

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

API 47-017-06243 County Doddridge District New Milton
Quad New Milton 7.5' Pad Name Stewart Pad Field/Pool Name _____
Farm name Stewart, Randall Well Number Dorothy Unit 1H
Operator (as registered with the OOG) Antero Resources Corporation
Address 1615 Wynkoop Street City Denver State CO Zip 80202

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4,337,768m Easting 529,250m
Landing Point of Curve Northing 4,337,850.68m Easting 528,667.51m
Bottom Hole Northing 4,339,945m Easting 528,030m

Elevation (ft) 1,334' 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 06/05/2013 Date drilling commenced 09/13/2013 Date drilling ceased 01/31/2014
Date completion activities began 04/07/2014 Date completion activities ceased 07/26/2014
Verbal plugging (Y/N) N/A Date permission granted N/A Granted by Office of Oil and Gas

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

Freshwater depth(s) ft 372' Open mine(s) (Y/N) depths _____
Salt water depth(s) ft 962', 1217' Void(s) encountered (Y/N) depths None
Coal depth(s) ft None Identified Cavern(s) encountered (Y/N) depths None
Is coal being mined in area (Y/N) No

Reviewed by:
DL 8/28
E 10/23/2015

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API 47-017 - 06243

Farm name Stewart, Randall

Well number Dorothy Unit 1H

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	24"	20"	40'	New	94#; J-55	N/A	Yes
Surface	17 1/2"	13 3/8"	442'	New	48#; H-40	N/A	Yes
Coal							
Intermediate 1	12 1/4"	9 5/8"	2,579'	New	36#; J-55	N/A	Yes
Intermediate 2							
Intermediate 3							
Production	8 3/4" & 8 1/2"	5 1/2"	15,236'	New	20#; P-110	N/A	Yes
Tubing		2 3/8"	7,751'		4.7#; N-80	N/A	
Packer type and depth set		N/A					

Comment Details _____

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	Class A	112 sx	16	1.18	38	0'	8 Hrs.
Surface	Class A	526 sx	15.6	1.18	307	0'	8 Hrs.
Coal							
Intermediate 1	Class A	1,004 sx	15.6	1.18	808	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	1,231 sx (Lead); 1,169 sx (Tail)	14.5 (Lead); 15.2 (Tail)	1.3 (Lead); 1.88 (Tail)	3,014	~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 15,236' MD, 7,352' TVD (BHL & Deepest Point Drilled)

Loggers TD (ft) 15,193'

Deepest formation penetrated Marcellus

Plug back to (ft) N/A

Plug back procedure N/A

Kick off depth (ft) 7,373'

**This is a subsequent well. Antero only runs wireline logs on one well on a multi-well pad (Cross Unit 1H, API #47-017-06238). Please reference the wireline logs submitted with Form WR-35 for the Cross Unit 1H. A Cement Bond Log has been included with this submit.

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

Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING _____

Conductor- 0
 Surface- 1 above guide shoe, 1 above insert float, 1 every 4th joint to surface
 Intermediate- 1 above float joint, 1 above float collar, 1 every 4th joint to surface
 Production- 1 above float joint, 1 below float collar, 1 every 3rd joint to top of cement

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

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WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

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WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

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Environmental Protection

API 47- 017 - 06243 Farm name Stewart, Randall Well number Dorothy Unit 1H

PRODUCING FORMATION(S)	DEPTHS	
Marcellus	7,299' (top) TVD	7,853' (top) MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump
 SHUT-IN PRESSURE Surface 3,950 psi Bottom Hole _____ psi DURATION OF TEST _____ hrs
 OPEN FLOW Gas 8,703 mcfpd Oil 3 bpd NGL _____ bpd Water _____ 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 ATTACHED EXHIBIT 3					

Please insert additional pages as applicable.

Drilling Contractor Patterson - UTI Drilling Company, LLC
 Address 207 Carlton Drive City Eighty Four State PA Zip 15330
 Logging Company Rush Wellsite Services
 Address 600 Alpha Drive City Canonsburg State PA Zip 15317
 Cementing Company Nabors Completion & Production Services, Co.
 Address 1650 Hackers Creek City Jane Lew State WV Zip 26378
 Stimulating Company GoFrac
 Address 62787 Philips Rd. City Cambridge State OH Zip 43725

Please insert additional pages as applicable.

Completed by Megan Darling Telephone 303-357-7230
 Signature Megan C. Darling Title Permitting Agent Date 07/31/2015

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Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry WV Department of Environmental Protection
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API 47-017-06243 Farm Name Stewart, Randall Well Number Dorothy Unit 1H

EXHIBIT 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	7-Apr-14	14,980	15,151	60	Marcellus
2	13-Jun-14	14,778	14,949	60	Marcellus
3	19-Jun-14	14,576	14,746	60	Marcellus
4	20-Jun-14	14,373	14,544	60	Marcellus
5	21-Jun-14	14,171	14,341	60	Marcellus
6	21-Jun-14	13,968	14,139	60	Marcellus
7	21-Jun-14	13,766	13,937	60	Marcellus
8	21-Jun-14	13,563	13,734	60	Marcellus
9	22-Jun-14	13,361	13,532	60	Marcellus
10	22-Jun-14	13,159	13,329	60	Marcellus
11	22-Jun-14	12,956	13,127	60	Marcellus
12	22-Jun-14	12,754	12,924	60	Marcellus
13	23-Jun-14	12,551	12,722	60	Marcellus
14	23-Jun-14	12,349	12,520	60	Marcellus
15	23-Jun-14	12,147	12,317	60	Marcellus
16	23-Jun-14	11,944	12,115	60	Marcellus
17	24-Jun-14	11,742	11,912	60	Marcellus
18	24-Jun-14	11,539	11,710	60	Marcellus
19	24-Jun-14	11,337	11,508	60	Marcellus
20	24-Jun-14	11,135	11,305	60	Marcellus
21	25-Jun-14	10,932	11,103	60	Marcellus
22	25-Jun-14	10,730	10,900	60	Marcellus
23	25-Jun-14	10,527	10,698	60	Marcellus
24	25-Jun-14	10,325	10,496	60	Marcellus
25	26-Jun-14	10,122	10,293	60	Marcellus
26	26-Jun-14	9,920	10,091	60	Marcellus
27	26-Jun-14	9,718	9,888	60	Marcellus
28	27-Jun-14	9,515	9,686	60	Marcellus
29	28-Jun-14	9,313	9,484	60	Marcellus
30	28-Jun-14	9,110	9,281	60	Marcellus
31	28-Jun-14	8,908	9,079	60	Marcellus
32	28-Jun-14	8,706	8,876	60	Marcellus
33	28-Jun-14	8,503	8,674	60	Marcellus
34	29-Jun-14	8,301	8,471	60	Marcellus
35	29-Jun-14	8,098	8,269	60	Marcellus
36	29-Jun-14	7,896	8,067	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	13-Jun-14	68.0	7,119	N/A	5,001	237,143	6,233	N/A
2	14-Jun-14	60.0	7,749	7,411	9,570	12,330	2,669	N/A
3	20-Jun-14	66.7	7,207	6,220	4,093	204,208	6,340	N/A
4	20-Jun-14	69.7	7,459	5,772	5,346	167,736	6,476	N/A
5	21-Jun-14	66.2	7,503	5,778	4,906	236,457	6,184	N/A
6	21-Jun-14	61.0	7,013	6,173	5,251	57,917	6,727	N/A
7	21-Jun-14	63.4	7,025	6,035	5,113	98,205	6,616	N/A
8	21-Jun-14	71.2	7,400	5,879	5,398	204,161	6,616	N/A
9	22-Jun-14	66.3	7,428	6,004	5,532	166,764	6,486	N/A
10	22-Jun-14	57.1	7,719	5,900	5,130	13,493	6,108	N/A
11	22-Jun-14	55.6	7,295	6,004	4,468	44,444	6,109	N/A
12	23-Jun-14	69.6	7,319	6,201	5,415	209,384	6,603	N/A
13	23-Jun-14	67.2	7,257	5,743	4,744	230,344	6,603	N/A
14	23-Jun-14	57.4	7,527	5,907	5,211	72,339	6,401	N/A
15	23-Jun-14	72.2	7,099	6,154	4,958	236,495	6,058	N/A
16	23-Jun-14	70.4	7,119	6,323	4,436	204,966	6,528	N/A
17	24-Jun-14	78.2	7,249	5,887	5,433	239,481	6,113	N/A
18	24-Jun-14	71.6	7,056	6,087	5,096	193,044	6,522	N/A
19	24-Jun-14	69.6	7,132	6,154	4,862	128,308	6,499	N/A
20	24-Jun-14	76.1	7,257	6,101	5,385	223,652	6,011	N/A
21	25-Jun-14	77.6	7,440	5,719	5,282	184,845	5,950	N/A
22	25-Jun-14	74.5	7,089	5,898	5,034	253,622	6,312	N/A
23	25-Jun-14	70.4	6,842	6,175	5,284	198,869	6,448	N/A
24	25-Jun-14	75.0	7,106	6,024	4,886	220,616	6,055	N/A
25	26-Jun-14	73.8	7,054	5,785	5,707	225,092	6,128	N/A
26	26-Jun-14	69.0	6,867	6,258	4,964	165,384	6,430	N/A
27	26-Jun-14	71.2	6,830	5,867	5,101	136,228	5,823	N/A
28	27-Jun-14	67.7	7,147	6,471	5,213	100,217	5,984	N/A
29	28-Jun-14	73.8	7,102	7,024	4,897	202,715	5,715	N/A
30	28-Jun-14	72.2	6,830	6,279	5,147	213,404	5,864	N/A
31	28-Jun-14	77.1	6,767	6,123	4,921	229,787	5,852	N/A
32	28-Jun-14	72.4	7,065	5,712	4,929	122,505	5,486	N/A
33	29-Jun-14	74.6	6,999	6,294	4,690	212,220	5,800	N/A
34	29-Jun-14	74.7	6,962	6,533	5,154	237,925	6,214	N/A
35	29-Jun-14	76.3	6,797	6,507	4,912	181,125	6,281	N/A
36	30-Jun-14	72.9	6,822	6,187	4,432	237,622	5,888	N/A
	AVG=	69.7	7,157	6,131	5,164	6,303,047	220,132	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	372'	NA	372'	NA
Shale/Siltstone	0	447	0	447
Sandstone	Est. 447	467	Est. 447	467
Shale/Siltstone	Est. 467	687	Est. 467	687
Sandstone	Est. 687	727	Est. 687	727
Shale	Est. 727	827	Est. 727	827
Sandstone	Est. 827	887	Est. 827	887
Shale	Est. 887	1,127	Est. 887	1,127
Sandstone	Est. 1127	1,207	Est. 1127	1,207
Shale	Est. 1207	1,787	Est. 1207	1,787
Sandstone/Siltstone	Est. 1787	1,907	Est. 1787	1,907
Sandstone/Siltstone with trace coal	Est. 1907	1,967	Est. 1907	1,967
Shale	Est. 1967	2,398	Est. 1967	2,398
Big Lime	2,398	2,487	2,398	2,487
Big Injun	2,487	2,700	2,487	2,700
Gantz Sand	2,700	2,856	2,700	2,856
Fifty Foot Sandstone	2,856	3,060	2,856	3,060
Gordon	3,060	3,411	3,060	3,411
Fifth Sandstone	3,411	3,480	3,411	3,480
Bayard	3,480	3,744	3,480	3,749
Warren	3,744	4,050	3,749	4,074
Speechley	4,050	4,238	4,074	4,277
Baltown	4,238	4,878	4,277	4,979
Bradford	4,878	5,335	4,979	5,478
Benson	5,335	5,595	5,478	5,769
Alexander	5,595	5,819	5,769	6,023
Elk	5,819	6,323	6,023	6,594
Rhinestreet	6,323	6,855	6,594	7,199
Sycamore	6,855	7,025	7,199	7,392
Middlesex	7,025	7,168	7,392	7,576
Burkett	7,168	7,199	7,576	7,625
Tully	7,199	7,299	7,625	7,853
Marcellus	7,299	NA	7,853	NA

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

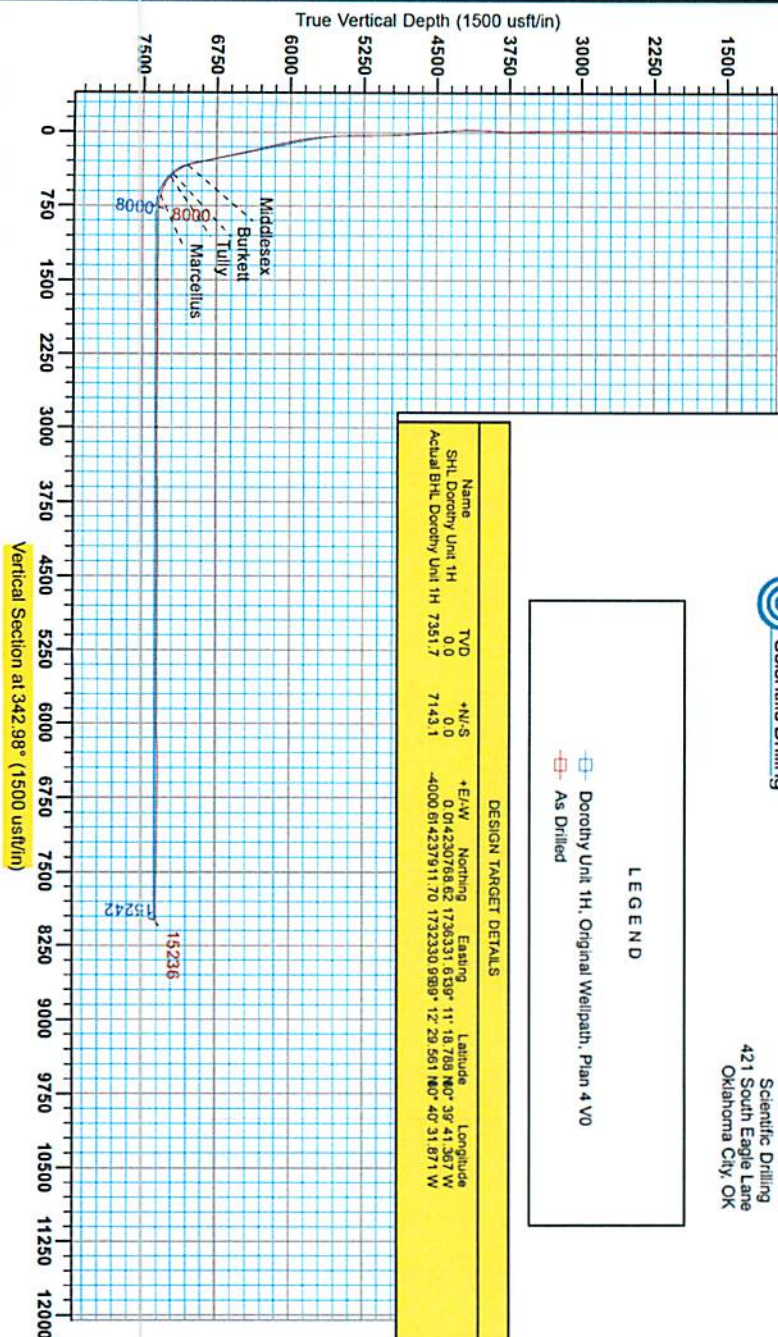
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Antero Resources
 Dorothy Unit 1H
 Doddridge County WV
 Northing: 14230768.62
 Easting: 1736331.61
 As Drilled



WELL DETAILS: Dorothy Unit 1H			
+N/S	+E/W	Northing	Easting
0.0	0.0	14230768.62	1736331.61
Ground Level		1322.0	Latitude
Wellhead		39° 11' 18.788 N	07° 29' 41.307 W
Longitude		81.6	SR

REFERENCE INFORMATION			
Coordinate (NEZ) Reference	Well Dorothy Unit 1H, Grid North		
Vertical (TVD) Reference	Dorothy 1H 1322 GL + 22.9 NB @ 1354.5usft		
Section (VS) Reference	SD4 - (0.04, 0.02)		
Measured Depth Reference	Dorothy 1H 1322 GL + 22.9 NB @ 1354.5usft		
Completion Method	Interim Completions		

PROJECT DETAILS: Doddridge County WV			
Geologic System	Universal Transverse Mercator (UTM Survey Feet)		
Datum	NAD 1983 (NAD83 CONUS)		
Ellipsoid	Clarke 1866		
Zone	Zone 17N (84 W to 73 W)		
System Datum	Mean Sea Level		

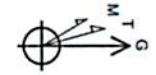
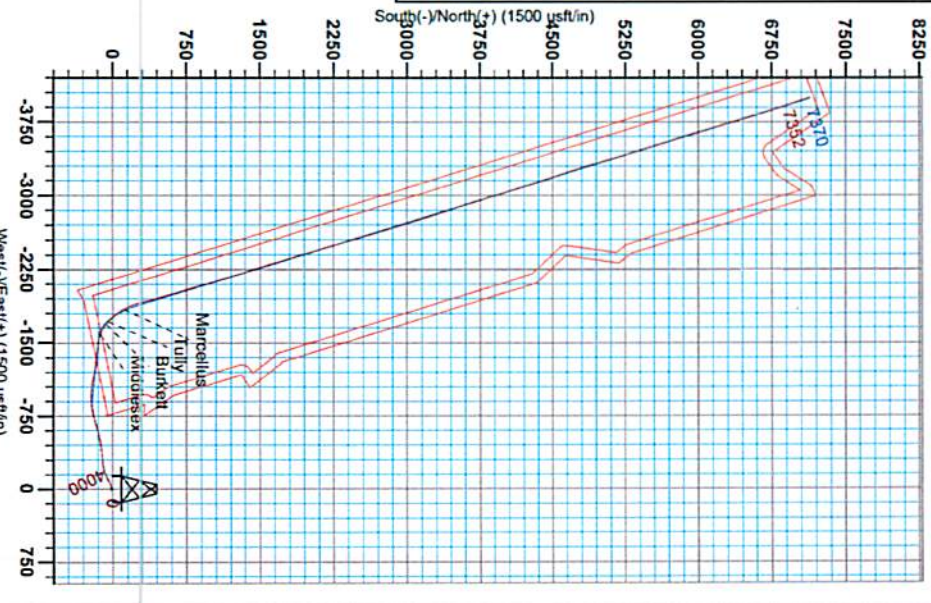


Genie Lightfoot
 11:31, February 13 2014
 Scientific Drilling
 421 South Eagle Lane
 Oklahoma City, OK

LEGEND

- Dorothy Unit 1H, Original Wellpath, Plan 4 VO
- As Drilled

DESIGN TARGET DETAILS					
Name	TVD	+N/S	+E/W	Northing	Easting
SHL Dorothy Unit 1H	0.0	0.0	0.0	14230768.62	1736331.61
Actual BHL Dorothy Unit 1H	7351.7	7143.1	-4000.61	14231911.70	1732330.9889



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Antero Resources

Doddridge County WV
Stewart Pad
Dorothy Unit 1H
Original Wellpath

Design: As Drilled

EOW Completion Report

13 February, 2014



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Company:	Antero Resources	Local Co-ordinate Reference:	Well Dorothy Unit 1H
Project:	Doddridge County WV	TVD Reference:	Dorothy 1H 1332 GL + 22.5 KB @ 1354.5usft
Site:	Stewart Pad	MD Reference:	Dorothy 1H 1332 GL + 22.5 KB @ 1354.5usft
Well:	Dorothy Unit 1H	North Reference:	Grid
Wellbore:	Original Wellpath	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Oklahoma District

Project	Doddridge County WV, McClellan District		
Map System:	Universal Transverse Mercator (US Survey Fee	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Zone 17N (84 W to 78 W)		

Site	Stewart Pad		
Site Position:		Northing:	14,230,768.62 usft
From:	Map	Easting:	1,736,331.61 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"
		Latitude:	39° 11' 18.788 N
		Longitude:	80° 39' 41.367 W
		Grid Convergence:	0.21 °

Well	Dorothy Unit 1H, Marcellus		
Well Position	+N/-S	0.0 usft	Northing: 14,230,768.62 usft
	+E/-W	0.0 usft	Easting: 1,736,331.61 usft
Position Uncertainty	2.0 usft	Wellhead Elevation:	1,354.5 usft
		Latitude:	39° 11' 18.788 N
		Longitude:	80° 39' 41.367 W
		Ground Level:	1,332.0 usft

Wellbore	Original Wellpath		
Magnetics	Mode Name	Sample Date	Declination (°)
	GRF2010	9/22/2013	-8.51
			Dip Angle (°) 66.79
			Field Strength (nT) 52,316

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)
	0.0	0.0	0.0
			Direction (°) 342.98

Survey Program	Date	2/13/2014		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
109.5	3,395.5	Survey #1 Def Gyro to KOP (Original Well	SDI Standard Keeper	Scientific Drilling Intl. Standard Wireline Keeper
3,409.5	5,697.5	Survey #3 Final Gyro (Original Wellpath)	SDI Standard Keeper	Scientific Drilling Intl. Standard Wireline Keeper
5,788.0	15,236.0	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	
109.5	0.35	144.63	109.5	-0.3	0.2	-0.3	0.32	
209.5	0.37	107.71	209.5	-0.6	0.7	-0.8	0.23	
309.5	0.20	180.27	309.5	-0.9	1.0	-1.1	0.36	
409.5	0.24	133.63	409.5	-1.2	1.1	-1.5	0.18	
509.5	0.27	170.00	509.5	-1.6	1.3	-1.9	0.16	
609.5	0.23	179.05	609.5	-2.0	1.4	-2.3	0.06	
709.5	0.26	161.71	709.5	-2.4	1.4	-2.8	0.08	
809.5	0.33	167.72	809.5	-2.9	1.6	-3.3	0.08	
909.5	0.18	210.50	909.5	-3.4	1.6	-3.7	0.23	

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Company:	Antero Resources	Local Co-ordinate Reference:	Well Dorothy Unit 1H
Project:	Doddridge County WV	TVD Reference:	Dorothy 1H 1332 GL + 22.5 KB @ 1354.5usft
Site:	Stewart Pad	MD Reference:	Dorothy 1H 1332 GL + 22.5 KB @ 1354.5usft
Well:	Dorothy Unit 1H	North Reference:	Grid
Wellbore:	Original Wellpath	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Oklahoma District

Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)		TVD (usft)	N/S (usft)	EW (usft)	V. Sec (usft)	DLeg (°/100usft)	
1,009.5	0.27	190.74		1,009.5	-3.7	1.4	-4.0		0.12
1,109.5	0.21	150.65		1,109.5	-4.1	1.5	-4.4		0.17
1,209.5	0.37	159.80		1,209.5	-4.6	1.7	-4.9		0.17
1,309.5	0.38	136.08		1,309.5	-5.1	2.0	-5.5		0.15
1,409.5	0.38	164.14		1,409.5	-5.7	2.3	-6.1		0.18
1,509.5	0.33	143.24		1,509.5	-6.2	2.6	-6.7		0.14
1,609.5	0.70	149.04		1,609.5	-7.0	3.1	-7.6		0.37
1,709.5	0.46	118.83		1,709.5	-7.7	3.8	-8.5		0.38
1,809.5	0.67	144.49		1,809.5	-8.4	4.5	-9.3		0.32
1,909.5	0.45	127.51		1,909.5	-9.1	5.1	-10.2		0.27
2,009.5	0.54	128.42		2,009.5	-9.6	5.8	-10.9		0.09
2,109.5	0.71	134.82		2,109.5	-10.3	6.6	-11.8		0.18
2,209.5	0.41	110.97		2,209.4	-10.9	7.4	-12.6		0.37
2,309.5	0.55	114.26		2,309.4	-11.2	8.1	-13.1		0.14
2,409.5	0.63	111.91		2,409.4	-11.6	9.1	-13.8		0.08
2,509.5	0.56	114.48		2,509.4	-12.0	10.0	-14.5		0.07
2,609.5	0.30	135.97		2,609.4	-12.4	10.7	-15.0		0.30
2,709.5	0.11	243.64		2,709.4	-12.7	10.8	-15.3		0.35
2,809.5	0.31	280.94		2,809.4	-12.7	10.4	-15.1		0.23
2,909.5	0.18	283.84		2,909.4	-12.6	10.0	-14.9		0.13
3,009.5	0.42	273.12		3,009.4	-12.5	9.5	-14.7		0.25
3,109.5	0.17	258.21		3,109.4	-12.5	9.0	-14.6		0.26
3,209.5	0.25	272.60		3,209.4	-12.5	8.6	-14.5		0.10
3,309.5	0.36	312.30		3,309.4	-12.3	8.2	-14.2		0.23
3,395.5	0.46	294.03		3,395.4	-12.0	7.6	-13.7		0.19
3,409.5	0.62	280.03		3,409.4	-12.0	7.5	-13.6		1.47
3,509.5	6.02	268.68		3,509.2	-12.0	1.7	-12.0		5.41
3,609.5	10.21	264.74		3,608.2	-12.9	-12.3	-8.7		4.22
3,709.5	13.99	255.42		3,706.0	-16.8	-32.9	-6.4		4.24
3,809.5	18.53	245.73		3,802.0	-26.4	-59.1	-7.9		5.27
3,909.5	19.96	244.25		3,896.4	-40.3	-88.9	-12.5		1.51
4,009.5	20.68	243.43		3,990.1	-55.6	-120.1	-18.0		0.77
4,109.5	21.87	246.87		4,083.3	-70.8	-153.0	-22.9		1.72
4,209.5	22.53	254.00		4,175.9	-83.4	-188.6	-24.6		2.77
4,309.5	23.64	259.82		4,267.9	-92.3	-226.7	-21.8		2.54
4,409.5	25.16	265.40		4,359.0	-97.5	-267.7	-14.9		2.76
4,509.5	25.38	264.95		4,449.4	-101.1	-310.2	-5.9		0.29
4,609.5	24.71	263.72		4,540.0	-105.3	-352.3	2.5		0.85
4,709.5	23.03	263.02		4,631.5	-109.9	-392.5	9.8		1.70
4,809.5	24.33	263.47		4,723.1	-114.7	-432.4	16.9		1.31
4,909.5	24.29	260.04		4,814.2	-120.6	-473.1	23.2		1.41
5,009.5	23.40	258.10		4,905.7	-128.2	-512.8	27.5		1.19
5,109.5	24.05	257.21		4,997.2	-136.8	-552.1	30.8		0.74
5,209.5	23.28	255.68		5,088.8	-146.2	-591.1	33.2		0.98
5,309.5	23.85	254.37		5,180.5	-156.5	-629.8	34.6		0.77



17.06243

EOW Completion Report



Company:	Antero Resources	Local Co-ordinate Reference:	Well Dorothy Unit 1H
Project:	Doddridge County WV	TVD Reference:	Dorothy 1H 1332 GL + 22.5 KB @ 1354.5usft
Site:	Stewart Pad	MD Reference:	Dorothy 1H 1332 GL + 22.5 KB @ 1354.5usft
Well:	Dorothy Unit 1H	North Reference:	Grid
Wellbore:	Original Wellpath	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Oklahoma District

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	V. Sec (usft)	DLeg (°/100usft)	
5,409.5	23.00	252.79	5,272.2	-167.8	-667.9	35.1	1.06	
5,509.5	25.07	255.22	5,363.6	-179.0	-707.0	35.8	2.29	
5,609.5	26.76	256.19	5,453.5	-189.7	-749.4	37.9	1.74	
5,697.5	27.56	257.93	5,531.8	-198.7	-788.6	40.8	1.28	
5,788.0	28.14	260.58	5,611.8	-206.6	-830.1	45.4	1.51	
5,883.0	28.75	262.77	5,695.3	-213.1	-874.8	52.3	1.27	
5,977.0	27.70	265.76	5,778.2	-217.6	-919.1	60.9	1.87	
6,071.0	27.44	271.74	5,861.5	-218.6	-962.5	72.7	2.96	
6,164.0	26.91	274.90	5,944.3	-216.1	-1,004.9	87.5	1.65	
6,259.0	27.73	275.82	6,028.7	-212.0	-1,048.3	104.1	0.97	
6,353.0	27.96	279.12	6,111.8	-206.3	-1,091.8	122.3	1.66	
6,447.0	28.40	280.44	6,194.6	-198.8	-1,135.6	142.3	0.81	
6,541.0	29.55	281.58	6,276.9	-190.1	-1,180.3	163.7	1.36	
6,635.0	27.48	280.31	6,359.5	-181.5	-1,224.3	184.8	2.29	
6,730.0	27.52	277.45	6,443.7	-174.8	-1,267.6	203.9	1.39	
6,824.0	27.87	275.96	6,527.0	-169.7	-1,311.0	221.5	0.83	
6,918.0	28.67	279.03	6,609.8	-163.9	-1,355.1	240.0	1.77	
7,014.0	27.71	278.19	6,694.4	-157.1	-1,400.0	259.6	1.08	
7,108.0	27.79	277.45	6,777.6	-151.1	-1,443.3	278.0	0.38	
7,204.0	27.70	275.87	6,862.5	-145.9	-1,487.7	295.9	0.77	
7,296.0	28.49	278.42	6,943.7	-140.5	-1,530.7	313.7	1.56	
7,343.0	27.87	279.12	6,985.1	-137.1	-1,552.6	323.3	1.49	
7,373.0	29.26	283.85	7,011.5	-134.3	-1,566.7	330.2	8.85	
7,404.0	31.13	289.76	7,038.3	-129.7	-1,581.6	338.9	11.32	
7,415.0	31.71	291.50	7,047.6	-127.7	-1,587.0	342.4	9.81	
Middlesex								
7,434.0	32.77	294.38	7,063.7	-123.8	-1,596.3	348.9	9.81	
7,465.0	34.56	298.19	7,089.5	-116.2	-1,611.7	360.7	8.93	
7,495.0	37.37	301.09	7,113.8	-107.4	-1,627.0	373.5	10.95	
7,525.0	40.38	302.80	7,137.2	-97.5	-1,642.9	387.7	10.65	
7,556.0	43.18	304.43	7,160.3	-86.0	-1,660.1	403.7	9.69	
7,586.0	45.90	306.81	7,181.7	-73.8	-1,677.2	420.4	10.64	
7,603.0	47.53	308.04	7,193.3	-66.2	-1,687.1	430.5	10.96	
Burkett								
7,617.0	48.89	309.00	7,202.6	-59.7	-1,695.2	439.1	10.96	
7,647.0	51.70	311.47	7,221.8	-44.8	-1,712.8	458.5	11.31	
Tully								
7,677.0	55.05	313.57	7,239.7	-28.6	-1,730.6	479.2	12.50	
7,707.0	58.67	316.20	7,256.1	-10.8	-1,748.4	501.4	14.12	
7,738.0	62.17	317.09	7,271.4	8.8	-1,766.9	525.6	11.56	
7,768.0	65.51	320.17	7,284.6	29.0	-1,784.6	550.1	14.45	
7,799.0	68.86	323.16	7,296.6	51.4	-1,802.4	576.7	13.99	
7,830.0	70.17	326.67	7,307.5	75.2	-1,819.0	604.3	11.42	
7,860.0	72.61	329.48	7,317.1	99.3	-1,834.1	631.8	12.04	

17-06243



EOW Completion Report



Company:	Antero Resources	Local Co-ordinate Reference:	Well Dorothy Unit 1H
Project:	Doddridge County WV	TVD Reference:	Dorothy 1H 1332 GL + 22.5 KB @ 1354.5usft
Site:	Stewart Pad	MD Reference:	Dorothy 1H 1332 GL + 22.5 KB @ 1354.5usft
Well:	Dorothy Unit 1H	North Reference:	Grid
Wellbore:	Original Wellpath	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Oklahoma District

Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)
7,876.0	74.10	330.70	7,321.7	112.6	-1,841.7	646.7	11.86
Marcellus							
7,891.0	75.51	331.83	7,325.6	125.3	-1,848.7	660.9	11.86
7,922.0	78.61	333.61	7,332.5	152.1	-1,862.5	690.6	11.46
7,953.0	81.95	336.06	7,337.8	179.8	-1,875.5	720.9	13.29
7,985.0	85.93	339.32	7,341.1	209.2	-1,887.6	752.5	16.04
8,010.0	87.49	341.79	7,342.6	232.7	-1,895.9	777.5	11.67
8,060.0	89.63	346.77	7,343.8	280.8	-1,909.4	827.4	10.84
8,137.0	91.19	346.27	7,343.3	355.7	-1,927.4	904.3	2.13
8,236.0	87.78	343.85	7,344.2	451.3	-1,952.9	1,003.2	4.22
8,327.0	89.76	343.73	7,346.1	538.7	-1,978.3	1,094.2	2.18
8,422.0	90.31	343.55	7,346.1	629.8	-2,005.0	1,189.1	0.61
8,517.0	90.48	343.37	7,345.4	720.9	-2,032.1	1,284.1	0.26
8,611.0	90.48	342.40	7,344.6	810.7	-2,059.7	1,378.1	1.03
8,706.0	89.25	344.25	7,344.8	901.7	-2,087.0	1,473.1	2.34
8,801.0	89.08	344.24	7,346.2	993.2	-2,112.8	1,568.1	0.18
8,895.0	90.24	343.57	7,346.8	1,083.5	-2,138.8	1,662.1	1.43
8,990.0	90.31	343.46	7,346.3	1,174.6	-2,165.8	1,757.1	0.14
9,085.0	89.13	343.25	7,346.8	1,265.6	-2,193.0	1,852.1	1.26
9,179.0	89.43	342.05	7,348.0	1,355.3	-2,221.0	1,946.1	1.32
9,274.0	89.87	342.23	7,348.6	1,445.7	-2,250.2	2,041.0	0.50
9,369.0	89.60	341.35	7,349.0	1,536.0	-2,279.9	2,136.0	0.97
9,464.0	90.57	343.81	7,348.9	1,626.6	-2,308.3	2,231.0	2.78
9,559.0	90.31	343.11	7,348.1	1,717.7	-2,335.3	2,326.0	0.79
9,653.0	89.08	341.79	7,348.6	1,807.3	-2,363.7	2,420.0	1.92
9,748.0	90.40	344.25	7,349.1	1,898.1	-2,391.4	2,515.0	2.94
9,842.0	89.08	343.28	7,349.5	1,988.4	-2,417.7	2,609.0	1.74
9,937.0	89.16	345.40	7,350.9	2,079.8	-2,443.3	2,703.9	2.23
10,032.0	90.31	344.34	7,351.4	2,171.5	-2,468.1	2,798.9	1.65
10,126.0	90.40	344.78	7,350.8	2,262.1	-2,493.2	2,892.8	0.48
10,221.0	90.40	344.16	7,350.1	2,353.7	-2,518.6	2,987.8	0.65
10,316.0	89.87	343.81	7,349.9	2,445.0	-2,544.8	3,082.8	0.67
10,411.0	91.10	343.90	7,349.1	2,536.2	-2,571.2	3,177.8	1.30
10,506.0	91.54	343.99	7,346.9	2,627.5	-2,597.5	3,272.7	0.47
10,601.0	90.75	342.93	7,345.0	2,718.6	-2,624.5	3,367.7	1.39
10,696.0	90.84	343.02	7,343.7	2,809.4	-2,652.3	3,462.7	0.13
10,791.0	89.70	342.69	7,343.3	2,900.2	-2,680.4	3,557.7	1.25
10,885.0	89.87	342.59	7,343.6	2,989.9	-2,708.4	3,651.7	0.21
10,980.0	90.22	343.72	7,343.5	3,080.8	-2,735.9	3,746.7	1.25
11,075.0	89.78	342.67	7,343.5	3,171.7	-2,763.4	3,841.7	1.20
11,170.0	90.40	341.70	7,343.4	3,262.2	-2,792.5	3,936.7	1.21
11,265.0	90.57	341.88	7,342.6	3,352.4	-2,822.1	4,031.7	0.26
11,360.0	90.92	342.32	7,341.4	3,442.8	-2,851.3	4,126.6	0.59
11,455.0	90.13	342.40	7,340.5	3,533.3	-2,880.1	4,221.6	0.84
11,549.0	90.30	342.97	7,340.1	3,623.1	-2,908.1	4,315.6	0.63

Company:	Antero Resources	Local Co-ordinate Reference:	Well Dorothy Unit 1H
Project:	Doddridge County WV	TVD Reference:	Dorothy 1H 1332 GL + 22.5 KB @ 1354.5usft
Site:	Stewart Pad	MD Reference:	Dorothy 1H 1332 GL + 22.5 KB @ 1354.5usft
Well:	Dorothy Unit 1H	North Reference:	Grid
Wellbore:	Original Wellpath	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Oklahoma District

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)
11,644.0	90.40	343.46	7,339.5	3,714.0	-2,935.5	4,410.6	0.53
11,739.0	88.37	341.70	7,340.6	3,804.7	-2,964.0	4,505.6	2.83
11,834.0	89.60	342.23	7,342.2	3,895.0	-2,993.4	4,600.6	1.41
11,928.0	90.66	341.96	7,342.0	3,984.4	-3,022.3	4,694.6	1.16
12,023.0	89.52	343.90	7,341.9	4,075.2	-3,050.2	4,789.5	2.37
12,118.0	89.87	344.42	7,342.4	4,166.6	-3,076.1	4,884.5	0.66
12,213.0	91.01	344.42	7,341.7	4,258.1	-3,101.6	4,979.5	1.20
12,308.0	90.48	343.19	7,340.4	4,349.3	-3,128.1	5,074.5	1.41
12,403.0	88.02	339.06	7,341.7	4,439.2	-3,158.8	5,169.4	5.06
12,498.0	88.90	341.00	7,344.2	4,528.5	-3,191.3	5,264.2	2.24
12,593.0	90.31	340.73	7,344.9	4,618.2	-3,222.4	5,359.2	1.51
12,689.0	90.92	341.88	7,343.8	4,709.1	-3,253.2	5,455.1	1.36
12,784.0	90.84	343.11	7,342.4	4,799.7	-3,281.7	5,550.1	1.30
12,878.0	90.13	344.51	7,341.6	4,890.0	-3,307.9	5,644.1	1.67
12,973.0	90.57	344.16	7,341.0	4,981.5	-3,333.6	5,739.0	0.59
13,068.0	88.55	344.86	7,341.7	5,073.0	-3,359.0	5,834.0	2.25
13,163.0	89.25	343.46	7,343.6	5,164.4	-3,384.9	5,929.0	1.65
13,258.0	90.04	342.32	7,344.2	5,255.2	-3,412.8	6,024.0	1.46
13,353.0	92.24	343.19	7,342.3	5,345.9	-3,441.0	6,118.9	2.49
13,448.0	92.51	342.58	7,338.3	5,436.6	-3,468.9	6,213.8	0.70
13,542.0	92.25	342.03	7,334.4	5,526.1	-3,497.5	6,307.8	0.65
13,635.0	89.52	342.40	7,333.0	5,614.6	-3,525.9	6,400.7	2.96
13,730.0	89.60	342.49	7,333.7	5,705.2	-3,554.5	6,495.7	0.13
13,825.0	89.52	343.46	7,334.4	5,796.0	-3,582.3	6,590.7	1.02
13,920.0	89.78	343.28	7,335.0	5,887.0	-3,609.5	6,685.7	0.33
14,014.0	89.34	343.02	7,335.8	5,977.0	-3,636.8	6,779.7	0.54
14,109.0	89.60	342.75	7,336.6	6,067.8	-3,664.7	6,874.7	0.39
14,204.0	88.02	343.99	7,338.6	6,158.8	-3,691.9	6,969.7	2.11
14,299.0	90.57	345.13	7,339.8	6,250.3	-3,717.2	7,064.6	2.94
14,394.0	89.34	343.72	7,339.8	6,341.8	-3,742.7	7,159.6	1.97
14,489.0	89.06	343.65	7,341.2	6,433.0	-3,769.4	7,254.6	0.30
14,584.0	90.31	343.37	7,341.7	6,524.1	-3,796.3	7,349.6	1.35
14,679.0	88.11	343.19	7,343.0	6,615.1	-3,823.7	7,444.6	2.32
14,774.0	88.81	342.58	7,345.6	6,705.8	-3,851.6	7,539.5	0.98
14,869.0	89.43	340.91	7,347.0	6,796.0	-3,881.4	7,634.5	1.87
14,964.0	89.34	341.17	7,348.0	6,885.9	-3,912.2	7,729.4	0.29
15,059.0	89.34	341.35	7,349.1	6,975.8	-3,942.8	7,824.4	0.19
15,153.0	88.99	340.38	7,350.5	7,064.6	-3,973.6	7,918.3	1.10
15,184.0	89.09	340.47	7,351.0	7,093.8	-3,984.0	7,949.3	0.43
15,236.0	89.47	342.12	7,351.7	7,143.1	-4,000.6	8,001.2	3.26

Company:	Antero Resources	Local Co-ordinate Reference:	Well Dorothy Unit 1H
Project:	Doddridge County WV	TVD Reference:	Dorothy 1H 1332 GL + 22.5 KB @ 1354.5usft
Site:	Stewart Pad	MD Reference:	Dorothy 1H 1332 GL + 22.5 KB @ 1354.5usft
Well:	Dorothy Unit 1H	North Reference:	Grid
Wellbore:	Original Wellpath	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Oklahoma District

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7,415.0	7,047.6	-127.7	-1,587.0	Middlesex
7,603.0	7,193.3	-66.2	-1,687.1	Burkett
7,647.0	7,221.8	-44.8	-1,712.8	Tully
7,876.0	7,321.7	112.6	-1,841.7	Marcellus

Checked By: _____	Approved By: _____	Date: _____
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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	6/12/2014
Job End Date:	6/30/2014
State:	West Virginia
County:	Doddridge
API Number:	47-017-06243-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Dorothy Unit 1H
Longitude:	-80.66149200
Latitude:	39.18855300
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	7,351
Total Base Water Volume (gal):	9,245,502
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
Freshwater	Republic Energy	Frac Base	Water	7732-18-5	100.00000	92.06360	None
40/70 White Sand	US Silica	Proppant	Sand	14808-60-7	100.00000	4.46226	None
20/40 White Sand	US Silica	Proppant	Sand	14808-60-7	100.00000	2.48695	None
100 Mesh	US Silica	Proppant	Sand	14808-60-7	100.00000	0.57247	None
Plexsick 953	Chemplex	Friction Reducer	Water	7732-18-5	35.00000	0.02274	None
			Polyacrylamide-co-acrylic acid	Proprietary	32.00000	0.02079	None
			Hydroreated Petroleum Distillate	54742-47-8	30.00000	0.01945	None
			Alcohol Ethoxylate Surfactants	Proprietary	8.00000	0.00520	None
SOS 1545	Ultrablend	Guar Gel	Hydrocarbons	64741-85-1	70.00000	0.05974	None
HCl Acid 10-15%	GoFrac	Acid	Hydrochloric Acid	7647-01-0	15.00000	0.03436	None
Plexaid 673	Chemplex	Scale Inhibitor	Water	7732-18-5	85.00000	0.01170	None

17-06243



17-06243

			Methyl Alcohol	67-56-1	25.00000	0.00344	None
			Sodium Salt of Phosphonodimethylated Diamine	Proprietary	5.00000	0.00069	None
Plexicide 15G	Chemplex	Bioicide	Water	7732-18-5	90.00000	0.01062	None
			Glutaraldehyde	111-30-8	14.00000	0.00165	None
			Didecyl Dimethyl Ammonium Chloride	7173-51-5	3.00000	0.00035	None
			Ethanol	64-17-5	3.00000	0.00035	None
			Alkyl Dimethyl Benzyl Ammonium Chloride	68424-85-1	3.00000	0.00035	None
Sodium Persulfate	Chemplex	Active Breaker	Sodium Persulfate	7775-27-1	100.00000	0.00143	None
Greenflush	Chemplex	Cleaner	Alcohol Ethoxylate Surfactants	Proprietary	10.00000	0.00070	None
Ferriplex 66	Chemplex	Iron Control	Acetic Acid	64-19-7	50.00000	0.00025	None
			Water	7732-18-5	35.00000	0.00018	None
			Citric Acid	77-92-9	30.00000	0.00015	None
Plexhib 256	Chemplex	Corrosion Inhibitor	Methyl Alcohol	67-56-1	70.00000	0.00026	None
			Alcohol Ethoxylate Surfactants	Proprietary	30.00000	0.00011	None
			Thiourea-formaldehyde copolymer	68527-49-1	30.00000	0.00011	None
			n-olefins	Proprietary	10.00000	0.00004	None
			Propargyl Alcohol	107-19-7	8.00000	0.00003	None
Plexbreak 145	Chemplex	Non-Emulsifier	Water	7732-18-5	66.00000	0.00027	None
			Methyl Alcohol	67-56-1	15.00000	0.00006	None
			Ethylene Glycol Monobutyl Ether	111-76-2	15.00000	0.00006	None
			Cocamide Diethanolamine Salt	85603-42-9	10.00000	0.00004	None
			Diethanolamine	111-42-2	5.00000	0.00002	None

Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.

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

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

LATITUDE 39°12'30"

10,343'

1H BOTTOM HOLE
2,508' TO BOTTOM HOLE

LATITUDE 39°12'30"

LONGITUDE 80°40'00"

7,197'

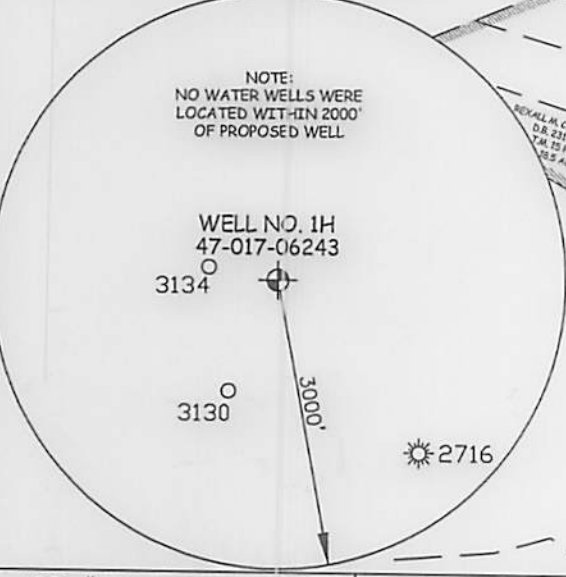
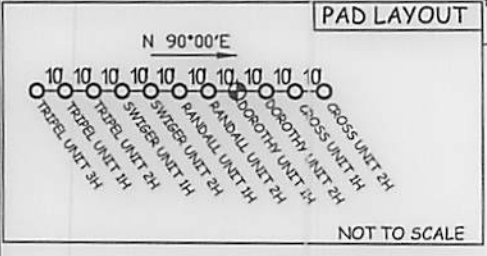
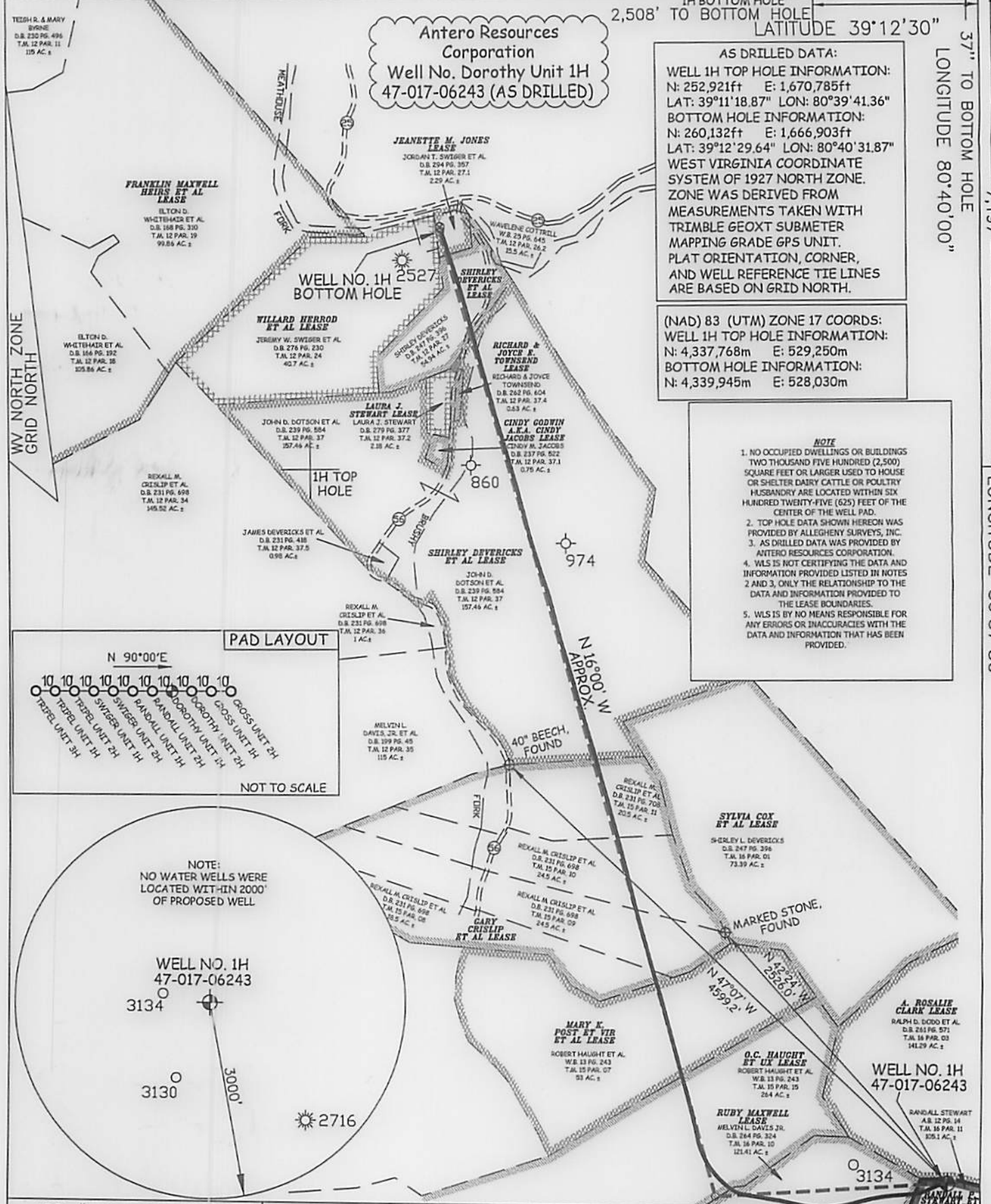
LONGITUDE 80°37'30"

Antero Resources Corporation
Well No. Dorothy Unit 1H
47-017-06243 (AS DRILLED)

AS DRILLED DATA:
WELL 1H TOP HOLE INFORMATION:
N: 252,921ft E: 1,670,785ft
LAT: 39°11'18.87" LON: 80°39'41.36"
BOTTOM HOLE INFORMATION:
N: 260,132ft E: 1,666,903ft
LAT: 39°12'29.64" LON: 80°40'31.87"
WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE. ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE GEOXT SUBMETER MAPPING GRADE GPS UNIT. PLAT ORIENTATION, CORNER, AND WELL REFERENCE TIE LINES ARE BASED ON GRID NORTH.

(NAD) 83 (UTM) ZONE 17 COORDS:
WELL 1H TOP HOLE INFORMATION:
N: 4,337,768m E: 529,250m
BOTTOM HOLE INFORMATION:
N: 4,339,945m E: 528,030m

- 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.



JOB # 12-119WA
DRAWING # DOROTHY1HAD
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 - x - Existing Fence
- Found monument, as noted
- Proposed Well Path
- ⊗ As Drilled Well Path

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

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

LOCATION: ELEVATION 1,361' ORIGINAL - 1,334' AS-DRILLED WATERSHED HEADWATERS MIDDLE ISLAND CREEK
QUADRANGLE NEW MILTON 7.5' DISTRICT NEW MILTON COUNTY DODDRIDGE

SURFACE OWNER RANDALL STEWART ACREAGE 105.1 ACRES +/-
OIL & GAS ROYALTY OWNER RANDALL P. STEWART ET AL; RUBY MAXWELL; O.C. HAUGHT ET UX; LEASE ACREAGE 195 ACRES+; 121 ACRES+; 264 ACRES+;
MARY K. POST ET VIR ET AL; GARY CRISLIP ET AL; SHIRLEY DEVERICKS ET AL; SHIRLEY DEVERICKS ET AL; JEANETTE M. JONES 53 ACRES+; 88 ACRES+; 157 ACRES+; 15.5 ACRES+; 2.29 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 PLUG & ABANDON CLEAN OUT & REPLUG

TARGET FORMATION MARCELLUS ESTIMATED DEPTH 7,352' TVD 15,236' MD

WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER
ADDRESS 1615 WYNKOOP STREET ADDRESS CT CORPORATION SYSTEM
FORM WW-6 DENVER, CO 80202 ADDRESS 5400 D BIG TYLER ROAD CHARLESTON, WV 25313

DATE 04/22/15
OPERATOR'S WELL# DOROTHY UNIT #1H
API WELL # 47 - 017 - 06243
STATE COUNTY PERMIT

10/23/2015

COUNTY NAME PERMIT