

APPROVED

Page ___ of ___

WR-35
Rev. 8/23/13NAME: JulianDATE: 11/1/17State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Well Operator's Report of Well WorkAPI 47-017-06641 County Doddridge District Central
Quad West Union 7.5' Pad Name Dotson-Holland Pad Field/Pool Name -----
Farm name Robert L. Holland Jr. Well Number Murphy Unit 1H
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 4347114m Easting 510973m
Landing Point of Curve Northing 4347178.005m Easting 510786.857m
Bottom Hole Northing 4349596m Easting 509998mElevation (ft) 989' 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 01/15/2015 Date drilling commenced 11/18/2015 Date drilling ceased 03/05/2016
Date completion activities began 01/25/2017 Date completion activities ceased 04/22/2017
Verbal plugging (Y/N) N/A Date permission granted N/A Granted by N/A
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SEP 21 2017Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug
WV Department of Environmental ProtectionFreshwater depth(s) ft 56' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 1527' Void(s) encountered (Y/N) depths No
Coal depth(s) ft 381', 941', 1701' Cavern(s) encountered (Y/N) depths No
Is coal being mined in area (Y/N) NoReviewed by:
11/10/2017

API 47-017 - 06641 Farm name Robert L. Holland Jr. Well number Murphy 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	30"	20"	59'	New	94#, K-55	N/A	Y
Surface	17-1/2"	13-3/8"	416'	New	48#, H-40	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2528'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	15206'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	6539'		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	400 sx	15.6	1.19	476	0'	8 Hrs.
Surface	Class A	484 sx	15.6	1.18	571	0'	8 Hrs.
Coal							
Intermediate 1	Class A	984 sx	15.6	1.18	1161	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	864 sx (Lead) 1368 sx (Tail)	13.5 (Lead), 15.2 (Tail)	1.44 (Lead), 1.84 (Tail)	3761	-500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 15209' MD, 6400' TVD (BHL); 6426' TVD (Deepest Point Drilled) Loggers TD (ft) 15160' MD
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 6038'

** This is a subsequent well. Antero only runs wireline logs on one well on a multi-well pad (Amanda Unit 1H API #47-017-06432). Please reference the wireline logs submitted with Form WR-35 for Amanda Unit 1H. A Cement Bond Log has been included with this submittal.

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

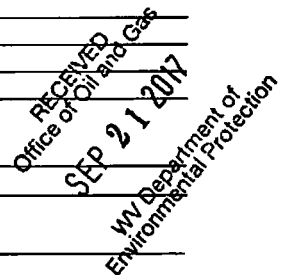
DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING _____

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- 017 - 06641 Farm name Robert L. Holland Jr. Well number Murphy Unit 1H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>Marcellus</u>	<u>6386' (TOP)</u> TVD	<u>6636' (TOP)</u> MD
_____	_____	_____
_____	_____	_____
_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 3600 psi Bottom Hole --- psi DURATION OF TEST --- hrs

OPEN FLOW Gas 3908 mcfpd Oil --- bpd NGL --- bpd Water 393 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 ₂ S, ETC)
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***PLEASE SEE ATTACHED EXHIBIT 3**

Please insert additional pages as applicable.

Drilling Contractor Precision Drilling Company, LP
Address 2640 Reach Road City Williamsport State PA Zip 17701

Logging Company Allied Horizontal Wireline Services
Address 380 Bedford Rd. City North Huntingdon State PA Zip 15642

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

Stimulating Company US Well Services
Address 533 Industrial Park Dr. City Jane Lew State WV Zip 26378

Please insert additional pages as applicable.

Completed by Samantha Klaas Telephone 303-357-6759
Signature [Signature] Title Permitting Agent Date 09/20/2017

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	1/25/2017	14909	15079	60	Marcellus
2	2/13/2017	14708	14878	60	Marcellus
3	2/13/2017	14507	14677	60	Marcellus
4	2/13/2017	14307	14476	60	Marcellus
5	2/14/2017	14106	14275	60	Marcellus
6	2/14/2017	13905	14074	60	Marcellus
7	2/14/2017	13704	13874	60	Marcellus
8	2/14/2017	13503	13673	60	Marcellus
9	2/15/2017	13302	13472	60	Marcellus
10	2/15/2017	13102	13271	60	Marcellus
11	2/15/2017	12901	13070	60	Marcellus
12	2/15/2017	12700	12869	60	Marcellus
13	2/15/2017	12499	12669	60	Marcellus
14	2/16/2017	12298	12468	60	Marcellus
15	2/16/2017	12097	12267	60	Marcellus
16	2/16/2017	11897	12066	60	Marcellus
17	2/16/2017	11696	11865	60	Marcellus
18	2/17/2017	11495	11664	60	Marcellus
19	2/17/2017	11294	11464	60	Marcellus
20	2/17/2017	11093	11263	60	Marcellus
21	2/17/2017	10892	11062	60	Marcellus
22	2/18/2017	10692	10861	60	Marcellus
23	2/18/2017	10491	10660	60	Marcellus
24	2/18/2017	10290	10459	60	Marcellus
25	2/18/2017	10089	10259	60	Marcellus
26	2/18/2017	9888	10058	60	Marcellus
27	2/19/2017	9687	9857	60	Marcellus
28	2/19/2017	9487	9656	60	Marcellus
29	2/19/2017	9286	9455	60	Marcellus
30	2/19/2017	9085	9254	60	Marcellus
31	2/19/2017	8884	9054	60	Marcellus
32	2/20/2017	8683	8853	60	Marcellus
33	2/20/2017	8482	8652	60	Marcellus
34	2/20/2017	8282	8451	60	Marcellus
35	2/20/2017	8081	8250	60	Marcellus
36	2/20/2017	7880	8049	60	Marcellus
37	2/21/2017	7679	7849	60	Marcellus
38	2/21/2017	7478	7648	60	Marcellus
39	2/21/2017	7277	7447	60	Marcellus
40	2/21/2017	7077	7246	60	Marcellus
41	2/21/2017	6876	7045	60	Marcellus
42	2/21/2017	6675	6844	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	2/12/2017	73.0	7701	5224	4628	355850	9126	N/A
2	2/13/2017	74.8	7377	5518	4524	357000	7907	N/A
3	2/13/2017	75.2	7543	5543	4606	356300	7859	N/A
4	2/13/2017	73.7	7582	5571	4817	355595	7949	N/A
5	2/14/2017	75.6	7699	5809	4708	354975	7812	N/A
6	2/14/2017	75.0	7512	5257	4914	355500	7797	N/A
7	2/14/2017	76.3	7571	5279	4796	356700	7873	N/A
8	2/14/2017	78.9	7639	5361	4749	354500	7791	N/A
9	2/15/2017	79.4	7634	5493	4578	355825	7779	N/A
10	2/15/2017	76.0	7567	5426	4764	357100	8915	N/A
11	2/15/2017	77.6	7379	5107	4520	357100	7765	N/A
12	2/15/2017	79.7	7634	5153	4589	354150	7744	N/A
13	2/15/2017	78.2	7126	5211	4527	354545	7744	N/A
14	2/16/2017	79.7	7124	5093	5114	356900	7766	N/A
15	2/16/2017	81.7	7252	5060	5418	355500	7626	N/A
16	2/16/2017	81.6	7167	5229	4877	354080	7606	N/A
17	2/16/2017	82.8	7206	5011	4896	355940	7602	N/A
18	2/17/2017	84.3	7297	5304	4623	355500	7592	N/A
19	2/17/2017	81.2	7442	5790	4216	343300	8547	N/A
20	2/17/2017	79.5	7301	5311	5304	351400	7909	N/A
21	2/17/2017	80.4	7248	5389	4822	356715	7564	N/A
22	2/18/2017	81.4	7225	5447	4832	355285	7659	N/A
23	2/18/2017	79.5	7504	6009	5829	357900	8850	N/A
24	2/18/2017	79.1	7100	5200	5307	355500	7675	N/A
25	2/18/2017	79.7	7108	5745	5146	354070	7676	N/A
26	2/18/2017	79.5	7497	5731	4961	354295	7522	N/A
27	2/19/2017	80.0	7586	6216	5207	355365	7516	N/A
28	2/19/2017	80.1	7442	5761	5529	355000	7545	N/A
29	2/19/2017	79.1	7463	6069	5311	356000	7498	N/A
30	2/19/2017	79.6	7441	5908	5597	359400	7528	N/A
31	2/19/2017	79.4	7402	5736	5114	354300	7482	N/A
32	2/20/2017	79.4	7344	6057	5168	355290	7476	N/A
33	2/20/2017	79.8	7185	5850	5257	357300	7496	N/A
34	2/20/2017	79.6	6964	5583	5283	355500	7472	N/A
35	2/20/2017	79.5	6937	5529	5157	356900	7454	N/A
36	2/20/2017	79.8	6894	6007	4839	353140	7440	N/A
37	2/21/2017	80.4	7005	5673	4751	355150	7430	N/A
38	2/21/2017	79.4	6987	5915	4985	356515	7449	N/A
39	2/21/2017	79.6	6938	6144	5161	356200	7442	N/A
40	2/21/2017	79.6	6607	6112	5862	356400	7428	N/A
41	2/21/2017	80.2	6669	5811	4964	354820	7398	N/A
42	2/21/2017	80.0	6594	6047	4603	355075	7388	N/A
AVG=		79.0	7,283	5,588	4,973	14,923,880	325,097	

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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	56'	N/A	56'	N/A
Shale/ Siltstone	0	221	0	221
Sandstone	est. 221	241	est. 221	241
Shale/ Siltstone	est. 241	381	est. 241	381
Coal	est. 381	401	est. 381	401
Siltstone	est. 401	441	est. 401	441
Shale/ Limestone	est. 441	561	est. 441	561
Sandstone/ Siltstone	est. 561	621	est. 561	621
Shale/ Siltstone	est. 621	761	est. 621	761
Limestone	est. 761	941	est. 761	941
Siltstone / Trace Coal/ Shale	est. 941	1381	est. 941	1381
Sandstone	est. 1381	1401	est. 1381	1401
Shale/ Siltstone/ Trace Coal	est. 1401	1621	est. 1401	1621
Sandstone/ Siltstone	est. 1621	1701	est. 1621	1701
Shale/ Siltstone/ Trace Coal	est. 1701	1741	est. 1701	1741
Shale/ Siltstone	est. 1741	1929	est. 1741	1931
Big Lime	1929	2374	1931	2375
Gantz	2374	2557	2375	2559
Fifty Foot Sandstone	2557	2661	2559	2663
Gordon	2661	2836	2663	2838
Fifth Sandstone	2836	2985	2838	2987
Bayard	2985	3308	2987	3310
Speechley	3308	4013	3310	4014
Baltown	4013	4486	4014	4488
Bradford	4486	4716	4488	4718
Benson	4716	5140	4718	5143
Alexander	5140	5295	5143	5300
Elk	5295	5841	5300	5874
Rhinestreet	5841	6063	5874	6114
Sycamore	6063	6217	6114	6300
Middlesex	6217	6326	6300	6475
Burkett	6326	6358	6475	6546
Tully	6358	6386	6546	6636
Marcellus	6386	NA	6636	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:	2/12/2017
Job End Date:	2/21/2017
State:	West Virginia
County:	Doddridge
API Number:	47-017-06641-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Murphy 1H
Latitude:	39.27322222
Longitude:	-80.87295556
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,424
Total Base Water Volume (gal):	14,107,374
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	88.51233	
Sand	U.S. Well Services, LLC	Proppant	Crystalline Silica, quartz	14808-60-7	100.00000	11.22725	
HCL Acid (12.6%-17.5%)	U.S. Well Services, LLC	Bulk Acid	Water	7732-18-5	87.40000	0.13969	
			Hydrogen Chloride	7647-01-0	17.50000	0.03248	
LGC-15	U.S. Well Services, LLC	Gelling Agents	Guar Gum	9000-30-0	50.00000	0.02290	
			Petroleum Distillates	64742-47-8	60.00000	0.02169	
			Suspending agent (solid)	14808-60-7	3.00000	0.00350	
			Surfactant	68439-51-0	3.00000	0.00137	
WFRA-500	U.S. Well Services, LLC	Friction Reducer	2-Propenoic acid, polymer with 2-propenamide	9003-06-9	30.00000	0.01595	
			Hydrated light distillate (petroleum)	64742-47-8	30.00000	0.01284	

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Bioclear 2000	U.S. Well Services, LLC	Anti-Bacterial Agent					
			2,2-dibromo-3-nitrilopropionamide	10222-01-2	20.00000	0.00386	
			Deionized Water	7732-18-5	28.00000	0.00220	
SI-1100s	U.S. Well Services, LLC	Scale Inhibitor					
			Copolymer of Maleic and Acrylic acid	52255-49-9	10.00000	0.00147	
			Potassium salt of diethylene triamine penta (methylene phosphonic acid)	15827-60-8	3.00000	0.00050	
			Phosphino carboxylic acid polymer	71050-62-9	3.00000	0.00048	
			Hexamethylene triamine penta (methylene phosphonic acid)	34690-00-1	3.00000	0.00048	
AP One	U.S. Well Services, LLC	Gel Breakers					
			Ammonium Persulfate	7727-54-0	100.00000	0.00088	
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)

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LATITUDE 39°17'30"

11,217'

2,611' TO BOTTOM HOLE

LATITUDE 39°20'00"

LONGITUDE 80°52'30"

6,718'

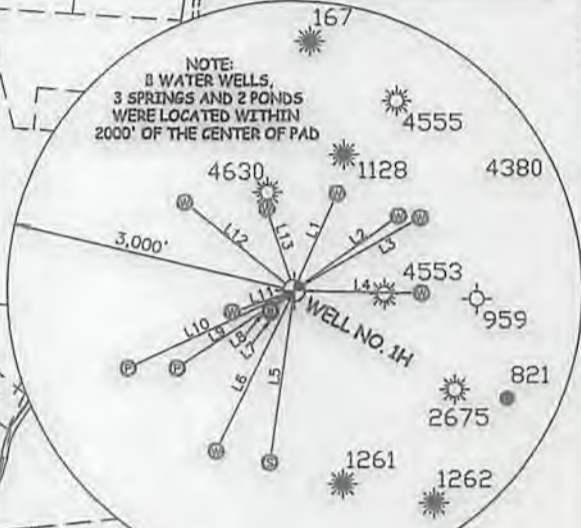
13,745' TO BOTTOM HOLE

LONGITUDE 80°50'00"

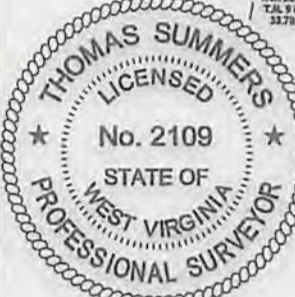
Antero Resources Corporation
Well No. Murphy Unit 1H
47-017-06641 (AS DRILLED)

AS DRILLED DATA:
WELL 1H TOP HOLE INFORMATION:
N: 284,594ft E: 1,611,323ft
LAT: 39°16'23.60" LON: 80°52'22.64"
BOTTOM HOLE INFORMATION:
N: 292,792ft E: 1,608,258ft
LAT: 39°17'44.17" LON: 80°53'03.21"
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.

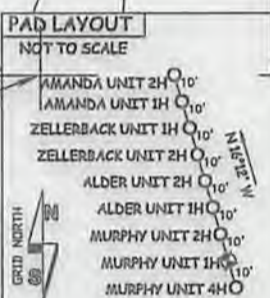
(NAD) 83 (UTM) ZONE 17 COORDS:
WELL 1H TOP HOLE INFORMATION:
N: 4,347,114m E: 510,973m
BOTTOM HOLE INFORMATION:
N: 4,349,596m E: 509,998m



LINE	BEARING	DISTANCE
L1	N 22°51' E	1132.7'
L2	N 65°10' E	1942.9'
L3	N 62°01' E	1627.2'
L4	N 62°48' E	1317.1'
L5	S 09°20' W	1774.7'
L6	S 20°21' W	2521.2'
L7	S 02°30' W	918.0'
L8	S 87°30' W	354.1'
L9	S 87°54' W	1455.9'
L10	S 86°04' W	1500.9'
L11	S 72°52' W	1566.7'
L12	N 00°20' W	1486.9'
L13	N 10°00' W	308.2'



- 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 # 14-079WA
DRAWING # MURPHY1H
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY SUBMETER
PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

LEGEND

---	Surface Owner Boundary Lines +/-
- - -	Interior Surface Tracts +/-
X	Existing Fence
⊕	Found monument, as noted
○	Proposed Well Path
⊗	As Drilled Well Path



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

*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 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 989' AS DRILLED WATERSHED NORTH FORK HUGHES RIVER
QUADRANGLE WEST UNION 7.5 DISTRICT CENTRAL COUNTY DODD BRIDGE

SURFACE OWNER ROBERT L. HOLLAND JR. ACREAGE 6.60 ACRES +/-
OIL & GAS ROYALTY OWNER ANNA BARKER ET AL; ROBERT SMITH ET AL; G.F. WILLIAMSON ET UX; WWSRA; LEASE ACREAGE 127 ACRES; 75 ACRES; 50 ACRES; 301.19 ACRES;
EZRA J. GARNER; ROBERT DOAK ET AL; DELORES FLETCHER; FREDDIE JAMES ET UX; HARRY WILLIAMSON ET AL; HARRY WILLIAMSON 11 ACRES; 71 ACRES; 40 ACRES; 34 ACRES; 176 ACRES; 166 ACRES;
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 6,400' TVD 15,200' 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

11/10/2017

