

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

API 47-017-06296 County Doddridge District New Milton
Quad New Milton Pad Name Swisher Pad Field/Pool Name _____
Farm name Swisher, Leona Well Number Swisher Unit 2H
Operator (as registered with the OOG) Antero Resources Corporation
Address 1615 Wynkoop Street City Denver State CO Zip 80202

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4,340,182.523m Easting 528,815.228m
Landing Point of Curve Northing 4,340,182.55m Easting 529,432.74m
Bottom Hole Northing 4,337,780.778m Easting 530,164.736m

Elevation (ft) 980' 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 07/30/2013 Date drilling commenced 12/8/2013 Date plugging ceased 01/13/2014
Date completion activities began 02/17/2014 Date completion activities ceased JUL 08/23/2014
Verbal plugging (Y/N) N/A Date permission granted N/A Granted by N/A

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

Freshwater depth(s) ft 105' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 1,257' 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:
AL 8/21/15
10/23/2015

API 47-017 - 06296 Farm name Swisher, Leona Well number Swisher Unit 2H

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade w/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	30"	20"	90'	New	94#; H-40	N/A	Yes
Surface	17- 1/2"	13 3/8"	377'	New	48#; H-40	N/A	Yes
Coal							
Intermediate 1	12-1/4"	9 5/8"	2,630'	New	36#; J-55	N/A	Yes
Intermediate 2							
Intermediate 3							
Production	8-3/4"	5 1/2"	15,939'	New	23#; P110	N/A	Yes
Tubing		2 3/8"	7,451'	New	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	424	15.6	1.18	245	0'	8 Hrs.
Surface	Class A	432	15.6	1.18	262	0'	8 Hrs.
Coal							
Intermediate 1	Class A	1,023	15.6	1.18	824	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	1,182 ex (lead), 1,329 ex (tail)	13.5 Lead; 15.2 Tail	Lead 1.3; Tail 1.86	3,164	-500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 15,941' MD, 6,956' TVD; 6,981' TVD (Deepest point drilled) Loggers TD (ft) 15,895'
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 6,975'

**This is a subsequent well. Antero only runs wireline logs on one well on a multi-well pad (Josie Unit 1H, API #47-017-06265). Please reference the wireline logs submitted with Form WR-35 for the Josie Unit 1H. A Cement Bond Log has been included with this submittal.

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

Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING _____

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

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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 _____

API 47-017-06296 Farm Name Swisher, Leoan. Well Number Swisher Unit 2H

EXHIBIT 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	17-Feb-14	15,660	15,849	60	Marcellus
2	7-Apr-14	15,463	15,629	60	Marcellus
3	7-Apr-14	15,266	15,432	60	Marcellus
4	7-Apr-14	15,069	15,235	60	Marcellus
5	7-Apr-14	14,872	15,038	60	Marcellus
6	8-Apr-14	14,675	14,841	60	Marcellus
7	8-Apr-14	14,478	14,644	60	Marcellus
8	8-Apr-14	14,280	14,447	60	Marcellus
9	9-Apr-14	14,083	14,250	60	Marcellus
10	9-Apr-14	13,886	14,053	60	Marcellus
11	6-Apr-14	13,689	13,856	60	Marcellus
12	9-Apr-14	13,492	13,658	60	Marcellus
13	10-Apr-14	13,295	13,461	60	Marcellus
14	10-Apr-14	13,098	13,264	60	Marcellus
15	10-Apr-14	12,901	13,067	60	Marcellus
16	10-Apr-14	12,704	12,870	60	Marcellus
17	10-Apr-14	12,507	12,673	60	Marcellus
18	11-Apr-14	12,310	12,476	60	Marcellus
19	11-Apr-14	12,113	12,279	60	Marcellus
20	11-Apr-14	11,916	12,082	60	Marcellus
21	11-Apr-14	11,719	11,885	60	Marcellus
22	11-Apr-14	11,522	11,688	60	Marcellus
23	12-Apr-14	11,324	11,491	60	Marcellus
24	12-Apr-14	11,127	11,294	60	Marcellus
25	12-Apr-14	10,930	11,097	60	Marcellus
26	12-Apr-14	10,733	10,899	60	Marcellus
27	12-Apr-14	10,536	10,702	60	Marcellus
28	13-Apr-14	10,339	10,505	60	Marcellus
29	13-Apr-14	10,142	10,308	60	Marcellus
30	13-Apr-14	9,945	10,111	60	Marcellus
31	14-Apr-14	9,748	9,914	60	Marcellus
32	14-Apr-14	9,551	9,717	60	Marcellus
33	14-Apr-14	9,354	9,520	60	Marcellus
34	15-Apr-14	9,157	9,323	60	Marcellus
35	15-Apr-14	8,960	9,126	60	Marcellus
36	15-Apr-14	8,763	8,929	60	Marcellus
37	15-Apr-14	8,565	8,732	60	Marcellus
38	15-Apr-14	8,368	8,535	60	Marcellus
39	16-Apr-14	8,171	8,338	60	Marcellus
40	16-Apr-14	7,974	8,140	60	Marcellus
41	16-Apr-14	7,777	7,943	60	Marcellus
42	16-Apr-14	7,580	7,746	60	Marcellus

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API 47-017-06296 Farm Name Swisher, Leona Well Number Swisher Unit 2H

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	6-Apr-14	68.4	8,352	6,082	5,380	125,025	6,546	N/A
2	7-Apr-14	70.4	8,302	6,825	5,446	172,530	6,026	N/A
3	7-Apr-14	68.3	7,984	6,570	4,686	139,855	6,301	N/A
4	7-Apr-14	67.8	8,001	6,644	4,902	160,480	6,227	N/A
5	7-Apr-14	69.5	7,814	3,332	5,074	197,345	6,281	N/A
6	8-Apr-14	68.3	8,029	6,905	5,066	185,265	5,937	N/A
7	8-Apr-14	66.0	7,964	7,190	5,848	112,950	6,170	N/A
8	8-Apr-14	73.9	8,219	6,656	4,872	224,290	5,898	N/A
9	9-Apr-14	72.3	8,060	6,478	5,008	159,915	6,381	N/A
10	9-Apr-14	65.9	8,005	6,305	4,862	96,060	6,463	N/A
11	9-Apr-14	70.1	7,768	6,221	5,097	209,650	6,099	N/A
12	9-Apr-14	78.2	7,845	6,449	5,270	224,105	5,943	N/A
13	10-Apr-14	76.6	7,851	6,110	5,334	219,260	6,461	N/A
14	10-Apr-14	71.2	7,682	6,498	5,462	224,255	5,958	N/A
15	10-Apr-14	73.3	7,707	6,258	5,344	224,320	5,872	N/A
16	10-Apr-14	70.1	7,853	6,415	5,335	224,250	5,866	N/A
17	10-Apr-14	73.2	7,012	6,230	5,181	204,385	5,853	N/A
18	11-Apr-14	74.3	7,624	6,320	5,071	224,265	5,854	N/A
19	11-Apr-14	73.7	7,609	6,267	5,054	224,230	5,827	N/A
20	11-Apr-14	71.4	7,686	6,159	5,090	224,220	5,818	N/A
21	11-Apr-14	72.5	7,594	6,163	5,123	224,230	5,806	N/A
22	11-Apr-14	74.2	7,570	6,282	5,420	224,245	5,808	N/A
23	12-Apr-14	70.7	7,608	6,415	5,190	220,305	5,784	N/A
24	12-Apr-14	74.7	7,510	6,096	5,141	224,200	5,768	N/A
25	12-Apr-14	75.6	7,597	6,522	5,281	224,200	5,758	N/A
26	12-Apr-14	75.1	7,510	6,130	5,264	224,240	5,735	N/A
27	12-Apr-14	74.3	7,695	6,076	4,971	224,260	5,748	N/A
28	13-Apr-14	76.2	7,705	5,903	5,061	224,325	5,738	N/A
29	13-Apr-14	76.5	7,553	6,122	5,174	224,250	5,709	N/A
30	13-Apr-14	76.6	7,365	5,837	5,094	224,230	5,589	N/A
31	14-Apr-14	75.4	7,568	6,590	5,440	224,590	5,757	N/A
32	14-Apr-14	75.5	7,665	6,410	5,307	225,200	5,664	N/A
33	14-Apr-14	73.4	7,600	6,304	4,980	224,530	5,664	N/A
34	15-Apr-14	77.8	7,360	6,486	5,076	224,255	5,648	N/A
35	15-Apr-14	77.2	7,347	6,055	4,836	224,485	5,644	N/A
36	15-Apr-14	77.6	7,725	5,381	5,313	224,420	5,614	N/A
37	15-Apr-14	79.1	7,578	5,847	4,754	224,245	5,614	N/A
38	15-Apr-14	77.7	7,250	5,717	4,877	224,155	5,598	N/A
39	16-Apr-14	75.6	7,442	5,909	5,169	222,445	6,000	N/A
40	16-Apr-14	76.3	7,365	6,076	5,032	220,895	5,566	N/A
41	16-Apr-14	77.0	7,632	6,040	5,253	220,870	5,652	N/A
42	16-Apr-14	77.4	7,428	6,000	4,955	217,940	5,500	N/A
AVG=		73.6	7,691	6,197	5,145	8,693,170	247,206	TOTAL

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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	105'	N/A	105'	N/A
Sandstone	Est. 11	337	Est. 11	337
Siltstone/COAL	Est. 337	381	Est. 337	381
Siltstone	Est. 381	483	Est. 381	483
Sandstone	Est. 483	571	Est. 483	571
Siltstone	Est. 571	956	Est. 571	956
Sandstone	Est. 956	973	Est. 956	973
Siltstone	Est. 973	1,005	Est. 973	1,005
Sandstone	Est. 1005	1,017	Est. 1005	1,017
Sandstone/Shale	Est. 1017	1,077	Est. 1017	1,077
Sandstone	Est. 1077	1,302	Est. 1077	1,302
Siltstone	Est. 1302	1,337	Est. 1302	1,337
Sanstone	Est. 1337	1,365	Est. 1337	1,365
Siltstone	Est. 1365	1,412	Est. 1365	1,412
Sandstone	est. 1412	1,467	est. 1412	1,467
Siltstone/ COAL	est. 1467	1,497	est. 1467	1,497
Sanstone	est. 1497	1,637	est. 1497	1,637
Siltstone/ Shale	est. 1637	1,775	est. 1637	1,775
Sandstone	est. 1775	1,807	est. 1775	1,807
Siltstone	est. 1807	2,025	est. 1807	2,025
Big Lime	2,025	2,115	2,025	2,115
Big Injun	2,115	2,331	2,115	2,331
Gantz Sand	2,331	2,484	2,331	2,484
Fifty Foot Sandstone	2,484	2,702	2,484	2,702
Gordon	2,702	3,055	2,702	3,058
Fifth Sandstone	3,055	3,107	3,058	3,112
Bayard	3,107	3,393	3,112	3,409
Warren	3,393	3,664	3,409	3,697
Speechley	3,664	3,877	3,697	3,937
Baltown	3,877	4,424	3,937	4,540
Bradford	4,424	4,821	4,540	4,993
Benson	4,821	5,216	4,993	5,448
Alexander	5,216	5,417	5,448	5,678
Elk	5,417	5,903	5,678	6,218
Rhinestreet	5,903	6,492	6,218	6,893
Sycamore	6,492	6,650	6,893	7,080
Middlesex	6,650	6,791	7,080	7,267
Burkett	6,791	6,824	7,267	7,317
Tully	6,824	6,925	7,317	7,536
Marcellus	6,925	NA	7,536	NA

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

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Antero Resources
Swisher Unit 2H
Doddridge County WV
Northing: 14238703.51
Easting: 1734910.01
As Drilled

WELL DETAILS: Swisher Unit 2H

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	14238703.51	1734910.01	39° 12' 37.297 N	80° 39' 59.058 W	

REFERENCE INFORMATION

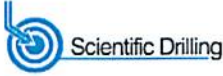
Co-ordinate (NE) Reference: Well Swisher Unit 2H, Grid North
 Vertical (TVD) Reference: Swisher 2H 976 GL + 24 KB @ 1000 Duft
 Section (VS) Reference: Slot - (0.0N, 0.0E)
 Measured Depth Reference: Swisher 2H 976 GL + 24 KB @ 1000 Duft
 Calculation Method: Minimum Curvature

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

Genie Lightfoot
 14:22, January 09 2014

Scientific Drilling
 421 South Eagle Lane
 Oklahoma City, OK

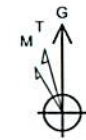
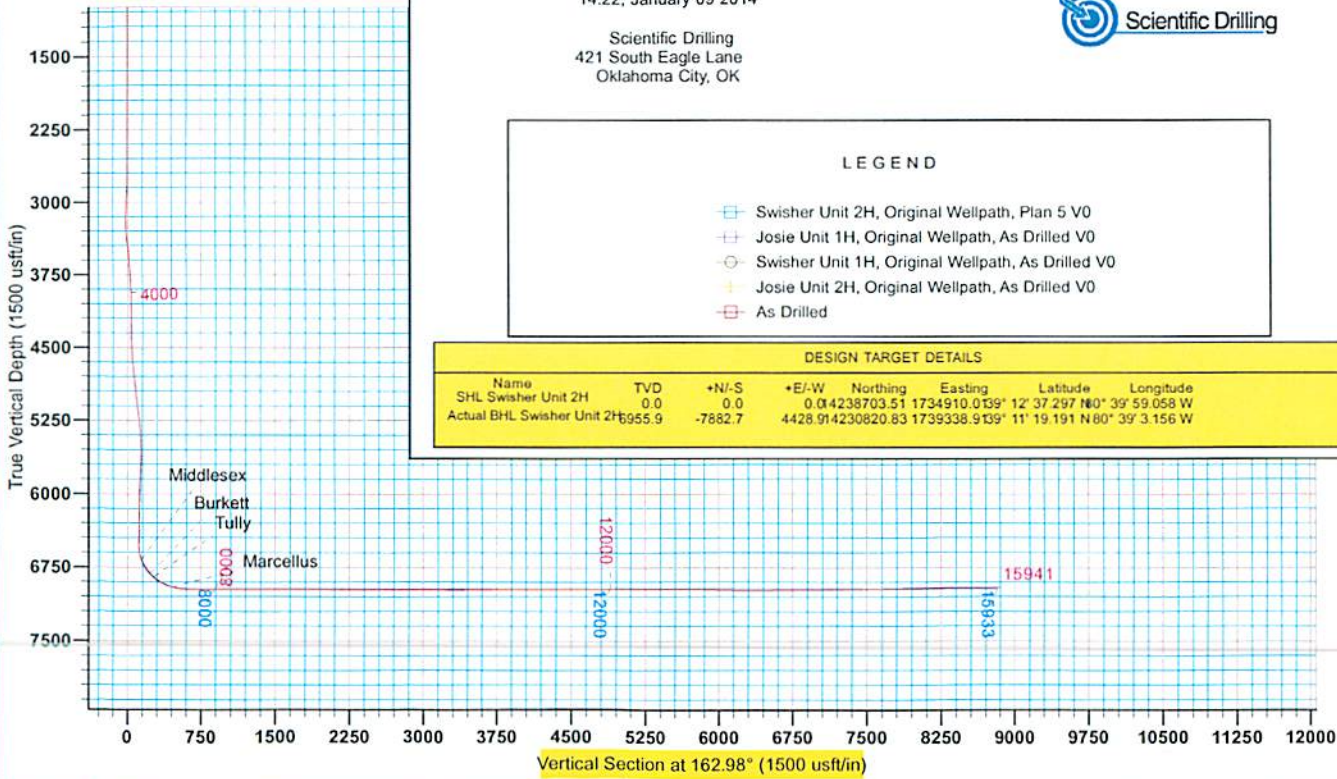


LEGEND

- Swisher Unit 2H, Original Wellpath, Plan 5 V0
- Josie Unit 1H, Original Wellpath, As Drilled V0
- Swisher Unit 1H, Original Wellpath, As Drilled V0
- Josie Unit 2H, Original Wellpath, As Drilled V0
- As Drilled

DESIGN TARGET DETAILS

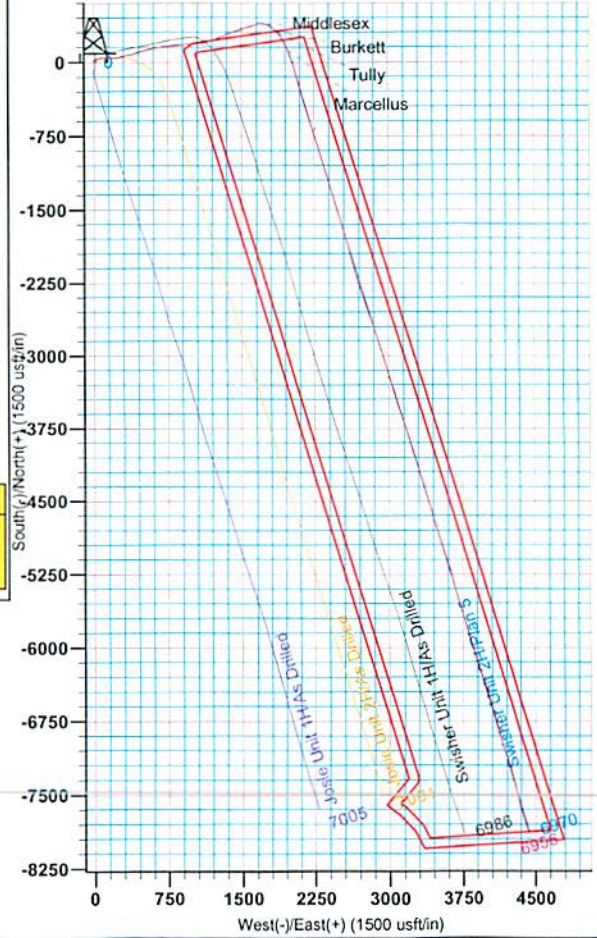
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
SHL Swisher Unit 2H	0.0	0.0	0.0	14238703.51	1734910.01	39° 12' 37.297 N	80° 39' 59.058 W
Actual BHL Swisher Unit 2H	5955.9	-7882.7	4428.91	4230820.83	1739338.91	39° 11' 19.191 N	80° 39' 3.156 W



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Azimuths to Grid North
 True North: -0.21°
 Magnetic North: -8.72°

Magnetic Field
 Strength: 52331.2uT
 Dip Angle: 66.60°
 Date: 9/21/2013
 Model: IGRF2010



17-06296

17-06296



Antero Resources

Doddridge County WV
Josie/Swisher/Union Pad
Swisher Unit 2H
Original Wellpath

Design: As Drilled

EOW Completion Report

09 January, 2014



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Scientific Drilling

10/23/2015

17-06296



EOW Completion Report



Company:	Antero Resources	Local Co-ordinate Reference:	Well Swisher Unit 2H
Project:	Doddridge County WV	TVD Reference:	Swisher 2H 976 GL + 24 KB @ 1000.0usft
Site:	Josie/Swisher/Union Pad	MD Reference:	Swisher 2H 976 GL + 24 KB @ 1000.0usft
Well:	Swisher 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	Josie/Swisher/Union Pad				
Site Position:		Northing:	14,238,711.36 usft	Latitude:	39° 12' 37.374 N
From:	Map	Easting:	1,734,928.40 usft	Longitude:	80° 39' 58.824 W
Position Uncertainty:	2.0 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.21 °

Well	Swisher Unit 2H, Marcellus					
Well Position	+N/-S	0.0 usft	Northing:	14,238,703.51 usft	Latitude:	39° 12' 37.297 N
	+E/-W	0.0 usft	Easting:	1,734,910.01 usft	Longitude:	80° 39' 59.058 W
Position Uncertainty		2.0 usft	Wellhead Elevation:	1,000.0 usft	Ground Level:	976.0 usft

Wellbore	Original Wellpath				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	9/21/2013	-8.51	66.80	52,331

Design	As Drilled				
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Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	162.98	

Survey Program	Date 1/9/2014				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	5,618.1	Survey #2 Final Gyro (Original Wellpath)	SDI Standard Keeper	Scientific Drilling Intl. Standard Wireline Keeper	
5,755.0	15,941.0	Survey #4 MWD (Original Wellpath)	MWD SDI	MWD - Standard ver 1.0.1	

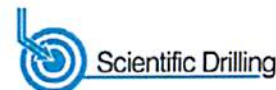
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00
100.0	1.67	320.30	100.0	1.1	-0.9	-1.3	1.67
200.0	1.40	329.17	200.0	3.3	-2.5	-3.9	0.36
300.0	0.68	330.23	299.9	4.9	-3.4	-5.6	0.72
400.0	0.44	332.59	399.9	5.7	-3.9	-6.6	0.24
500.0	0.25	344.35	499.9	6.3	-4.1	-7.2	0.20
600.0	0.15	320.31	599.9	6.6	-4.3	-7.5	0.13
700.0	0.09	294.44	699.9	6.7	-4.4	-7.7	0.08
800.0	0.07	329.41	799.9	6.8	-4.5	-7.8	0.05
900.0	0.04	298.83	899.9	6.9	-4.6	-7.9	0.04
1,000.0	0.08	277.09	999.9	6.9	-4.7	-8.0	0.05

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EOW Completion Report



Company: Antero Resources	Local Co-ordinate Reference: Well Swisher Unit 2H
Project: Doddridge County WV	TVD Reference: Swisher 2H 976 GL + 24 KB @ 1000.0usft
Site: Josie/Swisher/Union Pad	MD Reference: Swisher 2H 976 GL + 24 KB @ 1000.0usft
Well: Swisher 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)
1,100.0	0.14	246.68	1,099.9	6.8	-4.9	-8.0	0.08
1,200.0	0.02	134.13	1,199.9	6.8	-5.0	-7.9	0.15
1,300.0	0.04	198.49	1,299.9	6.7	-5.0	-7.9	0.04
1,400.0	0.04	210.74	1,399.9	6.7	-5.0	-7.8	0.01
1,500.0	0.09	39.94	1,499.9	6.7	-5.0	-7.9	0.13
1,600.0	0.08	51.90	1,599.9	6.8	-4.8	-7.9	0.02
1,700.0	0.12	28.49	1,699.9	6.9	-4.7	-8.0	0.06
1,800.0	0.14	51.11	1,799.9	7.1	-4.6	-8.1	0.05
1,900.0	0.10	68.86	1,899.9	7.2	-4.4	-8.2	0.05
2,000.0	0.08	94.40	1,999.9	7.2	-4.3	-8.2	0.04
2,100.0	0.07	136.25	2,099.9	7.2	-4.2	-8.1	0.05
2,200.0	0.04	78.30	2,199.9	7.2	-4.1	-8.0	0.06
2,300.0	0.03	165.53	2,299.9	7.1	-4.0	-8.0	0.05
2,400.0	0.07	309.79	2,399.9	7.2	-4.1	-8.0	0.10
2,500.0	0.05	295.04	2,499.9	7.2	-4.2	-8.1	0.03
2,581.1	0.05	134.95	2,581.0	7.2	-4.2	-8.1	0.12
2,600.0	0.03	159.37	2,599.9	7.2	-4.2	-8.1	0.14
2,700.0	0.76	95.76	2,699.9	7.1	-3.5	-7.8	0.75
2,800.0	3.99	68.27	2,799.8	8.3	0.4	-7.8	3.33
2,900.0	7.97	45.56	2,899.3	14.5	8.6	-11.3	4.56
3,000.0	10.11	47.99	2,998.0	25.2	20.1	-18.2	2.17
3,100.0	11.83	67.26	3,096.2	35.0	36.0	-23.0	4.03
3,200.0	15.23	73.78	3,193.4	42.7	58.1	-23.8	3.72
3,300.0	16.56	83.11	3,289.6	48.1	84.9	-21.1	2.88
3,400.0	17.57	98.23	3,385.3	47.6	114.0	-12.2	4.54
3,500.0	17.54	99.67	3,480.6	42.9	143.8	1.0	0.44
3,600.0	19.22	89.50	3,575.5	40.5	175.1	12.5	3.61
3,700.0	22.52	82.05	3,669.0	43.3	210.5	20.2	4.23
3,800.0	26.62	78.40	3,759.9	50.5	251.5	25.3	4.37
3,900.0	30.05	78.10	3,847.9	60.1	297.9	29.7	3.43
4,000.0	28.43	76.60	3,935.2	70.8	345.6	33.4	1.78
4,100.0	25.45	75.95	4,024.3	81.6	389.6	36.0	2.99
4,200.0	22.84	66.29	4,115.6	94.6	428.2	34.9	4.73
4,300.0	22.38	78.71	4,208.0	106.1	464.7	34.5	4.79
4,400.0	22.24	75.06	4,300.5	114.7	501.6	37.1	1.39
4,500.0	26.54	71.50	4,391.5	126.7	541.1	37.2	4.54
4,600.0	27.99	77.43	4,480.4	138.9	585.2	38.5	3.08
4,700.0	27.15	80.61	4,569.1	147.7	630.7	38.5	1.69
4,800.0	30.25	81.66	4,656.8	155.1	678.1	50.2	3.74
4,900.0	30.38	86.62	4,743.1	160.3	728.3	59.9	2.51
5,000.0	29.12	83.88	4,830.0	164.3	777.7	59.9	1.85
5,100.0	28.43	81.39	4,917.6	170.5	825.4	78.6	1.38
5,200.0	29.52	85.39	5,005.1	176.0	873.5	87.4	2.22
5,300.0	31.41	87.44	5,091.3	179.2	924.1	99.2	2.16

Received
Office of Oil & Gas
JUL 27 2015



Company:	Antero Resources	Local Co-ordinate Reference:	Well Swisher Unit 2H
Project:	Doddridge County WV	TVD Reference:	Swisher 2H 976 GL + 24 KB @ 1000.0usft
Site:	Josie/Swisher/Union Pad	MD Reference:	Swisher 2H 976 GL + 24 KB @ 1000.0usft
Well:	Swisher 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)
5,400.0	30.15	86.86	5,177.2	181.7	975.2	111.7	1.29
5,500.0	29.30	85.60	5,264.0	185.0	1,024.7	123.1	1.05
5,600.0	28.84	78.23	5,351.5	191.8	1,072.7	130.6	3.61
5,618.1	29.41	77.42	5,367.3	193.6	1,081.4	131.4	3.83
5,755.0	27.71	77.60	5,487.5	207.8	1,145.3	136.5	1.24
5,849.0	25.48	76.59	5,571.6	217.2	1,186.3	139.6	2.42
5,943.0	24.42	69.00	5,656.8	228.8	1,224.1	139.5	3.59
6,037.0	24.24	63.10	5,742.5	244.5	1,259.4	134.8	2.59
6,131.0	25.74	68.79	5,827.7	260.7	1,295.7	130.0	3.01
6,225.0	26.93	68.92	5,911.9	275.7	1,334.6	127.0	1.27
6,319.0	27.60	67.21	5,995.5	291.8	1,374.5	123.3	1.10
6,413.0	27.60	70.82	6,078.8	307.4	1,415.2	120.3	1.78
6,508.0	28.61	73.45	6,162.6	321.1	1,457.8	119.7	1.68
6,602.0	31.38	70.42	6,244.0	335.7	1,502.4	118.8	3.36
6,696.0	30.11	75.74	6,324.8	349.7	1,548.3	118.8	3.19
6,790.0	30.96	71.17	6,405.8	363.3	1,594.1	119.2	2.63
6,853.0	29.72	67.48	6,460.2	374.5	1,623.8	117.2	3.55
6,881.0	29.57	66.92	6,484.5	379.9	1,636.6	115.8	1.12
6,916.0	29.03	71.25	6,515.0	386.0	1,652.6	114.6	6.25
6,947.0	29.11	77.32	6,542.1	390.1	1,667.1	114.9	9.51
6,975.0	30.04	82.81	6,566.5	392.5	1,680.7	116.7	10.23
7,010.0	32.03	88.56	6,596.5	393.8	1,698.6	120.7	10.20
7,041.0	34.20	94.41	6,622.5	393.3	1,715.6	126.0	12.45
7,069.0	35.67	100.03	6,645.4	391.3	1,731.4	132.6	12.63
7,104.0	36.90	107.53	6,673.6	386.4	1,751.5	143.2	13.15
Middlesex							
7,135.0	38.44	113.37	6,698.2	379.7	1,769.2	154.8	12.53
7,164.0	38.67	117.89	6,720.9	371.9	1,785.5	167.0	9.75
7,198.0	39.52	123.97	6,747.3	360.9	1,803.9	182.9	11.55
7,229.0	41.45	129.15	6,770.8	348.9	1,820.0	199.1	12.50
7,258.0	44.28	132.45	6,792.1	336.0	1,835.0	215.8	12.45
7,291.0	46.89	136.65	6,815.2	319.5	1,851.7	236.5	12.04
Burkett							
7,292.0	46.97	136.77	6,815.9	318.9	1,852.2	237.2	12.04
7,324.0	48.80	140.52	6,837.3	301.1	1,867.9	258.8	10.40
7,341.0	50.62	142.36	6,848.3	291.0	1,876.0	270.9	13.54
Tully							
7,352.0	51.82	143.50	6,855.2	284.1	1,881.2	278.9	13.54
7,386.0	54.92	146.04	6,875.5	261.8	1,896.9	304.8	10.91
7,418.0	58.50	148.50	6,893.1	239.3	1,911.3	330.6	10.91
7,446.0	61.75	149.73	6,907.0	218.5	1,923.8	354.2	12.22
7,481.0	66.16	151.50	6,922.4	191.1	1,939.2	384.9	13.39
7,512.0	68.74	153.11	6,934.3	165.8	1,952.5	416.6	9.61
7,540.0	72.48	154.99	6,943.6	142.0	1,964.1	439.1	14.78

Received
Office of Oil & Gas
4/27/2015

17-06296



EOW Completion Report



Company:	Antero Resources	Local Co-ordinate Reference:	Well Swisher Unit 2H
Project:	Doddridge County WV	TVD Reference:	Swisher 2H 976 GL + 24 KB @ 1000.0usft
Site:	Josie/Swisher/Union Pad	MD Reference:	Swisher 2H 976 GL + 24 KB @ 1000.0usft
Well:	Swisher 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)
7,560.0	74.18	155.73	6,949.3	124.6	1,972.0	458.1	9.18
Marcellus							
7,575.0	75.45	156.27	6,953.2	111.4	1,977.9	472.4	9.18
7,634.0	81.91	158.48	6,964.8	58.0	2,000.2	530.0	11.55
7,640.0	82.47	158.72	6,965.6	52.5	2,002.3	535.9	10.18
7,700.0	88.11	161.08	6,970.6	-3.7	2,022.9	595.6	10.18
7,792.0	90.00	164.92	6,972.1	-91.6	2,049.8	687.6	4.65
7,886.0	89.66	164.91	6,972.4	-182.4	2,074.2	781.5	0.36
7,980.0	89.93	163.79	6,972.7	-272.9	2,099.6	875.5	1.23
8,074.0	90.03	162.98	6,972.7	-363.0	2,126.5	969.5	0.87
8,168.0	89.60	162.86	6,973.0	-452.8	2,154.1	1,063.5	0.47
8,262.0	90.30	161.44	6,973.1	-542.3	2,182.9	1,157.5	1.68
8,356.0	89.50	162.04	6,973.3	-631.5	2,212.3	1,251.4	1.06
8,451.0	90.17	162.12	6,973.5	-721.9	2,241.6	1,346.4	0.71
8,545.0	88.99	161.28	6,974.2	-811.2	2,271.1	1,440.4	1.54
8,639.0	90.57	163.99	6,974.6	-900.9	2,299.1	1,534.4	3.34
8,733.0	89.90	163.15	6,974.2	-991.0	2,325.7	1,628.4	1.14
8,827.0	90.67	162.60	6,973.7	-1,080.9	2,353.4	1,722.4	1.01
8,921.0	90.10	162.29	6,973.1	-1,170.5	2,381.7	1,816.4	0.69
9,016.0	90.17	163.20	6,972.9	-1,261.2	2,409.9	1,911.4	0.96
9,110.0	89.73	162.91	6,973.0	-1,351.1	2,437.3	2,005.4	0.56
9,204.0	89.19	162.92	6,973.9	-1,441.0	2,464.9	2,099.4	0.57
9,295.0	90.67	163.26	6,974.0	-1,528.0	2,491.4	2,190.4	1.67
9,387.0	90.23	162.75	6,973.2	-1,616.0	2,518.3	2,282.4	0.73
9,478.0	89.36	163.24	6,973.6	-1,703.0	2,544.9	2,373.4	1.10
9,570.0	89.80	163.57	6,974.2	-1,791.2	2,571.2	2,465.4	0.60
9,661.0	89.78	165.39	6,974.6	-1,878.9	2,595.5	2,556.3	2.00
9,753.0	90.91	166.69	6,974.0	-1,968.2	2,617.7	2,648.2	1.87
9,844.0	89.40	163.58	6,973.8	-2,056.1	2,641.1	2,739.1	3.80
9,936.0	89.87	164.74	6,974.4	-2,144.6	2,666.2	2,831.1	1.36
10,027.0	89.40	164.63	6,974.9	-2,232.4	2,690.2	2,922.0	0.53
10,119.0	89.43	161.12	6,975.9	-2,320.3	2,717.3	3,014.0	3.82
10,210.0	89.16	159.99	6,977.0	-2,406.1	2,747.6	3,104.9	1.28
10,302.0	90.10	161.79	6,977.6	-2,493.0	2,777.7	3,196.9	2.21
10,396.0	90.03	161.44	6,977.5	-2,582.2	2,807.3	3,290.8	0.38
10,490.0	91.44	161.51	6,976.3	-2,671.3	2,837.2	3,384.8	1.50
10,584.0	90.94	161.95	6,974.3	-2,760.6	2,866.7	3,478.7	0.71
10,678.0	90.71	163.32	6,973.0	-2,850.3	2,894.7	3,572.6	1.88
10,772.0	90.40	161.57	6,972.1	-2,939.9	2,923.1	3,666.7	1.89
10,866.0	90.24	162.41	6,971.5	-3,029.3	2,952.1	3,760.7	-0.91
10,960.0	90.50	164.44	6,970.9	-3,119.4	2,978.9	3,854.7	2.18
11,054.0	89.83	164.52	6,970.7	-3,209.9	3,004.1	3,948.7	0.72
11,149.0	90.87	164.21	6,970.1	-3,301.4	3,029.7	4,043.6	1.14
11,243.0	90.34	164.83	6,969.1	-3,392.0	3,054.8	4,137.6	0.87
11,337.0	89.80	161.38	6,969.0	-3,481.9	3,082.1	4,231.6	3.71

Received
Office of Oil & Gas
JUL 27 2015

17-06296



EOW Completion Report



Company:	Antero Resources	Local Co-ordinate Reference:	Well Swisher Unit 2H
Project:	Doddridge County WV	TVD Reference:	Swisher 2H 976 GL + 24 KB @ 1000.0usft
Site:	Josie/Swisher/Union Pad	MD Reference:	Swisher 2H 976 GL + 24 KB @ 1000.0usft
Well:	Swisher 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)
11,432.0	89.73	161.72	6,969.4	-3,572.0	3,112.2	4,326.5	0.37
11,526.0	89.87	161.83	6,969.7	-3,661.3	3,141.6	4,420.5	0.19
11,619.0	89.56	161.80	6,970.2	-3,749.7	3,170.6	4,513.5	0.33
11,713.0	90.00	162.44	6,970.5	-3,839.1	3,199.4	4,607.5	0.83
11,807.0	90.37	162.87	6,970.2	-3,928.9	3,227.5	4,701.5	0.60
11,902.0	89.80	162.78	6,970.1	-4,019.6	3,255.5	4,796.5	0.61
11,997.0	90.48	162.67	6,969.8	-4,110.3	3,283.7	4,891.5	0.73
12,091.0	90.10	163.70	6,969.4	-4,200.3	3,310.9	4,985.5	1.17
12,185.0	89.13	163.06	6,970.0	-4,290.4	3,337.8	5,079.5	1.24
12,279.0	90.37	163.35	6,970.4	-4,380.4	3,365.0	5,173.5	1.35
12,373.0	89.63	162.74	6,970.4	-4,470.3	3,392.4	5,267.5	1.02
12,467.0	90.13	163.39	6,970.6	-4,560.2	3,419.8	5,361.5	0.87
12,561.0	89.76	163.29	6,970.7	-4,650.3	3,446.7	5,455.5	0.41
12,655.0	89.36	163.91	6,971.4	-4,740.4	3,473.3	5,549.5	0.78
12,749.0	90.60	163.09	6,971.4	-4,830.6	3,499.9	5,643.5	1.58
12,843.0	90.77	162.69	6,970.3	-4,920.4	3,527.6	5,737.4	0.46
12,938.0	87.31	162.05	6,971.9	-5,010.9	3,556.4	5,832.4	3.70
13,032.0	87.55	161.71	6,976.1	-5,100.2	3,585.6	5,926.3	0.44
13,125.0	89.46	162.60	6,978.6	-5,188.6	3,614.1	6,019.3	2.27
13,220.0	89.87	163.66	6,979.1	-5,279.6	3,641.6	6,114.3	1.20
13,313.0	88.89	164.48	6,980.1	-5,369.0	3,667.2	6,207.2	1.37
13,407.0	90.47	164.98	6,980.6	-5,459.7	3,691.9	6,301.2	1.76
13,501.0	89.70	162.56	6,980.5	-5,549.9	3,718.2	6,395.2	2.70
13,595.0	90.37	162.77	6,980.4	-5,639.6	3,746.2	6,489.2	0.75
13,690.0	90.24	162.72	6,979.9	-5,730.4	3,774.4	6,584.2	0.15
13,784.0	90.31	163.90	6,979.5	-5,820.4	3,801.4	6,678.2	1.26
13,878.0	91.04	163.93	6,978.4	-5,910.7	3,827.4	6,772.1	0.78
13,972.0	90.48	163.19	6,977.1	-6,000.9	3,854.0	6,866.1	0.99
14,066.0	89.74	162.04	6,977.0	-6,090.6	3,882.1	6,960.1	1.45
14,160.0	90.27	161.50	6,976.9	-6,179.8	3,911.5	7,054.1	0.80
14,254.0	90.03	159.75	6,976.7	-6,268.5	3,942.7	7,148.0	1.88
14,349.0	90.40	161.60	6,976.3	-6,358.2	3,974.1	7,242.9	1.99
14,443.0	91.08	162.34	6,975.1	-6,447.5	4,003.2	7,336.9	1.07
14,536.0	90.23	160.46	6,974.1	-6,535.7	4,032.9	7,429.9	2.22
14,631.0	91.21	165.22	6,972.9	-6,626.4	4,060.9	7,524.8	5.12
14,725.0	92.05	165.74	6,970.2	-6,717.4	4,084.4	7,618.7	1.05
14,819.0	91.38	164.80	6,967.4	-6,808.2	4,108.3	7,712.6	1.23
14,913.0	90.84	163.08	6,965.6	-6,898.5	4,134.3	7,806.5	1.92
15,007.0	90.54	162.56	6,964.4	-6,988.3	4,162.1	7,900.3	1.30
15,101.0	91.04	161.44	6,963.1	-7,077.7	4,191.1	8,000.0	1.30
15,196.0	90.30	159.91	6,962.0	-7,167.4	4,222.6	8,089.4	1.79
15,290.0	92.86	163.63	6,959.4	-7,256.6	4,252.0	8,180.0	4.80
15,384.0	91.07	165.61	6,956.2	-7,347.2	4,276.9	8,277.2	2.84
15,478.0	90.40	166.06	6,955.0	-7,438.3	4,299.9	8,371.1	0.86

Received
Office of Oil & Gas
Jul 27 2015

17-06296



EOW Completion Report



Company: Antero Resources	Local Co-ordinate Reference: Well Swisher Unit 2H
Project: Doddridge County WV	TVD Reference: Swisher 2H 976 GL + 24 KB @ 1000.0usft
Site: Josie/Swisher/Union Pad	MD Reference: Swisher 2H 976 GL + 24 KB @ 1000.0usft
Well: Swisher 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)
15,573.0	90.37	166.62	6,954.4	-7,530.6	4,322.3	8,465.9	0.59
15,666.0	89.87	164.05	6,954.2	-7,620.6	4,345.9	8,558.9	2.82
15,760.0	89.63	162.91	6,954.6	-7,710.7	4,372.6	8,652.9	1.24
15,886.0	89.43	160.81	6,955.6	-7,830.4	4,411.8	8,778.8	1.67
15,941.0	90.00	162.98	6,955.9	-7,882.7	4,428.9	8,833.8	4.08

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7,104.0	6,673.6	386.4	1,751.5	Middlesex
7,291.0	6,815.2	319.5	1,851.7	Burkett
7,341.0	6,848.3	291.0	1,876.0	Tully
7,560.0	6,949.3	124.6	1,972.0	Marcellus

Checked By: _____ Approved By: _____ Date: _____

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	4/10/2014
Job End Date:	4/16/2014
State:	West Virginia
County:	Doddridge
API Number:	47-017-06296-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Swisher Unit 2H
Longitude:	-80.66640560
Latitude:	39.21036110
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	6,981
Total Base Water Volume (gal):	0
Total Base Non Water Volume:	0



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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	Antero Resources	Water	Water	7732-18-5	100.00000	90.70898	
40/70 White	US Silica	Proppant	Sand	14808-60-7	100.00000	4.91440	
20/40 White	US Silica	Proppant	Sand	14808-60-7	100.00000	2.92370	
100 Mesh	US Silica	Proppant	Sand	14808-60-7	100.00000	1.26770	
Beta M-4.0	PIP	Guar Gel	Petroleum Distillate	64742-47-8	55.00000	0.04677	
			Guar Gum	9000-30-0	50.00000	0.04252	
			Clay	1302-78-9	5.00000	0.00425	
			Surfactant	154518-36-2	1.00000	0.00085	
Plexslick 953	Chemplex	Friction Reducer	Water	7732-18-5	35.00000	0.02152	
			Polyacrylamide-co-acrylic acid	9003-06-9	32.00000	0.01967	
			Hydrotreated Petroleum Distillate	64742-47-8	30.00000	0.01844	
			Alcohol Ethoxylate Surfactants	Proprietary	8.00000	0.00492	

17-06296

17-06296

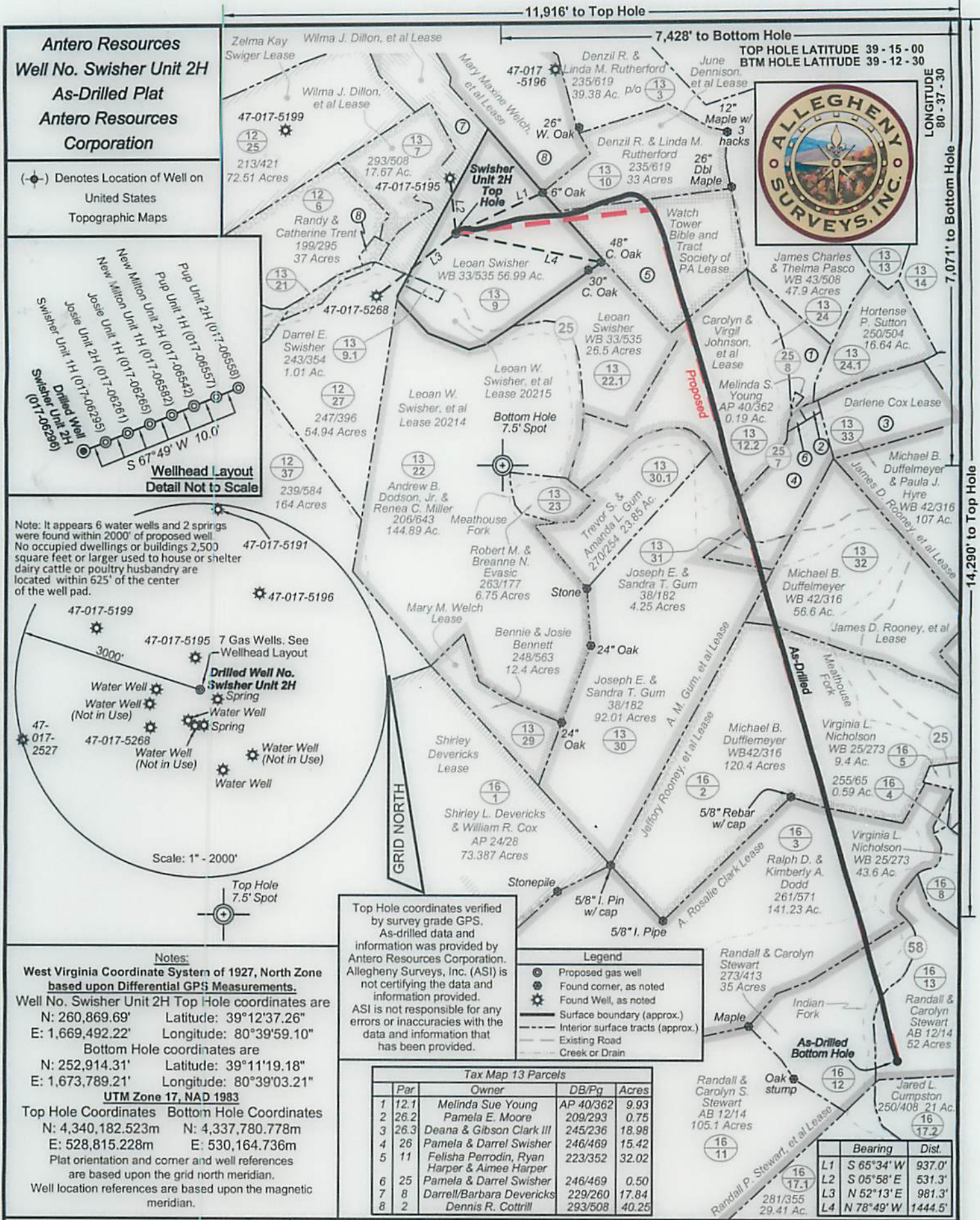
Hydrochloric Acid 10-15%	Reagent	Acid				
			Hydrchloric Acid	7647-01-0	15.00000	0.03424
Plexicide 15G	Chemplex	Biocide				
			Water	7732-18-5	90.00000	0.02285
			Glutaraldehyde	111-30-8	14.00000	0.00355
			Ethanol	64-17-5	3.00000	0.00076
			Didecyl Dimethyl Ammonium Chloride	7173-51-5	3.00000	0.00076
			Alkyl Dimethyl Benzyl Ammonium Chloride	68424-85-1	3.00000	0.00076
Plexaid 673	Chemplex	Scale Inhibitor				
			Water	7732-18-5	85.00000	0.01335
			Methyl Alcohol	67-56-1	25.00000	0.00393
			Sodium Salt of Phosphonodimethylated Diamine	Proprietary	5.00000	0.00079
Sodium Persulfate	Chemplex	Breaker				
			Sodium Persulfate	7775-27-1	100.00000	0.00123
Plexhib 256	Chemplex	Corrosion				
			Methyl Alcohol	67-56-1	70.00000	0.00049
			thiourea-formaldehyde copolymer	68527-49-1	30.00000	0.00021
			Alcohol Ethoxylate Surfactants	Proprietary	30.00000	0.00021
			n-olefins	Proprietary	10.00000	0.00007
			Propargyl Alcohol	107-19-7	8.00000	0.00006
Plexbreak 145	Chemplex	Non-emulsifier				
			Water	732-18-5	66.00000	0.00052
			Ethylene Glycol Monobutyl Ether	111-76-2	15.00000	0.00012
			Methyl Alcohol	67-56-1	15.00000	0.00012
			Cocamide Diethanolamine Salt	68603-42-9	10.00000	0.00008
			Diethanolamine	111-42-2	5.00000	0.00004
Ferriplex 66	Chemplex	Iron Control				
			Acetic Acid	64-19-7	50.00000	0.00022
			Water	7732-18-5	35.00000	0.00016
			Citric Acid	77-92-9	30.00000	0.00013

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%

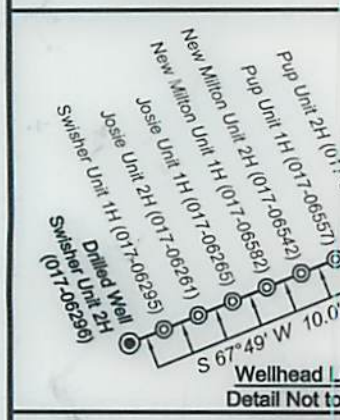
Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided. Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

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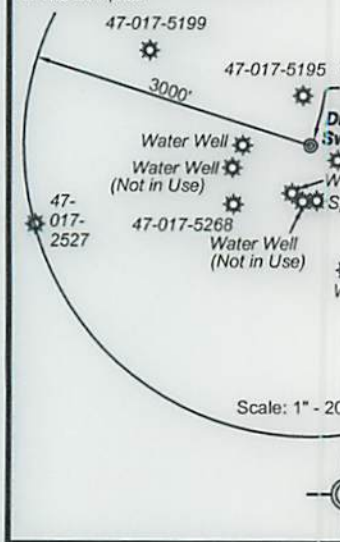


Antero Resources
Well No. Swisher Unit 2H
As-Drilled Plat
Antero Resources
Corporation

(-o-) Denotes Location of Well on
 United States
 Topographic Maps



Note: It appears 6 water wells and 2 springs were found within 2000' of proposed well. No occupied dwellings or buildings 2,500 square feet or larger used to house or shelter dairy cattle or poultry husbandry are located within 625' of the center of the well pad.



Notes:
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
 Well No. Swisher Unit 2H Top Hole coordinates are
 N: 260,869.69' Latitude: 39°12'37.26"
 E: 1,669,492.22' Longitude: 80°39'59.10"
 Bottom Hole coordinates are
 N: 252,914.31' Latitude: 39°11'19.18"
 E: 1,673,789.21' Longitude: 80°39'03.21"
UTM Zone 17, NAD 1983
 Top Hole Coordinates Bottom Hole Coordinates
 N: 4,340,182.523m N: 4,337,780.778m
 E: 528,815.228m E: 530,164.736m
 Plat orientation and corner and well references are based upon the grid north meridian.
 Well location references are based upon the magnetic meridian.

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

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

Par	Owner	DB/Pg	Acres
1	Melinda Sue Young	AP 40/362	9.93
2	Pamela E. Moore	209/293	0.75
3	Deana & Gibson Clark III	245/236	18.98
4	Pamela & Darrel Swisher	246/469	15.42
5	Felisha Perrodin, Ryan Harper & Aimee Harper	223/352	32.02
6	Pamela & Darrel Swisher	246/469	0.50
7	Darrell/Barbara Devericks	229/260	17.84
8	Dennis R. Cottrill	293/508	40.25

FILE NO: 77-30-NM-13
 DRAWING NO: As-Drilled Swisher Unit 2H
 SCALE: 1" = 1200'
 MINIMUM DEGREE OF ACCURACY: Submeter
 PROVEN SOURCE OF ELEVATION: WVDOT, Bridgeport, WV

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

DATE: April 14 2015
 OPERATOR'S WELL NO. Swisher Unit 2H
 API WELL NO
 47 - 017 - 06296
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 LOCATION: ELEVATION: Existing 980' WATERSHED: Headwaters Middle Island Creek QUADRANGLE: New Milton 29.586;
 DISTRICT: New Milton Watch Tower Bible and Tract Society of Pennsylvania; COUNTY: Doddridge 10/23/2015
 SURFACE OWNER: Leoan Swisher Leoan W. Swisher, et al; June Dennison, et al; A. Rosalie Clark; James D. Rooney, et al; ACREAGE: 56.99 120; 72.54
 OIL & GAS ROYALTY OWNER: Randall P. Stewart, et al; Carolyn & Virgil Johnson, et al; Jeffery Rooney, et al; Darlene Cox; A. M. Gum, et al LEASE #: 20215 ACREAGE: 56.99; 116; 141.46
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled TVD 6,956'
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale DEPTH: MD 15,941'

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