

APPROVED

NAME: J. Williams Page 1 of 1DATE: 11/1/17WR-35
Rev. 8/23/13State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Well Operator's Report of Well WorkAPI 47-017-06656 County Doddrige District Grant
Quad Smithburg 7.5' Pad Name Revival Pad Field/Pool Name -----
Farm name Larry Williams et al Well Number McCue Unit 2H
Operator (as registered with the OOG) Antero Resources Corporation
Address 1615 Wynkoop Street City Denver State CO Zip 80202As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4352795m Easting 526715m
Landing Point of Curve Northing 4352762.227m Easting 527000.246m
Bottom Hole Northing 4350676m Easting 527695mElevation (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 RotaryDrilling 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 - PolymerDate permit issued 01/26/2015 Date drilling commenced 10/15/2015 Date drilling ceased 12/26/2015
Date completion activities began 04/26/2017 Date completion activities ceased 06/10/2017
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

RECEIVED
Office of Oil and Gas
SEP 29 2017
WV Department of
Environmental Protection

API 47-017 - 06656 Farm name Larry Williams et al Well number McCue Unit 2H

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"	40'	New	94#, J-55	N/A	Y
Surface	17-1/2"	13-3/8"	593'	New	48#, H-40	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2557'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	15034'	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	682 sx	15.6	1.18	805	0'	8 Hrs.
Coal							
Intermediate 1	Class A	940 sx	15.6	1.18	1109	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	1139 sx (Lead) 1187 sx (Tail)	14.5 (Lead), 15.2 (Tail)	1.33 (Lead), 1.83 (Tail)	3687	-500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 15034' MD, 7211' TVD (BHL) & 7262' TVD (Deepest Point Drilled) Loggers TD (ft) 14985' MD
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 6973'

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

** 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.

RECEIVED
Office of Oil and Gas
SEP 29 2017

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- 017 - 06656 Farm name Larry Williams et al Well number McCue Unit 2H

PRODUCING FORMATION(S)	DEPTHS		
<u>Marcellus</u>	<u>7193' (TOP)</u>	<u>TVD</u>	<u>7508' (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 11325 mcfpd Oil 2 bpd NGL --- bpd Water 747 bpd GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP		BOTTOM		DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ 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 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  Title Permitting Agent Date 09/27/2017

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

RECEIVED
Office of Oil and Gas
SEP 29 2017
WV Department of
Environmental Protection

EXHIBIT 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	4/26/2017	14919	14750	60	Marcellus
2	5/4/2017	14719	14550	60	Marcellus
3	5/5/2017	14519	14350	60	Marcellus
4	5/5/2017	14319	14151	60	Marcellus
5	5/6/2017	14119	13951	60	Marcellus
6	5/7/2017	13919	13751	60	Marcellus
7	5/7/2017	13719	13551	60	Marcellus
8	5/8/2017	13519	13351	60	Marcellus
9	5/9/2017	13319	13151	60	Marcellus
10	5/9/2017	13119	12951	60	Marcellus
11	5/10/2017	12919	12751	60	Marcellus
12	5/10/2017	12719	12551	60	Marcellus
13	5/11/2017	12520	12351	60	Marcellus
14	5/11/2017	12320	12151	60	Marcellus
15	5/12/2017	12120	11951	60	Marcellus
16	5/13/2017	11920	11751	60	Marcellus
17	5/13/2017	11720	11551	60	Marcellus
18	5/14/2017	11520	11351	60	Marcellus
19	5/15/2017	11320	11151	60	Marcellus
20	5/15/2017	11120	10951	60	Marcellus
21	5/16/2017	10920	10751	60	Marcellus
22	5/17/2017	10720	10551	60	Marcellus
23	5/18/2017	10520	10351	60	Marcellus
24	5/19/2017	10320	10151	60	Marcellus
25	5/19/2017	10120	9951	60	Marcellus
26	5/20/2017	9920	9752	60	Marcellus
27	5/20/2017	9720	9552	60	Marcellus
28	5/21/2017	9520	9352	60	Marcellus
29	5/22/2017	9320	9152	60	Marcellus
30	5/22/2017	9120	8952	60	Marcellus
31	5/23/2017	8920	8752	60	Marcellus
32	5/23/2017	8720	8552	60	Marcellus
33	5/24/2017	8520	8352	60	Marcellus
34	5/25/2017	8320	8152	60	Marcellus
35	5/25/2017	8121	7952	60	Marcellus
36	5/26/2017	7921	7752	60	Marcellus
37	5/26/2017	7721	7552	60	Marcellus

RECEIVED
Office of Oil and Gas
SEP 29 2017
WV Department of
Environmental Protection

11/10/2017

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	5/4/2017	70.9	7010	5789	5425	509200	10217	N/A
2	5/4/2017	77.4	7595	6063	5533	510300	10183	N/A
3	5/5/2017	79.6	7712	5649	5248	509250	10144	N/A
4	5/5/2017	78.8	7550	5465	5767	509450	10108	N/A
5	5/6/2017	77.5	7667	5461	5348	509250	10178	N/A
6	5/7/2017	79.8	7718	5794	5477	510750	10022	N/A
7	5/7/2017	78.5	7653	5792	5552	509450	11461	N/A
8	5/8/2017	79.4	7577	5837	5605	508230	10106	N/A
9	5/9/2017	79.0	7937	6149	5550	508950	9950	N/A
10	5/9/2017	78.6	7918	5888	5561	510700	11373	N/A
11	5/10/2017	79.4	7686	6128	5371	508900	9973	N/A
12	5/10/2017	76.6	7614	6046	5504	508800	10084	N/A
13	5/11/2017	80.3	7553	6073	4364	508300	10077	N/A
14	5/11/2017	76.5	7447	6119	6007	509300	9922	N/A
15	5/12/2017	79.4	7465	5736	5645	507700	9947	N/A
16	5/13/2017	72.5	7752	5721	5620	505770	13441	N/A
17	5/13/2017	77.2	7257	5582	5414	508400	10046	N/A
18	5/14/2017	77.2	7364	5617	5025	508950	9971	N/A
19	5/15/2017	79.2	7416	5747	5609	508500	9968	N/A
20	5/15/2017	79.1	7602	5931	5848	508400	11504	N/A
21	5/16/2017	77.8	7772	5996	5650	503300	11571	N/A
22	5/17/2017	78.9	7416	5818	5053	508160	9980	N/A
23	5/18/2017	79.5	7372	6668	5705	509150	10066	N/A
24	5/19/2017	77.6	6946	5612	4847	508650	9877	N/A
25	5/19/2017	80.1	7216	6084	5613	509700	9821	N/A
26	5/20/2017	80.1	7164	5694	5801	508250	9956	N/A
27	5/20/2017	67.9	6957	5269	5176	508250	11906	N/A
28	5/21/2017	76.3	7132	5594	5469	508200	15161	N/A
29	5/22/2017	70.9	6318	5682	5385	508800	10852	N/A
30	5/22/2017	76.6	6344	5487	5233	508400	9871	N/A
31	5/23/2017	78.3	7024	5750	5230	508600	11752	N/A
32	5/23/2017	70.5	7969	5611	4898	508750	12000	N/A
33	5/24/2017	78.3	6726	5794	5244	508550	9816	N/A
34	5/25/2017	78.7	6708	5469	5424	508450	9880	N/A
35	5/25/2017	80.2	6763	5559	4398	508200	10900	N/A
36	5/26/2017	79.5	6393	5877	5349	509300	9801	N/A
37	5/26/2017	79.2	6377	5589	4925	508150	9855	N/A
AVG=		77.5	7300	5788	5375	408100	391740	TOTAL

RECEIVED
Office of Oil and Gas

SEP 29 2017

WV Department of
Environmental Protection

11/10/2017

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	2178	est. 2160	2181
Big Lime	2178	2668	2181	2671
Gantz	2668	2763	2671	2766
Fifty Foot Sandstone	2763	2933	2766	2936
Gordon	2933	3256	2936	3259
Fifth Sandstone	3256	3319	3259	3322
Bayard	3319	4090	3322	4093
Speechley	4090	4333	4093	4336
Balltown	4333	4796	4336	4799
Bradford	4796	5324	4799	5328
Benson	5324	5576	5328	5585
Alexander	5576	5766	5585	5786
Elk	5766	6370	5786	6450
Rhinestreet	6370	6707	6450	6833
Sycamore	6707	6936	6833	7091
Middlesex	6936	7084	7091	7281
Burkett	7084	7112	7281	7328
Tully	7112	7193	7328	7508
Marcellus	7193	NA	7508	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.

RECEIVED
Office of Oil and Gas
SEP 29 2017
WV Department of
Environmental Protection

11/10/2017

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	5/4/2017
Job End Date:	5/26/2017
State:	West Virginia
County:	Doddridge
API Number:	47-017-06656-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	McCue 2H
Latitude:	39.32406900
Longitude:	-80.69024700
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7,262
Total Base Water Volume (gal):	17,094,341
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	88.16176	
DWP-641	CWS	Friction Reducer					
				Listed Below			

RECEIVED
 Office of Oil and Gas
 SEP 29 2017
 WV Department of
 Environmental Protection

Hydrochloric Acid	CWS	Clean Perforations					
				Listed Below			
Sand (Proppant)	CWS	Propping Agent					
				Listed Below			
SANIFRAC 8844	CWS	Biocide					
				Listed Below			
Calbreak 5501	CWS	Breaker					
				Listed Below			
DWP-111	CWS	Gel Slurry					
				Listed Below			
DAP-902	CWS	Scale Inhibitor					
				Listed Below			
DAP-103	CWS	Iron Control					
				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	11.57491	
		Hydrochloric acid	7647-01-0	37.00000	0.04505	

RECEIVED
 Dept of Oil and Gas
 Environmental Protection
 SEP 29 2017

			Distillates (petroleum), hydrotreated middle	64742-46-7	60.00000	0.04339
			Guar gum	9000-30-0	60.00000	0.04339
			Polymer	26100-47-0	45.00000	0.03088
			Paraffinic hydrocarbon solvent	64742-47-8	30.00000	0.02059
			Calcite	471-34-1	1.00000	0.01831
			Illite	12173-60-3	1.00000	0.00783
			Ammonium chloride	12125-02-9	11.00000	0.00755
			Polyethylene glycol mixture	25322-68-3	54.50000	0.00616
			2-Propenoic acid, homopolymer, sodium salt	9003-04-7	40.00000	0.00599
			Goethite	1310-14-1	0.10000	0.00552
			Biotite	1302-27-8	0.10000	0.00377
			Apatite	64476-38-6	0.10000	0.00377
			Quaternary ammonium compounds, bis (hydrogenated tallow alkyl)dimethyl, salts with bentonite	68953-58-2	5.00000	0.00362
			Ilmenite	98072-94-7	0.10000	0.00290
			Sorbitan monooleate	1338-43-8	4.00000	0.00274
			2,2-Dibromo-3-Nitrilopropionamide	10222-01-2		0.00226
			Polyethylene glycol monooleate	9004-96-0	3.00000	0.00206
			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	0.00108
			Ammonium Persulfate	7727-54-0		0.00107
			Amines, tallow alkyl, ethoxylated	61791-26-2	1.00000	0.00069
			Sodium bromide	7647-15-6	4.00000	0.00045

RECEIVED
 Office of Oil and Gas
 SEP 29 2017
 WV Department of Environmental Protection

			Citric acid	77-92-9	60.00000	0.00042	
			Alcohols, C12-14, ethoxylated	84133-50-6	0.50000	0.00034	
			Dibromoacetonitrile	3252-43-5	3.00000	0.00034	
			Vinylidene chloride-methyl acrylate copolymer	25038-72-6		0.00021	
			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(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

RECEIVED
Office of Oil and Gas
SEP 29 2017
WV Department of
Environmental Protection

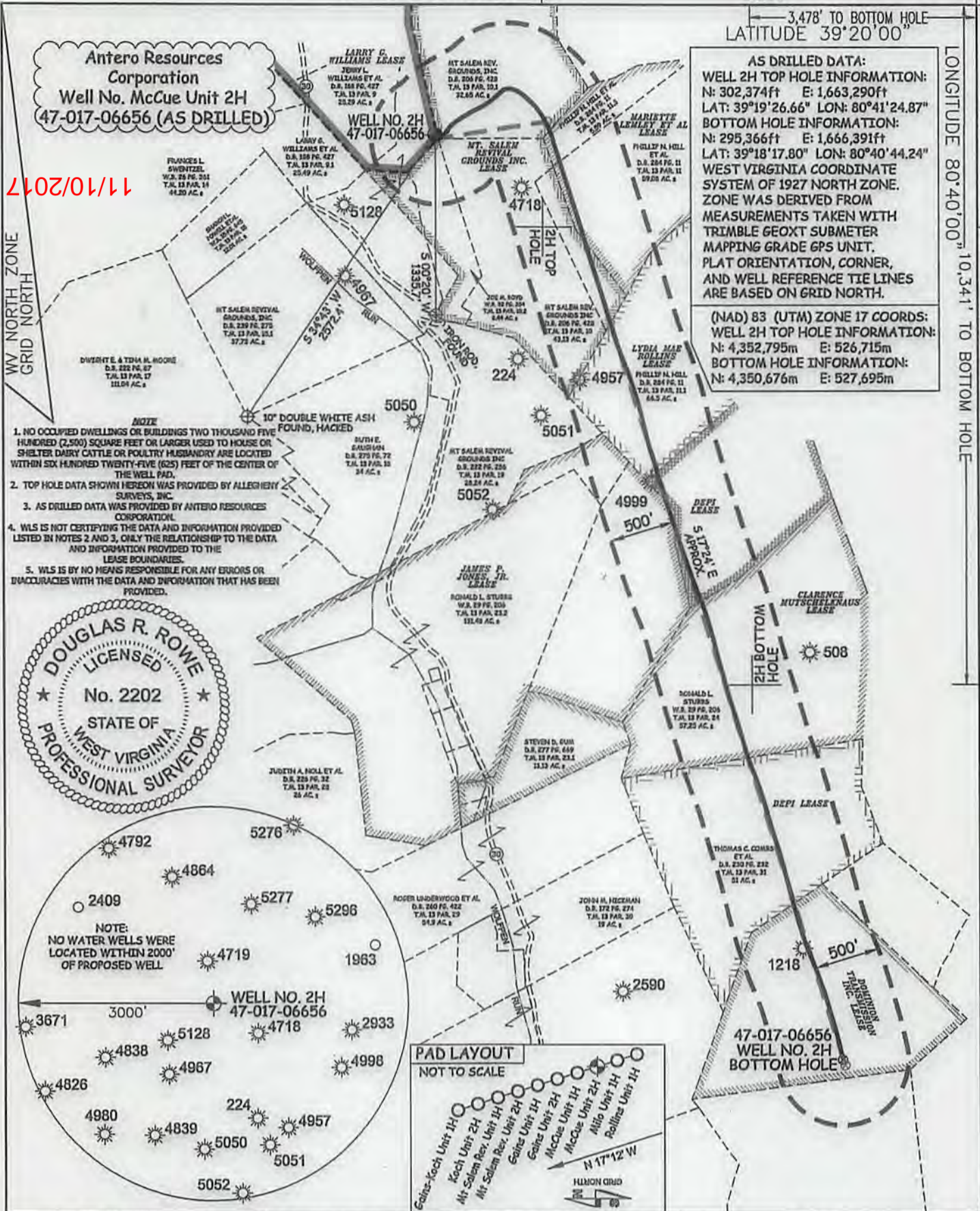
LATITUDE 39°20'00"

6,669'

3,478' TO BOTTOM HOLE
LATITUDE 39°20'00"

LONGITUDE 80°40'00" 10,341' TO BOTTOM HOLE

LONGITUDE 80°40'00"



JOB # 13-078WA
DRAWING # MCCUEUNIT2HFRAC
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
QUADRANGLE SMITHBURG 7.5

SURFACE OWNER LARRY WILLIAMS ET AL ACREAGE 25.49 ACRES +/-

OIL & GAS ROYALTY OWNER LARRY G. WILLIAMS; MT. SALEM REVIVAL GROUNDS INC.; MARIETTE LEMLEY ET AL; LEASE ACREAGE 35.11 ACRES +/-; 83 ACRES +/-; 66.87 ACRES +/-
LYDIA MAE ROLLINS; DEPI; JAMES P. JONES, JR.; CLARENCE MUTSCHELIGNAUS; DEPI; DOMINION TRANSMISSION INC. 86 AC +/-; 36 AC +/-; 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
TARGET FORMATION MARCELLUS ESTIMATED DEPTH 7,211' TVD 15,034' 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 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 +/-
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 #2H
API WELL # 47 - 017 - 06656

STATE COUNTY PERMIT
MIDDLE ISLAND CREEK

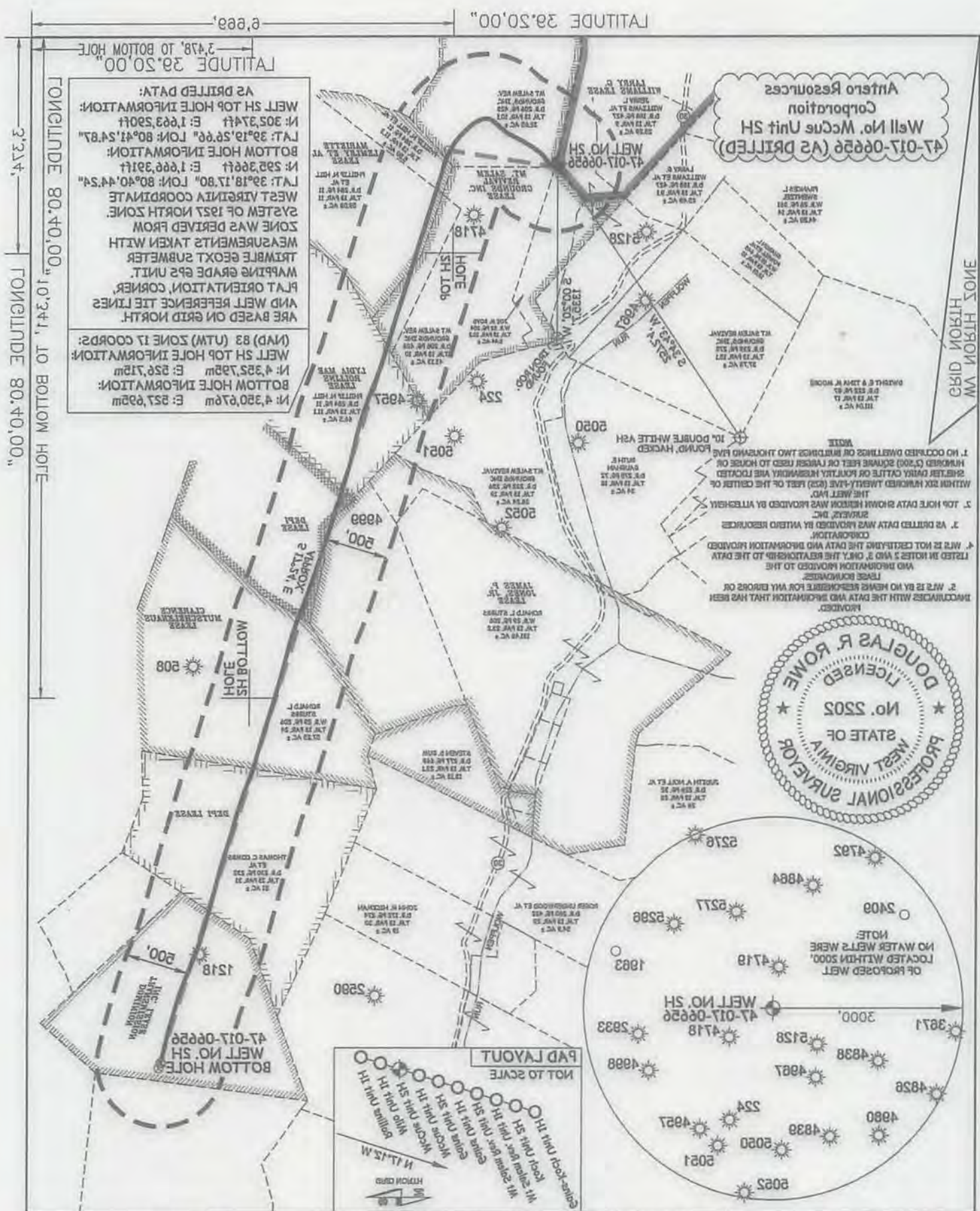
DISTRICT GRANT COUNTY DODDRIDGE

PERMIT

PERMIT

PERMIT

PERMIT

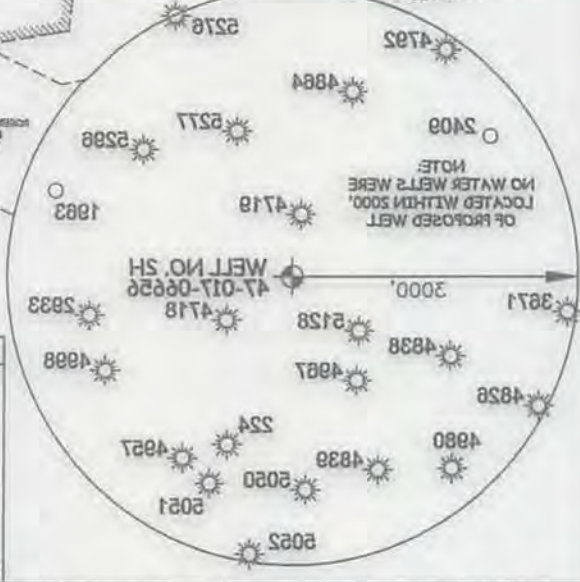
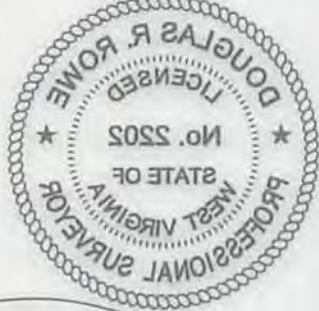


AS DRILLED DATA:
 WELL SH TOP HOLE INFORMATION:
 N: 302.3744 E: 1.663.2901
 LAT: 39°19'26.66" LON: 80°41'24.87"
 BOTTOM HOLE INFORMATION:
 N: 252.3664 E: 1.666.3917
 LAT: 39°18'17.80" LON: 80°40'44.24"
 WEST TREASURY COORDINATE
 SYSTEM OF 1927 NORTH ZONE
 ZONE WAS DERIVED FROM
 MEASUREMENTS TAKEN WITH
 TRIMBLE 660XT SUBMETER
 MAPPING GRADE EPS UNIT.
 PLAT ORIENTATION, CORNER
 AND WELL REFERENCE TIE LINES
 ARE BASED ON GRID NORTH.

(MAD) 83 (UTM) ZONE 17 COORDS:
 WELL SH TOP HOLE INFORMATION:
 N: 4325.732m E: 326.715m
 BOTTOM HOLE INFORMATION:
 N: 4320.676m E: 327.692m

LONGITUDE 80.40.00" TO BOTTOM HOLE
 3.234"
 LONGITUDE 80.40.00"
 LATITUDE 39.20.00" TO BOTTOM HOLE
 3.478"

1. NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2500) SQUARE FEET OR LARGER USED TO HOUSE OR STORE DAILY CATTLE OR HORSE OR OTHER ANIMALS LOCATED WITHIN 200 HUNDRED TWENTY-FIVE (225) 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. THIS IS NOT CERTIFYING THE DATA AND INFORMATION PROVIDED LISTED IN NOTES 2 AND 3, ONLY THE REASONING TO THE DATA AND INFORMATION PROVIDED TO THE LARGE KNOWLEDGE.
 5. THIS IS BY NO MEANS RESPONSIBLE FOR ANY ERRORS OR INCONGRUITIES WITH THE DATA AND INFORMATION THAT HAS BEEN PROVIDED.



PAD LAYOUT
 NOT TO SCALE
 1/4" = 100'
 1/8" = 50'
 1/16" = 25'
 1/32" = 12.5'
 1/64" = 6.25'
 1/128" = 3.125'
 1/256" = 1.5625'

PERMIT CHARLESTON, WV 25313 5400 D BIG TYLER ROAD CT CORPORATION SYSTEM DIANNA STAMPER ESTIMATED DEPTH 7214, TVD 15034, MD PLUG & ABANDON ___ CLEAN OUT & REPLUG ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL ___ CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ LARRY WILLIAMS ET AL LEASE ACREAGE: 26.11 ACRES ± 63 ACRES ± 60.87 ACRES ± ACREAGE 25.40 ACRES ± DISTRICT GRANT COUNTY DODDRIDGE WATERSHED HEADWATERS OF MIDDLE ISLAND CREEK STATE COUNTY PERMIT OPERATOR'S WELL # MCQUE UNIT #38 DATE 08/08/17 DOUGLAS R. ROWE P.2. 2505	STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS PROVEN SOURCE OF ELEV. ACCURACY SUBMETER MINIMUM DEGREE OF SCALE 1" = 100' DRAWING # MCCEM17H3FAC JOB # 13-078WV
WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ (IF "GAS") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X LOCATION: ELEVATION 1378, AS-DRILLED WATERSHED HEADWATERS OF MIDDLE ISLAND CREEK STATE COUNTY PERMIT OPERATOR'S WELL # MCQUE UNIT #38 DATE 08/08/17 DOUGLAS R. ROWE P.2. 2505	TARGET FORMATION MARCELLUS WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT ADDRESS 1615 WYNYKOOP STREET DENVER, CO 80205 FORM WV-6