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

API 47- 017 - 06420 County Doddridge District New Milton
Quad Headwaters Middle Island Creek Pad Name Snake Run Pad Field/Pool Name ----------
Farm name Dufflemeyer, Michael B. et al & Hyre, Justine Paula et al Well Number Honey 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 4,339,586.264m Easting 530,173.530m
Landing Point of Curve Northing 4,339,409.50m Easting 530,333.17m
Bottom Hole Northing 4,337,666.340m Easting 530,871.001m

Elevation (ft) 1,081' 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 12/30/2013 Date drilling commenced 07/04/2014 Date drilling ceased 10/15/2014
Date completion activities began 10/23/2014 Date completion activities ceased 01/01/2015
Verbal plugging (Y/N) N/A Date permission granted N/A Granted by N/A

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Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 107', 132' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 968', 1864' Void(s) encountered (Y/N) depths None
Coal depth(s) ft None Identified Cavern(s) encountered (Y/N) depths None
Is coal being mined in area (Y/N) No

Reviewed by:
JL 6/21/15

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API 47- 017 - 06420 Farm name Dufflemeyer, Michael B. et al & Hyre, Justine Paula et al Well number Honey 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"	40'	New	94#; J-55	N/A	Yes
Surface	17 1/2"	13 3/8"	372'	New	48#; H-40	N/A	Yes
Coal							
Intermediate 1	12 1/4"	9 5/8"	2,545'	New	36#; J-55	N/A	Yes
Intermediate 2							
Intermediate 3							
Production	8 3/4" & 8 1/2"	5 1/2"	13,591'	New	20#; P-110	N/A	Yes
Tubing		2 3/8"	7,272'		4.7#; N-80	N/A	
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	196 sx	15.6	1.18	38	0'	8 Hrs.
Surface	Class A	448 sx	15.6	1.18	258	0'	8 Hrs.
Coal							
Intermediate 1	Class A	998 sx	15.6	1.18	797	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	982 sx (Lead); 1,055sx (Tail)	13.5 (Lead); 15.2 (Tail)	1.44 (Lead); 1.78 (Tail)	2,645	~600' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 13,591' MD; 7,091' TVD (BHL); 7,094' (Deepest Point Drilled) Loggers TD (ft) 13,543'

Deepest formation penetrated Marcellus Plug back to (ft) N/A

Plug back procedure N/A

Kick off depth (ft) 6,508'

**This is a subsequent well. Antero only runs wireline logs on one well on a multi-well pad (Asena Unit 2H, API #47-017-06429). Please reference the wireline logs submitted with Form WR-35 for the Asena Unit 2H. 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 _____

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PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
		* PLEASE SEE ATTACHED EXHIBIT 1			

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
			* PLEASE SEE ATTACHED EXHIBIT 2					

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Please insert additional pages as applicable.

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API 47- 017 - 06420 Farm name Dufflemeyer, Michael B. et al & Hyre, Justine Paula et al Well number Honey Unit 1H

PRODUCING FORMATION(S)	DEPTHS			
Marcellus	7,030' (top)	TVD	7,311' (top)	MD

Please insert additional pages as applicable.

GAS TEST ☐ Build up ☐ Drawdown ■ Open Flow OIL TEST ■ Flow ☐ Pump

SHUT-IN PRESSURE Surface 3,950 psi Bottom Hole ---------- psi DURATION OF TEST ---------- hrs

OPEN FLOW Gas 10,413 mcfpd Oil 1 bpd NGL ---------- bpd Water 1 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_2S, ETC)
	0		0		

*** 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 STRC
Address 1560 Good Hope Pike City Clarksburg State WV Zip 26301

Cementing Company Allied Oil & Gas Services, LLC
Address 1036 East Main Street City Bridgeport State WV Zip 26330

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

Please insert additional pages as applicable.

Completed by Megan Darling Telephone 303-357-7230
Signature Megan C. Darling Title Permitting Agent Date 07/17/2015

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

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API 47-017-06420 Farm Name Dufflemeyer, Michael B. et al Well Number Honey Unit 1H					
EXHIBIT 1					
Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	23-Oct-14	13,331	13,499	60	Marcellus
2	6-Dec-14	13,132	13,300	60	Marcellus
3	6-Dec-14	12,933	13,101	60	Marcellus
4	6-Dec-14	12,734	12,902	60	Marcellus
5	7-Dec-14	12,535	12,703	60	Marcellus
6	7-Dec-14	12,335	12,503	60	Marcellus
7	7-Dec-14	12,136	12,304	60	Marcellus
8	7-Dec-14	11,937	12,105	60	Marcellus
9	8-Dec-14	11,738	11,906	60	Marcellus
10	8-Dec-14	11,539	11,707	60	Marcellus
11	8-Dec-14	11,340	11,508	60	Marcellus
12	9-Dec-14	11,140	11,308	60	Marcellus
13	9-Dec-14	10,941	11,109	60	Marcellus
14	9-Dec-14	10,742	10,910	60	Marcellus
15	9-Dec-14	10,543	10,711	60	Marcellus
16	10-Dec-14	10,344	10,512	60	Marcellus
17	10-Dec-14	10,145	10,313	60	Marcellus
18	10-Dec-14	9,945	10,113	60	Marcellus
19	11-Dec-14	9,746	9,914	60	Marcellus
20	11-Dec-14	9,547	9,715	60	Marcellus
21	11-Dec-14	9,348	9,516	60	Marcellus
22	11-Dec-14	9,149	9,317	60	Marcellus
23	11-Dec-14	8,950	9,118	60	Marcellus
24	12-Dec-14	8,750	8,918	60	Marcellus
25	12-Dec-14	8,551	8,719	60	Marcellus
26	12-Dec-14	8,352	8,520	60	Marcellus
27	12-Dec-14	8,153	8,321	60	Marcellus
28	13-Dec-14	7,954	8,122	60	Marcellus
29	13-Dec-14	7,755	7,923	60	Marcellus
30	13-Dec-14	7,555	7,723	60	Marcellus
31	14-Dec-14	7,356	7,524	60	Marcellus

API 47-017-06420 Farm Name Dufflemeyer, Michael B. et al Well Number Honey Unit 1H

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-Dec-14	64.6	7,526	N/A	4,674	232,880	7,000	N/A
2	6-Dec-14	64.7	7,569	6,690	5,525	195,080	6,016	N/A
3	6-Dec-14	63.2	7,371	6,508	6,146	195,100	6,017	N/A
4	6-Dec-14	65.0	7,509	6,566	5,771	243,840	6,471	N/A
5	7-Dec-14	63.0	7,377	6,214	5,405	244,255	6,428	N/A
6	7-Dec-14	64.1	7,255	5,933	5,807	216,780	6,274	N/A
7	7-Dec-14	62.4	7,496	6,268	5,146	209,480	7,106	N/A
8	7-Dec-14	68.4	7,533	6,018	5,546	239,400	6,514	N/A
9	8-Dec-14	64.9	7,416	6,136	5,659	234,680	6,796	N/A
10	8-Dec-14	67.5	7,379	6,211	5,718	241,230	6,524	N/A
11	8-Dec-14	67.4	7,292	6,392	5,598	246,420	6,357	N/A
12	9-Dec-14	66.7	7,157	6,238	5,739	237,900	6,439	N/A
13	9-Dec-14	67.2	7,208	6,100	5,658	238,740	6,357	N/A
14	9-Dec-14	68.0	7,161	6,111	5,832	250,825	6,318	N/A
15	9-Dec-14	68.5	7,425	5,845	4,956	241,260	6,253	N/A
16	10-Dec-14	65.8	7,312	6,163	5,738	227,980	6,155	N/A
17	10-Dec-14	66.1	7,406	6,102	5,453	240,020	6,257	N/A
18	10-Dec-14	65.4	7,868	5,990	5,206	114,310	6,513	N/A
19	11-Dec-14	68.9	7,117	6,307	4,999	236,600	6,333	N/A
20	11-Dec-14	66.2	7,267	5,977	5,674	243,260	6,190	N/A
21	11-Dec-14	66.8	7,190	5,969	5,368	237,880	6,103	N/A
22	11-Dec-14	69.5	7,087	5,969	5,235	245,850	6,125	N/A
23	11-Dec-14	68.7	6,937	5,781	5,207	245,500	6,140	N/A
24	12-Dec-14	68.4	6,996	5,817	5,542	217,220	5,909	N/A
25	12-Dec-14	67.2	6,938	5,643	4,920	243,680	6,172	N/A
26	12-Dec-14	67.8	6,997	6,296	5,156	245,590	6,065	N/A
27	12-Dec-14	68.7	6,824	6,262	5,168	246,400	6,075	N/A
28	13-Dec-14	66.2	6,744	5,844	5,382	236,237	6,065	N/A
29	13-Dec-14	68.4	6,543	5,501	4,878	221,520	5,741	N/A
30	13-Dec-14	67.8	6,642	5,906	5,383	244,740	6,052	N/A
31	14-Dec-14	67.9	6,732	6,686	5,163	210,460	5,852	N/A
	AVG=	**66.6**	**7,202**	**6,115**	**5,408**	**7,125,117**	**194,617**	TOTAL

API 47-017-06420 Farm Name Dufflemeyer, Michael B. et al Well Number Honey Unit 1H				
EXHIBIT 3				
LITHOLOGY/ FORMATION	**TOP DEPTH (TVD) From Surface**	**BOTTOM DEPTH (TVD) From Surface**	**TOP DEPTH (MD) From Surface**	**BOTTOM DEPTH (MD) From Surface**
Fresh Water	107'	N/A	107'	N/A
Fresh Water	132'	N/A	132'	N/A
Shale	0	367	0	367
Siltstone/ Sandstone	est. 367	467	est. 367	467
Shale	est. 467	607	est. 467	607
Siltstone/ Sandstone	est. 607	687	est. 607	687
Shale	est. 687	727	est. 687	727
Siltstone/ Shale	est. 727	1,387	est. 727	1,387
Sandstone/ Siltstone	est. 1387	1,427	est. 1387	1,427
Shale/ Limestone	est. 1427	1,467	est. 1427	1,467
Sanstone	est. 1467	1,527	est. 1467	1,527
Siltstone/ Sandstone	est. 1527	1,947	est. 1527	1,947
Shale	est. 1947	1,967	est. 1947	1,967
Siltstone	est. 1967	2,106	est. 1967	2,108
Big Lime	2,106	2,226	2,108	2,228
Big Injun	2,226	2,440	2,228	2,442
Gantz Sand	2,440	2,612	2,442	2,614
Fifty Foot Sandstone	2,612	2,821	2,614	2,823
Gordon	2,821	3,168	2,823	3,170
Fifth Sandstone	3,168	3,231	3,170	3,233
Bayard	3,231	3,505	3,233	3,507
Warren	3,505	3,796	3,507	3,798
Speechley	3,796	3,973	3,798	3,975
Baltown	3,973	4,602	3,975	4,604
Bradford	4,602	5,076	4,604	5,078
Benson	5,076	5,352	5,078	5,354
Alexander	5,352	5,607	5,354	5,609
Elk	5,607	6,080	5,609	6,082
Rhinestreet	6,080	6,585	6,082	6,589
Sycamore	6,585	6,749	6,589	6,768
Middlesex	6,749	6,883	6,768	7,024
Burkett	6,883	6,924	7,024	7,024
Tully	6,924	7,030	7,024	7,311
Marcellus	7,030	NA	7,311	NA

*Please note Antero determines shallow 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.

10/23/2015

Antero Resources

Honey Unit 1H
Doddridge County WV
Northing: 14236743.38
Easting: 1739363.09
As Drilled

Scientific Drilling

To convert Magnetic North to Grid, Subtract 8.77°
To convert True North to Grid, Subtract 0.22°

Azimuths to Grid North
True North: -0.22°
Magnetic North: -8.77°

Magnetic Field
Strength: 52189.6snT
Dip Angle: 66.78°
Date: 7/17/2014
Model: BGGM2014

SITE DETAILS: Dufflemeyer Pad

Site Center: Dufflemeyer Unit 2H
Site Centre Northing: 14236747.63
Easting: 1739372.13

Positional Uncertainty: 0.0
Convergence: 0.22
Local North: Grid

WELL DETAILS Honey Unit 1H
Ground Level: 1081.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	14236743.38	1739363.09	39° 12' 17.750 N	80° 39' 2.559 W

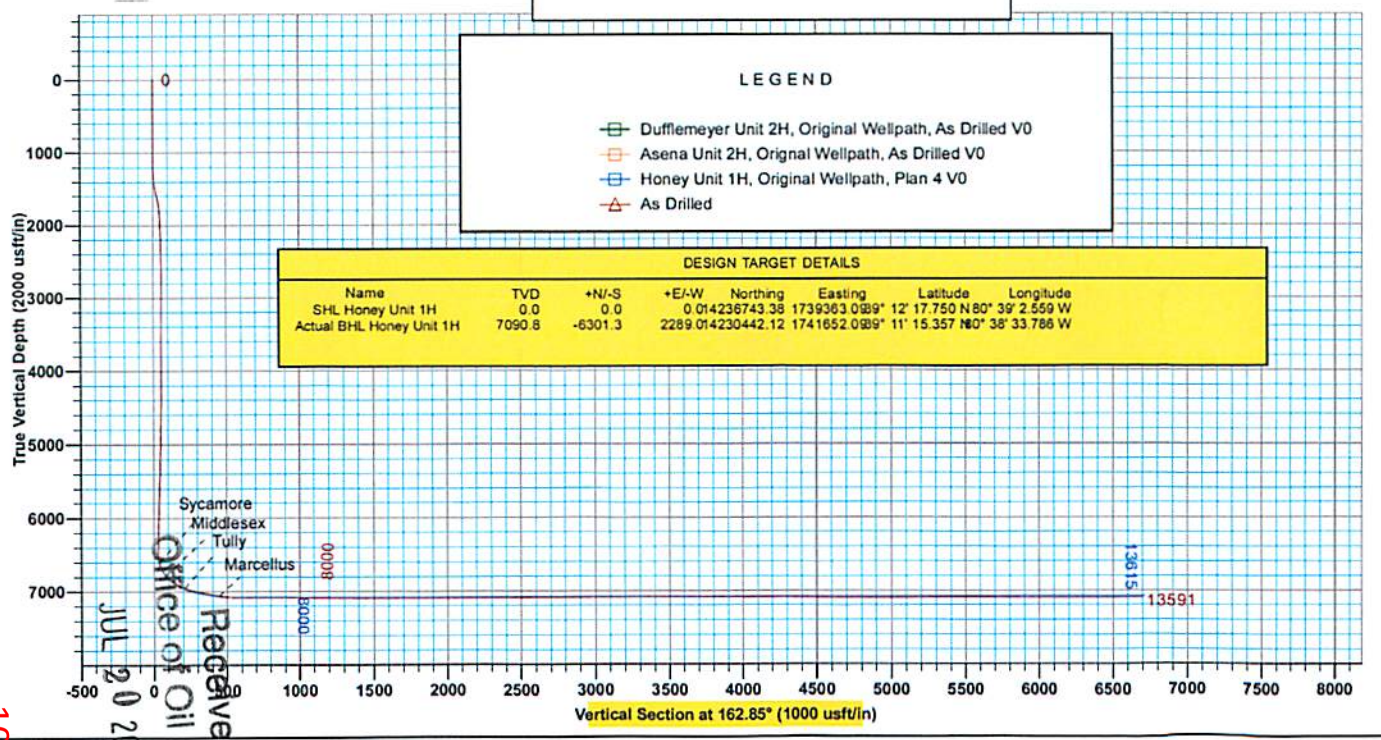
Genie Lightfoot
9:36, October 14 2014

Scientific Drilling
421 South Eagle Lane
Oklahoma City, OK 73129

PROJECT DETAILS: Doddridge County WV

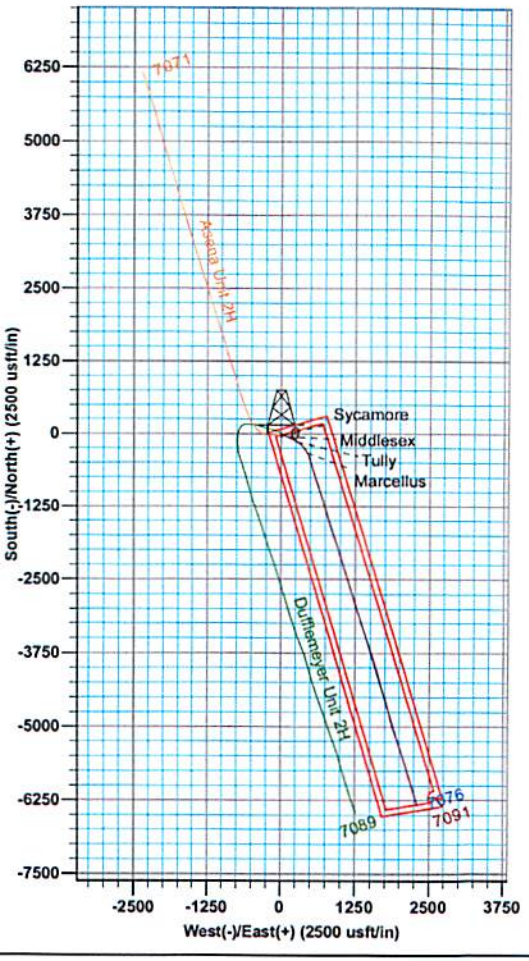
Geodetic System: Universal Transverse Mercator (US Survey Feet)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: Zone 17N (84 W to 78 W)
System Datum: Mean Sea Level

Patt 347: Honey 1H 1081 GL + 25 KB @ 1106.0usft
1081.0



DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
SHL Honey Unit 1H	0.0	0.0	0.0	14236743.38	1739363.09	39° 12' 17.750 N	80° 39' 2.559 W
Actual BHL Honey Unit 1H	7090.8	-6301.3	2289.0	14230442.12	1741652.09	39° 11' 15.357 N	80° 38' 33.786 W



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Antero Resources

Doddridge County WV
Dufflemeyer Pad
Honey Unit 1H
Original Wellpath

Design: As Drilled

EOW Completion Report

14 October, 2014

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Scientific Drilling

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Antero Resources

EOW Completion Report

Scientific Drilling

Company:	Antero Resources	**Local Co-ordinate Reference:**	Well Honey Unit 1H
Project:	Doddridge County WV	**TVD Reference:**	Patt 347: Honey 1H 1081 GL + 25 KB @ 1106.0us
Site:	Dufflemeyer Pad	**MD Reference:**	Patt 347: Honey 1H 1081 GL + 25 KB @ 1106.0us
Well:	Honey Unit 1H	**North Reference:**	Grid
Wellbore:	Original Wellpath	**Survey Calculation Method:**	Minimum Curvature
Design:	As Drilled	**Database:**	Oklahoma District

Project Doddridge County WV, McClellan District

Map System:	Universal Transverse Mercator (US Survey Fee	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Zone 17N (84 W to 78 W)		

Site Dufflemeyer Pad

Site Position:		**Northing:**	14,236,747.63 usft	**Latitude:**	39° 12' 17.792 N
From:	Map	**Easting:**	1,739,372.13 usft	**Longitude:**	80° 39' 2.444 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16"	**Grid Convergence:**	0.22 °

Well Honey Unit 1H

Well Position	**+N/-S**	0.0 usft	**Northing:**	14,236,743.38 usft	**Latitude:**	39° 12' 17.750 N
	+E/-W	0.0 usft	**Easting:**	1,739,363.09 usft	**Longitude:**	80° 39' 2.559 W
Position Uncertainty		2.0 usft	**Wellhead Elevation:**	1,106.0 usft	**Ground Level:**	1,081.0 usft

Wellbore Original Wellpath

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2014	7/17/2014	-8.55	66.78	52,190

Design As Drilled

Audit Notes:

Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	162.85

Survey Program **Date** 10/14/2014

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
37.0	6,344.0	Survey #6 Final Gyro (Original Wellpath)	SDI Standard Keeper	Scientific Drilling Intl. Standard Wireline Keeper
6,419.0	13,591.0	Survey #7 MWD (Original Wellpath)	MWD SDI	MWD - Standard ver 1.0.1

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00
37.0	0.05	127.33	37.0	0.0	0.0	0.0	0.14
62.0	0.09	127.33	62.0	0.0	0.0	0.0	0.16
87.0	0.14	127.33	87.0	-0.1	0.1	0.1	0.20
112.0	0.18	127.33	112.0	-0.1	0.1	0.1	0.16
137.0	0.17	142.60	137.0	-0.2	0.2	0.2	0.19
162.0	0.22	155.94	162.0	-0.2	0.2	0.3	0.27
187.0	0.19	146.09	187.0	-0.3	0.3	0.4	0.18
212.0	0.14	151.31	212.0	-0.4	0.3	0.4	0.21
237.0	0.15	123.26	237.0	-0.4	0.4	0.5	0.28
262.0	0.17	149.34	262.0	-0.5	0.4	0.6	0.30

10/23/2015

17-06420

Antero Resources

EOW Completion Report

Scientific Drilling

Company:	Antero Resources	**Local Co-ordinate Reference:**	Well Honey Unit 1H
Project:	Doddridge County WV	**TVD Reference:**	Patt 347: Honey 1H 1081 GL + 25 KB @ 1106.0us
Site:	Dufflemeyer Pad	**MD Reference:**	Patt 347: Honey 1H 1081 GL + 25 KB @ 1106.0us
Well:	Honey Unit 1H	**North Reference:**	Grid
Wellbore:	Original Wellpath	**Survey Calculation Method:**	Minimum Curvature
Design:	As Drilled	**Database:**	Oklahoma District

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)
287.0	0.18	144.24	287.0	-0.5	0.4	0.6	0.07
312.0	0.17	131.51	312.0	-0.6	0.5	0.7	0.16
337.0	0.18	123.22	337.0	-0.6	0.6	0.8	0.11
362.0	0.20	103.13	362.0	-0.7	0.6	0.8	0.28
387.0	0.21	113.21	387.0	-0.7	0.7	0.9	0.15
412.0	0.18	93.00	412.0	-0.7	0.8	0.9	0.30
437.0	0.19	93.64	437.0	-0.7	0.9	0.9	0.04
462.0	0.21	98.32	462.0	-0.7	1.0	1.0	0.10
487.0	0.18	99.71	487.0	-0.7	1.0	1.0	0.12
512.0	0.21	96.48	512.0	-0.7	1.1	1.0	0.13
537.0	0.09	82.75	537.0	-0.7	1.2	1.1	0.50
562.0	0.23	100.87	562.0	-0.8	1.3	1.1	0.59
587.0	0.19	95.63	587.0	-0.8	1.4	1.1	0.18
612.0	0.26	92.00	612.0	-0.8	1.4	1.2	0.29
637.0	0.18	102.92	637.0	-0.8	1.5	1.2	0.36
662.0	0.17	110.04	662.0	-0.8	1.6	1.2	0.10
687.0	0.26	90.20	687.0	-0.8	1.7	1.3	0.46
712.0	0.24	117.88	712.0	-0.8	1.8	1.3	0.48
737.0	0.27	125.72	737.0	-0.9	1.9	1.4	0.18
762.0	0.20	126.22	762.0	-1.0	2.0	1.5	0.28
787.0	0.16	127.81	787.0	-1.0	2.1	1.6	0.16
812.0	0.21	128.62	812.0	-1.1	2.1	1.6	0.20
837.0	0.19	132.63	837.0	-1.1	2.2	1.7	0.10
862.0	0.12	112.94	862.0	-1.2	2.2	1.8	0.35
887.0	0.21	111.82	887.0	-1.2	2.3	1.8	0.36
912.0	0.16	72.43	912.0	-1.2	2.4	1.8	0.53
937.0	0.17	126.47	937.0	-1.2	2.4	1.9	0.60
962.0	0.16	131.29	962.0	-1.2	2.5	1.9	0.07
987.0	0.25	150.11	987.0	-1.3	2.6	2.0	0.45
1,012.0	0.16	117.19	1,012.0	-1.4	2.6	2.1	0.58
1,037.0	0.29	127.48	1,037.0	-1.4	2.7	2.2	0.54
1,062.0	0.30	113.97	1,062.0	-1.5	2.8	2.3	0.28
1,087.0	0.26	123.07	1,087.0	-1.6	2.9	2.3	0.24
1,112.0	0.37	169.84	1,112.0	-1.7	3.0	2.5	1.08
1,137.0	0.26	171.06	1,137.0	-1.8	3.0	2.6	0.44
1,162.0	0.35	180.86	1,162.0	-1.9	3.0	2.7	0.41
1,187.0	0.40	181.96	1,187.0	-2.1	3.0	2.9	0.20
1,212.0	0.49	192.49	1,212.0	-2.3	3.0	3.1	0.48
1,237.0	0.86	209.22	1,237.0	-2.6	2.9	3.3	1.66
1,262.0	1.30	215.34	1,262.0	-3.0	2.6	3.6	1.82
1,287.0	1.61	218.11	1,287.0	-3.5	2.2	4.0	1.27
1,312.0	2.20	216.50	1,312.0	-4.1	1.7	4.4	2.37
1,337.0	3.02	212.28	1,336.9	-5.1	1.1	5.2	3.37
1,362.0	3.61	208.40	1,361.9	-6.3	0.4	6.1	2.52

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17-06420

Antero Resources

EOW Completion Report

Scientific Drilling

Company:	Antero Resources	**Local Co-ordinate Reference:**	Well Honey Unit 1H
Project:	Doddridge County WV	**TVD Reference:**	Patt 347: Honey 1H 1081 GL + 25 KB @ 1106.0us
Site:	Dufflemeyer Pad	**MD Reference:**	Patt 347: Honey 1H 1081 GL + 25 KB @ 1106.0us
Well:	Honey Unit 1H	**North Reference:**	Grid
Wellbore:	Original Wellpath	**Survey Calculation Method:**	Minimum Curvature
Design:	As Drilled	**Database:**	Oklahoma District

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)
1,387.0	3.93	204.22	1,386.8	-7.8	-0.4	7.3	1.69
1,412.0	4.20	196.18	1,411.8	-9.4	-1.0	8.7	2.52
1,437.0	4.53	186.02	1,436.7	-11.3	-1.3	10.4	3.36
1,462.0	4.87	178.40	1,461.6	-13.4	-1.4	12.3	2.84
1,487.0	5.08	174.21	1,486.5	-15.5	-1.3	14.5	1.68
1,512.0	5.29	171.50	1,511.4	-17.8	-1.0	16.7	1.29
1,537.0	5.79	167.85	1,536.3	-20.1	-0.6	19.1	2.45
1,562.0	6.18	165.39	1,561.2	-22.7	0.1	21.7	1.87
1,587.0	6.33	164.98	1,586.0	-25.3	0.7	24.4	0.63
1,612.0	6.35	164.63	1,610.9	-28.0	1.5	27.2	0.17
1,637.0	6.39	163.58	1,635.7	-30.6	2.2	29.9	0.49
1,662.0	6.52	162.85	1,660.6	-33.3	3.0	32.7	0.61
1,687.0	6.53	162.75	1,685.4	-36.0	3.9	35.6	0.06
1,712.0	5.93	160.65	1,710.2	-38.6	4.7	38.3	2.57
1,737.0	4.82	155.13	1,735.1	-40.8	5.6	40.6	4.89
1,762.0	3.77	148.20	1,760.1	-42.4	6.5	42.5	4.68
1,787.0	2.91	140.66	1,785.0	-43.6	7.3	43.8	3.86
1,812.0	2.25	130.90	1,810.0	-44.4	8.1	44.8	3.16
1,837.0	1.96	125.41	1,835.0	-45.0	8.8	45.6	1.41
1,862.0	1.86	123.78	1,860.0	-45.5	9.5	46.3	0.46
1,887.0	1.80	121.15	1,885.0	-45.9	10.2	46.9	0.41
1,912.0	1.75	121.53	1,909.9	-46.3	10.8	47.4	0.21
1,937.0	1.66	123.73	1,934.9	-46.7	11.5	48.0	0.45
1,962.0	1.52	122.07	1,959.9	-47.1	12.0	48.5	0.59
1,987.0	1.43	122.31	1,984.9	-47.4	12.6	49.0	0.36
2,012.0	1.38	126.03	2,009.9	-47.8	13.1	49.5	0.42
2,037.0	1.30	124.20	2,034.9	-48.1	13.6	50.0	0.36
2,062.0	1.20	122.82	2,059.9	-48.4	14.0	50.4	0.42
2,087.0	1.10	124.20	2,084.9	-48.7	14.4	50.8	0.42
2,112.0	1.03	124.46	2,109.9	-48.9	14.8	51.1	0.28
2,137.0	0.96	127.44	2,134.9	-49.2	15.2	51.5	0.35
2,162.0	0.92	130.73	2,159.9	-49.5	15.5	51.8	0.27
2,187.0	0.91	130.41	2,184.9	-49.7	15.8	52.2	0.04
2,212.0	0.88	132.01	2,209.9	-50.0	16.1	52.5	0.16
2,237.0	0.85	134.16	2,234.9	-50.2	16.4	52.8	0.18
2,262.0	0.81	135.79	2,259.9	-50.5	16.6	53.1	0.19
2,287.0	0.76	140.03	2,284.9	-50.7	16.9	53.5	0.31
2,312.0	0.74	138.85	2,309.9	-51.0	17.1	53.8	0.10
2,337.0	0.71	137.18	2,334.9	-51.2	17.3	54.0	0.15
2,362.0	0.65	139.50	2,359.9	-51.5	17.5	54.3	0.26
2,387.0	0.63	142.49	2,384.9	-51.7	17.6	54.6	0.16
2,412.0	0.71	146.12	2,409.9	-51.9	17.8	54.9	0.36
2,437.0	0.64	144.19	2,434.9	-52.1	18.0	55.1	0.29
2,462.0	0.52	142.18	2,459.9	-52.4	18.1	55.4	0.49
2,487.0	0.44	146.16	2,484.9	-52.5	18.3	55.6	0.35

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Antero Resources

EOW Completion Report

Scientific Drilling

Company:	Antero Resources	**Local Co-ordinate Reference:**	Well Honey Unit 1H
Project:	Doddridge County WV	**TVD Reference:**	Patt 347: Honey 1H 1081 GL + 25 KB @ 1106.0us
Site:	Dufflemeyer Pad	**MD Reference:**	Patt 347: Honey 1H 1081 GL + 25 KB @ 1106.0us
Well:	Honey Unit 1H	**North Reference:**	Grid
Wellbore:	Original Wellpath	**Survey Calculation Method:**	Minimum Curvature
Design:	As Drilled	**Database:**	Oklahoma District

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)
2,512.0	0.41	149.29	2,509.9	-52.7	18.4	55.7	0.15
2,537.0	0.40	149.03	2,534.9	-52.8	18.5	55.9	0.04
2,562.0	0.31	148.52	2,559.9	-53.0	18.5	56.1	0.36
2,587.0	0.28	145.54	2,584.8	-53.1	18.6	56.2	0.13
2,612.0	0.29	145.71	2,609.8	-53.2	18.7	56.3	0.04
2,637.0	0.25	142.68	2,634.8	-53.3	18.7	56.4	0.17
2,662.0	0.19	136.11	2,659.8	-53.3	18.8	56.5	0.26
2,687.0	0.15	117.98	2,684.8	-53.4	18.9	56.6	0.27
2,712.0	0.10	72.73	2,709.8	-53.4	18.9	56.6	0.43
2,737.0	0.07	37.86	2,734.8	-53.4	18.9	56.6	0.23
2,762.0	0.08	337.36	2,759.8	-53.3	18.9	56.6	0.30
2,787.0	0.15	311.08	2,784.8	-53.3	18.9	56.5	0.34
2,812.0	0.12	309.98	2,809.8	-53.3	18.9	56.5	0.12
2,837.0	0.07	324.69	2,834.8	-53.2	18.8	56.4	0.22
2,862.0	0.07	335.39	2,859.8	-53.2	18.8	56.4	0.05
2,887.0	0.11	348.27	2,884.8	-53.2	18.8	56.4	0.18
2,912.0	0.14	343.67	2,909.8	-53.1	18.8	56.3	0.13
2,937.0	0.17	341.72	2,934.8	-53.1	18.8	56.2	0.12
2,962.0	0.19	348.60	2,959.8	-53.0	18.8	56.2	0.12
2,987.0	0.18	349.47	2,984.8	-52.9	18.7	56.1	0.04
3,012.0	0.18	348.05	3,009.8	-52.8	18.7	56.0	0.02
3,037.0	0.20	350.13	3,034.8	-52.7	18.7	55.9	0.08
3,062.0	0.21	344.66	3,059.8	-52.7	18.7	55.8	0.09
3,087.0	0.23	327.41	3,084.8	-52.6	18.7	55.7	0.28
3,112.0	0.22	313.84	3,109.8	-52.5	18.6	55.6	0.22
3,137.0	0.15	311.28	3,134.8	-52.4	18.5	55.6	0.28
3,162.0	0.16	314.20	3,159.8	-52.4	18.5	55.5	0.05
3,187.0	0.15	326.39	3,184.8	-52.3	18.4	55.5	0.14
3,212.0	0.13	347.47	3,209.8	-52.3	18.4	55.4	0.22
3,237.0	0.15	353.72	3,234.8	-52.2	18.4	55.3	0.10
3,262.0	0.17	1.12	3,259.8	-52.2	18.4	55.3	0.11
3,287.0	0.18	356.23	3,284.8	-52.1	18.4	55.2	0.07
3,312.0	0.20	342.58	3,309.8	-52.0	18.4	55.1	0.20
3,337.0	0.22	338.61	3,334.8	-51.9	18.4	55.0	0.10
3,362.0	0.20	341.09	3,359.8	-51.8	18.3	54.9	0.09
3,387.0	0.19	344.10	3,384.8	-51.8	18.3	54.8	0.06
3,412.0	0.18	344.62	3,409.8	-51.7	18.3	54.8	0.04
3,437.0	0.17	339.37	3,434.8	-51.6	18.3	54.7	0.08
3,462.0	0.18	338.65	3,459.8	-51.5	18.2	54.6	0.04
3,487.0	0.11	339.66	3,484.8	-51.5	18.2	54.5	0.28
3,512.0	0.09	351.85	3,509.8	-51.4	18.2	54.5	0.12
3,537.0	0.11	10.84	3,534.8	-51.4	18.2	54.5	0.15
3,562.0	0.11	32.50	3,559.8	-51.3	18.2	54.4	0.17
3,587.0	0.13	23.17	3,584.8	-51.3	18.2	54.4	0.11

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Antero Resources

EOW Completion Report

Scientific Drilling

Company:	Antero Resources	**Local Co-ordinate Reference:**	Well Honey Unit 1H
Project:	Doddridge County WV	**TVD Reference:**	Patt 347: Honey 1H 1081 GL + 25 KB @ 1106.0us
Site:	Dufflemeyer Pad	**MD Reference:**	Patt 347: Honey 1H 1081 GL + 25 KB @ 1106.0us
Well:	Honey Unit 1H	**North Reference:**	Grid
Wellbore:	Original Wellpath	**Survey Calculation Method:**	Minimum Curvature
Design:	As Drilled	**Database:**	Oklahoma District

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)
3,612.0	0.13	19.24	3,609.8	-51.2	18.3	54.3	0.04
3,637.0	0.13	20.07	3,634.8	-51.2	18.3	54.3	0.01
3,662.0	0.14	12.26	3,659.8	-51.1	18.3	54.3	0.08
3,687.0	0.15	17.16	3,684.8	-51.1	18.3	54.2	0.06
3,712.0	0.14	14.60	3,709.8	-51.0	18.3	54.1	0.05
3,737.0	0.12	359.56	3,734.8	-51.0	18.3	54.1	0.16
3,762.0	0.12	344.19	3,759.8	-50.9	18.3	54.0	0.13
3,787.0	0.10	346.17	3,784.8	-50.9	18.3	54.0	0.08
3,812.0	0.05	356.56	3,809.8	-50.8	18.3	54.0	0.21
3,837.0	0.04	359.32	3,834.8	-50.8	18.3	53.9	0.04
3,862.0	0.05	16.31	3,859.8	-50.8	18.3	53.9	0.07
3,887.0	0.04	25.24	3,884.8	-50.8	18.3	53.9	0.05
3,912.0	0.03	78.06	3,909.8	-50.8	18.3	53.9	0.13
3,937.0	0.03	70.36	3,934.8	-50.8	18.3	53.9	0.02
3,962.0	0.05	21.09	3,959.8	-50.7	18.3	53.9	0.15
3,987.0	0.08	4.37	3,984.8	-50.7	18.4	53.9	0.14
4,012.0	0.09	25.12	4,009.8	-50.7	18.4	53.8	0.13
4,037.0	0.13	38.47	4,034.8	-50.6	18.4	53.8	0.19
4,062.0	0.15	8.47	4,059.8	-50.6	18.4	53.8	0.30
4,087.0	0.16	352.88	4,084.8	-50.5	18.4	53.7	0.17
4,112.0	0.13	349.83	4,109.8	-50.5	18.4	53.6	0.12
4,137.0	0.07	344.81	4,134.8	-50.4	18.4	53.6	0.24
4,162.0	0.04	359.58	4,159.8	-50.4	18.4	53.6	0.13
4,187.0	0.08	33.19	4,184.8	-50.4	18.4	53.6	0.21
4,212.0	0.11	52.93	4,209.8	-50.3	18.4	53.5	0.18
4,237.0	0.14	37.12	4,234.8	-50.3	18.5	53.5	0.18
4,262.0	0.18	12.56	4,259.8	-50.2	18.5	53.5	0.31
4,287.0	0.21	358.68	4,284.8	-50.2	18.5	53.4	0.22
4,312.0	0.22	1.49	4,309.8	-50.1	18.5	53.3	0.06
4,337.0	0.27	24.70	4,334.8	-50.0	18.5	53.2	0.44
4,362.0	0.37	18.23	4,359.8	-49.8	18.6	53.1	0.42
4,387.0	0.43	7.26	4,384.8	-49.7	18.6	52.9	0.39
4,412.0	0.40	7.23	4,409.8	-49.5	18.6	52.8	0.12
4,437.0	0.41	0.13	4,434.8	-49.3	18.6	52.6	0.20
4,462.0	0.38	5.11	4,459.8	-49.1	18.7	52.4	0.18
4,487.0	0.31	26.08	4,484.8	-49.0	18.7	52.3	0.57
4,512.0	0.34	10.27	4,509.8	-48.9	18.7	52.2	0.38
4,537.0	0.38	359.12	4,534.8	-48.7	18.7	52.1	0.32
4,562.0	0.32	1.20	4,559.8	-48.5	18.7	51.9	0.25
4,587.0	0.36	351.71	4,584.8	-48.4	18.7	51.8	0.28
4,612.0	0.39	348.52	4,609.8	-48.2	18.7	51.6	0.15
4,637.0	0.41	352.83	4,634.8	-48.1	18.7	51.4	0.14
4,662.0	0.42	357.37	4,659.8	-47.9	18.7	51.3	0.14
4,687.0	0.44	354.00	4,684.8	-47.7	18.6	51.1	0.13

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Antero Resources

EOW Completion Report

Scientific Drilling

Company:	Antero Resources	**Local Co-ordinate Reference:**	Well Honey Unit 1H
Project:	Doddridge County WV	**TVD Reference:**	Patt 347: Honey 1H 1081 GL + 25 KB @ 1106.0us
Site:	Dufflemeyer Pad	**MD Reference:**	Patt 347: Honey 1H 1081 GL + 25 KB @ 1106.0us
Well:	Honey Unit 1H	**North Reference:**	Grid
Wellbore:	Original Wellpath	**Survey Calculation Method:**	Minimum Curvature
Design:	As Drilled	**Database:**	Oklahoma District

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)
4,712.0	0.49	349.79	4,709.8	-47.5	18.6	50.9	0.24
4,737.0	0.53	348.00	4,734.8	-47.3	18.6	50.7	0.17
4,762.0	0.54	345.74	4,759.8	-47.0	18.5	50.4	0.09
4,787.0	0.53	346.76	4,784.8	-46.8	18.5	50.2	0.06
4,812.0	0.52	353.59	4,809.8	-46.6	18.4	50.0	0.25
4,837.0	0.54	0.92	4,834.8	-46.4	18.4	49.7	0.28
4,862.0	0.55	5.64	4,859.8	-46.1	18.4	49.5	0.18
4,887.0	0.59	7.17	4,884.8	-45.9	18.5	49.3	0.17
4,912.0	0.65	2.75	4,909.8	-45.6	18.5	49.0	0.31
4,937.0	0.65	0.43	4,934.8	-45.3	18.5	48.8	0.11
4,962.0	0.61	359.20	4,959.8	-45.1	18.5	48.5	0.17
4,987.0	0.62	357.01	4,984.8	-44.8	18.5	48.2	0.10
5,012.0	0.60	1.66	5,009.8	-44.5	18.5	48.0	0.21
5,037.0	0.60	1.53	5,034.8	-44.3	18.5	47.7	0.01
5,062.0	0.64	0.92	5,059.8	-44.0	18.5	47.5	0.16
5,087.0	0.68	6.54	5,084.8	-43.7	18.5	47.2	0.30
5,112.0	0.71	5.34	5,109.8	-43.4	18.5	46.9	0.13
5,137.0	0.72	2.34	5,134.8	-43.1	18.6	46.6	0.15
5,162.0	0.72	1.71	5,159.8	-42.8	18.6	46.3	0.03
5,187.0	0.70	0.93	5,184.8	-42.5	18.6	46.1	0.09
5,212.0	0.70	357.89	5,209.8	-42.2	18.6	45.8	0.15
5,237.0	0.69	0.55	5,234.8	-41.9	18.6	45.5	0.14
5,262.0	0.73	3.81	5,259.8	-41.5	18.6	45.2	0.23
5,287.0	0.78	4.78	5,284.8	-41.2	18.6	44.9	0.21
5,312.0	0.76	8.76	5,309.8	-40.9	18.6	44.6	0.23
5,337.0	0.81	7.15	5,334.8	-40.5	18.7	44.3	0.22
5,362.0	0.86	3.64	5,359.8	-40.2	18.7	43.9	0.29
5,387.0	0.85	2.28	5,384.8	-39.8	18.7	43.6	0.09
5,412.0	0.86	1.64	5,409.8	-39.4	18.8	43.2	0.06
5,437.0	0.89	0.89	5,434.8	-39.1	18.8	42.9	0.13
5,462.0	0.87	2.48	5,459.8	-38.7	18.8	42.5	0.13
5,487.0	0.86	1.59	5,484.8	-38.3	18.8	42.1	0.07
5,512.0	0.87	356.71	5,509.8	-37.9	18.8	41.8	0.30
5,537.0	0.87	357.13	5,534.8	-37.5	18.8	41.4	0.03
5,562.0	0.84	0.80	5,559.8	-37.2	18.8	41.0	0.25
5,587.0	0.88	1.50	5,584.8	-36.8	18.8	40.7	0.17
5,612.0	0.90	5.32	5,609.8	-36.4	18.8	40.3	0.25
5,637.0	0.94	5.97	5,634.8	-36.0	18.8	40.0	0.17
5,662.0	0.98	3.08	5,659.8	-35.6	18.9	39.6	0.25
5,687.0	0.97	4.65	5,684.8	-35.2	18.9	39.2	0.11
5,712.0	1.01	1.80	5,709.8	-34.7	18.9	38.8	0.25
5,737.0	1.03	359.97	5,734.7	-34.3	18.9	38.3	0.15
5,762.0	1.00	0.02	5,759.7	-33.8	18.9	37.9	0.12
5,787.0	1.02	357.98	5,784.7	-33.4	18.9	37.5	0.16

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Antero Resources

EOW Completion Report

Scientific Drilling

Company:	Antero Resources	**Local Co-ordinate Reference:**	Well Honey Unit 1H
Project:	Doddridge County WV	**TVD Reference:**	Patt 347: Honey 1H 1081 GL + 25 KB @ 1106.0us
Site:	Dufflemeyer Pad	**MD Reference:**	Patt 347: Honey 1H 1081 GL + 25 KB @ 1106.0us
Well:	Honey Unit 1H	**North Reference:**	Grid
Wellbore:	Original Wellpath	**Survey Calculation Method:**	Minimum Curvature
Design:	As Drilled	**Database:**	Oklahoma District

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)
5,812.0	1.05	355.35	5,809.7	-33.0	18.9	37.1	0.22
5,837.0	1.00	359.42	5,834.7	-32.5	18.9	36.6	0.35
5,862.0	0.94	4.94	5,859.7	-32.1	18.9	36.2	0.44
5,887.0	0.97	5.68	5,884.7	-31.7	18.9	35.8	0.13
5,912.0	0.97	7.05	5,909.7	-31.2	19.0	35.5	0.09
5,937.0	0.93	6.48	5,934.7	-30.8	19.0	35.1	0.16
5,962.0	0.93	5.43	5,959.7	-30.4	19.1	34.7	0.07
5,987.0	0.91	7.21	5,984.7	-30.0	19.1	34.3	0.14
6,012.0	0.91	7.97	6,009.7	-29.6	19.2	34.0	0.05
6,037.0	0.91	7.71	6,034.7	-29.2	19.2	33.6	0.02
6,062.0	0.86	10.44	6,059.7	-28.9	19.3	33.3	0.26
6,087.0	0.77	13.44	6,084.7	-28.5	19.3	33.0	0.40
6,112.0	0.75	8.70	6,109.7	-28.2	19.4	32.7	0.26
6,137.0	0.72	2.99	6,134.7	-27.9	19.4	32.4	0.32
6,162.0	0.63	8.34	6,159.7	-27.6	19.5	32.1	0.44
6,187.0	0.68	19.09	6,184.7	-27.3	19.5	31.9	0.53
6,212.0	0.65	23.92	6,209.7	-27.0	19.6	31.6	0.25
6,237.0	0.63	27.24	6,234.7	-26.8	19.8	31.4	0.17
6,262.0	0.61	19.48	6,259.7	-26.5	19.9	31.2	0.34
6,287.0	0.59	16.52	6,284.7	-26.3	20.0	31.0	0.15
6,312.0	0.67	18.89	6,309.7	-26.0	20.0	30.8	0.34
6,337.0	0.71	16.72	6,334.7	-25.7	20.1	30.5	0.19
6,344.0	0.71	17.68	6,341.7	-25.7	20.2	30.5	0.17
6,419.0	0.62	35.81	6,416.7	-24.9	20.5	29.8	0.30
6,449.0	0.50	40.88	6,446.7	-24.7	20.7	29.7	0.43
6,479.0	0.65	53.23	6,476.7	-24.5	20.9	29.5	0.65
6,508.0	2.24	96.73	6,505.7	-24.4	21.6	29.7	6.29
6,539.0	6.00	106.11	6,536.6	-24.9	23.8	30.8	12.28
6,569.0	9.70	105.32	6,566.3	-26.0	27.7	33.1	12.34
6,599.0	12.73	104.66	6,595.7	-27.5	33.4	36.2	10.11
6,614.0	14.06	106.25	6,610.3	-28.5	36.7	38.0	9.17
Sycamore							
6,629.0	15.39	107.57	6,624.8	-29.6	40.4	40.2	9.17
6,659.0	18.48	109.65	6,653.5	-32.4	48.6	45.3	10.49
6,689.0	21.42	111.48	6,681.7	-36.0	58.2	51.6	10.02
6,719.0	23.67	111.98	6,709.4	-40.3	68.9	58.8	7.53
6,749.0	27.23	113.82	6,736.5	-45.3	80.8	67.1	12.15
6,779.0	30.11	115.66	6,762.8	-51.3	93.8	76.7	10.04
6,793.0	31.39	115.90	6,774.8	-54.4	100.3	81.6	9.21
Middlesex							
6,809.0	32.86	116.15	6,788.4	-58.2	107.9	87.4	9.21
6,839.0	36.18	116.57	6,813.1	-65.7	123.2	99.1	11.10
6,869.0	39.57	116.41	6,836.8	-73.9	139.6	111.8	11.30
6,899.0	43.75	116.87	6,859.2	-82.9	157.5	125.6	13.97
6,929.0	47.31	116.79	6,880.2	-92.5	176.6	140.5	11.87

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Antero Resources

EOW Completion Report

Scientific Drilling

Company:	Antero Resources	**Local Co-ordinate Reference:**	Well Honey Unit 1H
Project:	Doddridge County WV	**TVD Reference:**	Patt 347: Honey 1H 1081 GL + 25 KB @ 1106.0us
Site:	Dufflemeyer Pad	**MD Reference:**	Patt 347: Honey 1H 1081 GL + 25 KB @ 1106.0us
Well:	Honey Unit 1H	**North Reference:**	Grid
Wellbore:	Original Wellpath	**Survey Calculation Method:**	Minimum Curvature
Design:	As Drilled	**Database:**	Oklahoma District

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)
6,959.0	51.30	116.98	6,899.8	-102.8	196.8	156.3	13.31
6,989.0	55.23	117.81	6,917.7	-113.9	218.2	173.1	13.29
7,019.0	59.28	119.73	6,933.9	-126.0	240.3	191.3	14.53
7,049.0	62.68	120.24	6,948.5	-139.1	263.0	210.5	11.43
Tully							
7,079.0	64.50	122.99	6,961.8	-153.2	285.9	230.7	10.21
7,109.0	65.74	126.99	6,974.5	-168.8	308.2	252.2	12.78
7,139.0	67.57	131.03	6,986.3	-186.2	329.6	275.1	13.79
7,169.0	68.40	134.51	6,997.6	-205.0	350.0	299.1	11.10
7,199.0	69.33	137.73	7,008.4	-225.2	369.4	324.1	10.48
7,229.0	69.87	142.33	7,018.9	-246.8	387.4	350.0	14.48
7,259.0	69.55	146.71	7,029.3	-269.7	403.7	376.7	13.74
7,289.0	69.32	150.56	7,039.8	-293.6	418.4	404.0	12.04
7,319.0	71.21	152.84	7,050.0	-318.5	431.7	431.7	9.53
7,336.0	72.41	154.62	7,055.3	-333.0	438.9	447.6	12.21
Marcellus							
7,349.0	73.34	155.97	7,059.1	-344.3	444.1	459.9	12.21
7,379.0	76.38	158.24	7,066.9	-370.9	455.3	488.7	12.49
7,409.0	80.05	160.26	7,073.1	-398.4	465.7	518.0	13.90
7,483.0	88.96	162.30	7,080.1	-468.1	489.3	591.6	12.35
7,600.0	90.60	163.32	7,080.6	-579.9	523.9	708.6	1.65
7,695.0	89.66	162.94	7,080.4	-670.8	551.5	803.6	1.07
7,785.0	89.03	162.48	7,081.4	-756.7	578.2	893.6	0.87
7,875.0	89.13	161.88	7,082.8	-842.4	605.8	983.5	0.68
7,967.0	89.03	162.55	7,084.3	-930.0	633.9	1,075.5	0.74
8,060.0	88.56	162.38	7,086.3	-1,018.6	661.9	1,168.5	0.54
8,152.0	88.12	162.58	7,088.9	-1,106.3	689.6	1,260.5	0.53
8,245.0	87.95	161.96	7,092.1	-1,194.8	717.9	1,353.4	0.69
8,337.0	89.66	165.22	7,094.0	-1,283.1	743.9	1,445.4	4.00
8,430.0	90.47	166.10	7,093.9	-1,373.2	766.9	1,538.2	1.29
8,522.0	91.58	166.43	7,092.3	-1,462.5	788.7	1,630.1	1.26
8,614.0	90.17	162.63	7,090.9	-1,551.2	813.3	1,722.0	4.41
8,706.0	90.13	161.98	7,090.6	-1,638.8	841.2	1,814.0	0.71
8,797.0	90.23	160.90	7,090.4	-1,725.1	870.2	1,905.0	1.19
8,891.0	90.03	159.06	7,090.1	-1,813.4	902.4	1,998.8	1.97
8,985.0	89.36	160.25	7,090.7	-1,901.5	935.0	2,092.7	1.45
9,079.0	89.30	162.45	7,091.7	-1,990.6	965.1	2,186.6	2.34
9,173.0	90.57	164.62	7,091.9	-2,080.7	991.7	2,280.6	2.67
9,268.0	90.44	164.52	7,091.0	-2,172.3	1,017.0	2,375.6	0.17
9,362.0	91.38	162.89	7,089.5	-2,262.5	1,043.4	2,469.6	2.00
9,456.0	91.68	161.38	7,087.0	-2,351.9	1,072.2	2,563.5	1.64
9,551.0	89.66	161.68	7,085.9	-2,442.0	1,102.3	2,658.5	2.15
9,645.0	89.70	163.63	7,086.4	-2,531.7	1,130.3	2,752.5	2.07
9,739.0	90.34	166.39	7,086.4	-2,622.5	1,154.6	2,846.4	3.01
9,833.0	92.28	164.45	7,084.2	-2,713.5	1,178.3	2,940.3	2.92

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Antero Resources

EOW Completion Report

Scientific Drilling

Company:	Antero Resources	**Local Co-ordinate Reference:**	Well Honey Unit 1H
Project:	Doddridge County WV	**TVD Reference:**	Patt 347: Honey 1H 1081 GL + 25 KB @ 1106.0us
Site:	Dufflemeyer Pad	**MD Reference:**	Patt 347: Honey 1H 1081 GL + 25 KB @ 1106.0us
Well:	Honey Unit 1H	**North Reference:**	Grid
Wellbore:	Original Wellpath	**Survey Calculation Method:**	Minimum Curvature
Design:	As Drilled	**Database:**	Oklahoma District

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)
9,927.0	90.81	161.76	7,081.7	-2,803.4	1,205.6	3,034.2	3.26
10,022.0	90.94	161.54	7,080.3	-2,893.5	1,235.5	3,129.2	0.27
10,115.0	89.36	161.54	7,080.0	-2,981.7	1,265.0	3,222.2	1.70
10,210.0	89.33	163.43	7,081.1	-3,072.3	1,293.5	3,317.1	1.99
10,304.0	90.74	164.21	7,081.0	-3,162.6	1,319.7	3,411.1	1.71
10,398.0	90.97	163.27	7,079.6	-3,252.8	1,346.0	3,505.1	1.03
10,492.0	91.58	160.78	7,077.6	-3,342.2	1,375.0	3,599.1	2.73
10,586.0	88.96	159.81	7,077.1	-3,430.7	1,406.7	3,693.0	2.97
10,680.0	87.99	158.51	7,079.6	-3,518.5	1,440.2	3,786.7	1.73
10,774.0	89.06	160.25	7,082.0	-3,606.5	1,473.3	3,880.5	2.17
10,868.0	89.46	161.69	7,083.2	-3,695.3	1,503.9	3,974.5	1.59
10,962.0	89.40	162.33	7,084.2	-3,784.7	1,532.9	4,068.4	0.68
11,056.0	90.03	163.49	7,084.6	-3,874.6	1,560.6	4,162.4	1.40
11,150.0	90.37	163.44	7,084.3	-3,964.7	1,587.3	4,256.4	0.37
11,244.0	89.36	163.81	7,084.5	-4,054.9	1,613.8	4,350.4	1.14
11,339.0	88.76	163.20	7,086.1	-4,145.9	1,640.8	4,445.4	0.90
11,432.0	88.69	164.86	7,088.2	-4,235.3	1,666.4	4,538.4	1.79
11,527.0	89.56	163.28	7,089.6	-4,326.7	1,692.4	4,633.3	1.90
11,621.0	89.77	162.52	7,090.2	-4,416.5	1,720.1	4,727.3	0.84
11,715.0	88.99	164.14	7,091.2	-4,506.5	1,747.0	4,821.3	1.91
11,809.0	89.23	164.21	7,092.6	-4,597.0	1,772.7	4,915.3	0.27
11,904.0	89.93	164.71	7,093.3	-4,688.5	1,798.1	5,010.2	0.91
11,998.0	90.34	168.84	7,093.1	-4,780.0	1,819.6	5,104.0	4.42
12,092.0	91.54	167.10	7,091.6	-4,871.9	1,839.2	5,197.6	2.25
12,186.0	92.08	163.10	7,088.6	-4,962.7	1,863.4	5,291.5	4.29
12,281.0	90.37	161.55	7,086.6	-5,053.2	1,892.2	5,386.4	2.43
12,374.0	90.60	160.50	7,085.8	-5,141.1	1,922.4	5,479.4	1.16
12,468.0	89.36	160.74	7,085.8	-5,229.8	1,953.6	5,573.3	1.34
12,562.0	89.36	160.60	7,086.9	-5,318.5	1,984.7	5,667.2	0.15
12,656.0	89.36	162.45	7,087.9	-5,407.6	2,014.5	5,761.2	1.97
12,750.0	89.56	162.26	7,088.8	-5,497.2	2,043.0	5,855.2	0.29
12,844.0	89.26	161.94	7,089.8	-5,586.6	2,071.9	5,949.2	0.47
12,938.0	89.13	161.86	7,091.1	-5,676.0	2,101.1	6,043.2	0.16
13,032.0	89.46	163.33	7,092.3	-5,765.7	2,129.2	6,137.1	1.60
13,127.0	89.19	162.09	7,093.4	-5,856.4	2,157.4	6,232.1	1.34
13,221.0	90.07	164.57	7,094.0	-5,946.4	2,184.4	6,326.1	2.80
13,315.0	90.64	164.24	7,093.4	-6,036.9	2,209.7	6,420.1	0.70
13,409.0	90.64	163.71	7,092.3	-6,127.3	2,235.6	6,514.1	0.56
13,503.0	90.40	162.81	7,091.5	-6,217.3	2,262.7	6,608.1	0.99
13,533.0	90.48	162.56	7,091.3	-6,245.9	2,271.6	6,638.1	0.87
13,591.0	90.48	162.56	7,090.8	-6,301.3	2,289.0	6,696.0	0.00

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Antero Resources

EOW Completion Report

Scientific Drilling

Company:	Antero Resources	**Local Co-ordinate Reference:**	Well Honey Unit 1H
Project:	Doddridge County WV	**TVD Reference:**	Patt 347: Honey 1H 1081 GL + 25 KB @ 1106.0us
Site:	Dufflemeyer Pad	**MD Reference:**	Patt 347: Honey 1H 1081 GL + 25 KB @ 1106.0us
Well:	Honey Unit 1H	**North Reference:**	Grid
Wellbore:	Original Wellpath	**Survey Calculation Method:**	Minimum Curvature
Design:	As Drilled	**Database:**	Oklahoma District

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
6,614.0	6,610.3	-28.5	36.7	Sycamore
6,793.0	6,774.8	-54.4	100.3	Middlesex
7,049.0	6,948.5	-139.1	263.0	Tully
7,336.0	7,055.3	-333.0	438.9	Marcellus

Checked By: _____ Approved By: _____ Date: _____

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	12/5/2014
Job End Date:	12/14/2014
State:	West Virginia
County:	Doddridge
API Number:	47-017-06420-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Honey Unit 1H
Longitude:	-80.65053300
Latitude:	39.20501900
Datum:	NAD83
Federal/Tribal Well:	NO
True Vertical Depth:	7,094
Total Base Water Volume (gal):	8,173,914
Total Base Non Water Volume:	366,788

FracFocus Chemical Disclosure Registry

GROUNDWATER PROTECTION COUNCIL

Interstate Oil & Gas Compact Commission

17-06420

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	Base Fluid					
			Water	7732-18-5	100.00000	90.16135	
Sand	U.S. Well Services, LLC	Proppant					
			Crystalline Silica, quartz	14808-60-7	100.00000	9.42359	
LGC-15	U.S. Well Services, LLC	Gelling Agents					
			Guar Gum	9000-30-0	50.00000	0.07963	
			Petroleum Distillates	64742-47-8	60.00000	0.07542	
			Suspending agent (solid)	14808-60-7	3.00000	0.01218	
			Surfactant	68439-51-0	3.00000	0.00478	
HCL Acid (12.6%-18.0%)	U.S. Well Services, LLC	Bulk Acid					
			Water	7732-18-5	87.50000	0.09160	
			Hydrogen Chloride	7647-01-1	18.00000	0.02188	
WFRA-405	U.S. Well Services, LLC	Friction Reducer					
			Water	7732-18-5	40.00000	0.03101	
			Anionic Polyacrylamide	Proprietary	40.00000	0.03101	
			Petroleum Distillates	64742-47-8	40.00000	0.02497	
			Crystalline Salt	12125-02-9	5.00000	0.00388	

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			Ethoxylated alcohol blend	Proprietary	5.00000	0.00388	
SI-1100	U.S. Well Services	Scale Inhibitor					
			Di Water	7732-18-5	80.00000	0.01065	
			Ethylene Glycol	107-21-1	40.00000	0.00602	
			Potassium salt of diethylene triamine penta (methylene phosphonic acid)	15827-60-8	10.00000	0.00180	
			2-Phosphonobutane 1,2,4 tricarboxylic salt	37971-36-1	10.00000	0.00172	
			hexamethylenediamine tetra (methylene phosphonic acid)	38820-59-6	10.00000	0.00166	
			Copolymer of Maleic and Acrylic acid	26677-99-6	10.00000	0.00157	
			bis (hexamethylene) tramine penta (methylene phosphonic acid) - phosphate acid	40623-75-4	10.00000	0.00153	
			Acrylic polymer	52255-49-9	5.00000	0.00067	
K-BAC 1020	U.S. Well Services, LLC	Anti-Bacterial Agent					
			2,2-dibromo-3-nitrilopropionamide	10222-01-2	20.00000	0.00430	
			Deionized Water	7732-18-5	28.00000	0.00246	
AP One	U.S. Well Services, LLC	Gel Breakers					
			Ammonium Persulfate	7727-54-0	100.00000	0.00209	
AI-301	U.S. Well Services, LLC	Acid Corrosion Inhibitors					
			Diethylene Glycol	111-46-6	30.00000	0.00014	
			Methenamine	100-97-0	20.00000	0.00011	
			Hydrogen Chloride	7647-01-0	10.00000	0.00005	
			Polyethylene polyamine	68603-67-8	10.00000	0.00004	
			Coco amine	61791-14-8	5.00000	0.00002	
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.							

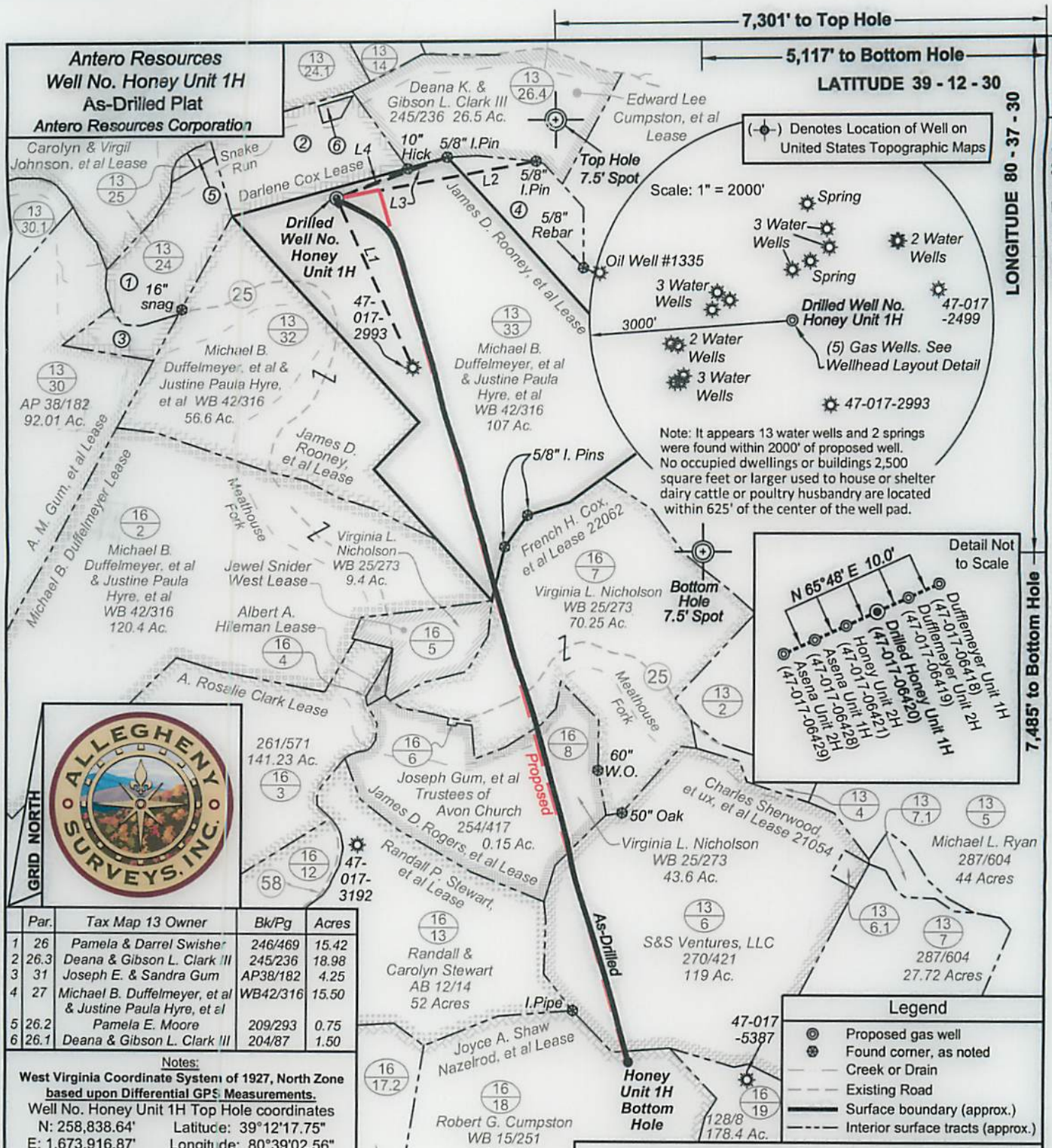
* Total Water Volume sources may include fresh water, produced water, and/or recycled water
** Information is based on the maximum potential for concentration and thus the total may be over 100%

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)

Received
Office of Oil & Gas
JUL 20 2015

10/23/2015

Antero Resources
Well No. Honey Unit 1H
As-Drilled Plat
Antero Resources Corporation



	Par.	Tax Map 13 Owner	Bk/Pg	Acres
1	26	Pamela & Darrel Swisher	246/469	15.42
2	26.3	Deana & Gibson L. Clark III	245/236	18.98
3	31	Joseph E. & Sandra Gum	AP38/182	4.25
4	27	Michael B. Duffelmeyer, et al & Justine Paula Hyre, et al	WB42/316	15.50
5	26.2	Pamela E. Moore	209/293	0.75
6	26.1	Deana & Gibson L. Clark III	204/87	1.50

Line	Bearing	Dist.
L1	N 24°08' W	1,368.0'
L2	S 79°34' W	1,507.1'
L3	S 69°35' W	872.5'
L4	S 67°25' W	569.9'

Legend
- Proposed gas well
- Found corner, as noted
- Creek or Drain
- Existing Road
- Surface boundary (approx.)
- Interior surface tracts (approx.)

Notes:

West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.

Well No. Honey Unit 1H Top Hole coordinates
N: 258,838.64' Latitude: 39°12'17.75"
E: 1,673,916.87' Longitude: 80°39'02.56"
Bottom Hole coordinates
N: 252,500.10' Latitude: 39°11'15.38"
E: 1,676,100.57' Longitude: 80°38'33.79"

UTM Zone 17, NAD 1983

Top Hole Coordinates	Bottom Hole Coordinates
N: 4,339,586.264m	N: 4,337,666.340m
E: 530,173.530m	E: 530,871.001m

Plat orientation and corner and well references are based upon the grid north meridian.
Well location references are based upon the magnetic meridian.

Top Hole coordinates verified by survey grade GPS. 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.

FILE NO: 69-30-NM-13
DRAWING NO: Honey Unit 1H Well Plat As-Drill
SCALE: 1" = 1000'
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: March 30 2015
OPERATOR'S WELL NO. Honey Unit 1H

API WELL NO
47 - 017 - 06420
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: Existing Grade - 1081' Original Grade - 1112' WATERSHED: Headwaters Middle Island Creek QUADRANGLE: New Milton
DISTRICT: New Milton COUNTY: Doddridge 10/23/2015
SURFACE OWNER: Michael B. Duffelmeyer, et al & Justine Paula Hyre, et al James D. Rogers, et al Charles Sherwood, et ux, et al ACREAGE: 107 163.85
ROYALTY OWNER: Joyce A. Shaw Nazelrod, et al; James D. Rooney, et al; French H. Cox, et al LEASE NO: 21054 22062 ACREAGE: 120; 384; 70.25 40
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 DEPTH: 7,091' TVD 13,591' MD

Received
JUL 20 2015

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