

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

API 47 - 017 - 06436 County Doddridge District Central
Quad Pennsboro 7.5' Pad Name Alvadore Field/Pool Name ---
Farm name McCloy, Alvadore, Jr., et ux Well Number Hudkins Unit 2H
Operator (as registered with the OOG) Antero Resources Corporation
Address 1615 Wynkoop St. 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 4347122m Easting 510124m
Landing Point of Curve Northing 4346863.15m Easting 510668.33m
Bottom Hole Northing 4345198m Easting 511461m

Elevation (ft) 1057' 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 1/30/2014 Date drilling commenced 6/15/2014 Date drilling ceased 10/20/2014
Date completion activities began 12/9/2014 Date completion activities ceased 3/13/2015
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 332' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 1546', 1571' Void(s) encountered (Y/N) depths No
Coal depth(s) ft None Identified Cavern(s) encountered (Y/N) depths No
Is coal being mined in area (Y/N) No

RECEIVED
Office of Oil and Gas
AUG 13 2015
Reviewed by: JH 8/21/15
10/23/2015

API 47-017 - 06436 Farm name McCloy, Alvadore, Jr., et ux Well number Hudkins Unit 2H

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	30"	20"	40'	New	106.5# K-55	N/A	Y
Surface	17- 1/2"	13- 3/8"	452'	New	54.50# J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2549'	New	36# J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4" & 8-1/2"	5-1/2"	13743'	New	20# P-110	N/A	Y
Tubing		2-3/8"	6804'		4.70# 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	195 sx	15.6	1.18	38	0'	8 Hrs.
Surface	Class A	540 sx	15.6	1.18	314	0'	8 Hrs.
Coal							
Intermediate 1	Class A	938 sx	15.6	1.18	2549	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	989 sx (Lead) 1106 sx (Tail)	14.5 Lead 15.2 Tail	1.30 Lead 1.86 Tail	13743	-500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 13747' MD, 6593' TVD (BHL), 6594' (Deepest Point Drilled) Loggers TD (ft) 13699'
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 6316'

Check all wireline logs run caliper density deviated/directional induction temperature neutron resistivity gamma ray 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 _____

RECEIVED
Office of Oil and Gas
AUG 03 2015
WV Department of
Environmental Protection
10/23/2015

API 47- 017 - 06436 Farm name McCloy, Alvadore, Jr., et ux Well number Hudkins Unit 2H

PRODUCING FORMATION(S)	DEPTHS
Marcellus	6448' (TOP) TVD 6918' (TOP) 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 9431 mcfpd Oil 20 bpd NGL --- bpd Water 2 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)
	0		0		
*PLEASE SEE EXHIBIT 3					

Please insert additional pages as applicable.


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

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

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

Stimulating Company Baker Hughes
Address 837 Philippi Pike City Clarksburg State WV Zip 26301

Please insert additional pages as applicable.

Completed by Kara Quackenbush Telephone 303-357-7233
Signature  Title Permitting Agent Date 7/21/2015

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

RECEIVED
Office of Oil and Gas

AUG 03 2015

WV Department of Environmental Protection
10/23/2015

EXHIBIT 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	9-Dec-14	13,490	13,657	60	Marcellus
2	28-Dec-14	13,292	13,459	60	Marcellus
3	29-Dec-14	13,094	13,261	60	Marcellus
4	31-Dec-14	12,896	13,063	60	Marcellus
5	30-Dec-14	12,698	12,865	60	Marcellus
6	30-Dec-14	12,500	12,667	60	Marcellus
7	31-Dec-14	12,302	12,469	60	Marcellus
8	31-Dec-14	12,104	12,271	60	Marcellus
9	1-Jan-15	11,906	12,073	60	Marcellus
10	1-Jan-15	11,708	11,875	60	Marcellus
11	2-Jan-15	11,510	11,677	60	Marcellus
12	3-Jan-15	11,312	11,479	60	Marcellus
13	3-Jan-15	11,114	11,281	60	Marcellus
14	3-Jan-15	10,916	11,083	60	Marcellus
15	3-Jan-15	10,719	10,886	60	Marcellus
16	4-Jan-15	10,521	10,688	60	Marcellus
17	4-Jan-15	10,323	10,490	60	Marcellus
18	5-Jan-15	10,125	10,292	60	Marcellus
19	5-Jan-15	9,927	10,094	60	Marcellus
20	6-Jan-15	9,729	9,896	60	Marcellus
21	7-Jan-15	9,531	9,698	60	Marcellus
22	6-Jan-15	9,333	9,500	60	Marcellus
23	9-Jan-15	9,135	9,302	60	Marcellus
24	9-Jan-15	8,937	9,104	60	Marcellus
25	10-Jan-15	8,739	8,906	60	Marcellus
26	11-Jan-15	8,541	8,708	60	Marcellus
27	11-Jan-15	8,343	8,510	60	Marcellus
28	12-Jan-15	8,145	8,312	60	Marcellus
29	12-Jan-15	7,947	8,114	60	Marcellus
30	13-Jan-15	7,749	7,916	60	Marcellus
31	13-Jan-15	7,551	7,718	60	Marcellus
32	15-Jan-15	7,353	7,520	60	Marcellus
33	16-Jan-15	7,155	7,322	60	Marcellus
34	17-Jan-15	6,957	7,124	60	Marcellus

RECEIVED
Office of Oil and Gas

AUG 03 2015

WV Department of
Environmental Protection
10/23/2015

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	27-Dec-14	63.0	6,879	5,656	3,948	245,519	7,136	N/A
2	28-Dec-14	55.0	6,473	5,423	7,259	195,135	6,952	N/A
3	29-Dec-14	61.0	6,505	5,694	5,156	251,880	7,430	N/A
4	31-Dec-14	62.0	6,564	5,020	4,937	243,392	6,426	N/A
5	30-Dec-14	61.0	6,308	5,573	5,103	242,944	6,565	N/A
6	30-Dec-14	66.0	6,623	5,470	5,378	234,441	7,036	N/A
7	31-Dec-14	67.0	6,600	5,507	4,943	245,170	6,484	N/A
8	31-Dec-14	65.0	6,642	5,377	4,805	246,997	6,411	N/A
9	1-Jan-15	61.0	6,325	5,695	4,904	243,325	6,452	N/A
10	1-Jan-15	63.0	6,158	5,502	5,162	247,832	6,356	N/A
11	2-Jan-15	66.0	6,491	5,795	4,955	241,595	6,312	N/A
12	3-Jan-15	62.0	6,418	5,558	5,039	249,173	6,285	N/A
13	3-Jan-15	63.0	6,454	6,032	4,911	244,581	6,311	N/A
14	3-Jan-15	62.0	6,336	5,589	4,911	244,972	6,288	N/A
15	3-Jan-15	62.0	6,206	5,394	5,072	245,225	6,710	N/A
16	4-Jan-15	63.0	6,252	5,456	5,123	248,802	6,283	N/A
17	4-Jan-15	63.0	6,743	5,950	5,124	247,820	6,294	N/A
18	5-Jan-15	60.0	6,229	6,151	5,042	244,567	6,220	N/A
19	5-Jan-15	68.0	6,398	5,865	4,754	247,231	6,220	N/A
20	6-Jan-15	64.0	6,223	5,301	4,971	244,826	6,201	N/A
21	7-Jan-15	62.0	6,171	5,302	4,928	248,352	6,256	N/A
22	6-Jan-15	64.0	6,315	5,475	5,420	246,702	6,122	N/A
23	9-Jan-15	69.0	6,299	5,072	5,067	247,919	6,741	N/A
24	9-Jan-15	63.0	6,087	5,823	5,288	235,336	6,756	N/A
25	10-Jan-15	63.0	6,087	5,302	4,847	248,125	6,137	N/A
26	11-Jan-15	63.0	6,143	5,560	4,628	246,962	6,128	N/A
27	11-Jan-15	65.0	6,002	5,475	4,714	247,349	6,172	N/A
28	12-Jan-15	63.0	5,974	5,142	5,215	244,221	6,067	N/A
29	12-Jan-15	64.0	6,044	5,403	4,831	249,105	6,214	N/A
30	13-Jan-15	67.0	6,039	5,525	5,115	195,489	6,462	N/A
31	13-Jan-15	63.0	6,274	5,753	4,514	249,127	6,031	N/A
32	15-Jan-15	63.0	5,963	5,974	5,233	245,658	6,000	N/A
33	16-Jan-15	62.7	5,796	5,779	5,253	243,446	5,962	N/A
34	17-Jan-15	62.0	5,831	5,508	4,413	249,701	6,055	N/A
	AVG=	63.3	6,290	5,562	5,028	8,252,919	217,475	TOTAL

RECEIVED
Office of Oil and Gas

AUG 03 2015

WV Department of
Environmental Protection
10/23/2015

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	332'	N/A	332'	N/A
Shale/ Sandstone	0	207	0	207
Shale/ Trace Coal	est. 207	247	est. 207	247
Sandstone	est. 247	467	est. 247	467
Shale/ Limestone	est. 467	567	est. 467	567
Sandstone	est. 567	627	est. 567	627
Shale/ Trace Limestone	est. 627	787	est. 627	787
Siltstone	est. 787	812	est. 787	812
Shale/ Limestone	est. 812	967	est. 812	967
Sandstone	est. 967	1047	est. 967	1047
Shale/ Limestone	est. 1047	1147	est. 1047	1147
Shale/ Trace Coal	est. 1147	1187	est. 1147	1187
Sandstone/ Trace Coal	est. 1187	1247	est. 1187	1247
Shale/ Trace Limestone	est. 1247	1327	est. 1247	1327
Sandstone/ Shale	est. 1327	1427	est. 1327	1427
Sandstone/ Coal	est. 1427	1567	est. 1427	1567
Shale/ Trace Coal	est. 1567	1727	est. 1567	1727
Siltstone/ Trace Coal	est. 1727	1915	est. 1727	1915
Big Lime	1915	2041	1915	2041
Big Injun	2041	2424	2041	2424
Gantz Sand	2424	2586	2424	2586
Fifty Foot Sandstone	2586	2679	2586	2679
Gordon	2679	2972	2679	2972
Fifth Sandstone	2972	3109	2972	3109
Bayard	3109	3427	3109	3427
Warren	3427	3806	3427	3811
Speechley	3806	4074	3811	4091
Baltown	4074	4504	4091	4564
Bradford	4504	4921	4564	5030
Benson	4921	5194	5030	5334
Alexander	5194	5353	5334	5511
Elk	5353	5840	5511	6048
Rhinestreet	5840	6110	6048	6349
Sycamore	6110	6270	6349	6555
Middlesex	6270	6385	6555	6745
Burkett	6385	6419	6745	6826
Tully	6419	6448	6826	6918
Marcellus	6448	NA	6918	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

AUG 03 2015

WV Department of
Environment & Natural Resources
10/23/2015

17.06436

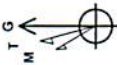


Hudkins Unit 2H
Doddridge County WV
Northing: 14261468.18
Eastings: 1673583.36
As Drilled



Well Details: Hudkins Unit 2H
 Site Center: Hudkins 2H
 Site Centre Northing: 14261468.18
 Easting: 1673583.36
 Positional Uncertainty: 2.0
 Convergence: 0.07
 Local North: Grid

PROJECT DETAILS: Doddridge County WV
 Geodetic System: Universal Transverse Mercator (US Survey Feet)
 Datum: NAD 1983 (NAD83 CONUS)
 Ellipsoid: Clarke 1866
 Zone: Zone 17N (84 W to 78 W)
 System Datum: Mean Sea Level



DESIGN TARGET DETAILS

Name	+E/-W	+N/-S	TVD	+E/-W	Northing	Eastings	Latitude	Longitude
SHL Hudkins Unit 2H	0.0	0.0	0.0	0.0	14261468.18	1673583.36	39° 16' 23.897 N	80° 52' 58.698 W
Actual BHL Hudkins Unit 2H	6593.4	-6310.8	6593.4	4389.6	14255157.39	1677972.939	15° 21' 43.7 N	80° 52' 2.377 W

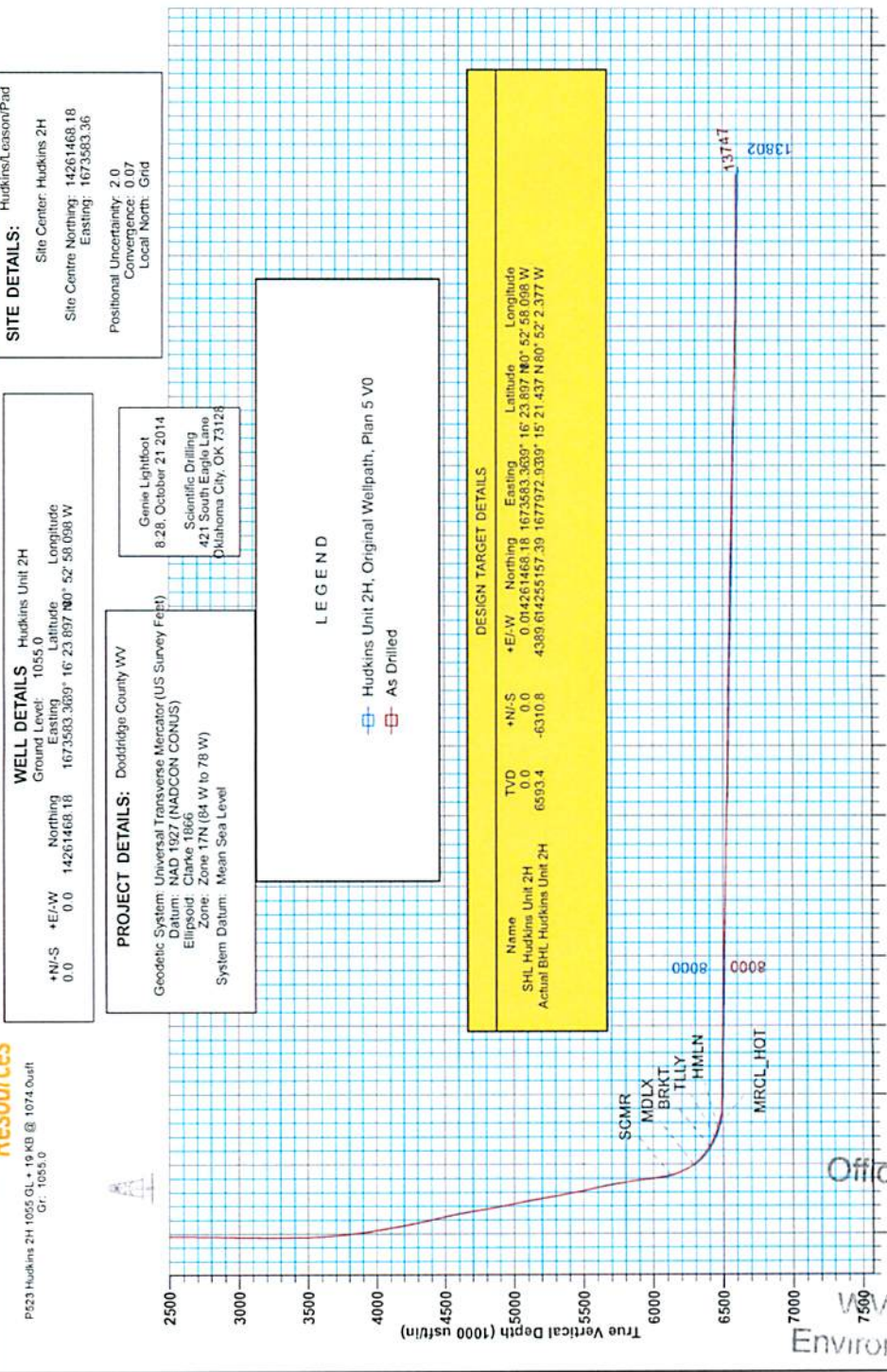
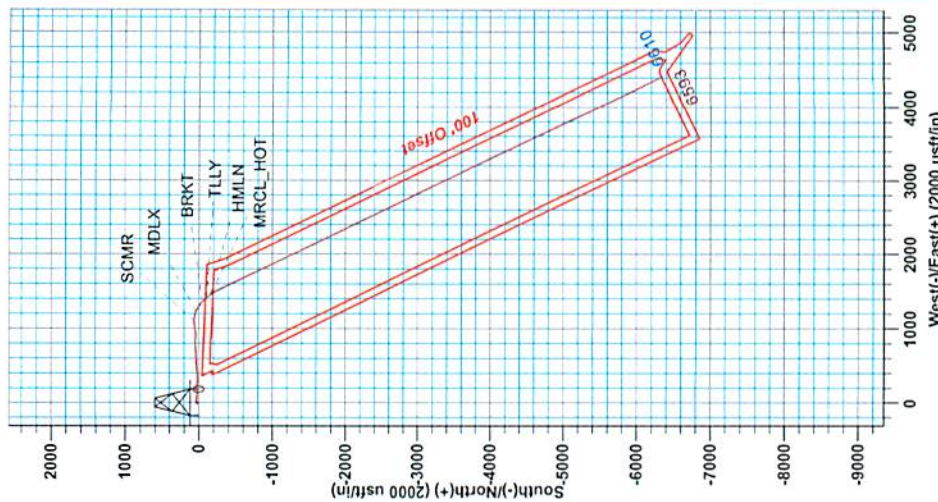
WELL DETAILS: Hudkins Unit 2H
 Ground Level: 1055.0
 Northing: 14261468.18
 Easting: 1673583.36
 Longitude: 80° 52' 58.698 W

SITE DETAILS: Hudkins/LeasonPad
 Site Center: Hudkins 2H
 Site Centre Northing: 14261468.18
 Easting: 1673583.36
 Positional Uncertainty: 2.0
 Convergence: 0.07
 Local North: Grid

LEGEND
 - - - Hudkins Unit 2H, Original Wellpath, Plan 5 VO
 - - - As Drilled

Vertical Section at 154.54" (1000 usft/in)

523 Hudkins 2H 1055.GL * 19 KB @ 1074.0usft
 Gr. 1055.0



RECEIVED
 Office of Oil and Gas
 AUG 03 2015
 WV Department of
 Environmental Protection
 10/23/2015

17-06436



Antero Resources

Doddridge County WV
Hudkins/Leason/Pad
Hudkins Unit 2H
Original Wellpath

Design: As Drilled

EOW Completion Report

20 October, 2014



RECEIVED
Office of Oil and Gas
Scientific Drilling
AUG 03 2015

WV Department of
Environmental Protection
10/23/2015

17-06436



EOW Completion Report



Company:	Antero Resources	Local Co-ordinate Reference:	Well Hudkins Unit 2H
Project:	Doddridge County WV	TVD Reference:	P523 Hudkins 2H 1055 GL + 19 KB @ 1074.0usft
Site:	Hudkins/Leason/Pad	MD Reference:	P523 Hudkins 2H 1055 GL + 19 KB @ 1074.0usft
Well:	Hudkins Unit 2H	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 Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Zone 17N (84 W to 78 W)		

Site	Hudkins/Leason/Pad		
Site Position:		Northing:	14,261,468.18 usft
From:	Map	Easting:	1,673,583.36 usft
Position Uncertainty:	2.0 usft	Slot Radius:	13-3/16"
		Latitude:	39° 16' 23.897 N
		Longitude:	80° 52' 58.098 W
		Grid Convergence:	0.07 °

Well	Hudkins Unit 2H, Marcellus		
Well Position	+N/-S	0.0 usft	Northing: 14,261,468.18 usft
	+E/-W	0.0 usft	Easting: 1,673,583.36 usft
Position Uncertainty	2.0 usft	Wellhead Elevation:	1,074.0 usft
		Latitude:	39° 16' 23.897 N
		Longitude:	80° 52' 58.098 W
		Ground Level:	1,055.0 usft

Wellbore	Original Wellpath		
-----------------	-------------------	--	--

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	EGBM2014	7/15/2014	-8.41	66.87	52,253

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	154.54

Survey Program	From (usft)	To (usft)	Date	Survey (Wellbore)	Tool Name	Description
	106.0	6,051.0	10/20/2014	Survey #3 Gyro to KOP (Original Wellpath)	SDI Standard Keeper	Scientific Drilling Intl. Standard Wireline Keeper
	6,093.0	13,747.0		Survey #4 MWD (Original Wellpath)	SDI MWD	Scientific Drilling Intl. 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
	106.0	0.70	323.73	106.0	0.5	-0.4	-0.6	0.66
	131.0	0.72	323.20	131.0	0.8	-0.6	-0.9	0.08
	156.0	0.64	331.49	156.0	1.0	-0.7	-1.2	0.51
	181.0	0.72	320.77	181.0	1.3	-0.9	-1.5	0.60
	206.0	0.71	324.86	206.0	1.5	-1.1	-1.8	0.21
	231.0	0.77	320.88	231.0	1.8	-1.3	-2.1	0.32
	256.0	0.69	321.44	256.0	2.0	-1.5	-2.5	0.32
	281.0	0.61	324.73	281.0	2.2	-1.6	-2.7	0.35
	306.0	0.42	353.71	306.0	2.4	-1.7	-3.0	1.27
	331.0	0.49	326.45	331.0	2.6	-1.8	-3.1	0.90

RECEIVED
Office of Oil and Gas
APR 03 2015
WV Department of Environmental Protection
COMPASS 5000.1 Build 70

Company:	Antero Resources	Local Co-ordinate Reference:	Well Hudkins Unit 2H
Project:	Doddridge County WV	TVD Reference:	P523 Hudkins 2H 1055 GL + 19 KB @ 1074.0usft
Site:	Hudkins/Leason/Pad	MD Reference:	P523 Hudkins 2H 1055 GL + 19 KB @ 1074.0usft
Well:	Hudkins Unit 2H	North Reference:	Grid
Wellbore:	Original Wellpath	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Oklahoma District

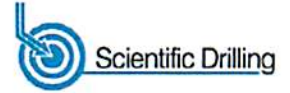
Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)		
356.0	0.39	341.80	356.0	2.8	-1.9	-3.3	0.61		
381.0	0.37	357.12	381.0	3.0	-1.9	-3.5	0.41		
406.0	0.39	353.74	406.0	3.1	-1.9	-3.6	0.12		
431.0	0.37	344.35	431.0	3.3	-2.0	-3.8	0.26		
456.0	0.37	342.06	456.0	3.4	-2.0	-4.0	0.06		
481.0	0.35	355.76	481.0	3.6	-2.0	-4.1	0.35		
506.0	0.32	342.85	506.0	3.7	-2.1	-4.3	0.32		
531.0	0.32	347.26	531.0	3.9	-2.1	-4.4	0.10		
556.0	0.30	342.95	556.0	4.0	-2.1	-4.5	0.12		
581.0	0.32	358.24	581.0	4.1	-2.2	-4.7	0.34		
606.0	0.28	358.72	606.0	4.3	-2.2	-4.8	0.16		
631.0	0.31	352.59	631.0	4.4	-2.2	-4.9	0.17		
656.0	0.36	348.29	656.0	4.5	-2.2	-5.0	0.22		
681.0	0.31	347.68	681.0	4.7	-2.2	-5.2	0.20		
706.0	0.30	354.38	706.0	4.8	-2.2	-5.3	0.15		
731.0	0.30	351.96	731.0	4.9	-2.3	-5.4	0.05		
756.0	0.31	350.31	756.0	5.1	-2.3	-5.6	0.05		
781.0	0.28	344.15	781.0	5.2	-2.3	-5.7	0.17		
806.0	0.34	352.27	806.0	5.3	-2.3	-5.8	0.30		
831.0	0.35	353.22	831.0	5.5	-2.4	-6.0	0.05		
856.0	0.37	341.37	856.0	5.6	-2.4	-6.1	0.31		
881.0	0.37	348.28	881.0	5.8	-2.4	-6.3	0.18		
906.0	0.39	348.69	906.0	5.9	-2.5	-6.4	0.08		
931.0	0.38	347.69	931.0	6.1	-2.5	-6.6	0.05		
956.0	0.44	347.20	956.0	6.3	-2.5	-6.8	0.24		
981.0	0.41	343.92	981.0	6.5	-2.6	-7.0	0.15		
1,006.0	0.45	341.12	1,006.0	6.6	-2.6	-7.1	0.18		
1,031.0	0.45	345.91	1,031.0	6.8	-2.7	-7.3	0.15		
1,056.0	0.49	339.62	1,056.0	7.0	-2.8	-7.5	0.26		
1,081.0	0.47	341.72	1,081.0	7.2	-2.8	-7.7	0.11		
1,106.0	0.55	334.65	1,106.0	7.4	-2.9	-8.0	0.41		
1,131.0	0.49	340.34	1,131.0	7.6	-3.0	-8.2	0.32		
1,156.0	0.52	338.63	1,156.0	7.8	-3.1	-8.4	0.13		
1,181.0	0.63	321.27	1,181.0	8.1	-3.2	-8.7	0.82		
1,206.0	0.60	324.38	1,206.0	8.3	-3.4	-8.9	0.18		
1,231.0	0.57	332.35	1,231.0	8.5	-3.5	-9.2	0.35		
1,256.0	0.73	316.23	1,256.0	8.7	-3.7	-9.4	0.97		
1,281.0	0.70	317.55	1,281.0	8.9	-3.9	-9.7	0.14		
1,306.0	0.60	329.90	1,306.0	9.2	-4.1	-10.0	0.69		
1,331.0	0.73	314.31	1,331.0	9.4	-4.2	-10.3	0.89		
1,356.0	0.64	320.89	1,356.0	9.6	-4.4	-10.6	0.48		
1,381.0	0.64	322.71	1,381.0	9.8	-4.6	-10.9	0.08		
1,406.0	0.69	323.81	1,405.9	10.1	-4.8	-11.1	0.21		
1,431.0	0.69	320.85	1,430.9	10.3	-5.0	-11.4	0.14		

RECEIVED
 Office of Oil and Gas
 AUG 03 10:21
 -10.0
 -10.3
 -10.6
 -10.9
 -11.4

17.06436



EOW Completion Report



Company:	Antero Resources	Local Co-ordinate Reference:	Well Hudkins Unit 2H
Project:	Doddridge County WV	TVD Reference:	P523 Hudkins 2H 1055 GL + 19 KB @ 1074.0usft
Site:	Hudkins/Leason/Pad	MD Reference:	P523 Hudkins 2H 1055 GL + 19 KB @ 1074.0usft
Well:	Hudkins Unit 2H	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)	
1,456.0	0.66	327.04	1,455.9	10.5	-5.1	-11.7	0.32	
1,481.0	0.70	321.44	1,480.9	10.8	-5.3	-12.0	0.31	
1,506.0	0.73	322.21	1,505.9	11.0	-5.5	-12.3	0.13	
1,531.0	0.69	328.24	1,530.9	11.3	-5.7	-12.6	0.34	
1,556.0	0.67	325.45	1,555.9	11.5	-5.8	-12.9	0.15	
1,581.0	0.66	329.23	1,580.9	11.8	-6.0	-13.2	0.18	
1,606.0	0.62	325.55	1,605.9	12.0	-6.2	-13.5	0.23	
1,631.0	0.75	315.51	1,630.9	12.2	-6.3	-13.8	0.71	
1,656.0	0.66	316.20	1,655.9	12.5	-6.6	-14.1	0.36	
1,681.0	0.64	313.21	1,680.9	12.7	-6.8	-14.3	0.16	
1,706.0	0.67	312.01	1,705.9	12.8	-7.0	-14.6	0.13	
1,731.0	0.66	313.09	1,730.9	13.0	-7.2	-14.9	0.06	
1,756.0	0.71	306.59	1,755.9	13.2	-7.4	-15.1	0.37	
1,781.0	0.73	306.97	1,780.9	13.4	-7.7	-15.4	0.08	
1,806.0	0.55	312.58	1,805.9	13.6	-7.9	-15.7	0.76	
1,831.0	0.66	305.89	1,830.9	13.8	-8.1	-15.9	0.52	
1,856.0	0.49	321.35	1,855.9	13.9	-8.3	-16.1	0.91	
1,881.0	0.51	313.83	1,880.9	14.1	-8.4	-16.3	0.27	
1,906.0	0.36	310.25	1,905.9	14.2	-8.6	-16.5	0.61	
1,931.0	0.33	316.00	1,930.9	14.3	-8.7	-16.7	0.18	
1,956.0	0.40	314.32	1,955.9	14.4	-8.8	-16.8	0.28	
1,981.0	0.42	315.56	1,980.9	14.6	-8.9	-17.0	0.09	
2,006.0	0.30	326.58	2,005.9	14.7	-9.0	-17.1	0.55	
2,031.0	0.37	329.26	2,030.9	14.8	-9.1	-17.3	0.29	
2,056.0	0.41	321.73	2,055.9	14.9	-9.2	-17.4	0.26	
2,081.0	0.46	311.18	2,080.9	15.1	-9.3	-17.6	0.38	
2,106.0	0.40	311.89	2,105.9	15.2	-9.4	-17.8	0.24	
2,131.0	0.46	299.35	2,130.9	15.3	-9.6	-18.0	0.45	
2,156.0	0.31	314.74	2,155.9	15.4	-9.7	-18.1	0.72	
2,181.0	0.40	305.45	2,180.9	15.5	-9.9	-18.2	0.43	
2,206.0	0.45	299.26	2,205.9	15.6	-10.0	-18.4	0.27	
2,231.0	0.37	298.08	2,230.9	15.7	-10.2	-18.5	0.32	
2,256.0	0.48	304.06	2,255.9	15.8	-10.3	-18.7	0.47	
2,281.0	0.40	298.33	2,280.9	15.9	-10.5	-18.9	0.36	
2,306.0	0.43	300.30	2,305.9	16.0	-10.6	-19.0	0.13	
2,331.0	0.46	299.33	2,330.9	16.1	-10.8	-19.2	0.12	
2,356.0	0.38	309.83	2,355.9	16.2	-11.0	-19.3	0.44	
2,381.0	0.34	306.58	2,380.9	16.3	-11.1	-19.5	0.18	
2,406.0	0.41	318.45	2,405.9	16.4	-11.2	-19.6	0.42	
2,431.0	0.40	305.64	2,430.9	16.5	-11.3	-19.8	0.36	
2,456.0	0.37	310.76	2,455.9	16.6	-11.5	-19.9	0.18	
2,481.0	0.44	307.73	2,480.9	16.7	-11.6	-20.1	0.29	
2,506.0	0.40	320.65	2,505.9	16.8	-11.7	-20.3	0.31	
2,531.0	0.31	313.89	2,530.9	17.0	-11.8	-20.4	0.40	
2,556.0	0.52	302.32	2,555.9	17.1	-12.0	-20.6	0.90	

RECEIVED
Office of Oil and Gas
AUG 03 2015
WV Department of Environmental Protection

17.06436



EOW Completion Report



Company:	Antero Resources	Local Co-ordinate Reference:	Well Hudkins Unit 2H
Project:	Doddridge County WV	TVD Reference:	P523 Hudkins 2H 1055 GL + 19 KB @ 1074.0usft
Site:	Hudkins/Leason/Pad	MD Reference:	P523 Hudkins 2H 1055 GL + 19 KB @ 1074.0usft
Well:	Hudkins Unit 2H	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)	
2,581.0	0.45	310.96	2,580.9	17.2	-12.2	-20.8	0.40	
2,606.0	0.43	315.76	2,605.9	17.3	-12.3	-20.9	0.17	
2,631.0	0.53	311.40	2,630.9	17.5	-12.5	-21.1	0.43	
2,656.0	0.64	314.21	2,655.9	17.6	-12.6	-21.4	0.45	
2,681.0	0.59	305.72	2,680.9	17.8	-12.8	-21.6	0.42	
2,706.0	0.58	306.14	2,705.9	18.0	-13.0	-21.8	0.04	
2,731.0	0.58	305.19	2,730.9	18.1	-13.3	-22.1	0.04	
2,756.0	0.65	308.26	2,755.9	18.3	-13.5	-22.3	0.31	
2,781.0	0.54	309.97	2,780.9	18.4	-13.7	-22.5	0.45	
2,806.0	0.68	301.93	2,805.9	18.6	-13.9	-22.8	0.66	
2,831.0	0.67	301.79	2,830.9	18.7	-14.1	-23.0	0.04	
2,856.0	0.56	307.36	2,855.9	18.9	-14.4	-23.2	0.50	
2,881.0	0.62	302.83	2,880.9	19.0	-14.6	-23.5	0.30	
2,906.0	0.70	299.48	2,905.9	19.2	-14.8	-23.7	0.36	
2,931.0	0.67	300.60	2,930.9	19.3	-15.1	-23.9	0.13	
2,956.0	0.65	294.81	2,955.9	19.5	-15.3	-24.2	0.28	
2,981.0	0.64	305.86	2,980.9	19.6	-15.6	-24.4	0.50	
3,006.0	0.56	325.14	3,005.9	19.8	-15.8	-24.7	0.86	
3,031.0	0.64	315.85	3,030.9	20.0	-15.9	-24.9	0.50	
3,056.0	0.60	313.44	3,055.9	20.2	-16.1	-25.2	0.19	
3,081.0	0.54	318.63	3,080.9	20.4	-16.3	-25.4	0.32	
3,106.0	0.59	326.55	3,105.9	20.6	-16.4	-25.6	0.37	
3,131.0	0.41	345.37	3,130.9	20.8	-16.5	-25.8	0.97	
3,156.0	0.53	311.24	3,155.9	20.9	-16.6	-26.0	1.19	
3,181.0	0.62	305.11	3,180.9	21.1	-16.8	-26.3	0.44	
3,206.0	0.61	306.35	3,205.9	21.2	-17.1	-26.5	0.07	
3,231.0	0.55	312.47	3,230.9	21.4	-17.2	-26.7	0.34	
3,256.0	0.52	314.54	3,255.9	21.6	-17.4	-26.9	0.14	
3,281.0	0.50	4.44	3,280.9	21.7	-17.5	-27.1	1.72	
3,306.0	1.28	50.54	3,305.9	22.0	-17.3	-27.3	4.00	
3,331.0	2.45	65.06	3,330.8	22.4	-16.6	-27.4	5.01	
3,356.0	3.58	67.26	3,355.8	23.0	-15.4	-27.3	4.54	
3,381.0	4.97	65.41	3,380.7	23.7	-13.7	-27.3	5.59	
3,406.0	6.43	69.17	3,405.6	24.7	-11.4	-27.1	6.02	
3,431.0	7.70	72.34	3,430.4	25.7	-8.5	-26.8	5.31	
3,456.0	8.10	72.77	3,455.2	26.7	-5.2	-26.3	1.62	
3,481.0	7.97	72.20	3,479.9	27.7	-1.9	-25.8	0.61	
3,506.0	8.13	72.67	3,504.7	28.8	1.5	-25.4	0.69	
3,531.0	7.89	73.88	3,529.5	29.8	4.8	-24.8	0.17	
3,556.0	7.81	76.23	3,554.2	30.7	8.1	-24.2	1.32	
3,581.0	7.72	80.59	3,579.0	31.4	11.4	-23.4	2.38	
3,606.0	7.78	87.87	3,603.8	31.7	14.8	-22.3	3.93	
3,631.0	8.16	92.77	3,628.5	31.7	18.2	-20.8	3.11	
3,656.0	8.33	93.77	3,653.3	31.5	21.8	-19.0	0.89	

RECEIVED
 Office of Oil and Gas
 AUG 13 2015
 WV Department of
 Environmental Protection

17-06436



EOW Completion Report



Company:	Antero Resources	Local Co-ordinate Reference:	Well Hudkins Unit 2H
Project:	Doddridge County WV	TVD Reference:	P523 Hudkins 2H 1055 GL + 19 KB @ 1074.0usft
Site:	Hudkins/Leason/Pad	MD Reference:	P523 Hudkins 2H 1055 GL + 19 KB @ 1074.0usft
Well:	Hudkins Unit 2H	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)	
3,681.0	8.55	94.42		3,678.0	31.2	25.5	-17.2		0.96
3,706.0	8.86	96.47		3,702.7	30.9	29.2	-15.3		1.75
3,731.0	9.54	97.94		3,727.4	30.3	33.2	-13.1		2.88
3,756.0	10.22	99.29		3,752.0	29.7	37.4	-10.7		2.87
3,781.0	10.87	99.39		3,776.6	29.0	42.0	-8.1		2.60
3,806.0	11.39	98.59		3,801.1	28.2	46.7	-5.4		2.17
3,831.0	12.11	96.97		3,825.6	27.5	51.8	-2.6		3.17
3,856.0	12.93	96.22		3,850.0	26.9	57.2	0.3		3.34
3,881.0	14.02	96.39		3,874.3	26.3	62.9	3.3		4.36
3,906.0	14.72	96.25		3,898.5	25.6	69.1	6.6		2.80
3,931.0	15.66	96.04		3,922.7	24.9	75.6	10.0		3.77
3,956.0	16.69	95.85		3,946.7	24.2	82.6	13.7		4.13
3,981.0	17.55	96.15		3,970.6	23.4	89.9	17.5		3.46
4,006.0	18.60	95.33		3,994.3	22.6	97.6	21.5		4.32
4,031.0	19.23	94.72		4,018.0	21.9	105.7	25.6		2.64
4,056.0	19.67	94.14		4,041.5	21.3	114.0	29.8		1.92
4,081.0	20.11	93.32		4,065.1	20.7	122.5	33.9		2.08
4,106.0	20.94	92.70		4,088.5	20.2	131.2	38.1		3.43
4,131.0	21.37	91.89		4,111.8	19.9	140.2	42.3		2.08
4,156.0	22.25	91.09		4,135.0	19.6	149.5	46.5		3.72
4,181.0	22.93	90.13		4,158.1	19.5	159.1	50.7		3.09
4,206.0	23.56	88.10		4,181.0	19.7	169.0	54.8		4.08
4,231.0	24.37	85.89		4,203.9	20.2	179.1	58.7		4.84
4,256.0	24.78	85.24		4,226.6	21.0	189.5	62.5		1.96
4,281.0	24.99	85.35		4,249.3	21.9	200.0	66.2		0.86
4,306.0	25.23	85.99		4,271.9	22.7	210.5	70.0		1.45
4,331.0	25.01	88.71		4,294.6	23.2	221.1	74.1		4.70
4,356.0	24.92	91.49		4,317.2	23.2	231.7	78.7		4.71
4,381.0	25.27	93.44		4,339.9	22.7	242.3	83.6		3.59
4,406.0	25.56	94.37		4,362.5	22.0	253.0	88.9		1.97
4,431.0	25.93	94.49		4,385.0	21.2	263.8	94.3		1.49
4,456.0	26.15	94.44		4,407.4	20.3	274.7	99.8		0.88
4,481.0	26.26	93.70		4,429.9	19.5	285.8	105.2		1.38
4,506.0	26.53	93.49		4,452.3	18.8	296.9	110.6		1.14
4,531.0	26.81	92.67		4,474.6	18.2	308.1	116.0		1.85
4,556.0	27.22	91.22		4,496.9	17.8	319.4	121.2		3.10
4,581.0	27.41	89.88		4,519.1	17.7	330.9	126.2		2.57
4,606.0	27.52	89.25		4,541.3	17.8	342.4	131.1		1.24
4,631.0	27.53	88.18		4,563.4	18.1	354.0	135.8		1.98
4,656.0	27.30	87.29		4,585.6	18.5	365.5	140.4		1.88
4,681.0	27.65	86.71		4,607.8	19.1	377.0	144.8		1.76
4,706.0	27.14	86.02		4,630.0	19.9	388.5	149.1		2.40
4,731.0	26.65	84.65		4,652.3	20.8	399.7	153.1		3.16
4,756.0	26.59	83.90		4,674.7	21.9	410.9	156.9		1.37

RECEIVED
Office of Oil and Gas
AUG 03 2014
WV Department of Environmental Protection

17.06436



EOW Completion Report



Company:	Antero Resources	Local Co-ordinate Reference:	Well Hudkins Unit 2H
Project:	Doddridge County WV	TVD Reference:	P523 Hudkins 2H 1055 GL + 19 KB @ 1074.0usft
Site:	Hudkins/Leason/Pad	MD Reference:	P523 Hudkins 2H 1055 GL + 19 KB @ 1074.0usft
Well:	Hudkins Unit 2H	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)	EW (usft)	V. Sec (usft)	DLeg (°/100usft)		
4,781.0	26.51	83.42	4,697.0	23.1	422.0	160.5	0.92		
4,806.0	26.34	83.10	4,719.4	24.4	433.0	164.1	0.89		
4,831.0	25.75	83.18	4,741.9	25.7	443.9	167.6	2.36		
4,856.0	25.63	83.48	4,764.4	27.0	454.7	171.1	0.71		
4,881.0	25.39	84.70	4,787.0	28.1	465.4	174.7	2.31		
4,906.0	25.44	85.91	4,809.5	29.0	476.1	178.5	2.09		
4,931.0	25.61	86.81	4,832.1	29.7	486.8	182.5	1.69		
4,956.0	25.74	87.25	4,854.6	30.2	497.7	186.6	0.92		
4,981.0	26.02	87.32	4,877.1	30.7	508.6	190.9	1.13		
5,006.0	26.19	87.75	4,899.6	31.2	519.5	195.2	1.02		
5,031.0	26.56	88.31	4,922.0	31.6	530.6	199.6	1.78		
5,056.0	27.11	88.90	4,944.3	31.9	541.9	204.2	2.44		
5,081.0	27.57	88.76	4,966.5	32.1	553.4	208.9	1.86		
5,106.0	27.61	88.85	4,988.7	32.4	565.0	213.7	0.23		
5,131.0	27.29	87.95	5,010.8	32.7	576.5	218.3	2.10		
5,156.0	26.78	86.83	5,033.1	33.2	587.9	222.7	2.88		
5,181.0	26.09	85.75	5,055.5	33.9	599.0	226.9	3.36		
5,206.0	25.76	85.37	5,078.0	34.8	609.9	230.8	1.48		
5,231.0	25.72	85.89	5,100.5	35.6	620.7	234.7	0.92		
5,256.0	25.51	86.56	5,123.0	36.3	631.5	238.7	1.43		
5,281.0	25.71	87.07	5,145.6	36.9	642.3	242.8	1.19		
5,306.0	26.02	86.96	5,168.1	37.5	653.2	247.0	1.25		
5,331.0	26.01	86.79	5,190.5	38.1	664.1	251.1	0.30		
5,356.0	25.56	86.53	5,213.1	38.7	675.0	255.2	1.86		
5,381.0	25.35	86.47	5,235.6	39.3	685.7	259.2	0.85		
5,406.0	25.33	86.90	5,258.2	40.0	696.4	263.3	0.74		
5,431.0	25.75	87.69	5,280.8	40.5	707.1	267.4	2.16		
5,456.0	25.82	88.04	5,303.3	40.9	718.0	271.7	0.67		
5,481.0	25.23	87.65	5,325.9	41.3	728.8	276.0	2.45		
5,506.0	25.03	87.16	5,348.5	41.8	739.4	280.1	1.15		
5,531.0	25.09	87.18	5,371.1	42.3	749.9	284.2	0.24		
5,556.0	25.20	87.08	5,393.8	42.8	760.6	288.3	0.47		
5,581.0	25.51	87.02	5,416.4	43.4	771.2	292.4	1.24		
5,606.0	25.93	88.28	5,438.9	43.8	782.1	296.6	2.76		
5,631.0	25.98	89.54	5,461.4	44.0	793.0	301.2	2.21		
5,656.0	25.70	90.45	5,483.9	44.0	803.9	305.8	1.94		
5,681.0	25.16	90.74	5,506.4	43.9	814.7	310.6	2.22		
5,706.0	25.10	91.78	5,529.1	43.7	825.3	315.3	1.78		
5,731.0	25.48	92.21	5,551.7	43.3	835.9	320.2	1.69		
5,756.0	26.16	92.51	5,574.2	42.9	846.8	325.3	2.77		
5,781.0	26.57	92.37	5,596.6	42.4	857.9	330.5	1.66		
5,806.0	26.45	92.10	5,618.9	42.0	869.1	335.7	0.68		
5,831.0	25.47	91.44	5,641.4	41.6	880.0	340.7	4.09		
5,856.0	24.64	90.82	5,664.1	41.4	890.6	345.5	3.48		

RECEIVED
 Office of Oil and Gas
 AUG 13 2015

17-06436



EOW Completion Report



Company:	Antero Resources	Local Co-ordinate Reference:	Well Hudkins Unit 2H
Project:	Doddridge County WV	TVD Reference:	P523 Hudkins 2H 1055 GL + 19 KB @ 1074.0usft
Site:	Hudkins/Leason/Pad	MD Reference:	P523 Hudkins 2H 1055 GL + 19 KB @ 1074.0usft
Well:	Hudkins Unit 2H	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)	
5,881.0	24.27	90.47	5,686.8	41.3	900.9	350.0	1.59	
5,906.0	23.44	89.61	5,709.7	41.3	911.0	354.4	3.60	
5,931.0	23.06	88.92	5,732.7	41.4	920.9	358.5	1.87	
5,956.0	22.86	88.27	5,755.7	41.6	930.7	362.5	1.29	
5,981.0	23.36	87.58	5,778.7	42.0	940.5	366.4	2.27	
6,006.0	23.51	87.07	5,801.6	42.5	950.4	370.2	1.01	
6,031.0	23.85	84.80	5,824.5	43.2	960.4	373.9	3.89	
6,051.0	24.45	83.20	5,842.8	44.0	968.5	376.6	4.44	
6,093.0	24.61	80.96	5,881.0	46.4	985.8	381.9	2.25	
6,138.0	24.45	80.60	5,921.9	49.4	1,004.3	387.1	0.49	
6,168.0	24.82	80.83	5,949.2	51.4	1,016.6	390.6	1.27	
6,198.0	24.25	79.90	5,976.5	53.5	1,028.9	394.0	2.29	
6,227.0	23.99	79.94	6,002.9	55.6	1,040.5	397.1	0.90	
6,257.0	23.83	79.50	6,030.4	57.8	1,052.5	400.3	0.80	
6,287.0	24.05	80.13	6,057.8	59.9	1,064.5	403.5	1.12	
6,316.0	26.42	83.99	6,084.0	61.6	1,076.7	407.2	9.95	
6,347.0	29.52	88.87	6,111.4	62.5	1,091.2	412.7	12.42	
6,368.0	32.11	91.55	6,129.4	62.4	1,102.0	417.3	13.94	
SCMR								
6,377.0	33.23	92.58	6,137.0	62.3	1,106.8	419.6	13.94	
6,406.0	36.36	96.24	6,160.8	61.0	1,123.3	427.8	12.97	
6,436.0	38.94	98.23	6,184.6	58.7	1,141.5	437.7	9.51	
6,466.0	38.93	98.30	6,207.9	55.9	1,160.2	448.2	0.15	
6,495.0	39.65	101.50	6,230.4	52.8	1,178.2	458.8	7.41	
6,525.0	41.24	106.39	6,253.2	48.1	1,197.1	471.2	11.82	
6,555.0	43.60	111.51	6,275.3	41.5	1,216.2	485.4	13.94	
6,574.0	45.52	114.52	6,288.9	36.3	1,228.5	495.3	15.00	
MDLX								
6,585.0	46.66	116.17	6,296.5	32.9	1,235.7	501.5	15.00	
6,615.0	48.63	119.65	6,316.7	22.5	1,255.2	519.3	10.80	
6,645.0	51.19	122.56	6,336.0	10.6	1,274.9	538.4	11.31	
6,674.0	53.54	125.52	6,353.8	-2.2	1,293.9	558.2	11.44	
6,704.0	55.19	127.88	6,371.2	-16.8	1,313.4	579.8	8.43	
6,734.0	57.09	129.61	6,387.9	-32.4	1,332.9	602.2	7.94	
6,764.0	59.79	131.92	6,403.6	-49.1	1,352.2	625.6	11.14	
BRKT								
6,794.0	63.67	134.17	6,417.9	-67.1	1,371.5	650.2	14.52	
6,824.0	66.81	136.68	6,430.4	-86.5	1,390.6	675.0	12.93	
6,845.0	68.82	138.10	6,438.4	-100.8	1,403.8	694.5	11.44	
TLLY								
6,853.0	69.59	138.63	6,441.2	-106.4	1,408.8	701.7	11.44	
6,883.0	71.73	140.70	6,451.1	-128.0	1,427.1	729.0	9.66	
6,913.0	72.64	143.20	6,460.3	-150.5	1,444.7	756.9	8.49	
6,915.0	72.77	143.34	6,460.9	-152.0	1,445.8	758.8	9.40	
HMLN								

RECEIVED
Office of Oil and Gas
701.7 11.44
729.0 9.66
756.9 8.49
758.8 9.40
WV Department of
Environmental Protection

Company:	Antero Resources	Local Co-ordinate Reference:	Well Hudkins Unit 2H
Project:	Doddridge County WV	TVD Reference:	P523 Hudkins 2H 1055 GL + 19 KB @ 1074.0usft
Site:	Hudkins/Leason/Pad	MD Reference:	P523 Hudkins 2H 1055 GL + 19 KB @ 1074.0usft
Well:	Hudkins Unit 2H	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)	
6,937.0	74.25	144.85	6,467.1	-169.1	1,458.2	779.5	9.40	
MRCL_HOT								
6,943.0	74.65	145.26	6,468.8	-173.8	1,461.5	785.2	9.40	
6,973.0	76.77	147.33	6,476.2	-198.0	1,477.6	814.0	9.73	
7,003.0	79.37	149.31	6,482.4	-223.0	1,493.0	843.2	10.81	
7,031.0	82.70	151.35	6,486.7	-247.0	1,506.7	870.7	13.90	
7,062.0	87.68	154.32	6,489.3	-274.5	1,520.8	901.6	18.69	
7,152.0	89.23	155.03	6,491.8	-355.8	1,559.3	991.6	1.89	
7,241.0	89.53	155.32	6,492.7	-436.6	1,596.7	1,080.6	0.47	
7,331.0	89.87	155.37	6,493.2	-518.4	1,634.2	1,170.6	0.38	
7,421.0	88.93	155.33	6,494.1	-600.2	1,671.7	1,260.5	1.05	
7,510.0	88.22	155.80	6,496.3	-681.2	1,708.5	1,349.5	0.96	
7,600.0	88.39	154.28	6,499.0	-762.7	1,746.5	1,439.5	1.70	
7,695.0	90.37	155.35	6,500.0	-848.7	1,786.9	1,534.4	2.37	
7,789.0	89.60	154.49	6,500.1	-933.8	1,826.8	1,628.4	1.23	
7,884.0	89.39	154.14	6,500.9	-1,019.4	1,868.0	1,723.4	0.43	
7,979.0	89.46	154.37	6,501.8	-1,105.0	1,909.2	1,818.4	0.25	
8,074.0	89.29	153.13	6,502.9	-1,190.2	1,951.2	1,913.4	1.32	
8,169.0	88.15	155.17	6,505.0	-1,275.7	1,992.6	2,008.4	2.46	
8,263.0	87.75	154.48	6,508.4	-1,360.7	2,032.6	2,102.3	0.85	
8,358.0	88.69	154.89	6,511.3	-1,446.5	2,073.2	2,197.3	1.08	
8,453.0	89.13	154.70	6,513.1	-1,532.5	2,113.6	2,292.2	0.50	
8,548.0	88.39	155.20	6,515.2	-1,618.5	2,153.9	2,387.2	0.94	
8,642.0	88.25	154.04	6,517.9	-1,703.4	2,194.1	2,481.2	1.24	
8,736.0	88.56	153.84	6,520.6	-1,787.8	2,235.4	2,575.1	0.39	
8,825.0	88.89	153.84	6,522.5	-1,867.7	2,274.6	2,664.1	0.37	
8,915.0	89.33	153.97	6,523.9	-1,948.5	2,314.2	2,754.1	0.51	
9,004.0	89.02	154.05	6,525.2	-2,028.5	2,353.2	2,843.1	0.36	
9,094.0	88.86	154.57	6,526.9	-2,109.6	2,392.2	2,933.1	0.60	
9,183.0	88.63	154.53	6,528.8	-2,189.9	2,430.5	3,022.0	0.26	
9,273.0	88.15	154.43	6,531.4	-2,271.1	2,469.2	3,112.0	0.54	
9,363.0	88.08	154.32	6,534.3	-2,352.2	2,508.1	3,202.0	0.14	
9,452.0	90.03	155.35	6,535.8	-2,432.7	2,546.0	3,290.9	2.48	
9,542.0	90.17	155.41	6,535.6	-2,514.6	2,583.5	3,380.9	0.17	
9,631.0	89.46	155.60	6,535.9	-2,595.5	2,620.4	3,469.9	0.83	
9,721.0	89.66	154.18	6,536.6	-2,677.0	2,658.5	3,559.9	1.59	
9,810.0	89.53	153.92	6,537.2	-2,757.1	2,697.5	3,648.9	0.33	
9,900.0	89.40	153.65	6,538.1	-2,837.8	2,737.2	3,738.9	0.33	
9,989.0	89.36	153.74	6,539.0	-2,917.6	2,776.7	3,827.9	0.11	
10,079.0	88.81	154.91	6,540.5	-2,998.7	2,815.7	3,917.9	1.44	
10,169.0	88.79	155.01	6,542.4	-3,080.2	2,853.8	4,007.8	0.11	
10,258.0	88.72	154.76	6,544.3	-3,160.8	2,891.5	4,096.8	0.29	
10,348.0	89.19	154.81	6,545.9	-3,242.2	2,929.9	4,186.8	0.53	
10,437.0	89.16	154.93	6,547.2	-3,322.7	2,967.6	4,275.8	0.14	

RECEIVED
 Office of Oil and Gas
 AUG 03 2015
 WV Department of Environmental Protection

Company:	Antero Resources	Local Co-ordinate Reference:	Well Hudkins Unit 2H
Project:	Doddridge County WV	TVD Reference:	P523 Hudkins 2H 1055 GL + 19 KB @ 1074.0usft
Site:	Hudkins/Leason/Pad	MD Reference:	P523 Hudkins 2H 1055 GL + 19 KB @ 1074.0usft
Well:	Hudkins Unit 2H	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)	EW (usft)	V. Sec (usft)	DLeg (°/100usft)
10,527.0	89.23	155.25	6,548.5	-3,404.4	3,005.6	4,365.8	0.36
10,616.0	89.26	155.43	6,549.7	-3,485.2	3,042.7	4,454.8	0.21
10,706.0	89.40	154.01	6,550.7	-3,566.6	3,081.1	4,544.8	1.59
10,796.0	89.26	153.54	6,551.8	-3,647.3	3,120.9	4,634.7	0.54
10,885.0	88.99	153.26	6,553.1	-3,726.9	3,160.7	4,723.7	0.44
10,975.0	89.06	154.17	6,554.6	-3,807.6	3,200.6	4,813.7	1.01
11,064.0	88.76	153.57	6,556.3	-3,887.5	3,239.8	4,902.7	0.75
11,154.0	88.25	154.24	6,558.7	-3,968.3	3,279.3	4,992.6	0.94
11,244.0	88.56	154.55	6,561.2	-4,049.4	3,318.2	5,082.6	0.49
11,333.0	88.62	154.39	6,563.4	-4,129.7	3,356.6	5,171.6	0.19
11,423.0	89.70	155.24	6,564.7	-4,211.1	3,394.9	5,261.6	1.53
11,512.0	89.53	155.05	6,565.3	-4,291.9	3,432.3	5,350.5	0.29
11,602.0	89.40	155.38	6,566.1	-4,373.6	3,470.0	5,440.5	0.39
11,691.0	88.99	154.96	6,567.4	-4,454.4	3,507.4	5,529.5	0.66
11,781.0	89.34	155.00	6,568.7	-4,535.9	3,545.4	5,619.5	0.39
11,870.0	89.26	154.32	6,569.8	-4,616.3	3,583.5	5,708.5	0.77
11,960.0	86.95	153.29	6,572.8	-4,697.0	3,623.2	5,798.4	2.81
12,050.0	87.78	154.64	6,576.9	-4,777.8	3,662.7	5,888.3	1.76
12,139.0	87.51	154.31	6,580.6	-4,858.1	3,701.0	5,977.3	0.48
12,229.0	89.13	155.14	6,583.2	-4,939.4	3,739.4	6,067.2	2.02
12,319.0	89.03	153.99	6,584.6	-5,020.7	3,778.0	6,157.2	1.28
12,408.0	88.99	153.18	6,586.2	-5,100.4	3,817.6	6,246.2	0.91
12,498.0	88.55	154.73	6,588.1	-5,181.2	3,857.1	6,336.1	1.79
12,587.0	88.56	155.91	6,590.4	-5,262.1	3,894.3	6,425.1	1.33
12,677.0	89.87	156.41	6,591.6	-5,344.4	3,930.7	6,515.1	1.56
12,767.0	90.24	156.41	6,591.5	-5,426.8	3,966.7	6,605.0	0.41
12,856.0	89.66	154.61	6,591.6	-5,507.8	4,003.6	6,694.0	2.12
12,946.0	89.90	154.37	6,591.9	-5,589.1	4,042.3	6,784.0	0.38
13,035.0	89.39	155.14	6,592.5	-5,669.6	4,080.3	6,873.0	1.04
13,125.0	89.40	154.71	6,593.4	-5,751.1	4,118.4	6,963.0	0.48
13,215.0	90.50	155.09	6,593.5	-5,832.6	4,156.6	7,053.0	1.29
13,304.0	89.80	153.87	6,593.3	-5,912.9	4,194.9	7,142.0	1.58
13,393.0	89.73	153.41	6,593.6	-5,992.6	4,234.5	7,231.0	0.52
13,483.0	90.03	152.69	6,593.8	-6,072.9	4,275.3	7,320.9	0.87
13,573.0	89.80	154.05	6,594.0	-6,153.3	4,315.6	7,410.9	1.53
13,662.0	90.27	154.84	6,593.9	-6,233.6	4,354.0	7,499.9	1.03
13,690.0	90.34	155.11	6,593.8	-6,259.0	4,365.8	7,527.9	1.00
13,747.0	90.48	155.66	6,593.4	-6,310.8	4,389.6	7,584.9	1.00

RECEIVED
Office of Oil and Gas

AUG 03 2015

WV Department of
Environmental Protection
10/23/2015

17-06436



EOW Completion Report



Company:	Antero Resources	Local Co-ordinate Reference:	Well Hudkins Unit 2H
Project:	Doddridge County WV	TVD Reference:	P523 Hudkins 2H 1055 GL + 19 KB @ 1074.0usft
Site:	Hudkins/Leason/Pad	MD Reference:	P523 Hudkins 2H 1055 GL + 19 KB @ 1074.0usft
Well:	Hudkins Unit 2H	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		Comment
		+N/-S (usft)	+E/-W (usft)	
6,368.0	6,129.4	62.4	1,102.0	SCMR
6,574.0	6,288.9	36.3	1,228.5	MDLX
6,764.0	6,403.6	-49.1	1,352.2	BRKT
6,845.0	6,438.4	-100.8	1,403.8	TLLY
6,915.0	6,460.9	-152.0	1,445.8	HMLN
6,937.0	6,467.1	-169.1	1,458.2	MRCL_HOT

Checked By: _____ Approved By: _____ Date: _____

RECEIVED
Office of Oil and Gas
AUG 03 2015
WV Department of
Environmental Protection

17-06436

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	12/27/2014
Job End Date:	1/17/2015
State:	West Virginia
County:	Doddridge
API Number:	47-017-06436-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Huddkins Unit 2H
Longitude:	-80.88263100
Latitude:	39.27338900
Datum:	NAD83
Federal/Tribal Well:	NO
True Vertical Depth:	6,594
Total Base Water Volume (gal):	6,882,708
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	Operator	Carrier	Water	7732-18-5	100.00000	89.97995	
Sand, White, 40/70	Baker Hughes	Proppant	MSDS and Non-MSDS Ingredients Listed Below	N/A		5.23388	
Sand, White, 20/40	Baker Hughes	Proppant	MSDS and Non-MSDS Ingredients Listed Below	N/A		3.49278	
Sand, White, 100 mesh	Baker Hughes	Proppant	MSDS and Non-MSDS Ingredients Listed Below	N/A		0.84294	
HCl, 10.1 - 15%	Baker Hughes	Acidizing	MSDS and Non-MSDS Ingredients Listed Below	N/A		0.17347	SmartCare Product
GW-3LDF	Baker Hughes	Gelling Agent	MSDS and Non-MSDS Ingredients Listed Below	N/A		0.07418	SmartCare Product
FRW-18	Baker Hughes	Friction Reducer	MSDS and Non-MSDS Ingredients Listed Below	N/A		0.05591	SmartCare Product
Calcium Chloride	Baker Hughes	Salts	MSDS and Non-MSDS Ingredients Listed Below	N/A		0.02417	

17-06436

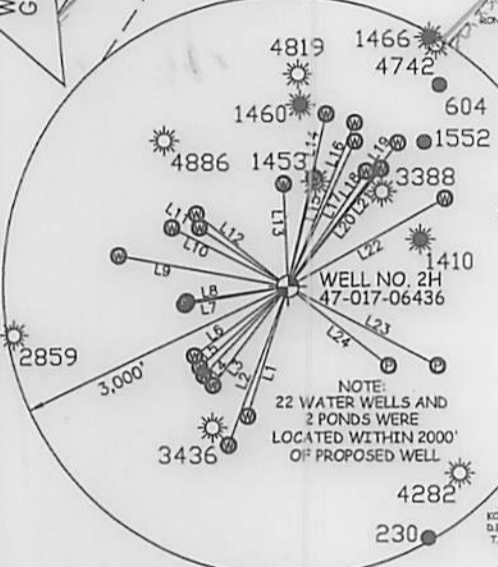
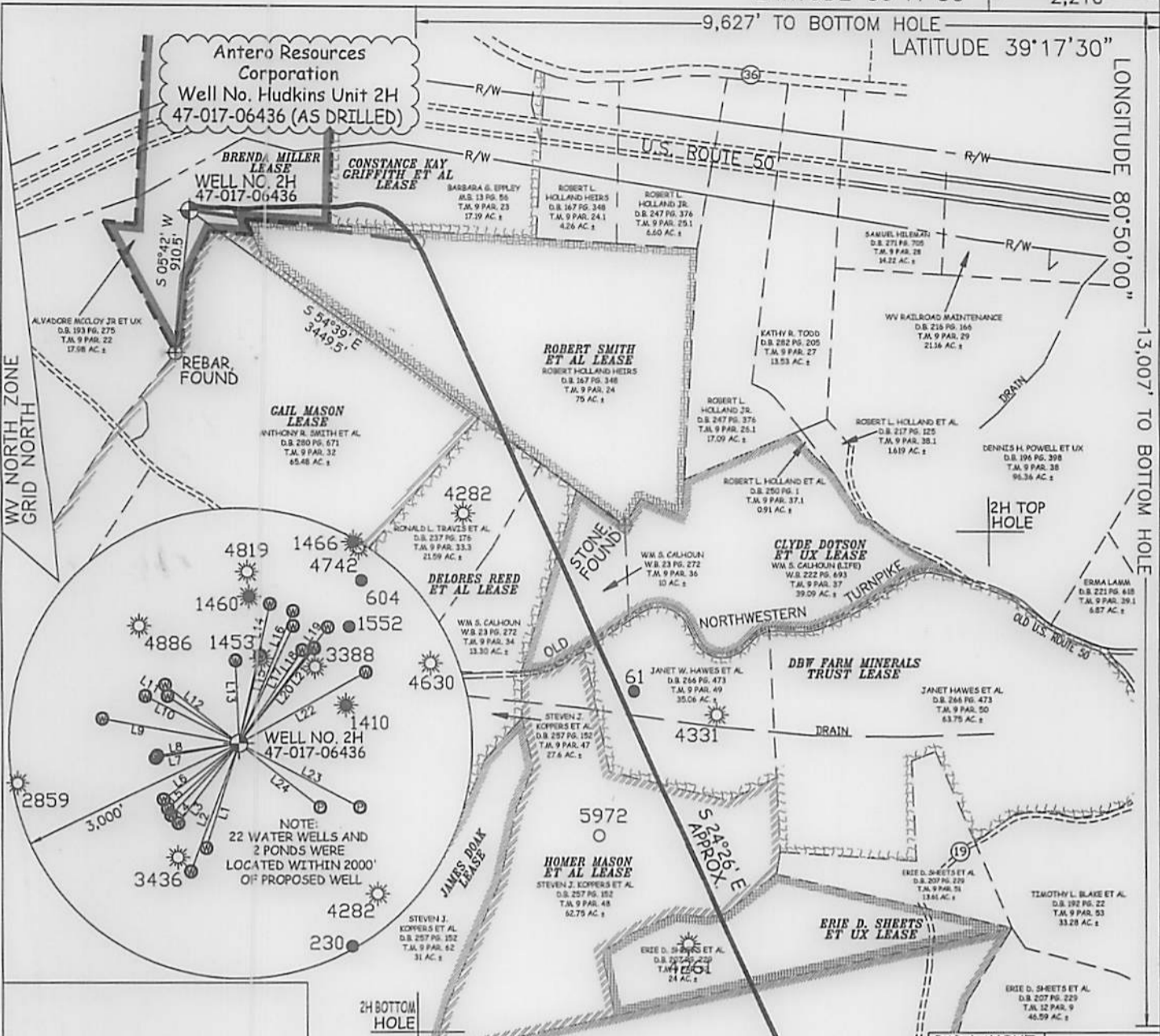
Scaletrol 720	Baker Hughes	Scale Inhibitor	MSDS and Non-MSDS Ingredients Listed Below	N/A			0.01456	SmartCare Product
Alpha 1427	Baker Hughes	Biocide	MSDS and Non-MSDS Ingredients Listed Below	N/A			0.01218	SmartCare Product
Enzyme G-NE	Baker Hughes	Breaker	MSDS and Non-MSDS Ingredients Listed Below	N/A			0.01123	SmartCare Product
Ferrolrol 300L	Baker Hughes	Iron Control	MSDS and Non-MSDS Ingredients Listed Below	N/A			0.00124	SmartCare Product
CI-39	Baker Hughes	Corrosion Inhibitor	MSDS and Non-MSDS Ingredients Listed Below	N/A			0.00036	
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.								
Ingredients in Additive Baker Hughes			See Trade Name(s) List					
			Crystalline Silica (Quartz)	14808-60-7		100.00000	9.56077	
			Water	7732-18-5		95.00000	0.19554	
			Mineral Oil	8042-47-5		70.00000	0.05188	
			Guar Gum	9000-30-0		60.00000	0.04447	
			Hydrochloric Acid	7647-01-0		15.00000	0.02600	
			Calcium Chloride	10043-52-4		100.00000	0.02487	
			Paraffinic Petroleum Distillate	64742-55-8		30.00000	0.02223	
			Petroleum Distillates	64742-47-8		30.00000	0.02223	
			Hydrotreated Light Distillate	64742-47-8		30.00000	0.01676	
			Poly (acrylamide-co-acrylic acid) partial sodium salt	62649-23-4		30.00000	0.01676	
			Ethylene Glycol	107-21-1		45.00000	0.00655	
			Sodium Chloride	7647-14-5		5.00000	0.00415	
			Isotridecanol, ethoxylated	9043-30-5		5.00000	0.00371	
			1-butoxy-2-propanol	6131-66-8		5.00000	0.00371	
			Crystalline Silica: Quartz	14808-60-7		5.00000	0.00371	
			Glutaraldehyde	111-30-8		30.00000	0.00365	
			2-Propenoic, Polymer with Sodium Phosphinate, Sodium Salt	71050-62-9		20.00000	0.00291	
			Ammonium Chloride	12125-02-9		3.00000	0.00168	
			Potassium Chloride	7447-40-7		5.00000	0.00135	
			Didecyl Dimethyl Ammonium Chloride	7173-51-5		10.00000	0.00122	
			Oleamide DEA	93-83-4		2.00000	0.00112	
			Alcohols, C12-16, ethoxylated	68551-12-2		2.00000	0.00112	
			Citric Acid	77-92-9		60.00000	0.00074	
			Quaternary Ammonium Compound	68424-85-1		5.00000	0.00063	
			Ethanol	64-17-5		5.00000	0.00061	
			Hemicellulase Enzyme Concentrate	9025-56-3		5.00000	0.00056	

Office of Environmental Protection
 RECEIVED
 AUG 15 2015
 Environmental Protection
 10/23/2015

LATITUDE 39°17'30" 2,210'

LATITUDE 39°17'30" LONGITUDE 80°50'00"

6,688' LONGITUDE 80°52'30"



- A-MARVIN ROLLIPS ET AL. D.B. 269 PG. 227 T.M. 9 PAR. 34.2 1.03 AC.
- B-G.C.J.W. D.B. 283 PG. 265 T.M. 9 PAR. 47.1 0.41 AC.
- C-G.C.J.W. D.B. 283 PG. 265 T.M. 9 PAR. 47.6 0.51 AC.
- D-GEORGE L. NIEL ET AL. D.B. 282 PG. 158 T.M. 9 PAR. 47.3 1.17 AC.

AS DRILLED DATA:
WELL 2H TOP HOLE INFORMATION:
 N: 284,666ft E: 1,608,535ft
 LAT: 39°16'23.90" LON: 80°52'58.10"
BOTTOM HOLE INFORMATION:
 N: 278,281ft E: 1,612,820ft
 LAT: 39°15'21.44" LON: 80°52'02.38"
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 2H TOP HOLE INFORMATION:
 N: 4,347,122m E: 510,124m
BOTTOM HOLE INFORMATION:
 N: 4,345,198m E: 511,461m

LINE	BEARING	DISTANCE
L1	S 17°37' W	1406.96'
L2	S 20°55' W	1754.60'
L3	S 37°27' W	1288.62'
L4	S 43°37' W	1274.56'
L5	S 47°41' W	1243.67'
L6	S 53°30' W	1210.25'
L7	S 80°05' W	1089.05'
L8	S 81°27' W	1062.21'
L9	N 79°53' W	1791.03'
L10	N 63°35' W	1347.08'
L11	N 56°51' W	1097.09'
L12	N 52°04' W	1203.83'
L13	N 02°18' W	1049.33'
L14	N 12°44' E	1814.44'
L15	N 13°50' E	1143.47'
L16	N 22°31' E	1819.62'
L17	N 25°07' E	1643.20'
L18	N 34°35' E	1433.31'
L19	N 37°51' E	1866.04'
L20	N 38°36' E	1549.05'
L21	N 38°51' E	1545.01'
L22	N 61°00' E	1864.85'
L23	S 62°08' E	1749.53'
L24	S 51°44' E	1320.37'

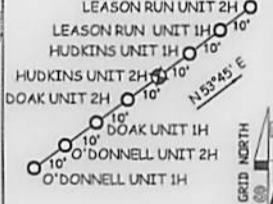
WILLIAM HUFFORD LEASE

ERIE D. SHEETS ET AL.
 D.B. 210 PG. 434
 T.M. 12 PAR. 9
 190.30 AC.

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.
6. THIS WELL BORE IS SUBJECT TO THAT 60 FOOT STRIP OF LAND KNOWN AS THE OLD SISTERSVILLE AND SALEM TURNPIKE WHICH MAY OR MAY NOT COINCIDE WITH THE CURRENT LOCATION OF WV STATE ROUTE 23 IN THIS AREA.

PAD LAYOUT

NOT TO SCALE



JOB # 13-089WA
DRAWING # HUDKINS2HAD
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY SUBMETER
PROVEN SOURCE OF ELEV.
SUBMETER MAPPING GRADE GPS



STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

WILLOW LAND SURVEYING PLLC
 P.O. BOX 17
 PENNSBORO, WV 26415

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

DATE 07/09/15
OPERATOR'S WELL # HUDKINS UNIT #2H
API WELL # 47 - 017 - 06436
STATE COUNTY PERMIT

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1,083' ORIGINAL - 1,057' AS-DRILLED WATERSHED NORTH FORK HUGHES RIVER
 QUADRANGLE PENNSBORO 7.5' (TOP HOLE) WEST UNION 7.5' (BOTTOM HOLE) DISTRICT CENTRAL COUNTY DODDRIDGE COUNTY NAME

SURFACE OWNER ALVADORE MCCLOY JR ET UX ACREAGE 17.98 ACRES +/-
 OIL & GAS ROYALTY OWNER BRENDA MILLER, CONSTANCE KAY GRIFFITH ET AL, ROBERT SMITH ET AL, DELORES REED ET AL, CLYDE DOTSON ET UX, DBW FARM MINERALS TRUST, HOMER MASON ET AL, ERIE D. SHEETS ET UX, WILLIAM HUFFORD LEASE ACREAGE 39.152 ACRES+; 50 ACRES+; 75 ACRES+; 75.6 ACRES+; 50 ACRES+; 98 ACRES+; 62 ACRES+; 24 ACRES+; 141 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 6,593' TVD 13,747' 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

FORM WW-6

10/23/2015