
22	5/19/2017	75.4	7024	5885	5435	505750	9794	N/A
23	5/20/2017	79.8	6726	6394	5524	506300	9901	N/A
24	5/21/2017	71.2	7312	6102	4225	506750	12435	N/A
25	5/22/2017	76.9	7109	6211	5705	505400	12259	N/A
26	5/22/2017	78.4	6546	6488	5104	506250	9754	N/A
27	5/23/2017	77.8	6986	6271	3766	506300	10061	N/A
28	5/23/2017	79.4	6760	6260	4228	505950	10227	N/A
29	5/24/2017	77.6	6928	6171	5071	507100	9904	N/A
30	5/24/2017	79.0	6411	6189	4965	505550	9739	N/A
31	5/25/2017	79.4	6803	5837	5421	506100	9762	N/A
32	5/26/2017	78.6	6538	5499	4949	505900	9803	N/A
33	5/26/2017	78.8	6445	6009	4520	506550	9777	N/A
34	5/27/2017	80.2	6584	5850	5428	505750	9786	N/A
35	5/27/2017	79.1	6661	6297	5255	505800	9711	N/A
36	5/27/2017	79.6	6672	6752	3413	502850	9685	N/A
AVG=		76.9	7,281	6,478	5,012	408100	376278	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
Fresh Water	424'	N/A	424'	N/A
Fresh Water	437'	N/A	437'	N/A
Shale	est. 13	350	est. 13	350
Siltstone/ Sandstone	est. 350	610	est. 350	610
Shale	est. 610	720	est. 610	720
Sandstone	est. 720	850	est. 720	850
Siltstone/ Shale	est. 850	930	est. 850	930
Shale	est. 930	1740	est. 930	1740
Sandstone	est. 1740	1800	est. 1740	1800
Shale	est. 1800	1920	est. 1800	1920
Sandstone/ Trace Coal	est. 1920	2000	est. 1920	2000
Sandstone	est. 2000	2140	est. 2000	2140
Sandstone/ Trace Coal	est. 2140	2160	est. 2140	2160
Shale/ Sandstone	est. 2160	2179	est. 2160	2181
Big Lime	2179	2668	2181	2671
Gantz	2668	2759	2671	2762
Fifty Foot Sandstone	2759	2937	2762	2939
Gordon	2937	3252	2939	3255
Fifth Sandstone	3252	3320	3255	3322
Bayard	3320	4043	3322	4045
Speechley	4043	4315	4045	4318
Balltown	4315	4833	4318	4836
Bradford	4833	5320	4836	5322
Benson	5320	5562	5322	5565
Alexander	5562	5762	5565	5765
Elk	5762	6354	5765	6357
Rhinestreet	6354	6701	6357	6712
Sycamore	6701	6929	6712	6970
Middlesex	6929	7079	6970	7160
Burkett	7079	7107	7160	7199
Tully	7107	7186	7199	7345
Marcellus	7186	NA	7345	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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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	5/5/2017
Job End Date:	5/27/2017
State:	West Virginia
County:	Doddridge
API Number:	47-017-06655-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	McCue 1H
Latitude:	39.32409700
Longitude:	-80.69025800
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7,250
Total Base Water Volume (gal):	16,126,870
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	100.00000	87.89685	
DWP-641	CWS	Friction Reducer					
				Listed Below			

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DWP-111	CWS	Gel Slurry					
				Listed Below			
Sand (Proppant)	CWS	Propping Agent					
				Listed Below			
Hydrochloric Acid	CWS	Clean Perforations					
				Listed Below			
DAP-103	CWS	Iron Control					
				Listed Below			
DAP-902	CWS	Scale Inhibitor					
				Listed Below			
SANIFRAC 8844	CWS	Biocide					
				Listed Below			
Calbreak 5501	CWS	Breaker					
				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	11.84503	
			Hydrochloric acid	7647-01-0	37.00000	0.04653	

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			Distillates (petroleum), hydrotreated middle	64742-46-7	60.00000	0.03988
			Guar gum	9000-30-0	60.00000	0.03988
			Polymer	26100-47-0	45.00000	0.03074
			Paraffinic hydrocarbon solvent	64742-47-8	30.00000	0.02049
			Calcite	471-34-1	1.00000	0.01874
			Illite	12173-60-3	1.00000	0.00801
			Ammonium chloride	12125-02-9	11.00000	0.00751
			Polyethylene glycol mixture	25322-68-3	54.50000	0.00629
			2-Propenoic acid, homopolymer, sodium salt	9003-04-7	40.00000	0.00600
			Goethite	1310-14-1	0.10000	0.00565
			Apatite	64476-38-6	0.10000	0.00386
			Biotite	1302-27-8	0.10000	0.00386
			Quaternary ammonium compounds, bis (hydrogenated tallow alkyl)dimethyl, salts with bentonite	68953-58-2	5.00000	0.00332
			Ilmenite	98072-94-7	0.10000	0.00297
			Sorbitan monooleate	1338-43-8	4.00000	0.00273
			2,2-Dibromo-3-Nitrilopropionamide	10222-01-2		0.00231
			Polyethylene glycol monooleate	9004-96-0	3.00000	0.00205
			1,2-Propanediol	57-55-6	10.00000	0.00150
			Sorbitol tetraoleate	61723-83-9	2.00000	0.00137
			Oxirane, 2-methyl-, polymer with oxirane, monodecyl ether	37251-67-5	1.50000	0.00100
			Ammonium Persulfate	7727-54-0		0.00091
			Amines, tallow alkyl, ethoxylated	61791-26-2	1.00000	0.00068
			Sodium bromide	7647-15-6	4.00000	0.00046

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			Citric acid	77-92-9	60.00000	0.00044	
			Dibromoacetonitrile	3252-43-5	3.00000	0.00035	
			Alcohols, C12-14, ethoxylated	84133-50-6	0.50000	0.00034	
			Vinylidene chloride- methyl acrylate copolymer	25038-72-6		0.00018	
			Acrylamide	79-06-1	0.10000	0.00007	

* 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(l) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

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LATITUDE 39°20'00"

6,673'

4,134' TO BOTTOM HOLE
LATITUDE 39°20'00"

LONGITUDE 80°40'00" 10,468' TO BOTTOM HOLE
LONGITUDE 80°40'00"

Antero Resources Corporation
Well No. McCue Unit 1H
47-017-06655 (AS DRILLED)

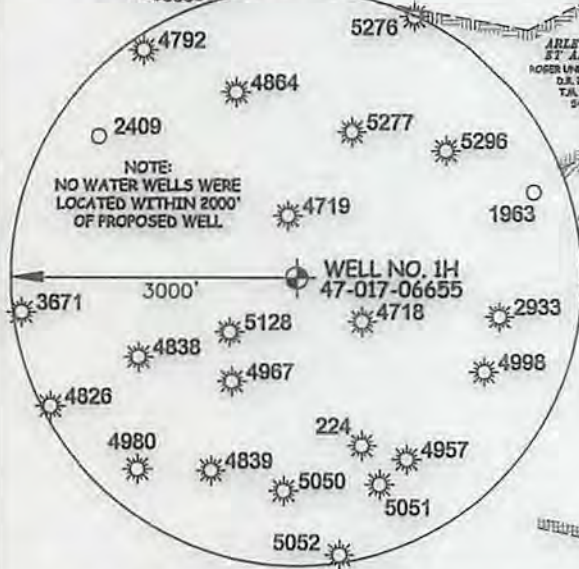
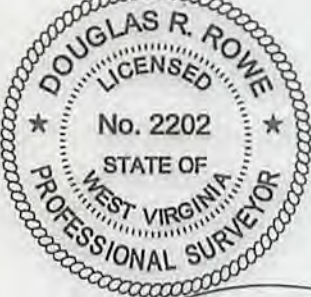
AS DRILLED DATA:
WELL 1H TOP HOLE INFORMATION:
N: 302,384ft E: 1,663,287ft
LAT: 39°19'26.75" LON: 80°41'24.91"
BOTTOM HOLE INFORMATION:
N: 295,246ft E: 1,665,734ft
LAT: 39°18'16.53" LON: 80°40'52.59"
WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE. ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE 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: 4,352,798m E: 526,714m
BOTTOM HOLE INFORMATION:
N: 4,350,636m E: 527,496m

11/10/2017

WV NORTH ZONE
GRID NORTH

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.



PAD LAYOUT
NOT TO SCALE

JOB # 13-078WA
DRAWING # MCCUEUNIT1HADR
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

WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL
(IF "GAS") PRODUCTION X STORAGE DEEP SHALLOW X
LOCATION: ELEVATION 1,378' AS-DRILLED WATERSHED HEADWATERS OF MIDDLE ISLAND CREEK

QUADRANGLE SMITHBURG 7.5 DISTRICT GRANT COUNTY DODDRIDGE

SURFACE OWNER LARRY WILLIAMS ET AL ACREAGE 25.49 ACRES +/-
OIL & GAS ROYALTY OWNER LARRY G. WILLIAMS; MT. SALEM REVIVAL GROUNDS INC.; LOIS MCCARDLE BERRINGER; LEASE ACREAGE 35.11 ACRES +/-; 83 ACRES +/-; 67.5 ACRES +/-
JAMES P. JONES, JR.; CLARENCE MUTSCHELKNAUS; DEPI; DOMINION TRANSMISSION INC. 141 AC +/-; 57 AC +/-; 51 AC +/-; 46 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 7,210' TVD 14,817' MD

WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER
ADDRESS 1615 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD
FORM WW-6 DENVER, CO 80202 CHARLESTON, WV 25313

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.



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 +/-
Found monument, as noted
Proposed Well Path
As Drilled Well Path

DOUGLAS R. ROWE P.S. 2202
DATE 09/06/17

OPERATOR'S WELL # MCCUE UNIT #1H
API WELL # 47 - 017 - 06655

STATE COUNTY PERMIT

DIANNA STAMPER
CT CORPORATION SYSTEM

5400 D BIG TYLER ROAD
CHARLESTON, WV 25313

COUNTY NAME PERMIT

