

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

API 47 - 033 - 05697 County Harrison District Union
Quad West Milford 7.5' Pad Name Bowyer Pad Field/Pool Name ----
Farm name Matt E. & Lisa Devought Bowyer Well Number Myers 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 4339269.652m Easting 544084.516m
Landing Point of Curve Northing --- Easting ---
Bottom Hole Northing 4339298.215m Easting 544109.608m

Elevation (ft) 1278' 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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WV Department of
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Date permit issued 12/26/2012 Date drilling commenced 5/31/2013 Date drilling ceased 6/16/2013
Date completion activities began N/A Date completion activities ceased N/A
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 255', 650', 880' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 1190', 1480' Void(s) encountered (Y/N) depths No
Coal depth(s) ft 735', 1572' Cavern(s) encountered (Y/N) depths No
Is coal being mined in area (Y/N) No

Reviewed by:
SDW
6/16/2020

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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"	40'	New	94#, H-40	N/A	Y
Surface	17-1/2"	13-3/8"	420'	New	48#, H-40	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2585'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	---	---	---	---	---	---	---
Tubing							
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	963 sx	15.6	1.18	120	0'	8 Hrs.
Surface	---	---	---	---	---	---	---
Coal							
Intermediate 1	---	---	---	---	---	---	---
Intermediate 2							
Intermediate 3							
Production	---	---	---	---	---	---	---
Tubing							

Drillers TD (ft) 2585' (Deepest Point Drilled) Loggers TD (ft) N/A
 Deepest formation penetrated N/A Plug back to (ft) N/A **RECEIVED**
 Plug back procedure N/A **Office of Oil and Gas**
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Kick off depth (ft) N/A WV Department of Environmental Protection

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 shoes, 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

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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PRODUCING FORMATION(S)

DEPTHS

PRODUCING FORMATION(S)	N/A (TOP)	TVD	N/A (TOP)	MD
Marcellus				

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

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

OPEN FLOW Gas Oil NGL Water GAS MEASURED BY
 --- mcfpd --- bpd --- bpd --- bpd 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					

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Please insert additional pages as applicable.

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Drilling Contractor Falcon Drilling
Address 102 Broadway Street City Carnegie State PA Zip 15106

Logging Company N/A
Address _____ City _____ State _____ Zip _____

Cementing Company Rush Wellsite Services
Address 1500 E. Dave Ward Drive City Conway State AR Zip 72032

Stimulating Company N/A
Address _____ City _____ State _____ Zip _____

Please insert additional pages as applicable.

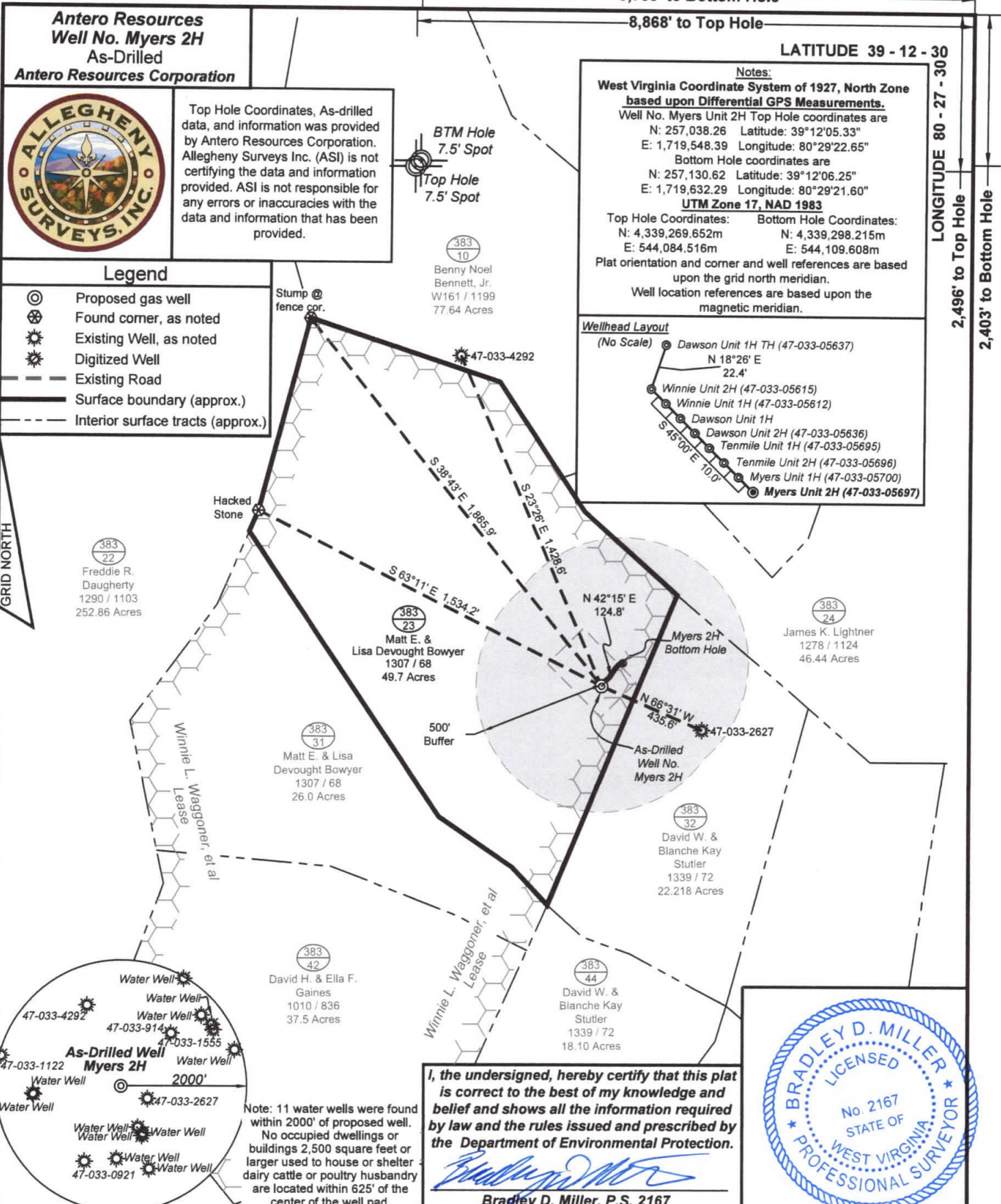
Completed by Megan Smith Telephone 303-357-7223
Signature  Title Permitting Agent Date 6-5-20

EXHIBIT 3

LITHOLOGY/ FORMATION	TOP DEPTH (TVD)		BOTTOM DEPTH (TVD)	
	From Surface	From Surface	From Surface	From Surface
Sandy Siltstone	0	292	0	292
Siltstone	292	337	292	337
Sandstone	337	402	337	402
Coal	402	432	402	432
Sandstone	432	582	432	582
Sandy Shale	582	887	582	887
Sandstone	887	1,037	887	1,037
Shale	1,037	1,082	1,037	1,082
Sandstone	1,082	1,187	1,082	1,187
Sandy Shale	1,187	1,277	1,187	1,277
Sandy Siltstone	1,277	1,337	1,277	1,337
Shale	1,337	1,427	1,337	1,427
Sandstone	1,427	1,487	1,427	1,487
Shale	1,487	1,537	1,487	1,537
Limey Shale	1,537	1,735	1,537	1,740
Big Lime	1,748	2,229	1,740	2,234
Fifty Foot Sandstone	2,229	2,330	2,221	2,335
Gordon	2,330	2,562	2,322	2,567
Fifth Sandstone	2,562	2,629	2,554	2,634
Bayard	2,629	3,330	2,621	3,335
Speechley	3,330	3,564	3,322	3,569
Balltown	3,564	4,086	3,556	4,091
Bradford	4,086	4,720	4,078	4,725
Benson	4,720	5,029	4,712	5,034
Alexander	5,029	6,697	5,021	6,713
Sycamore	6,417	6,672	6,434	6,688
Middlesex	6,672	6,831	6,700	6,907
Burkett	6,831	6,860	6,919	6,958
Tully	6860	7043	6970	7368
Marcellus	7043	NA	7368	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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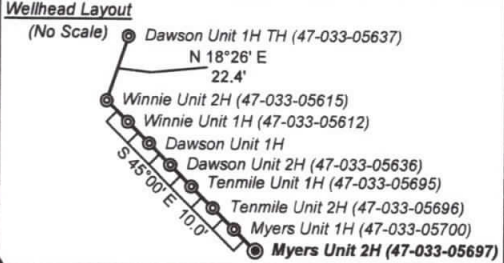


Antero Resources
Well No. Myers 2H
 As-Drilled
Antero Resources Corporation



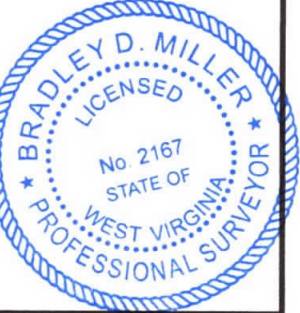
Top Hole Coordinates, As-drilled data, and information was provided by Antero Resources Corporation. Allegheny Surveys Inc. (ASI) is not certifying the data and information provided. ASI is not responsible for any errors or inaccuracies with the data and information that has been provided.

Notes:
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
 Well No. Myers Unit 2H Top Hole coordinates are
 N: 257,038.26 Latitude: 39°12'05.33"
 E: 1,719,548.39 Longitude: 80°29'22.65"
 Bottom Hole coordinates are
 N: 257,130.62 Latitude: 39°12'06.25"
 E: 1,719,632.29 Longitude: 80°29'21.60"
UTM Zone 17, NAD 1983
 Top Hole Coordinates: Bottom Hole Coordinates:
 N: 4,339,269.652m N: 4,339,298.215m
 E: 544,084.516m E: 544,109.608m
 Plat orientation and corner and well references are based upon the grid north meridian.
 Well location references are based upon the magnetic meridian.



- Legend**
- ⊙ Proposed gas well
 - ⊗ Found corner, as noted
 - ☀ Existing Well, as noted
 - ☀ Digitized Well
 - Existing Road
 - Surface boundary (approx.)
 - - - Interior surface tracts (approx.)

GRID NORTH



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.

Bradley D. Miller
Bradley D. Miller, P.S. 2167

FILE NO: 103-36-U-11
 DRAWING NO: Myers 2H As-Drilled
 SCALE: 1" = 500'
 MINIMUM DEGREE OF ACCURACY: Submeter
 PROVEN SOURCE OF ELEVATION: WVDOT, Bridgeport, WV

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: June 3 2020
 OPERATOR'S WELL NO. Myers 2H
 API WELL NO
47 - 033 - 5697
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION: ELEVATION: As-Built 1,278' WATERSHED: Middle West Fork Creek QUADRANGLE: West Milford
 DISTRICT: Union COUNTY: Harrison
 SURFACE OWNER: Matt E. & Lisa Devought Bowyer ACREAGE: 49.7
 ROYALTY OWNER: Winnie L. Waggoner, et al LEASE NO: _____ ACREAGE: 111.3
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 6,354' TVD
6,359' MD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Dianna Stamper - CT Corporation System
 ADDRESS: 1615 Wynkoop Street ADDRESS: 5400 D Big Tyler Road
Denver, CO 80202 Charleston, WV 25313

