



Antero
McPherson Unit 1H
Doddridge County WV
Northing: 14272650.44
Easting: 1690520.05
As Drilled

WELL DETAILS: McPherson Unit 1H

+N/-S	+E/-W	Northing	Ground Level: 824.0	Easting	Latitude	Longitude	Slot
0.0	0.0	14272650.44		1690520.05	39° 18' 14.191 N	80° 49' 22.374 W	

REFERENCE INFORMATION
Co-ordinate (NE) Reference: Well McPherson Unit 1H, Grid North
Vertical (TVD) Reference: Patterson 347, GL 824 * KB 25 @ 849' out
Section (NS) Reference: Slot * (D 04) 30.6
Measured Depth Reference: Patterson 347, GL 824 * KB 25 @ 849' out
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

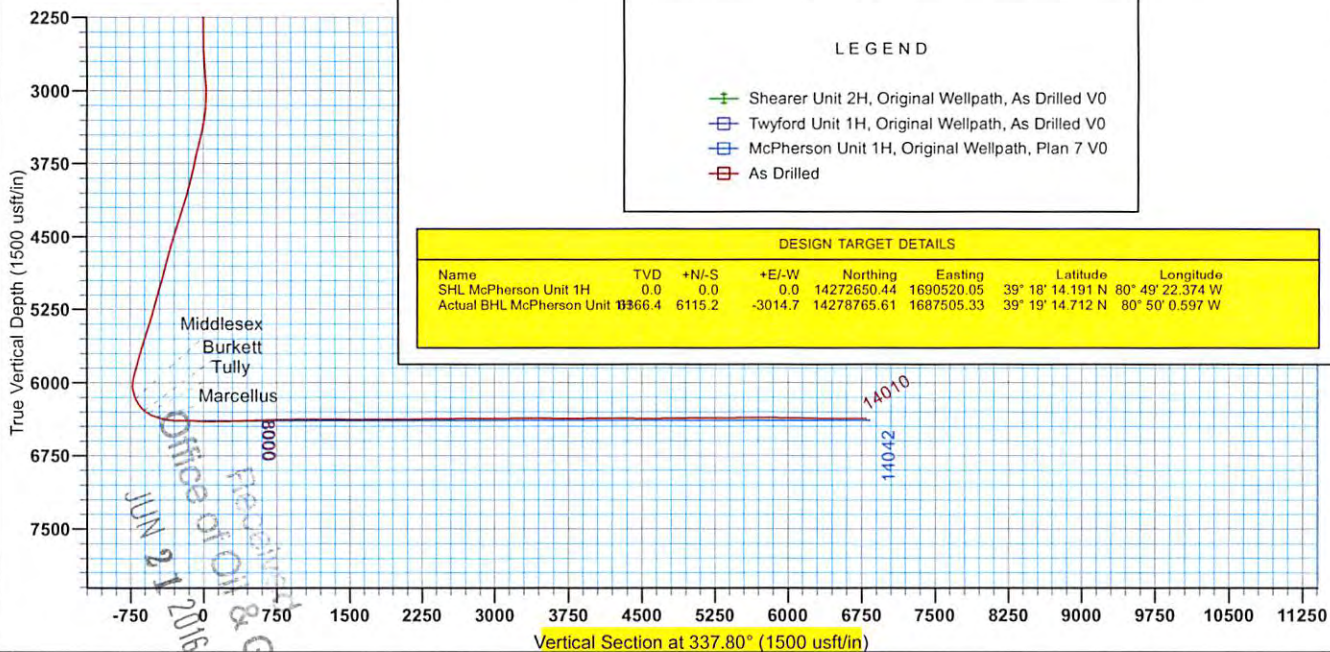
Genie Lightfoot
9:15, February 11 2015
Scientific Drilling
11220 N.W. 10th Street
Yukon, OK 73099

LEGEND

- Shearer Unit 2H, Original Wellpath, As Drilled V0
- Twyford Unit 1H, Original Wellpath, As Drilled V0
- McPherson Unit 1H, Original Wellpath, Plan 7 V0
- As Drilled

DESIGN TARGET DETAILS

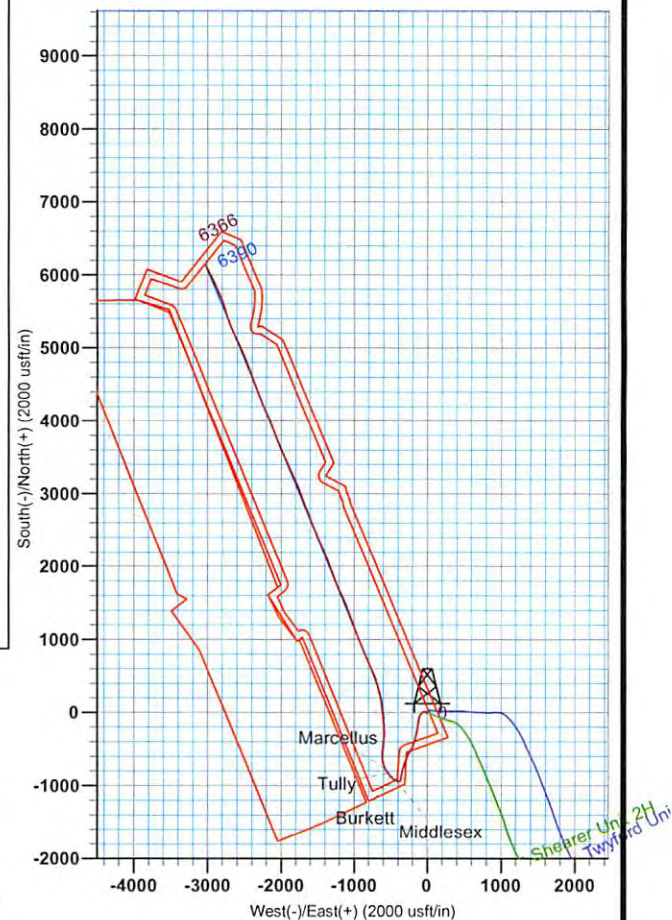
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
SHL McPherson Unit 1H	0.0	0.0	0.0	14272650.44	1690520.05	39° 18' 14.191 N	80° 49' 22.374 W
Actual BHL McPherson Unit	8366.4	6115.2	-3014.7	14278765.61	1687505.33	39° 19' 14.712 N	80° 50' 0.597 W



To convert Magnetic North to Grid, Subtract 8.61°
To convert True North to Grid, Subtract 0.11°

Azimuths to Grid North
True North: -0.11°
Magnetic North: -8.61°

Magnetic Field
Strength: 52270.95nT
Dip Angle: 68.86°
Date: 5/30/2014
Model: BGM2013





Antero

Doddridge County WV
Diane Davis Pad: Shearer/Hiley/McPherson/Twyford
McPherson Unit 1H
Original Wellpath

Design: As Drilled

EOW Completion Report

11 February, 2015



07/22/2016



Company:	Antero	Local Co-ordinate Reference:	Well McPherson Unit 1H
Project:	Doddridge County WV	TVD Reference:	Patterson 347: GL 824' + KB 25' @ 849.0usft
Site:	Diane Davis Pad: Shearer/Hiley/McPherson/Twyf	MD Reference:	Patterson 347: GL 824' + KB 25' @ 849.0usft
Well:	McPherson 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 Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Zone 17N (84 W to 78 W)		

Site	Diane Davis Pad: Shearer/Hiley/McPherson/Twyford		
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Site Position:		Northing:	14,272,631.37 usft	Latitude:	39° 18' 14.002 N
From:	Map	Easting:	1,690,515.37 usft	Longitude:	80° 49' 22.435 W
Position Uncertainty:	2.0 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.11 °

Well	McPherson Unit 1H				
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Well Position	+N/-S	0.0 usft	Northing:	14,272,650.44 usft	Latitude:	39° 18' 14.191 N
	+E/-W	0.0 usft	Easting:	1,690,520.05 usft	Longitude:	80° 49' 22.374 W
Position Uncertainty		2.0 usft	Wellhead Elevation:	849.0 usft	Ground Level:	824.0 usft

Wellbore	Original Wellpath				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2013	5/30/2014	-8.50	66.86	52,271

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	337.80	

Survey Program	Date	2/11/2015			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
112.0	5,947.0	Survey #4 Def Gyro to KOP (Original Well)	SDI Standard Keeper	Scientific Drilling Intl. Standard Wireline Keeper	
5,947.0	14,010.0	Survey #5 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
	112.0	0.53	292.11	112.0	0.2	-0.5	0.4	0.47
	212.0	0.39	277.73	212.0	0.4	-1.2	0.9	0.18
	312.0	0.55	288.25	312.0	0.6	-2.0	1.3	0.18
	412.0	0.42	284.49	412.0	0.9	-2.8	1.9	0.13
	512.0	0.18	246.79	512.0	0.9	-3.3	2.1	0.30
	612.0	0.22	291.63	612.0	0.9	-3.7	2.2	0.16
	712.0	0.19	257.92	712.0	0.9	-4.0	2.4	0.12
	812.0	0.09	221.23	812.0	0.8	-4.2	2.4	0.13
	912.0	0.09	68.21	912.0	0.8	-4.2	2.3	0.18
	1,012.0	0.09	40.24	1,012.0	0.9	-4.1	2.4	0.04

Company:	Antero	Local Co-ordinate Reference:	Well McPherson Unit 1H
Project:	Doddridge County WV	TVD Reference:	Patterson 347: GL 824' + KB 25' @ 849.0usft
Site:	Diane Davis Pad: Shearer/Hiley/McPherson/Twyf	MD Reference:	Patterson 347: GL 824' + KB 25' @ 849.0usft
Well:	McPherson Unit 1H	North Reference:	Grid
Wellbore:	Original Wellpath	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Oklahoma District

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	
1,112.0	0.09	111.00	1,112.0	0.9	-4.0	2.4	0.10	
1,212.0	0.17	97.58	1,212.0	0.9	-3.7	2.2	0.09	
1,312.0	0.12	63.75	1,312.0	0.9	-3.5	2.2	0.10	
1,412.0	0.15	82.16	1,412.0	1.0	-3.3	2.1	0.05	
1,512.0	0.02	63.43	1,512.0	1.0	-3.1	2.1	0.13	
1,612.0	0.11	123.15	1,612.0	0.9	-3.0	2.0	0.10	
1,712.0	0.02	70.35	1,712.0	0.9	-2.9	1.9	0.10	
1,812.0	0.07	236.88	1,812.0	0.9	-3.0	1.9	0.09	
1,912.0	0.12	72.08	1,912.0	0.9	-2.9	1.9	0.19	
2,012.0	0.06	137.63	2,012.0	0.9	-2.8	1.9	0.11	
2,112.0	0.05	60.79	2,112.0	0.8	-2.7	1.8	0.07	
2,212.0	0.09	129.71	2,212.0	0.8	-2.6	1.7	0.09	
2,312.0	0.04	44.55	2,312.0	0.8	-2.5	1.7	0.10	
2,412.0	0.08	104.93	2,412.0	0.8	-2.4	1.7	0.07	
2,512.0	0.20	308.15	2,512.0	0.9	-2.5	1.8	0.28	
2,612.0	2.88	290.96	2,611.9	1.9	-5.0	3.6	2.69	
2,712.0	5.65	295.74	2,711.7	4.9	-11.8	9.0	2.79	
2,812.0	5.60	294.05	2,811.2	9.1	-20.7	16.2	0.17	
2,912.0	5.41	288.13	2,910.7	12.5	-29.6	22.8	0.60	
3,012.0	8.65	254.25	3,010.0	11.9	-41.3	26.7	5.13	
3,112.0	12.55	237.16	3,108.3	4.0	-57.7	25.5	4.97	
3,212.0	14.26	226.13	3,205.6	-10.4	-75.7	19.0	3.07	
3,312.0	15.07	213.02	3,302.3	-29.9	-91.7	7.0	3.41	
3,412.0	16.00	201.07	3,398.7	-53.6	-103.7	-10.5	3.33	
3,512.0	16.92	195.02	3,494.6	-80.6	-112.4	-32.1	1.94	
3,612.0	16.16	192.04	3,590.5	-108.2	-119.1	-55.2	1.14	
3,712.0	15.33	188.89	3,686.7	-134.9	-124.1	-78.0	1.19	
3,812.0	14.82	188.21	3,783.3	-160.6	-127.9	-100.4	0.54	
3,912.0	14.84	189.76	3,880.0	-185.9	-131.9	-122.3	0.40	
4,012.0	15.93	189.47	3,976.4	-212.0	-136.4	-144.8	1.09	
4,112.0	19.24	188.81	4,071.7	-241.9	-141.1	-170.6	3.32	
4,212.0	21.18	190.58	4,165.5	-275.9	-147.0	-199.9	2.03	
4,312.0	21.42	192.89	4,258.7	-311.5	-154.4	-230.1	0.87	
4,412.0	21.01	194.72	4,351.9	-346.6	-163.0	-259.3	0.78	
4,512.0	21.74	195.80	4,445.0	-381.8	-172.6	-288.3	0.83	
4,612.0	22.26	198.77	4,537.8	-417.5	-183.7	-317.1	1.23	
4,712.0	21.44	201.34	4,630.6	-452.5	-196.5	-344.7	1.26	
4,812.0	21.07	204.41	4,723.8	-485.9	-210.6	-370.3	1.17	
4,912.0	22.44	210.72	4,816.7	-518.7	-227.7	-394.2	2.71	
5,012.0	22.46	210.44	4,909.1	-551.5	-247.2	-417.3	0.11	
5,112.0	22.77	207.48	5,001.4	-585.2	-265.8	-441.4	1.18	
5,212.0	21.78	205.59	5,093.9	-619.1	-282.7	-466.4	1.22	
5,312.0	21.37	202.62	5,186.9	-652.6	-297.7	-491.7	1.17	
5,412.0	21.04	199.24	5,280.2	-686.4	-310.7	-518.1	1.27	



EOW Completion Report



Company:	Antero	Local Co-ordinate Reference:	Well McPherson Unit 1H
Project:	Doddridge County WV	TVD Reference:	Patterson 347: GL 824' + KB 25' @ 849.0usft
Site:	Diane Davis Pad: Shearer/Hiley/McPherson/Twyf	MD Reference:	Patterson 347: GL 824' + KB 25' @ 849.0usft
Well:	McPherson Unit 1H	North Reference:	Grid
Wellbore:	Original Wellpath	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Oklahoma District

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)
5,512.0	21.54	198.28	5,373.3	-720.8	-322.3	-545.5	0.61
5,612.0	23.20	197.76	5,465.8	-757.0	-334.1	-574.6	1.67
5,712.0	21.78	191.01	5,558.2	-793.9	-343.7	-605.2	2.94
5,812.0	20.22	192.75	5,651.6	-829.0	-351.0	-634.9	1.68
5,912.0	17.40	189.25	5,746.2	-860.6	-357.2	-661.9	3.04
5,947.0	17.35	188.47	5,779.6	-871.0	-358.9	-670.8	0.68
6,074.0	17.71	184.53	5,900.7	-908.9	-363.2	-704.3	0.98
6,105.0	17.30	184.31	5,930.3	-918.2	-363.9	-712.7	1.34
6,137.0	14.47	197.87	5,961.1	-926.8	-365.5	-720.0	14.53
6,168.0	13.36	222.12	5,991.2	-933.1	-369.1	-724.5	19.01
6,200.0	13.85	246.62	6,022.3	-937.4	-375.1	-726.2	17.94
6,231.0	15.60	268.94	6,052.3	-939.0	-382.6	-724.8	19.02
6,262.0	18.68	279.50	6,082.0	-938.2	-391.7	-720.7	14.09
6,294.0	23.75	281.99	6,111.8	-936.0	-403.1	-714.3	16.09
6,325.0	27.88	286.42	6,139.7	-932.7	-416.1	-706.3	14.70
6,351.0	30.70	293.79	6,162.4	-928.3	-428.1	-697.7	17.59
Middlesex							
6,356.0	31.29	295.06	6,166.7	-927.2	-430.4	-695.9	17.59
6,388.0	34.23	303.42	6,193.6	-918.7	-445.4	-682.3	16.84
6,419.0	38.08	308.29	6,218.6	-908.0	-460.2	-666.8	15.49
6,451.0	42.36	314.28	6,243.1	-894.4	-475.7	-648.3	18.02
6,482.0	46.79	318.07	6,265.1	-878.6	-490.8	-628.1	16.66
6,512.0	51.59	318.70	6,284.7	-861.7	-505.8	-606.7	16.08
Burkett							
6,513.0	51.75	318.72	6,285.4	-861.1	-506.3	-605.9	16.08
6,545.0	57.38	319.78	6,303.9	-841.3	-523.3	-581.2	17.80
6,563.0	60.16	321.42	6,313.2	-829.4	-533.1	-566.5	17.30
Tully							
6,576.0	62.18	322.55	6,319.5	-820.5	-540.1	-555.6	17.30
6,608.0	66.43	325.78	6,333.4	-797.1	-557.0	-527.6	16.10
6,639.0	69.96	330.68	6,344.9	-772.6	-572.1	-499.2	18.57
6,654.0	71.80	333.17	6,349.8	-760.1	-578.8	-485.1	19.90
Marcellus							
6,670.0	73.80	335.76	6,354.5	-746.3	-585.4	-469.8	19.90
6,702.0	76.34	340.27	6,362.8	-717.7	-596.9	-438.9	15.76
6,733.0	77.59	346.38	6,369.8	-688.8	-605.6	-408.9	19.62
6,765.0	79.88	351.94	6,376.0	-657.9	-611.5	-378.1	18.48
6,796.0	82.43	356.99	6,380.8	-627.5	-614.4	-348.8	18.08
6,819.0	85.21	0.88	6,383.3	-604.6	-614.9	-327.5	20.71
6,851.0	88.76	3.80	6,385.0	-572.7	-613.6	-298.4	14.36
6,882.0	90.64	5.52	6,385.1	-541.8	-611.0	-270.8	8.22
6,945.0	90.47	7.87	6,384.5	-479.2	-603.7	-215.6	3.74
7,039.0	87.31	5.27	6,386.3	-385.9	-592.9	-133.2	4.35
7,133.0	85.60	0.43	6,392.2	-292.2	-588.3	-48.3	5.45
7,228.0	89.53	355.54	6,396.2	-197.4	-591.6	40.8	6.60



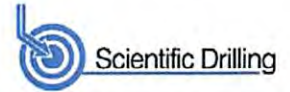
EOW Completion Report



Company:	Antero	Local Co-ordinate Reference:	Well McPherson Unit 1H
Project:	Doddridge County WV	TVD Reference:	Patterson 347: GL 824' + KB 25' @ 849.0usft
Site:	Diane Davis Pad: Shearer/Hiley/McPherson/Twyf	MD Reference:	Patterson 347: GL 824' + KB 25' @ 849.0usft
Well:	McPherson 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)
7,322.0	91.44	353.96	6,395.4	-103.8	-600.2	130.7	2.64
7,416.0	92.25	354.75	6,392.4	-10.3	-609.5	220.7	1.20
7,510.0	92.01	351.98	6,388.9	83.0	-620.3	311.2	2.96
7,604.0	91.17	350.74	6,386.3	175.9	-634.4	402.5	1.59
7,698.0	91.24	346.79	6,384.3	268.0	-652.7	494.8	4.20
7,793.0	90.94	344.53	6,382.5	360.0	-676.3	588.9	2.40
7,887.0	91.61	340.88	6,380.4	449.8	-704.2	682.5	3.95
7,981.0	91.17	339.13	6,378.1	538.1	-736.3	776.4	1.92
8,073.0	90.34	336.89	6,376.9	623.4	-770.8	868.4	2.60
8,164.0	90.80	334.11	6,376.0	706.2	-808.5	959.3	3.10
8,257.0	90.57	336.85	6,374.9	790.8	-847.1	1,052.2	2.96
8,349.0	89.80	338.54	6,374.6	875.9	-882.0	1,144.2	2.02
8,441.0	90.60	337.82	6,374.3	961.3	-916.2	1,236.2	1.17
8,533.0	88.96	339.47	6,374.6	1,046.9	-949.7	1,328.2	2.53
8,625.0	89.33	338.00	6,376.0	1,132.7	-983.1	1,420.1	1.65
8,717.0	89.76	339.09	6,376.7	1,218.3	-1,016.7	1,512.1	1.27
8,809.0	89.97	339.27	6,376.9	1,304.3	-1,049.4	1,604.1	0.30
8,899.0	90.97	339.57	6,376.2	1,388.5	-1,081.0	1,694.1	1.16
8,991.0	90.37	339.54	6,375.1	1,474.7	-1,113.2	1,786.0	0.65
9,083.0	89.70	336.00	6,375.1	1,559.9	-1,148.0	1,878.0	3.92
9,177.0	90.57	334.91	6,374.8	1,645.4	-1,187.0	1,971.9	1.48
9,271.0	90.10	335.72	6,374.3	1,730.8	-1,226.3	2,065.8	1.00
9,365.0	90.17	339.25	6,374.1	1,817.6	-1,262.3	2,159.8	3.76
9,460.0	90.17	340.91	6,373.8	1,906.9	-1,294.6	2,254.7	1.75
9,554.0	90.77	339.77	6,373.0	1,995.4	-1,326.3	2,348.6	1.37
9,648.0	91.11	337.32	6,371.5	2,082.9	-1,360.6	2,442.6	2.63
9,742.0	91.51	337.87	6,369.3	2,169.8	-1,396.5	2,536.6	0.72
9,836.0	90.77	335.08	6,367.5	2,256.0	-1,434.0	2,630.5	3.07
9,930.0	89.87	334.94	6,366.9	2,341.2	-1,473.7	2,724.4	0.97
10,024.0	89.46	337.81	6,367.5	2,427.3	-1,511.3	2,818.4	3.08
10,118.0	89.46	337.56	6,368.4	2,514.2	-1,547.0	2,912.4	0.27
10,213.0	89.87	339.20	6,368.9	2,602.5	-1,582.0	3,007.4	1.78
10,307.0	91.31	339.91	6,368.0	2,690.6	-1,614.9	3,101.3	1.71
10,401.0	91.28	338.80	6,365.8	2,778.5	-1,648.0	3,195.2	1.18
10,495.0	90.30	338.68	6,364.5	2,866.1	-1,682.1	3,289.2	1.05
10,589.0	90.07	340.52	6,364.2	2,954.2	-1,714.8	3,383.2	1.97
10,683.0	89.29	338.47	6,364.8	3,042.3	-1,747.8	3,477.1	2.33
10,777.0	89.43	336.99	6,365.8	3,129.3	-1,783.4	3,571.1	1.58
10,872.0	88.86	335.49	6,367.2	3,216.2	-1,821.7	3,666.1	1.69
10,965.0	89.23	334.39	6,368.8	3,300.4	-1,861.0	3,758.9	1.25
11,059.0	91.01	335.08	6,368.6	3,385.4	-1,901.2	3,852.8	2.03
11,153.0	90.77	337.09	6,367.1	3,471.3	-1,939.3	3,946.7	2.15
11,248.0	91.14	335.75	6,365.5	3,558.4	-1,977.3	4,041.7	1.46
11,342.0	90.50	337.57	6,364.2	3,644.7	-2,014.5	4,135.7	2.05



Company:	Antero	Local Co-ordinate Reference:	Well McPherson Unit 1H
Project:	Doddridge County WV	TVD Reference:	Patterson 347: GL 824' + KB 25' @ 849.0usft
Site:	Diane Davis Pad: Shearer/Hiley/McPherson/Twyf	MD Reference:	Patterson 347: GL 824' + KB 25' @ 849.0usft
Well:	McPherson Unit 1H	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)
11,436.0	89.26	338.23	6,364.4	3,731.8	-2,049.9	4,229.7	1.49
11,530.0	88.76	339.52	6,366.0	3,819.4	-2,083.7	4,323.6	1.47
11,624.0	89.66	340.88	6,367.3	3,907.9	-2,115.6	4,417.5	1.73
11,718.0	89.56	336.89	6,367.9	3,995.5	-2,149.4	4,511.5	4.25
11,812.0	90.74	338.00	6,367.7	4,082.4	-2,185.5	4,605.5	1.72
11,906.0	90.47	333.11	6,366.7	4,167.9	-2,224.4	4,699.4	5.21
12,000.0	90.71	338.29	6,365.7	4,253.5	-2,263.0	4,793.3	5.52
12,094.0	90.91	338.20	6,364.4	4,340.8	-2,297.9	4,887.3	0.23
12,188.0	91.21	339.79	6,362.7	4,428.6	-2,331.5	4,981.2	1.72
12,282.0	91.11	338.90	6,360.8	4,516.5	-2,364.7	5,075.2	0.95
12,376.0	89.43	341.13	6,360.3	4,604.8	-2,396.8	5,169.1	2.97
12,470.0	89.33	339.57	6,361.3	4,693.4	-2,428.4	5,263.0	1.66
12,565.0	89.60	337.50	6,362.2	4,781.8	-2,463.2	5,358.0	2.20
12,659.0	91.07	337.55	6,361.7	4,868.6	-2,499.1	5,452.0	1.56
12,753.0	91.34	337.16	6,359.7	4,955.3	-2,535.3	5,546.0	0.50
12,848.0	90.44	336.73	6,358.2	5,042.7	-2,572.5	5,640.9	1.05
12,942.0	89.43	336.25	6,358.3	5,128.9	-2,610.0	5,734.9	1.19
13,036.0	89.66	334.83	6,359.1	5,214.5	-2,648.9	5,828.8	1.53
13,130.0	89.73	336.68	6,359.6	5,300.2	-2,687.5	5,922.8	1.97
13,224.0	89.23	340.44	6,360.4	5,387.7	-2,721.9	6,016.7	4.04
13,318.0	89.53	344.83	6,361.5	5,477.4	-2,749.9	6,110.4	4.68
13,412.0	88.79	343.39	6,362.8	5,567.8	-2,775.6	6,203.8	1.72
13,506.0	88.32	338.54	6,365.2	5,656.6	-2,806.3	6,297.6	5.18
13,540.0	88.36	338.26	6,366.2	5,688.2	-2,818.8	6,331.6	0.83
13,601.0	89.36	335.73	6,367.4	5,744.3	-2,842.6	6,392.5	4.46
13,695.0	89.56	337.24	6,368.3	5,830.5	-2,880.1	6,486.5	1.62
13,789.0	90.03	335.76	6,368.6	5,916.7	-2,917.6	6,580.5	1.65
13,883.0	90.57	333.90	6,368.1	6,001.8	-2,957.6	6,674.3	2.06
13,950.0	90.87	333.11	6,367.3	6,061.7	-2,987.5	6,741.2	1.26
14,010.0	90.75	332.89	6,366.4	6,115.2	-3,014.7	6,800.9	0.42

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
6,351.0	6,162.4	-928.3	-428.1	Middlesex
6,512.0	6,284.7	-861.7	-505.8	Burkett
6,563.0	6,313.2	-829.4	-533.1	Tully
6,654.0	6,349.8	-760.1	-578.8	Marcellus

Checked By: _____ Approved By: _____ Date: _____