

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

API 47-017-06475 County Doddridge District Central
Quad Pennsboro 7.5' Pad Name Alvadore Field/Pool Name ---
Farm name McCloy, Alvadore, Jr., et ux Well Number Leason Run 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 4347127m Easting 510131m
Landing Point of Curve Northing 4346944.62m Easting 510185.57m
Bottom Hole Northing 4345020m Easting 511102m

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 5/1/2014 Date drilling commenced 6/15/2014 Date drilling ceased 11/25/2014
Date completion activities began 12/7/2014 Date completion activities ceased 2/20/2015
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

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Freshwater depth(s) ft 332' Open mine(s) (Y/N) depths ---
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

Reviewed by:

JK 8/21/15
10/23/2015

API 47-017 - 06475 Farm name McCloy, Alvadore, Jr., et ux Well number Leason Run 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"	440'	New	48# H-40	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2540'	New	36# J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4" & 8-1/2"	5-1/2"	13874'	New	20# P-110	N/A	Y
Tubing		2-3/8"	6550'		5.95# 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	522 sx	15.6	1.18	306	0'	8 Hrs.
Coal							
Intermediate 1	Class A	923 sx	15.6	1.18	796	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	964 sx (Lead) 1141 sx (Tail)	14.5 Lead 15.2 Tail	1.30 Lead 1.86 Tail	2711	-500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 13878' MD, 6590' TVD Loggers TD (ft) 13827'
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 6008'

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

** This is a subsequent well. Antero only runs wireline logs on one well on a multi-well pad (Hudkins Unit 1H API #47-017-06415). Please reference the wireline logs submitted with Form WR-35 for Hudkins Unit 1H. A Cement Bond Log has been included with this submittal.

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
 Intermediates- 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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API 47- 017 - 06475 Farm name McCloy, Alvadore, Jr., et ux Well number Leason Run Unit 2H

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
	*PLEASE SEE 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 EXHIBIT 2							

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API 47- 017 - 06475 Farm name McCloy, Alvadore, Jr., et ux Well number Leason Run Unit 2H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>Marcellus</u>	<u>6433' (TOP)</u> TVD	<u>6600' (TOP)</u> MD
_____	_____	_____
_____	_____	_____
_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump
 SHUT-IN PRESSURE Surface 3600 psi Bottom Hole --- psi DURATION OF TEST --- hrs
 OPEN FLOW Gas 7900 mcfpd Oil 15 bpd NGL --- bpd Water 15 bpd GAS MEASURED BY Estimated Orifice Pilot

<u>LITHOLOGY/ FORMATION</u>	<u>TOP DEPTH IN FT NAME TVD</u>	<u>BOTTOM DEPTH IN FT TVD</u>	<u>TOP DEPTH IN FT MD</u>	<u>BOTTOM DEPTH IN FT MD</u>	<u>DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H₂S, ETC)</u>
	<u>0</u>		<u>0</u>		

***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 Office of Oil & Gas
 Signature  Title Permitting Agent Date 7/21/2015
 JUL 27 2015

EXHIBIT 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	7-Dec-14	13,616	13,784	60	Marcellus
2	28-Dec-14	13,417	13,585	60	Marcellus
3	28-Dec-14	13,217	13,385	60	Marcellus
4	30-Dec-14	13,018	13,186	60	Marcellus
5	30-Dec-14	12,818	12,987	60	Marcellus
6	30-Dec-14	12,619	12,787	60	Marcellus
7	31-Dec-14	12,420	12,588	60	Marcellus
8	1-Jan-15	12,220	12,389	60	Marcellus
9	1-Jan-15	12,021	12,189	60	Marcellus
10	1-Jan-15	11,822	11,990	60	Marcellus
11	2-Jan-15	11,622	11,791	60	Marcellus
12	2-Jan-15	11,423	11,591	60	Marcellus
13	2-Jan-15	11,224	11,392	60	Marcellus
14	3-Jan-15	11,024	11,192	60	Marcellus
15	3-Jan-15	10,825	10,993	60	Marcellus
16	4-Jan-15	10,626	10,794	60	Marcellus
17	4-Jan-15	10,426	10,594	60	Marcellus
18	5-Jan-15	10,227	10,395	60	Marcellus
19	5-Jan-15	10,028	10,196	60	Marcellus
20	5-Jan-15	9,828	9,996	60	Marcellus
21	6-Jan-15	9,629	9,797	60	Marcellus
22	7-Jan-15	9,430	9,598	60	Marcellus
23	7-Jan-15	9,230	9,398	60	Marcellus
24	9-Jan-15	9,031	9,199	60	Marcellus
25	10-Jan-15	8,831	9,000	60	Marcellus
26	10-Jan-15	8,632	8,800	60	Marcellus
27	11-Jan-15	8,433	8,601	60	Marcellus
28	12-Jan-15	8,233	8,402	60	Marcellus
29	12-Jan-15	8,034	8,202	60	Marcellus
30	13-Jan-15	7,835	8,003	60	Marcellus
31	14-Jan-15	7,635	7,803	60	Marcellus
32	14-Jan-15	7,436	7,604	60	Marcellus
33	16-Jan-15	7,237	7,405	60	Marcellus
34	17-Jan-15	7,037	7,205	60	Marcellus
35	17-Jan-15	6,838	7,006	60	Marcellus
36	18-Jan-15	6,639	6,807	60	Marcellus

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EXHIBIT 2

Stage No.	Stimulations Date	Avg Pump Rate	Avg Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/ other (units)
1	28-Dec-14	64.0	6,791	N/A	6,693	241,097	6,610	N/A
2	29-Dec-14	57.0	6,212	5,629	3,572	151,264	6,412	N/A
3	29-Dec-14	65.0	6,506	5,603	4,929	239,403	6,522	N/A
4	30-Dec-14	64.0	6,549	5,102	4,704	243,875	6,545	N/A
5	30-Dec-14	62.0	6,436	5,349	4,771	244,529	6,617	N/A
6	31-Dec-14	67.0	6,704	5,600	5,155	245,337	6,487	N/A
7	31-Dec-14	64.0	6,359	5,529	4,681	242,457	6,534	N/A
8	1-Jan-15	65.0	6,296	5,349	4,898	243,060	7,162	N/A
9	1-Jan-15	62.0	6,536	5,412	4,682	243,387	6,429	N/A
10	2-Jan-15	62.0	6,394	5,368	5,158	243,222	6,349	N/A
11	2-Jan-15	62.0	6,527	5,474	4,757	212,721	6,256	N/A
12	2-Jan-15	62.0	6,527	5,048	5,012	203,212	6,476	N/A
13	3-Jan-15	62.0	6,390	5,618	5,406	225,539	6,229	N/A
14	3-Jan-15	62.0	6,390	5,802	5,054	247,592	6,318	N/A
15	4-Jan-15	65.0	6,563	5,505	5,260	244,990	6,355	N/A
16	4-Jan-15	62.0	6,310	5,534	4,129	246,154	6,241	N/A
17	5-Jan-15	63.0	6,250	5,660	4,949	246,936	6,287	N/A
18	5-Jan-15	62.0	6,221	5,438	5,272	244,965	6,260	N/A
19	5-Jan-15	63.0	6,242	4,961	5,323	246,817	6,233	N/A
20	6-Jan-15	65.0	6,339	5,520	5,152	244,828	6,299	N/A
21	7-Jan-15	63.0	6,187	5,604	5,919	245,855	6,308	N/A
22	7-Jan-15	65.0	6,270	5,744	5,086	249,286	6,379	N/A
23	9-Jan-15	61.0	5,967	5,251	5,301	246,951	6,307	N/A
24	10-Jan-15	66.0	6,475	5,320	5,199	246,940	6,342	N/A
25	10-Jan-15	63.0	6,152	5,137	4,790	250,514	6,218	N/A
26	11-Jan-15	64.0	6,416	5,195	4,242	245,196	6,222	N/A
27	11-Jan-15	62.0	6,432	5,320	4,924	160,525	5,487	N/A
28	11-Jan-15	63.0	6,135	5,338	4,868	244,874	6,145	N/A
29	13-Jan-15	63.0	6,136	5,202	3,793	227,792	5,797	N/A
30	13-Jan-15	68.0	6,255	5,561	4,076	245,349	6,077	N/A
31	13-Jan-15	63.0	6,151	5,456	4,207	245,389	6,034	N/A
32	16-Jan-15	63.0	6,198	5,330	3,494	244,767	6,016	N/A
33	17-Jan-15	62.0	5,892	5,273	5,020	243,289	5,996	N/A
34	17-Jan-15	62.0	5,892	5,520	4,468	247,372	6,006	N/A
35	17-Jan-15	62.0	5,784	5,430	5,225	246,554	5,923	N/A
36	18-Jan-15	63.0	5,829	5,612	4,558	243,383	5,970	N/A
	AVG=	63.1	6,298	5,423	4,854	8,535,421	225,848	TOTAL

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EXHIBIT 3

LITHOLOGY/ FORMATION	TOP DEPTH (TVD)	BOTTOM DEPTH (TVD)	TOP DEPTH (MD)	BOTTOM DEPTH (MD)
	From Surface	From Surface	From Surface	From Surface
Fresh Water	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
Sanstone/ Coal	est. 1427	1567	est. 1427	1567
Shale/ Trace Coal	est. 1567	1727	est. 1567	1727
Siltstone/ Trace Coal	est. 1727	1929	est. 1727	1929
Big Lime	1929	2046	1929	2046
Big Injun	2046	2429	2046	2429
Gantz Sand	2429	2597	2429	2597
Fifty Foot Sandstone	2597	2690	2597	2690
Gordon	2690	2970	2690	2971
Fifth Sandstone	2970	3126	2971	3127
Bayard	3126	3433	3127	3434
Warren	3433	3808	3434	3810
Speechley	3808	4077	3810	4080
Baltown	4077	4507	4080	4509
Bradford	4507	4918	4509	4920
Benson	4918	5184	4920	5187
Alexander	5184	5353	5187	5356
Elk	5353	5832	5356	5835
Rhinestreet	5832	6098	5835	6103
Sycamore	6098	6257	6103	6284
Middlesex	6257	6370	6284	6453
Burkett	6370	6404	6453	6432
Tully	6404	6433	6432	6600
Marcellus	6433	NA	6600	NA

*Please note Antero determines formation tops based on mud logs that are only run on one well on a multi-well pad. The measured depth (MD) data on subsequent wells may be slightly different due to the well's unique departure.

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Leason Run Unit 2H
Doddridge County WV
 Northing: 14261486.57
 Easting: 1673607.05
 As Drilled



To convert Magnetic North to Grid, Subtract 8.48°
 To convert True North to Grid, Subtract 0.07°

Azimuths to Grid North
 True North: -0.07°
 Magnetic North: -8.48°

Magnetic Field
 Strength: 52233.2snT
 Dip Angle: 66.85°
 Date: 9/9/2014
 Model: BGGM2014

Precision 53: GL 1055' + KB 19' @ 1074.0usft
 Gr: 1055.0

WELL DETAILS Leason Run Unit 2H						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Ground Level
0.0	0.0	14261486.57	1673607.05	16° 24.078' N	0° 52' 57.796" W	1055.0

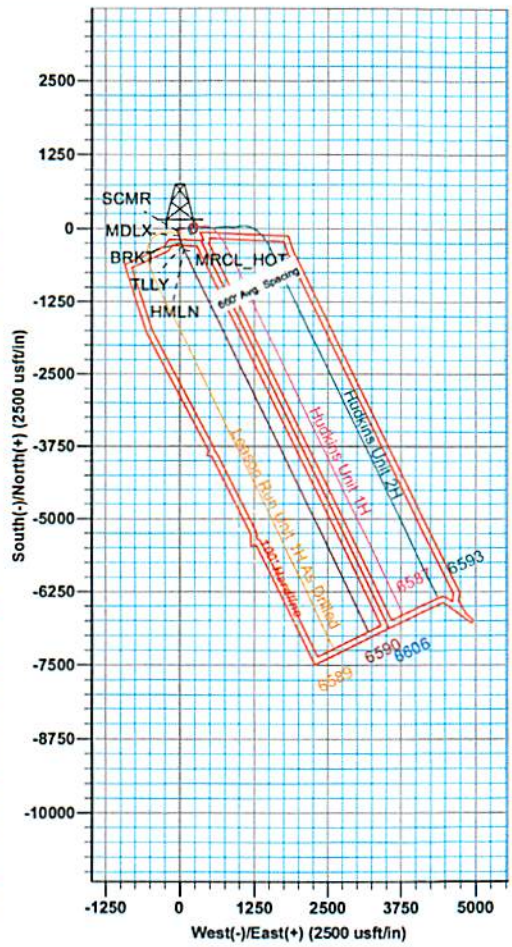
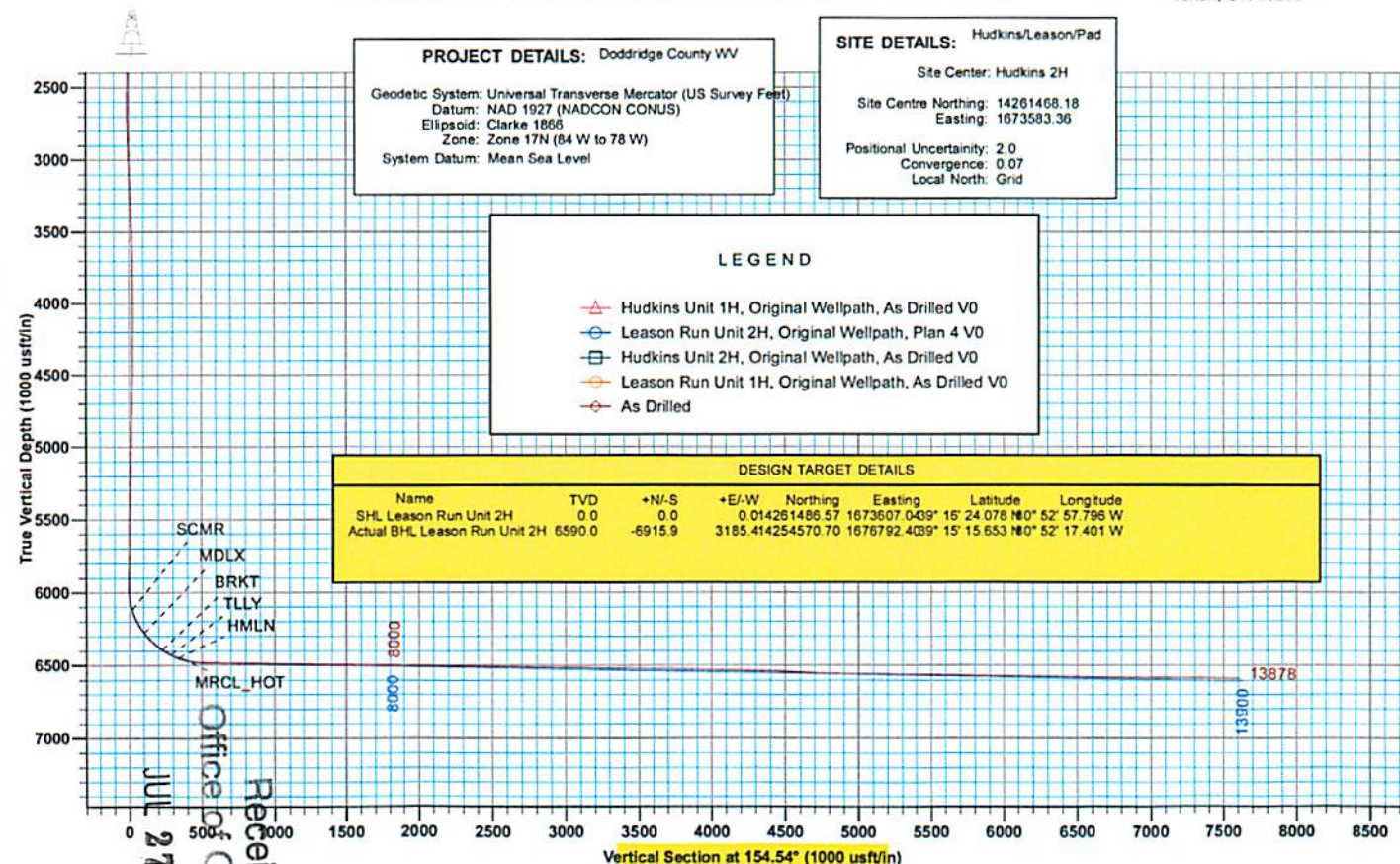
Genie Lightfoot
 10:47, December 10 2014
 Scientific Drilling
 11220 N.W. 10th Street
 Yukon, OK 73099

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

SITE DETAILS: Hudkins/Leason/Pad
 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 1H, Original Wellpath, As Drilled V0
	Leason Run Unit 2H, Original Wellpath, Plan 4 V0
	Hudkins Unit 2H, Original Wellpath, As Drilled V0
	Leason Run Unit 1H, Original Wellpath, As Drilled V0
	As Drilled

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
SHL Leason Run Unit 2H	0.0	0.0	0.0	14261486.57	1673607.04	16° 24.078' N	0° 52' 57.796" W
Actual BHL Leason Run Unit 2H	6590.0	-6915.9	3185.4	414254570.70	1676792.40	15° 15.653' N	0° 52' 17.401" W



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Antero Resources

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

Design: As Drilled

EOW Completion Report

10 December, 2014



Scientific Drilling

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EOW Completion Report



Company:	Antero Resources	Local Co-ordinate Reference:	Well Leason Run Unit 2H
Project:	Doddridge County WV	TVD Reference:	Precision 523: GL 1055' + KB 19' @ 1074.0usft
Site:	Hudkins/Leason/Pad	MD Reference:	Precision 523: GL 1055' + KB 19' @ 1074.0usft
Well:	Leason Run 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 Fee	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:	14,261,468.18usft	Latitude:	39° 16' 23.897 N
From:	Map	Easting:	1,673,583.36usft	Longitude:	80° 52' 58.098 W
Position Uncertainty:	2.0 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.07 °

Well	Leason Run Unit 2H, Marcellus					
Well Position	+N/-S	0.0 usft	Northing:	14,261,486.57 usft	Latitude:	39° 16' 24.078 N
	+E/-W	0.0 usft	Easting:	1,673,607.05 usft	Longitude:	80° 52' 57.796 W
Position Uncertainty	2.0 usft		Wellhead Elevation:	1,074.0 usft	Ground Level:	1,055.0 usft

Wellbore	Original Wellpath				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2014	9/9/2014	-8.41	66.85	52,233

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	Date 12/10/2014				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
106.0	5,736.0	Survey #6 Final Gyro (Original Wellpath)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
5,768.0	13,878.0	Survey #7 MWD SDI (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	0.00
106.0	0.49	326.08	106.0	0.4	-0.3	-0.4	0.46	
131.0	0.48	332.45	131.0	0.6	-0.4	-0.7	0.22	
156.0	0.33	338.92	156.0	0.7	-0.4	-0.8	0.63	
181.0	0.26	329.35	181.0	0.8	-0.5	-1.0	0.34	
206.0	0.30	323.55	206.0	0.9	-0.6	-1.1	0.20	
231.0	0.22	336.77	231.0	1.0	-0.6	-1.2	0.40	
256.0	0.13	335.34	256.0	1.1	-0.6	-1.3	0.36	
281.0	0.05	287.13	281.0	1.1	-0.7	-1.3	0.41	
306.0	0.14	288.19	306.0	1.1	-0.7	-1.3	0.36	
331.0	0.13	313.03	331.0	1.2	-0.8	-1.4	0.24	

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EOW Completion Report



Company:	Antero Resources	Local Co-ordinate Reference:	Well Leason Run Unit 2H
Project:	Doddridge County WV	TVD Reference:	Precision 523: GL 1055' + KB 19' @ 1074.0usft
Site:	Hudkins/Leason/Pad	MD Reference:	Precision 523: GL 1055' + KB 19' @ 1074.0usft
Well:	Leason Run 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)	
356.0	0.16	308.18		356.0	1.2	-0.8	-1.4		0.13
381.0	0.07	290.21		381.0	1.2	-0.8	-1.5		0.38
406.0	0.04	322.13		406.0	1.3	-0.9	-1.5		0.17
431.0	0.07	104.82		431.0	1.3	-0.9	-1.5		0.42
456.0	0.03	29.14		456.0	1.3	-0.8	-1.5		0.28
481.0	0.06	36.57		481.0	1.3	-0.8	-1.5		0.12
506.0	0.07	107.49		506.0	1.3	-0.8	-1.5		0.30
531.0	0.18	119.81		531.0	1.3	-0.8	-1.5		0.45
556.0	0.15	96.88		556.0	1.2	-0.7	-1.4		0.29
581.0	0.11	125.67		581.0	1.2	-0.6	-1.4		0.30
606.0	0.08	101.46		606.0	1.2	-0.6	-1.3		0.20
631.0	0.11	89.96		631.0	1.2	-0.6	-1.3		0.14
656.0	0.06	97.30		656.0	1.2	-0.5	-1.3		0.20
681.0	0.08	119.54		681.0	1.2	-0.5	-1.3		0.13
706.0	0.06	140.68		706.0	1.2	-0.5	-1.3		0.13
731.0	0.04	169.50		731.0	1.1	-0.5	-1.2		0.13
756.0	0.09	164.64		756.0	1.1	-0.5	-1.2		0.20
781.0	0.04	104.54		781.0	1.1	-0.4	-1.2		0.31
806.0	0.04	55.80		806.0	1.1	-0.4	-1.2		0.13
831.0	0.11	11.00		831.0	1.1	-0.4	-1.2		0.35
856.0	0.06	327.51		856.0	1.2	-0.4	-1.2		0.31
881.0	0.02	0.86		881.0	1.2	-0.4	-1.2		0.18
906.0	0.10	318.25		906.0	1.2	-0.4	-1.3		0.35
931.0	0.03	326.25		931.0	1.2	-0.5	-1.3		0.28
956.0	0.11	285.57		956.0	1.2	-0.5	-1.3		0.36
981.0	0.08	284.18		981.0	1.2	-0.5	-1.3		0.12
1,006.0	0.08	286.61		1,006.0	1.3	-0.6	-1.4		0.01
1,031.0	0.11	325.93		1,031.0	1.3	-0.6	-1.4		0.28
1,056.0	0.05	125.78		1,056.0	1.3	-0.6	-1.4		0.63
1,081.0	0.14	297.57		1,081.0	1.3	-0.6	-1.4		0.76
1,106.0	0.08	326.63		1,106.0	1.3	-0.6	-1.5		0.32
1,131.0	0.07	287.35		1,131.0	1.3	-0.7	-1.5		0.21
1,156.0	0.34	317.98		1,156.0	1.4	-0.7	-1.6		1.13
1,181.0	0.07	351.68		1,181.0	1.5	-0.8	-1.7		1.14
1,206.0	0.19	310.26		1,206.0	1.5	-0.8	-1.7		0.58
1,231.0	0.20	308.30		1,231.0	1.6	-0.9	-1.8		0.05
1,256.0	0.41	315.95		1,256.0	1.7	-1.0	-1.9		0.85
1,281.0	0.36	307.35		1,281.0	1.8	-1.1	-2.1		0.31
1,306.0	0.27	296.63		1,306.0	1.8	-1.2	-2.2		0.43
1,331.0	0.30	306.83		1,331.0	1.9	-1.3	-2.3		0.24
1,356.0	0.34	306.54		1,356.0	2.0	-1.4	-2.4		0.16
1,381.0	0.30	300.60		1,381.0	2.1	-1.6	-2.5		0.21
1,406.0	0.34	291.66		1,406.0	2.1	-1.7	-2.7		0.40
1,431.0	0.24	292.44		1,431.0	2.2	-1.8	-2.7		0.40

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17-06475



EOW Completion Report



Company:	Antero Resources	Local Co-ordinate Reference:	Well Leason Run Unit 2H
Project:	Doddridge County WV	TVD Reference:	Precision 523: GL 1055' + KB 19' @ 1074.0usft
Site:	Hudkins/Leason/Pad	MD Reference:	Precision 523: GL 1055' + KB 19' @ 1074.0usft
Well:	Leason Run 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	0.32	289.14	1,456.0	2.2	-1.9	-2.8	0.33		
1,481.0	0.34	291.73	1,481.0	2.3	-2.0	-2.9	0.10		
1,506.0	0.41	288.35	1,506.0	2.3	-2.2	-3.1	0.29		
1,531.0	0.41	287.82	1,531.0	2.4	-2.4	-3.2	0.02		
1,556.0	0.53	295.16	1,556.0	2.5	-2.6	-3.3	0.54		
1,581.0	0.55	300.17	1,581.0	2.6	-2.8	-3.5	0.21		
1,606.0	0.68	301.93	1,606.0	2.7	-3.0	-3.7	0.53		
1,631.0	0.56	300.12	1,631.0	2.9	-3.2	-4.0	0.49		
1,656.0	0.57	301.53	1,656.0	3.0	-3.4	-4.2	0.07		
1,681.0	0.48	308.43	1,681.0	3.1	-3.6	-4.4	0.44		
1,706.0	0.60	310.52	1,706.0	3.3	-3.8	-4.6	0.49		
1,731.0	0.55	317.20	1,731.0	3.4	-4.0	-4.8	0.33		
1,756.0	0.37	304.56	1,756.0	3.6	-4.1	-5.0	0.82		
1,781.0	0.43	317.69	1,781.0	3.7	-4.3	-5.2	0.44		
1,806.0	0.28	320.29	1,806.0	3.8	-4.4	-5.3	0.60		
1,831.0	0.32	318.93	1,831.0	3.9	-4.5	-5.4	0.16		
1,856.0	0.35	309.23	1,856.0	4.0	-4.6	-5.6	0.26		
1,881.0	0.27	328.61	1,881.0	4.1	-4.7	-5.7	0.52		
1,906.0	0.22	304.12	1,906.0	4.2	-4.7	-5.8	0.46		
1,931.0	0.17	335.39	1,931.0	4.2	-4.8	-5.9	0.46		
1,956.0	0.21	315.01	1,956.0	4.3	-4.8	-6.0	0.31		
1,981.0	0.16	327.27	1,981.0	4.4	-4.9	-6.0	0.25		
2,006.0	0.15	312.81	2,006.0	4.4	-4.9	-6.1	0.16		
2,031.0	0.20	327.00	2,031.0	4.5	-5.0	-6.2	0.26		
2,056.0	0.26	313.12	2,056.0	4.5	-5.0	-6.3	0.33		
2,081.0	0.20	308.58	2,081.0	4.6	-5.1	-6.4	0.25		
2,106.0	0.33	320.91	2,106.0	4.7	-5.2	-6.5	0.56		
2,131.0	0.24	315.23	2,131.0	4.8	-5.3	-6.6	0.38		
2,156.0	0.22	320.23	2,156.0	4.9	-5.3	-6.7	0.11		
2,181.0	0.16	329.55	2,181.0	4.9	-5.4	-6.8	0.27		
2,206.0	0.28	322.09	2,206.0	5.0	-5.4	-6.9	0.49		
2,231.0	0.13	267.35	2,231.0	5.1	-5.5	-6.9	0.92		
2,256.0	0.25	319.91	2,256.0	5.1	-5.6	-7.0	0.80		
2,281.0	0.37	307.19	2,281.0	5.2	-5.7	-7.1	0.55		
2,306.0	0.37	295.24	2,306.0	5.3	-5.8	-7.3	0.31		
2,331.0	0.40	276.16	2,331.0	5.3	-6.0	-7.4	0.52		
2,356.0	0.41	290.10	2,356.0	5.4	-6.1	-7.5	0.40		
2,381.0	0.44	293.44	2,381.0	5.4	-6.3	-7.6	0.16		
2,406.0	0.42	296.16	2,406.0	5.5	-6.5	-7.8	0.11		
2,431.0	0.51	303.36	2,431.0	5.6	-6.7	-7.9	0.43		
2,456.0	0.31	304.63	2,456.0	5.7	-6.8	-8.0	0.80		
2,481.0	0.49	294.74	2,481.0	5.8	-7.0	-8.2	0.77		
2,506.0	0.44	295.67	2,506.0	5.9	-7.1	-8.4	0.20		
2,531.0	0.49	301.54	2,531.0	6.0	-7.3	-8.5	0.28		
2,556.0	0.65	313.35	2,556.0	6.1	-7.5	-8.8	0.79		

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17-06475



EOW Completion Report



Company:	Antero Resources	Local Co-ordinate Reference:	Well Leason Run Unit 2H
Project:	Doddridge County WV	TVD Reference:	Precision 523: GL 1055' + KB 19' @ 1074.0usft
Site:	Hudkins/Leason/Pad	MD Reference:	Precision 523: GL 1055' + KB 19' @ 1074.0usft
Well:	Leason Run 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	0.56	323.38	2,581.0	6.3	-7.7	-9.0	0.55		
2,606.0	0.48	336.15	2,606.0	6.5	-7.8	-9.2	0.56		
2,631.0	0.38	350.06	2,631.0	6.7	-7.9	-9.4	0.58		
2,656.0	0.41	334.52	2,656.0	6.9	-7.9	-9.6	0.44		
2,681.0	0.39	335.48	2,681.0	7.0	-8.0	-9.8	0.08		
2,706.0	0.42	52.45	2,706.0	7.1	-8.0	-9.9	2.02		
2,731.0	0.97	76.96	2,731.0	7.2	-7.7	-9.8	2.45		
2,756.0	1.51	84.98	2,756.0	7.3	-7.1	-9.7	2.26		
2,781.0	1.88	87.93	2,780.9	7.4	-6.4	-9.4	1.52		
2,806.0	2.47	90.35	2,805.9	7.4	-5.5	-9.0	2.39		
2,831.0	2.81	91.41	2,830.9	7.4	-4.3	-8.5	1.37		
2,856.0	2.86	93.57	2,855.9	7.3	-3.1	-7.9	0.47		
2,881.0	3.06	103.39	2,880.8	7.1	-1.8	-7.2	2.18		
2,906.0	2.91	111.76	2,905.8	6.7	-0.6	-6.3	1.84		
2,931.0	2.79	120.91	2,930.8	6.2	0.6	-5.3	1.88		
2,956.0	2.83	130.81	2,955.7	5.5	1.5	-4.3	1.95		
2,981.0	2.67	148.15	2,980.7	4.6	2.3	-3.1	3.37		
3,006.0	3.01	161.00	3,005.7	3.4	2.8	-1.9	2.88		
3,031.0	3.32	174.91	3,030.6	2.1	3.1	-0.6	3.30		
3,056.0	3.68	179.13	3,055.6	0.6	3.2	0.8	1.77		
3,081.0	3.96	190.92	3,080.5	-1.1	3.0	2.3	3.33		
3,106.0	4.22	197.68	3,105.5	-2.8	2.6	3.6	2.19		
3,131.0	4.34	203.78	3,130.4	-4.5	1.9	4.9	1.88		
3,156.0	4.48	215.43	3,155.3	-6.2	1.0	6.0	3.62		
3,181.0	4.46	215.93	3,180.3	-7.8	-0.1	7.0	0.18		
3,206.0	4.40	213.44	3,205.2	-9.4	-1.2	7.9	0.81		
3,231.0	4.50	212.33	3,230.1	-11.0	-2.3	8.9	0.53		
3,256.0	4.58	216.65	3,255.0	-12.6	-3.4	9.9	1.40		
3,281.0	4.40	212.78	3,280.0	-14.2	-4.5	10.9	1.41		
3,306.0	4.46	215.28	3,304.9	-15.8	-5.6	11.9	0.81		
3,331.0	4.47	217.68	3,329.8	-17.4	-6.8	12.8	0.75		
3,356.0	4.38	216.02	3,354.7	-18.9	-7.9	13.7	0.63		
3,381.0	4.41	217.33	3,379.7	-20.5	-9.1	14.6	0.42		
3,406.0	4.31	217.35	3,404.6	-22.0	-10.2	15.5	0.40		
3,431.0	4.20	217.52	3,429.5	-23.5	-11.3	16.3	0.44		
3,456.0	4.17	217.40	3,454.4	-24.9	-12.5	17.1	0.13		
3,481.0	4.13	217.82	3,479.4	-26.3	-13.6	18.0	0.20		
3,506.0	3.89	216.66	3,504.3	-27.7	-14.6	18.8	1.01		
3,531.0	3.88	217.99	3,529.3	-29.1	-15.6	19.5	0.36		
3,556.0	3.73	219.51	3,554.2	-30.4	-16.7	20.3	0.72		
3,581.0	3.73	219.67	3,579.2	-31.6	-17.7	20.9	0.04		
3,606.0	3.67	220.48	3,604.1	-32.9	-18.8	21.6	0.32		
3,631.0	3.51	220.97	3,629.1	-34.0	-19.8	22.2	0.65		
3,656.0	3.50	219.13	3,654.0	-35.2	-20.8	22.9	0.45		

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17-06475



EOW Completion Report



Company: Antero Resources	Local Co-ordinate Reference: Well Leason Run Unit 2H
Project: Doddridge County WV	TVD Reference: Precision 523: GL 1055' + KB 19' @ 1074.0usft
Site: Hudkins/Leason/Pad	MD Reference: Precision 523: GL 1055' + KB 19' @ 1074.0usft
Well: Leason Run 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	3.59	225.41	3,679.0	-36.4	-21.8	23.5	1.59		
3,706.0	3.60	228.21	3,703.9	-37.4	-22.9	23.9	0.70		
3,731.0	3.62	228.54	3,728.9	-38.5	-24.1	24.4	0.12		
3,756.0	3.20	228.39	3,753.8	-39.5	-25.2	24.8	1.68		
3,781.0	2.94	229.10	3,778.8	-40.3	-26.2	25.1	1.05		
3,806.0	2.73	229.34	3,803.7	-41.2	-27.2	25.5	0.84		
3,831.0	2.41	231.00	3,828.7	-41.9	-28.0	25.8	1.31		
3,856.0	1.98	231.61	3,853.7	-42.5	-28.8	26.0	1.72		
3,881.0	1.62	228.30	3,878.7	-43.0	-29.4	26.2	1.50		
3,906.0	1.34	229.01	3,903.7	-43.4	-29.9	26.3	1.12		
3,931.0	1.35	241.23	3,928.7	-43.7	-30.4	26.4	1.15		
3,956.0	1.29	240.63	3,953.7	-44.0	-30.9	26.5	0.25		
3,981.0	1.24	240.03	3,978.7	-44.3	-31.3	26.5	0.21		
4,006.0	1.09	243.92	4,003.7	-44.5	-31.8	26.5	0.68		
4,031.0	0.83	244.78	4,028.7	-44.7	-32.2	26.5	1.04		
4,056.0	0.68	253.64	4,053.7	-44.8	-32.5	26.5	0.76		
4,081.0	0.81	266.77	4,078.7	-44.9	-32.8	26.4	0.86		
4,106.0	0.61	263.12	4,103.7	-44.9	-33.1	26.3	0.82		
4,131.0	0.54	276.86	4,128.6	-44.9	-33.3	26.2	0.62		
4,156.0	0.78	276.20	4,153.6	-44.9	-33.6	26.1	0.96		
4,181.0	0.82	279.29	4,178.6	-44.8	-34.0	25.9	0.24		
4,206.0	0.65	281.61	4,203.6	-44.8	-34.3	25.7	0.69		
4,231.0	0.75	278.26	4,228.6	-44.7	-34.6	25.5	0.43		
4,256.0	0.71	285.12	4,253.6	-44.7	-34.9	25.3	0.38		
4,281.0	0.70	295.22	4,278.6	-44.5	-35.2	25.1	0.50		
4,306.0	0.77	301.23	4,303.6	-44.4	-35.5	24.8	0.42		
4,331.0	0.85	302.16	4,328.6	-44.2	-35.8	24.5	0.32		
4,356.0	0.96	301.72	4,353.6	-44.0	-36.1	24.2	0.44		
4,381.0	0.84	302.97	4,378.6	-43.8	-36.4	23.9	0.49		
4,406.0	0.89	298.55	4,403.6	-43.6	-36.8	23.6	0.33		
4,431.0	0.97	295.36	4,428.6	-43.4	-37.1	23.2	0.38		
4,456.0	0.82	295.25	4,453.6	-43.3	-37.5	22.9	0.60		
4,481.0	0.75	299.69	4,478.6	-43.1	-37.8	22.7	0.37		
4,506.0	0.80	300.13	4,503.6	-42.9	-38.1	22.4	0.20		
4,531.0	0.89	298.68	4,528.6	-42.7	-38.4	22.1	0.37		
4,556.0	0.93	302.03	4,553.6	-42.5	-38.7	21.8	0.27		
4,581.0	0.88	304.24	4,578.6	-42.3	-39.1	21.4	0.24		
4,606.0	1.06	304.82	4,603.6	-42.1	-39.4	21.1	0.72		
4,631.0	1.00	309.92	4,628.6	-41.8	-39.8	20.7	0.44		
4,656.0	1.12	308.14	4,653.6	-41.5	-40.1	20.2	0.50		
4,681.0	1.05	311.51	4,678.6	-41.2	-40.5	19.8	0.38		
4,706.0	1.09	309.13	4,703.6	-40.9	-40.9	19.4	0.24		
4,731.0	1.11	309.01	4,728.6	-40.6	-41.2	18.9	0.08		
4,756.0	1.20	309.93	4,753.6	-40.3	-41.6	18.5	0.37		

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EOW Completion Report



Company: Antero Resources	Local Co-ordinate Reference: Well Leason Run Unit 2H
Project: Doddridge County WV	TVD Reference: Precision 523: GL 1055' + KB 19' @ 1074.0usft
Site: Hudkins/Leason/Pad	MD Reference: Precision 523: GL 1055' + KB 19' @ 1074.0usft
Well: Leason Run Unit 2H	North Reference: Grid
Wellbore: Original Wellpath	Survey Calculation Method: Minimum Curvature
Design: As Drilled	Database: Oklahoma District

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)
4,781.0	1.29	309.21	4,778.6	-40.0	-42.0	18.0	0.37
4,806.0	1.14	311.71	4,803.6	-39.6	-42.4	17.5	0.64
4,831.0	1.18	311.09	4,828.6	-39.3	-42.8	17.1	0.17
4,856.0	1.15	312.10	4,853.6	-38.9	-43.2	16.6	0.15
4,881.0	1.21	312.73	4,878.5	-38.6	-43.6	16.1	0.25
4,906.0	1.13	307.78	4,903.5	-38.3	-44.0	15.6	0.52
4,931.0	1.20	313.39	4,928.5	-37.9	-44.4	15.2	0.53
4,956.0	1.07	313.11	4,953.5	-37.6	-44.7	14.7	0.52
4,981.0	1.21	314.48	4,978.5	-37.2	-45.1	14.3	0.57
5,006.0	1.26	315.22	5,003.5	-36.9	-45.5	13.7	0.21
5,031.0	1.23	311.66	5,028.5	-36.5	-45.8	13.2	0.33
5,056.0	1.20	317.87	5,053.5	-36.1	-46.2	12.7	0.54
5,081.0	1.16	317.01	5,078.5	-35.7	-46.6	12.2	0.17
5,106.0	1.14	318.17	5,103.5	-35.4	-46.9	11.8	0.12
5,131.0	1.18	319.66	5,128.5	-35.0	-47.2	11.3	0.20
5,156.0	1.14	321.92	5,153.5	-34.6	-47.6	10.8	0.24
5,181.0	1.14	319.88	5,178.5	-34.2	-47.9	10.3	0.16
5,206.0	1.16	323.22	5,203.5	-33.8	-48.2	9.8	0.28
5,231.0	1.21	321.48	5,228.5	-33.4	-48.5	9.3	0.25
5,256.0	1.27	318.36	5,253.5	-33.0	-48.9	8.8	0.36
5,281.0	1.15	319.96	5,278.5	-32.6	-49.2	8.3	0.50
5,306.0	1.21	318.42	5,303.5	-32.2	-49.5	7.8	0.27
5,331.0	1.18	323.53	5,328.5	-31.8	-49.9	7.3	0.44
5,356.0	1.22	322.89	5,353.4	-31.4	-50.2	6.8	0.17
5,381.0	1.28	321.17	5,378.4	-31.0	-50.5	6.2	0.28
5,406.0	1.22	321.22	5,403.4	-30.5	-50.9	5.7	0.24
5,431.0	1.32	325.72	5,428.4	-30.1	-51.2	5.2	0.56
5,456.0	1.22	318.80	5,453.4	-29.6	-51.5	4.6	0.73
5,481.0	1.12	315.81	5,478.4	-29.3	-51.9	4.1	0.47
5,506.0	1.08	320.28	5,503.4	-28.9	-52.2	3.7	0.38
5,531.0	1.05	326.76	5,528.4	-28.5	-52.5	3.2	0.50
5,556.0	1.07	322.31	5,553.4	-28.2	-52.7	2.8	0.34
5,581.0	0.95	316.70	5,578.4	-27.8	-53.0	2.3	0.62
5,606.0	0.92	323.09	5,603.4	-27.5	-53.3	1.9	0.43
5,631.0	0.90	327.90	5,628.4	-27.2	-53.5	1.5	0.32
5,656.0	0.83	314.84	5,653.4	-26.9	-53.7	1.2	0.83
5,681.0	0.90	329.18	5,678.4	-26.6	-54.0	0.8	0.91
5,706.0	0.79	322.83	5,703.4	-26.3	-54.2	0.5	0.58
5,731.0	0.76	323.71	5,728.4	-26.0	-54.4	0.1	0.13
5,736.0	0.75	323.90	5,733.4	-26.0	-54.4	0.1	0.21
5,768.0	0.64	315.59	5,765.4	-25.7	-54.7	-0.3	0.47
5,858.0	0.95	337.13	5,855.4	-24.6	-55.3	-1.5	0.47
5,948.0	0.93	358.01	5,945.4	-23.2	-55.6	-3.0	0.38
5,978.0	0.60	117.66	5,975.4	-23.0	-55.5	-3.1	4.44

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17-06475



EOW Completion Report



Company:	Antero Resources	Local Co-ordinate Reference:	Well Leason Run Unit 2H
Project:	Doddridge County WV	TVD Reference:	Precision 523: GL 1055' + KB 19' @ 1074.0usft
Site:	Hudkins/Leason/Pad	MD Reference:	Precision 523: GL 1055' + KB 19' @ 1074.0usft
Well:	Leason Run Unit 2H	North Reference:	Grid
Wellbore:	Original Wellpath	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Oklahoma District

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)
6,008.0	4.34	150.24	6,005.3	-24.1	-54.8	-1.8	12.83
6,037.0	8.02	151.52	6,034.2	-26.8	-53.3	1.3	12.70
6,067.0	11.86	149.40	6,063.7	-31.3	-50.7	6.5	12.86
6,097.0	15.52	149.23	6,092.8	-37.4	-47.1	13.6	12.20
6,122.0	18.26	152.08	6,116.8	-43.8	-43.5	20.8	11.44
SCMR							
6,127.0	18.81	152.55	6,121.5	-45.2	-42.8	22.4	11.44
6,157.0	21.57	156.46	6,149.7	-54.5	-38.4	32.7	10.24
6,187.0	25.00	159.21	6,177.2	-65.5	-33.9	44.6	11.99
6,217.0	27.92	156.75	6,204.1	-77.9	-28.9	57.9	10.39
6,247.0	31.74	156.96	6,230.1	-91.6	-23.0	72.8	12.74
6,277.0	35.20	157.48	6,255.1	-106.9	-16.6	89.3	11.57
6,303.0	38.01	159.07	6,276.0	-121.3	-10.9	104.8	11.42
MDLX							
6,306.0	38.34	159.24	6,278.3	-123.0	-10.2	106.7	11.42
6,336.0	41.53	160.55	6,301.3	-141.1	-3.6	125.8	11.00
6,366.0	45.43	162.36	6,323.1	-160.6	2.9	146.3	13.65
6,396.0	48.73	163.04	6,343.5	-181.6	9.5	168.1	11.12
6,426.0	51.79	161.85	6,362.7	-203.6	16.4	190.9	10.65
6,456.0	55.96	160.92	6,380.4	-226.6	24.2	215.0	14.12
6,472.0	57.68	160.84	6,389.1	-239.2	28.5	228.3	10.77
BRKT							
6,485.0	59.08	160.77	6,396.0	-249.7	32.2	239.3	10.77
6,515.0	61.72	160.91	6,410.8	-274.3	40.7	265.2	8.81
6,541.0	64.25	160.54	6,422.6	-296.2	48.4	288.2	9.82
TLLY							
6,545.0	64.64	160.48	6,424.3	-299.6	49.6	291.8	9.82
6,575.0	67.75	159.60	6,436.4	-325.4	59.0	319.1	10.71
6,599.0	69.80	158.73	6,445.1	-346.3	66.9	341.4	9.17
HMLN							
6,605.0	70.31	158.52	6,447.1	-351.5	69.0	347.0	9.17
6,619.0	71.36	157.99	6,451.7	-363.8	73.9	360.2	8.32
MRCL_HOT							
6,635.0	72.57	157.40	6,456.7	-377.9	79.7	375.4	8.32
6,665.0	74.73	156.55	6,465.1	-404.4	90.9	404.2	7.70
6,695.0	78.05	155.72	6,472.2	-431.0	102.7	433.3	11.39
6,710.0	80.37	155.55	6,475.0	-444.5	108.8	448.1	15.51
6,769.0	87.72	154.72	6,481.1	-497.7	133.5	506.7	12.54
6,791.0	87.38	154.81	6,482.1	-517.5	142.8	528.7	1.60
6,881.0	90.87	157.35	6,483.4	-599.8	179.3	618.6	4.80
6,970.0	89.33	156.20	6,483.3	-681.6	214.4	797.5	2.16
7,060.0	88.52	153.60	6,485.0	-763.1	252.6	797.5	3.03
7,150.0	89.53	154.14	6,486.5	-843.8	292.2	887.5	1.27
7,239.0	89.16	154.70	6,487.5	-924.1	330.6	976.5	0.75
7,329.0	89.16	153.47	6,488.8	-1,005.1	369.9	1,066.5	1.37

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EOW Completion Report



Company: Antero Resources	Local Co-ordinate Reference: Well Leason Run Unit 2H
Project: Doddridge County WV	TVD Reference: Precision 523: GL 1055' + KB 19' @ 1074.0usft
Site: Hudkins/Leason/Pad	MD Reference: Precision 523: GL 1055' + KB 19' @ 1074.0usft
Well: Leason Run Unit 2H	North Reference: Grid
Wellbore: Original Wellpath	Survey Calculation Method: Minimum Curvature
Design: As Drilled	Database: Oklahoma District

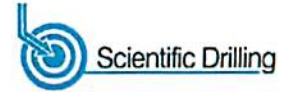
Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	V. Sec (usft)	DLeg (°/100usft)		
7,419.0	89.60	154.85	6,489.8	-1,086.0	409.2	1,156.5	1.61		
7,508.0	89.16	153.89	6,490.8	-1,166.3	447.7	1,245.5	1.19		
7,598.0	88.49	153.65	6,492.6	-1,247.0	487.4	1,335.4	0.79		
7,688.0	89.40	154.01	6,494.3	-1,327.8	527.1	1,425.4	1.09		
7,777.0	89.60	153.34	6,495.1	-1,407.5	566.6	1,514.4	0.79		
7,867.0	89.09	154.06	6,496.1	-1,488.2	606.5	1,604.4	0.98		
7,956.0	89.16	155.31	6,497.4	-1,568.6	644.5	1,693.4	1.41		
8,051.0	88.45	155.70	6,499.4	-1,655.1	683.9	1,788.3	0.85		
8,146.0	88.55	154.70	6,501.9	-1,741.3	723.7	1,883.3	1.06		
8,241.0	89.50	155.91	6,503.5	-1,827.6	763.4	1,978.3	1.62		
8,335.0	88.93	154.97	6,504.8	-1,913.1	802.5	2,072.2	1.17		
8,430.0	89.70	155.32	6,506.0	-1,999.3	842.4	2,167.2	0.89		
8,525.0	89.39	156.35	6,506.7	-2,085.9	881.3	2,262.2	1.13		
8,620.0	89.16	154.23	6,507.9	-2,172.2	921.0	2,357.2	2.24		
8,715.0	89.70	154.92	6,508.9	-2,258.0	961.8	2,452.2	0.92		
8,809.0	89.36	153.15	6,509.6	-2,342.5	1,002.9	2,546.2	1.92		
8,904.0	89.16	153.39	6,510.9	-2,427.4	1,045.7	2,641.1	0.33		
8,994.0	88.66	151.77	6,512.6	-2,507.2	1,087.1	2,731.1	1.88		
9,083.0	88.72	153.76	6,514.6	-2,586.3	1,127.8	2,820.0	2.24		
9,173.0	91.01	156.12	6,514.8	-2,667.9	1,165.9	2,910.0	3.65		
9,262.0	90.30	155.92	6,513.8	-2,749.2	1,202.1	2,998.9	0.83		
9,352.0	89.23	155.53	6,514.2	-2,831.2	1,239.1	3,088.9	1.27		
9,441.0	88.29	153.66	6,516.1	-2,911.6	1,277.3	3,177.9	2.35		
9,531.0	89.83	154.36	6,517.6	-2,992.5	1,316.7	3,267.9	1.88		
9,620.0	89.97	154.58	6,517.7	-3,072.8	1,355.1	3,356.9	0.29		
9,710.0	90.13	155.81	6,517.6	-3,154.5	1,392.8	3,446.9	1.38		
9,800.0	88.82	154.74	6,518.5	-3,236.2	1,430.5	3,536.9	1.88		
9,889.0	88.76	153.74	6,520.4	-3,316.3	1,469.1	3,625.8	1.13		
9,979.0	88.32	153.61	6,522.6	-3,397.0	1,509.0	3,715.8	0.51		
10,069.0	88.69	154.10	6,525.0	-3,477.8	1,548.7	3,805.8	0.68		
10,158.0	89.36	153.94	6,526.5	-3,557.7	1,587.6	3,894.7	0.77		
10,248.0	88.39	154.77	6,528.3	-3,638.9	1,626.6	3,984.7	1.42		
10,337.0	88.12	154.93	6,531.0	-3,719.4	1,664.4	4,073.7	0.35		
10,427.0	89.36	154.47	6,533.0	-3,800.7	1,702.8	4,163.7	1.47		
10,516.0	87.95	154.99	6,535.1	-3,881.2	1,740.8	4,252.6	1.69		
10,606.0	89.23	155.59	6,537.3	-3,962.9	1,778.4	4,342.6	1.57		
10,695.0	87.61	155.26	6,539.7	-4,043.8	1,815.4	4,431.5	1.86		
10,785.0	87.82	154.62	6,543.3	-4,125.3	1,853.5	4,521.5	0.75		
10,875.0	87.11	153.64	6,547.3	-4,206.2	1,892.8	4,611.4	1.34		
10,964.0	87.89	153.71	6,551.2	-4,285.9	1,932.2	4,700.3	0.88		
11,054.0	88.56	154.88	6,554.0	-4,366.9	1,971.2	4,799.2	1.50		
11,143.0	87.58	152.57	6,557.0	-4,446.7	2,010.6	4,879.2	2.82		
11,233.0	90.03	155.69	6,558.8	-4,527.6	2,049.8	4,959.1	4.41		
11,322.0	90.71	156.63	6,558.3	-4,609.0	2,085.8	5,058.1	1.30		

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EOW Completion Report



Company:	Antero Resources	Local Co-ordinate Reference:	Well Leason Run Unit 2H
Project:	Doddridge County WV	TVD Reference:	Precision 523: GL 1055' + KB 19' @ 1074.0usft
Site:	Hudkins/Leason/Pad	MD Reference:	Precision 523: GL 1055' + KB 19' @ 1074.0usft
Well:	Leason Run Unit 2H	North Reference:	Grid
Wellbore:	Original Wellpath	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Oklahoma District

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)
11,412.0	88.89	155.15	6,558.6	-4,691.2	2,122.6	5,148.1	2.61
11,501.0	88.29	154.82	6,560.8	-4,771.8	2,160.2	5,237.0	0.77
11,591.0	89.53	153.35	6,562.5	-4,852.7	2,199.5	5,327.0	2.14
11,681.0	88.76	153.25	6,563.8	-4,933.1	2,239.9	5,417.0	0.86
11,770.0	89.09	153.80	6,565.5	-5,012.8	2,279.6	5,505.9	0.72
11,860.0	89.43	152.57	6,566.7	-5,093.1	2,320.2	5,595.9	1.42
11,949.0	88.93	154.21	6,567.9	-5,172.7	2,360.1	5,684.9	1.93
12,039.0	89.19	154.93	6,569.4	-5,253.9	2,398.7	5,774.9	0.85
12,129.0	89.43	153.91	6,570.5	-5,335.1	2,437.6	5,864.9	1.16
12,218.0	89.39	154.58	6,571.4	-5,415.3	2,476.2	5,953.8	0.75
12,308.0	90.07	155.83	6,571.8	-5,497.0	2,514.0	6,043.8	1.58
12,397.0	89.26	154.71	6,572.3	-5,577.8	2,551.2	6,132.8	1.55
12,487.0	88.89	155.14	6,573.8	-5,659.3	2,589.3	6,222.8	0.63
12,577.0	89.46	155.53	6,575.1	-5,741.1	2,626.9	6,312.8	0.77
12,666.0	88.79	155.20	6,576.5	-5,822.0	2,664.0	6,401.8	0.84
12,756.0	88.39	153.96	6,578.7	-5,903.2	2,702.6	6,491.7	1.45
12,845.0	89.93	154.17	6,580.0	-5,983.3	2,741.5	6,580.7	1.75
12,935.0	89.13	154.43	6,580.7	-6,064.3	2,780.6	6,670.7	0.93
13,024.0	89.26	155.71	6,582.0	-6,145.0	2,818.1	6,759.7	1.45
13,114.0	90.37	155.01	6,582.3	-6,226.8	2,855.6	6,849.7	1.46
13,203.0	91.01	154.27	6,581.2	-6,307.3	2,893.7	6,938.7	1.10
13,293.0	88.89	154.96	6,581.3	-6,388.6	2,932.3	7,028.7	2.48
13,382.0	88.69	154.77	6,583.1	-6,469.1	2,970.1	7,117.7	0.31
13,472.0	90.24	154.19	6,584.0	-6,550.3	3,008.9	7,207.7	1.84
13,562.0	90.37	153.56	6,583.5	-6,631.1	3,048.5	7,297.6	0.71
13,651.0	88.29	154.40	6,584.5	-6,711.1	3,087.5	7,386.6	2.52
13,741.0	88.89	154.68	6,586.8	-6,792.3	3,126.2	7,476.6	0.74
13,819.0	88.55	154.30	6,588.5	-6,862.7	3,159.8	7,554.6	0.65
13,878.0	88.55	154.30	6,590.0	-6,915.9	3,185.4	7,613.6	0.00

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
6,122.0	6,116.8	-43.8	-43.5	SCMR
6,303.0	6,276.0	-121.3	-10.9	MDLX
6,472.0	6,389.1	-239.2	28.5	BRKT
6,541.0	6,422.6	-296.2	48.4	TLLY
6,599.0	6,445.1	-346.3	66.9	HMLN
6,619.0	6,451.7	-363.8	73.9	MRCL_HOT

Checked By: _____ Approved By: _____ Date: _____

Received
Office of Oil & Gas
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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	12/28/2014
Job End Date:	1/18/2015
State:	West Virginia
County:	Doddridge
API Number:	47-017-06475-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Leason Run Unit 2H
Longitude:	-80.88255000
Latitude:	39.27343300
Datum:	NAD83
Federal/Tribal Well:	NO
True Vertical Depth:	6,590
Total Base Water Volume (gal):	9,483,348
Total Base Non Water Volume:	0



17-06475

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	89.76738	
Sand, White, 40/70	Baker Hughes	Proppant	MSDS and Non-MSDS Ingredients Listed Below	N/A		5.36178	
Sand, White, 20/40	Baker Hughes	Proppant	MSDS and Non-MSDS Ingredients Listed Below	N/A		3.45446	
Sand, White, 100 mesh	Baker Hughes	Proppant	MSDS and Non-MSDS Ingredients Listed Below	N/A		0.90600	
HCl, 10.1 - 15%	Baker Hughes	Acidizing	MSDS and Non-MSDS Ingredients Listed Below	N/A		0.23165	SmartCare Product
GW-3LDF	Baker Hughes	Gelling Agent	MSDS and Non-MSDS Ingredients Listed Below	N/A		0.07964	SmartCare Product
FRW-18	Baker Hughes	Friction Reducer	MSDS and Non-MSDS Ingredients Listed Below	N/A		0.05851	SmartCare Product
Scaletrol 720	Baker Hughes	Scale Inhibitor	MSDS and Non-MSDS Ingredients Listed Below	N/A		0.01489	SmartCare Product

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Alpha 1427	Baker Hughes	Biocide					
			MSDS and Non-MSDS Ingredients Listed Below	N/A		0.01295	SmartCare Product
Enzyme G-NE	Baker Hughes	Breaker					
			MSDS and Non-MSDS Ingredients Listed Below	N/A		0.01209	SmartCare Product
Calcium Chloride	Baker Hughes	Salts					
			MSDS and Non-MSDS Ingredients Listed Below	N/A		0.01110	
Ferrotroi 300L	Baker Hughes	Iron Control					
			MSDS and Non-MSDS Ingredients Listed Below	N/A		0.00161	SmartCare Product
CI-39	Baker Hughes	Corrosion Inhibitor					
			MSDS and Non-MSDS Ingredients Listed Below	N/A		0.00043	
CI-14	Baker Hughes	Corrosion Inhibitor					
			MSDS and Non-MSDS Ingredients Listed Below	N/A		0.00004	SmartCare Product
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 (s) (MSDS and non- MSDS)	Baker Hughes	See Trade Name(s) List					
			Crystalline Silica (Quartz)	14808-60-7	100.00000	9.71279	
			Water	7732-18-5	95.00000	0.24761	
			Mineral Oil	8042-47-5	70.00000	0.05569	
			Guar Gum	9000-30-0	60.00000	0.04774	
			Hydrochloric Acid	7647-01-0	15.00000	0.03471	
			Paraffinic Petroleum Distillate	64742-55-8	30.00000	0.02387	
			Petroleum Distillates	64742-47-8	30.00000	0.02387	
			Hydrotreated Light Distillate	64742-47-8	30.00000	0.01753	
			Poly (acrylamide-co-acrylic acid) partial sodium salt	62649-23-4	30.00000	0.01753	
			Calcium Chloride	10043-52-4	100.00000	0.01184	
			Ethylene Glycol	107-21-1	45.00000	0.00670	
			Crystalline Silica: Quartz	14808-60-7	5.00000	0.00398	
			Isotridecanol, ethoxylated	9043-30-5	5.00000	0.00398	
			1-butoxy-2-propanol	5131-66-8	5.00000	0.00398	
			Glutaraldehyde	111-30-8	30.00000	0.00388	
			Sodium Chloride	7647-14-5	5.00000	0.00363	
			2-Propenoic, Polymer with Sodium Phosphinate, Sodium Salt	71050-62-9	20.00000	0.00298	
			Ammonium Chloride	12125-02-9	3.00000	0.00175	
			Didecyl Dimethyl Ammonium Chloride	7173-51-5	10.00000	0.00129	
			Oleamide DEA	93-83-4	2.00000	0.00117	
			Alcohols, C12-16, ethoxylated	68551-12-2	2.00000	0.00117	
			Citric Acid	77-92-9	60.00000	0.00097	
			Potassium Chloride	7447-40-7	5.00000	0.00070	
			Quaternary Ammonium Compound	68424-85-1	5.00000	0.00067	

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		Ethanol	64-17-5	5.00000	0.00065
		Hemicellulase Enzyme Concentrate	9025-56-3	5.00000	0.00060
		Polyoxyethylene Sorbitan Monooleate	9005-65-6	0.50000	0.00029
		Sorbitan Monooleate	1338-43-8	0.50000	0.00029
		Oxyalkylated Fatty Acid	61791-002	40.00000	0.00017
		Formic Acid	64-18-6	30.00000	0.00013
		Tar Bases, Quinoline Derivs., Benzyl Chloride-Quaternized	72480-70-7	30.00000	0.00013
		Aldehyde	104-55-2	30.00000	0.00013
		2-butoxy-1-propanol	15821-83-7	0.10000	0.00008
		Methanol	67-56-1	100.00000	0.00004
		Isopropanol	67-63-0	5.00000	0.00002
		Sulfurized polyolefin	68037-13-8	5.00000	0.00002
		Polyoxyalkylenes	68951-67-7	30.00000	0.00001
		Potassium Iodide	7681-11-0	2.00000	0.00001
		Polyaklylene	7756-94-7	1.00000	0.00000
		Fatty Acids	61790-12-3	10.00000	0.00000
		Modified Thiourea Polymer	68527-49-1	7.00000	0.00000
		Olefin	64743-02-8	5.00000	0.00000
		Propargyl Alcohol	107-19-7	5.00000	0.00000
		Potassium Acetate	127-08-2	0.50000	0.00000
		Formaldehyde	50-00-0	1.00000	0.00000

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

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided. Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

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LATITUDE 39°17'30" 2,186'

10,808' TO BOTTOM HOLE

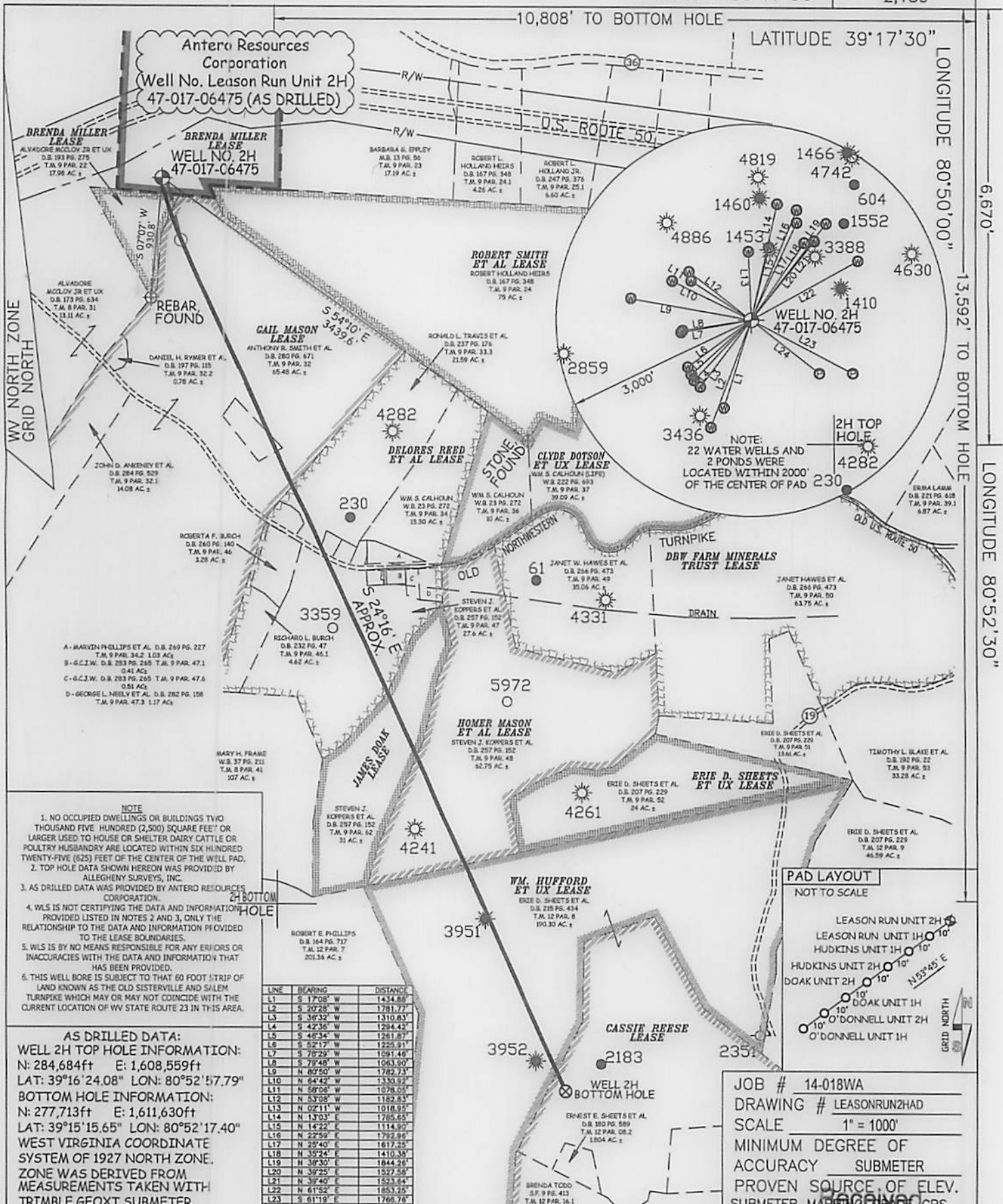
LATITUDE 39°17'30"

LONGITUDE 80°50'00"

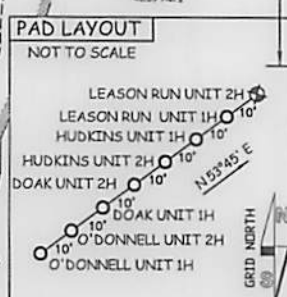
6,670'

13,592' TO BOTTOM HOLE

LONGITUDE 80°52'30"



NOTE:
22 WATER WELLS AND
2 PONDS WERE
LOCATED WITHIN 2000'
OF THE CENTER OF PAD



JOB # 14-018WA
DRAWING # LEASONRUN2HAD
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY SUBMETER
PROVEN SOURCE OF ELEV. SUBMETER MAPS AND GPS

LINE	BEARING	DISTANCE
L1	S 17°08' W	1434.88
L2	S 20°28' W	1781.77
L3	S 36°32' W	1310.83
L4	S 42°35' W	1294.42
L5	S 46°34' W	1241.87
L6	S 52°15' W	1225.91
L7	S 78°22' W	1091.46
L8	S 78°48' W	1063.90
L9	N 87°50' W	1782.73
L10	N 64°42' W	1330.92
L11	N 58°05' W	1078.25
L12	N 53°05' W	1182.93
L13	N 02°11' W	1018.92
L14	N 13°03' E	1785.65
L15	N 14°22' E	1114.90
L16	N 22°59' E	1792.96
L17	N 29°40' E	1617.25
L18	N 39°24' E	1410.38
L19	N 38°30' E	1844.26
L20	N 39°25' E	1527.58
L21	N 39°40' E	1523.64
L22	N 61°52' E	1853.25
L23	S 61°19' E	1766.78
L24	S 50°48' E	1341.68

- NOTE
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 SISTERVILLE AND SALEM TURNPIKE WHICH MAY OR MAY NOT COINCIDE WITH THE CURRENT LOCATION OF WV STATE ROUTE 23 IN THIS AREA.

AS DRILLED DATA:
WELL 2H TOP HOLE INFORMATION:
N: 284,684ft E: 1,608,559ft
LAT: 39°16'24.08" LON: 80°52'57.79"
BOTTOM HOLE INFORMATION:
N: 277,713ft E: 1,611,630ft
LAT: 39°15'15.65" LON: 80°52'17.40"
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: 4,347,127m E: 510,131m
BOTTOM HOLE INFORMATION:
N: 4,345,020m E: 511,102m



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

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

- Surface Owner Boundary Lines +/-
- Intervenor Sublease +/-
- Existing Fence
- Found monument, as noted
- Proposed Well Path
- As Drilled Well Path

DATE 07/09/15
OPERATOR'S WELL# LEASON RUN UNIT #2H

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

SURFACE OWNER ALVADORE MCCLOY JR ET UX ACREAGE 17.98 ACRES +/-
OIL & GAS ROYALTY OWNER BRENDAMILLER; GAIL MASON; LEASE ACREAGE 37.625 ACRES +/- 6.2 ACRES +/- 148.793 ACRES +/-
DELORES REED ET AL; JAMES DOAK; HOMER MASON ET AL; WM. HUFFORD ET UX; CASSIE REESE 75.6 ACRES +/- 31 ACRES +/- 62 ACRES +/- 141 ACRES +/- 142 ACRES +/-

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) (X) AS DRILLED

TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,590' TVD 13,878' MD

WELL OPERATOR ANTERO RESOURCES CORP DESIGNATED AGENT DIANNA STAMPER
ADDRESS 1615 WYNKOOP STREET ADDRESS CT CORPORATION SYSTEM
FORM WW-6 DENVER, CO 80202 CHARLESTON, WV 25313

10/23/2015

COUNTY NAME PERMIT