

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

API 47-017-06622 County Doddridge District Central
Quad Oxford 7.5' Pad Name Robert Williams Pad Field/Pool Name ---
Farm name Williams, Robert Well Number McGee 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 4343159m Easting 511853
Landing Point of Curve Northing 4343024.66m Easting 512050.53m
Bottom Hole Northing 4340777m Easting 513120m

Elevation (ft) 990' 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
Drilled with Cable Rotary

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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 11/14/2014 Date drilling commenced 11/19/2014 Date drilling ceased 1/31/2015
Date completion activities began 4/5/2015 Date completion activities ceased 6/24/2015
Verbal plugging (Y/N) N/A Date permission granted N/A Granted by N/A

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

Freshwater depth(s) ft 57' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 1507' 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:

JL 8/21/15
10/23/2015

API 47-017 - 06622 Farm name Williams, Robert Well number McGee 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"	40'	New	94# H-40	N/A	Y
Surface	17- 1/2"	13- 3/8"	385'	New	48# H-40	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2527'	New	36# J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4" & 8-1/2"	5-1/2"	15228'	New	23# P-110	N/A	Y
Tubing		2-3/8"	6621'		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	150 sx	15.6	1.18	38	0'	8 Hrs.
Surface	Class A	453 sx	15.6	1.18	367	0'	8 Hrs.
Coal							
Intermediate 1	Class A	931 sx	15.6	1.18	791	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	845 sx (Lead) 1410 sx (Tail)	13.5 Lead 15.2 Tail	1.44 Lead 1.81 Tail	3024	~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 15228' MD, 6510' TVD (BHL); 6542' TVD (Deepest point drilled) Loggers TD (ft) 15183'
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 5879'

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

Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING _____
 Conductor- 0
 Surface- 1 above guide shoe, 1 above insert float, 1 every 4th joint to surface
 Intermediate- 1 above float joint, 1 above float collar, 1 every 4th joint to surface
 Production- 1 above float joint, 1 below float collar, 1 every 3rd joint to top of cement

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

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

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API 47- 017 - 06622 Farm name Williams, Robert Well number McGee Unit 2H

PERFORATION RECORD

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

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Please insert additional pages as applicable.

API 47- 017 - 06622 Farm name Williams, Robert Well number McGee Unit 1H

McGee Unit 2H

PRODUCING FORMATION(S)	DEPTHS	
	6480' (TOP) TVD	6766' (TOP) MD
Marcellus		

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 7848 mcfpd Oil 25 bpd NGL --- bpd Water 125 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)
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	0		0		

***PLEASE SEE ATTACHED 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 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 US Well Services
Address 533 Industrial Park Drive City Jane Lew State WV Zip 26378

Please insert additional pages as applicable.

Completed by Kara Quackenbush Telephone 303-357-7233
Signature [Signature] Title Permit Representative Date 7/8/2015

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EXHIBIT 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	5-Apr-15	14,967	15,135	60	Marcellus
2	27-May-15	14,768	14,936	60	Marcellus
3	27-May-15	14,569	14,737	60	Marcellus
4	28-May-15	14,370	14,538	60	Marcellus
5	28-May-15	14,171	14,339	60	Marcellus
6	28-May-15	13,972	14,140	60	Marcellus
7	29-May-15	13,773	13,941	60	Marcellus
8	30-May-15	13,574	13,741	60	Marcellus
9	30-May-15	13,374	13,542	60	Marcellus
10	30-May-15	13,175	13,343	60	Marcellus
11	30-May-15	12,976	13,144	60	Marcellus
12	31-May-15	12,777	12,945	60	Marcellus
13	31-May-15	12,578	12,746	60	Marcellus
14	1-Jun-15	12,379	12,547	60	Marcellus
15	1-Jun-15	12,180	12,348	60	Marcellus
16	1-Jun-15	11,981	12,149	60	Marcellus
17	1-Jun-15	11,782	11,950	60	Marcellus
18	2-Jun-15	11,583	11,751	60	Marcellus
19	2-Jun-15	11,384	11,552	60	Marcellus
20	2-Jun-15	11,185	11,352	60	Marcellus
21	2-Jun-15	10,986	11,153	60	Marcellus
22	2-Jun-15	10,786	10,954	60	Marcellus
23	3-Jun-15	10,587	10,755	60	Marcellus
24	3-Jun-15	10,388	10,556	60	Marcellus
25	3-Jun-15	10,189	10,357	60	Marcellus
26	3-Jun-15	9,990	10,158	60	Marcellus
27	4-Jun-15	9,791	9,959	60	Marcellus
28	4-Jun-15	9,592	9,760	60	Marcellus
29	4-Jun-15	9,393	9,561	60	Marcellus
30	4-Jun-15	9,194	9,362	60	Marcellus
31	4-Jun-15	8,995	9,163	60	Marcellus
32	5-Jun-15	8,796	8,964	60	Marcellus
33	5-Jun-15	8,597	8,764	60	Marcellus
34	5-Jun-15	8,397	8,565	60	Marcellus
35	5-Jun-15	8,198	8,366	60	Marcellus
36	5-Jun-15	7,999	8,167	60	Marcellus
37	6-Jun-15	7,800	7,968	60	Marcellus
38	6-Jun-15	7,601	7,769	60	Marcellus
39	6-Jun-15	7,402	7,570	60	Marcellus
40	6-Jun-15	7,203	7,371	60	Marcellus
41	6-Jun-15	7,004	7,172	60	Marcellus
42	6-Jun-15	6,805	6,973	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-Apr-15	62.8	7,082	5,604	4,989	91,120	7,100	N/A
2	27-May-15	59.9	7,250	6,303	4,832	162,440	6,604	N/A
3	27-May-15	59.3	7,314	6,843	4,799	192,820	6,707	N/A
4	28-May-15	51.7	7,429	6,655	4,163	42,100	7,065	N/A
5	28-May-15	56.0	7,081	7,331	4,832	72,840	6,484	N/A
6	28-May-15	62.5	7,023	6,251	5,375	224,320	6,404	N/A
7	29-May-15	62.4	6,915	6,146	5,217	242,970	6,436	N/A
8	30-May-15	62.8	7,317	5,987	5,025	200,970	6,383	N/A
9	30-May-15	54.5	6,956	5,776	4,520	101,770	6,986	N/A
10	30-May-15	60.3	6,533	5,944	5,136	142,740	6,684	N/A
11	30-May-15	64.1	6,806	6,162	4,874	243,380	6,591	N/A
12	31-May-15	63.2	6,694	5,579	5,068	219,400	6,948	N/A
13	31-May-15	64.9	6,808	5,629	4,678	243,180	6,650	N/A
14	1-Jun-15	66.1	7,238	6,198	4,610	141,880	6,754	N/A
15	1-Jun-15	63.2	6,768	5,778	5,457	232,650	6,394	N/A
16	1-Jun-15	63.1	6,775	5,497	4,416	171,775	6,354	N/A
17	1-Jun-15	61.3	6,473	6,055	5,168	194,770	6,733	N/A
18	2-Jun-15	65.1	6,531	5,951	4,274	244,400	6,376	N/A
19	2-Jun-15	66.3	6,782	5,773	4,414	245,310	6,290	N/A
20	2-Jun-15	67.4	6,848	5,460	4,584	245,765	6,279	N/A
21	2-Jun-15	65.3	6,691	5,872	4,824	243,400	6,306	N/A
22	2-Jun-15	66.4	6,823	6,101	4,814	231,750	6,875	N/A
23	3-Jun-15	67.1	7,224	5,679	4,499	182,600	6,781	N/A
24	3-Jun-15	66.7	6,929	5,777	5,047	215,320	5,839	N/A
25	3-Jun-15	66.4	7,106	5,679	5,679	202,540	6,739	N/A
26	3-Jun-15	64.6	6,659	5,976	5,096	156,000	5,924	N/A
27	4-Jun-15	62.8	6,598	5,754	4,592	197,925	6,671	N/A
28	4-Jun-15	67.1	6,634	5,550	5,368	241,675	6,173	N/A
29	4-Jun-15	66.7	6,515	5,704	5,397	241,650	6,192	N/A
30	4-Jun-15	67.3	6,442	6,166	5,025	243,770	6,209	N/A
31	4-Jun-15	67.6	6,788	5,854	5,021	228,150	5,974	N/A
32	5-Jun-15	67.0	6,552	6,162	5,189	244,100	6,140	N/A
33	5-Jun-15	65.8	6,906	6,144	5,096	224,200	5,864	N/A
34	5-Jun-15	67.9	6,568	5,820	5,534	244,800	6,133	N/A
35	5-Jun-15	66.8	6,313	6,919	5,604	243,520	6,114	N/A
36	5-Jun-15	67.8	6,383	6,502	5,257	243,660	6,118	N/A
37	6-Jun-15	68.9	6,439	5,661	5,014	204,740	5,876	N/A
38	6-Jun-15	68.2	6,800	5,701	4,528	196,700	5,995	N/A
39	6-Jun-15	67.7	6,559	5,951	5,465	231,210	5,936	N/A
40	6-Jun-15	67.9	6,373	5,819	5,450	242,600	6,102	N/A
41	6-Jun-15	68.1	6,513	5,833	4,674	239,910	6,007	N/A
42	6-Jun-15	68.7	6,414	6,956	4,646	227,180	5,682	N/A
AVG=		64.5	6,782	6,012	4,958	8,584,000	267,972	TOTAL

Approved
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10/23/2015

EXHIBIT 3

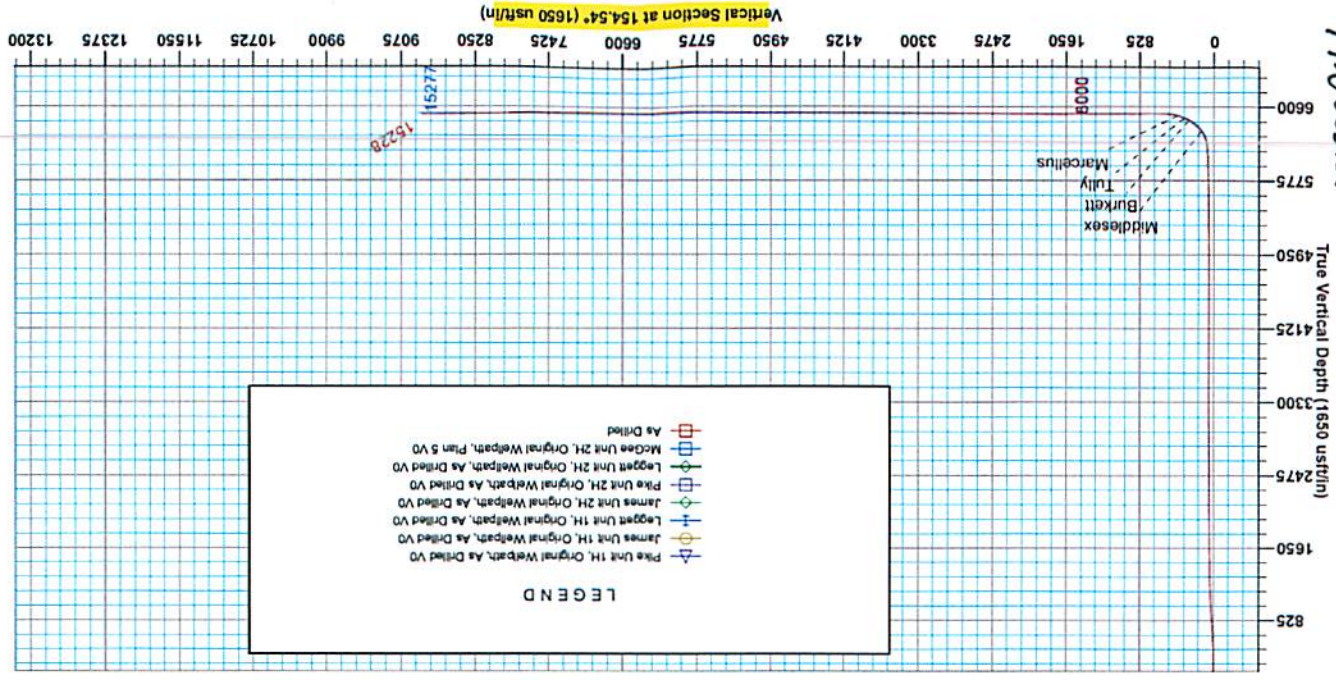
LITHOLOGY/ FORMATION	TOP DEPTH (TVD)	BOTTOM DEPTH (TVD)	TOP DEPTH (MD)	BOTTOM DEPTH (MD)
	From Surface	From Surface	From Surface	From Surface
Fresh Water	57'	N/A	57'	N/A
Shale/ Sandstone	0	427	0	427
Limestone/ Sandstone	est. 427	507	est. 427	507
Shale/ Siltstone	est. 507	587	est. 507	587
Sandstone/ Trace Coal	est. 587	607	est. 587	607
Sandstone/ Siltstone	est. 607	687	est. 607	687
Sandstone/ Limestone	est. 687	787	est. 687	787
Shale/ Sandstone	est. 787	947	est. 787	947
Siltstone/ Limestone	est. 947	1327	est. 947	1327
Shale/ Trace Coal	est. 1327	1387	est. 1327	1387
Shale/ Sandstone	est. 1387	1427	est. 1387	1427
Shale/ Coal	est. 1427	1487	est. 1427	1487
Sandstone	est. 1487	1527	est. 1487	1527
Sandstone/ Trace Coal	est. 1527	1667	est. 1527	1667
Sandstone/ Siltstone	est. 1667	1907	est. 1667	1907
Sandstone/ Trace Coal	est. 1907	1985	est. 1907	1987
Big Lime	1985	2083	1987	2085
Big Injun	2083	2401	2085	2403
Gantz Sand	2401	2595	2403	2597
Fifty Foot Sandstone	2595	2665	2597	2667
Gordon	2665	3025	2667	3027
Fifth Sandstone	3025	3057	3027	3059
Bayard	3057	3410	3059	3412
Warren	3410	3768	3412	3770
Speechley	3768	4066	3770	4068
Baltown	4066	4532	4068	4534
Bradford	4532	4932	4534	4934
Benson	4932	5168	4934	5170
Alexander	5168	5355	5170	5357
Elk	5355	5805	5357	5807
Rhinestreet	5805	6162	5807	6194
Sycamore	6143	6305	6175	6404
Middlesex	6305	6426	6404	6622
Burkett	6426	6453	6622	6685
Tully	6453	6480	6685	6766
Marcellus	6480	NA	6766	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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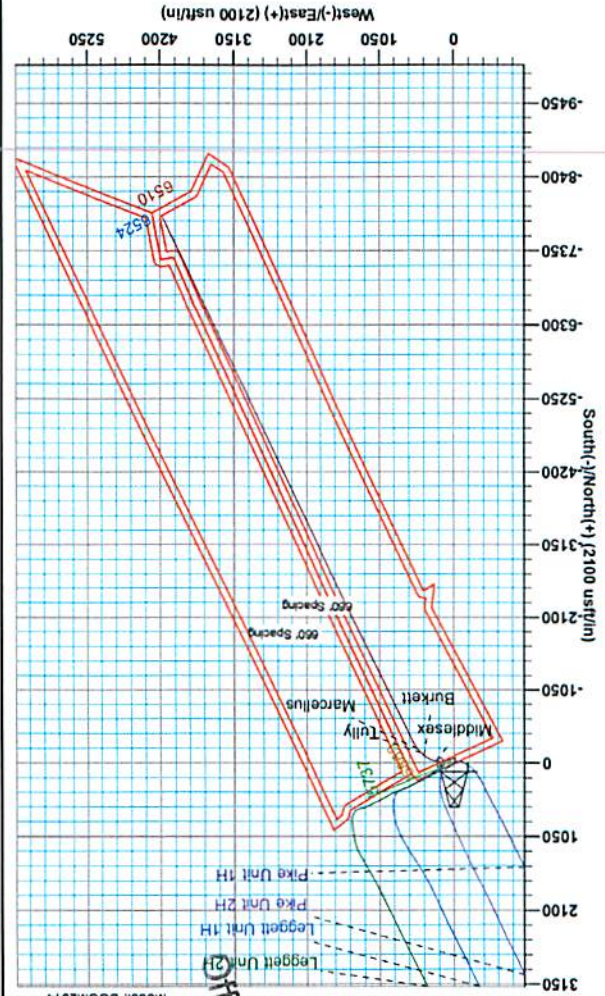
10/23/2015

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LEGEND

- ▲ Pike Unit 1H, Original Wellpath, As Drilled VO
- ▲ James Unit 1H, Original Wellpath, As Drilled VO
- ▲ Leggett Unit 1H, Original Wellpath, As Drilled VO
- ▲ James Unit 2H, Original Wellpath, As Drilled VO
- ▲ Pike Unit 2H, Original Wellpath, As Drilled VO
- ▲ Leggett Unit 2H, Original Wellpath, As Drilled VO
- ▲ McGee Unit 2H, Original Wellpath, Plan 5 VO
- ▲ As Drilled



Azimuths to Grid North
 True North: -0.09°
 Magnetic North: -8.50°
 Dip Angle: 66.81°
 Length: 52194.34mT
 Model: BGM2014
 Date: 11/3/2014
 Magnetic Field

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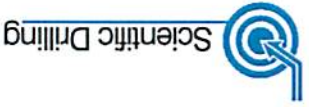
McGee Unit 2H
 Doddridge County WV
 14248465.78
 1679258.13
 As Drilled

WELL DETAILS McGee Unit 2H
 Ground Level: 990.0
 +N/S +E/W
 Northing 14248465.78
 Easting 1679258.13
 Longitude 141 15 253 N60° 51' 46.162 W
 Latitude 39° 14' 15.253 N60° 51' 46.162 W

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

SITE DETAILS:
 Robert Williams Pad: Leggett/ Pike Pad/James/McGee
 Site Centre Northing: 14248467.61
 Easting: 1679248.10
 Positional Uncertainty: 0.0
 Convergence: 0.09
 Local North: Grid

Gentle Lightfoot
 9:25, February 03 2015
 Scientific Drilling
 11220 N.W. 10th Street
 Yukon, OK 73099



Precision 523: GL 907° + KB 19° @ 1009 Quat
 Gr: 990.0

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Antero

Doddridge County WV
Robert Williams Pad: Leggett/ Pike Pad/James/McGee
McGee Unit 2H
Original Wellpath

Design: As Drilled

EOW Completion Report

03 February, 2015



Scientific Drilling

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EOW Completion Report



Company:	Antero	Local Co-ordinate Reference:	Well McGee Unit 2H
Project:	Doddridge County WV	TVD Reference:	Precision 523: GL 990' + KB 19' @ 1009.0usft
Site:	Robert Williams Pad: Leggett/ Pike Pad/James/M	MD Reference:	Precision 523: GL 990' + KB 19' @ 1009.0usft
Well:	McGee 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	Robert Williams Pad: Leggett/ Pike Pad/James/McGee				
Site Position:		Northing:	14,248,467.61 usft	Latitude:	39° 14' 15.272 N
From:	Map	Easting:	1,679,248.10 usft	Longitude:	80° 51' 46.289 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.09 °

Well	McGee Unit 2H, Marcellus					
Well Position	+N-S	0.0 usft	Northing:	14,248,465.78 usft	Latitude:	39° 14' 15.253 N
	+E-W	0.0 usft	Easting:	1,679,258.13 usft	Longitude:	80° 51' 46.162 W
Position Uncertainty	2.0 usft		Wellhead Elevation:	1,009.0 usft	Ground Level:	990.0 usft

Wellbore	Original Wellpath				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	Eggm2014	11/3/2014	-8.42	66.81	52,194

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 2/3/2015				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
106.0	5,746.0	Survey #5 Def KOP Gyro (Original Wellpa	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
5,759.0	15,228.0	Survey #6 MWD Surveys (Original Wellpa	SDI MWD	Scientific Drilling Intl. MWD - Standard ver 1.0.1	

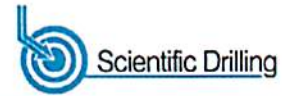
Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	V. Sec (usft)	DLeg (°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	
106.0	0.16	274.57	106.0	0.0	-0.1	-0.1	0.15	
131.0	0.14	261.65	131.0	0.0	-0.2	-0.1	0.16	
156.0	0.15	254.58	156.0	0.0	-0.3	-0.1	0.08	
181.0	0.15	260.60	181.0	0.0	-0.3	-0.1	0.06	
206.0	0.20	275.20	206.0	0.0	-0.4	-0.2	0.27	
231.0	0.21	248.74	231.0	0.0	-0.5	-0.2	0.38	
256.0	0.20	255.03	256.0	-0.1	-0.6	-0.2	0.10	
281.0	0.19	260.32	281.0	-0.1	-0.7	-0.2	0.08	
306.0	0.25	262.43	306.0	-0.1	-0.8	-0.2	0.24	
331.0	0.23	253.28	331.0	-0.1	-0.9	-0.3	0.17	

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EOW Completion Report



Company:	Antero	Local Co-ordinate Reference:	Well McGee Unit 2H
Project:	Doddridge County WV	TVD Reference:	Precision 523: GL 990' + KB 19' @ 1009.0usft
Site:	Robert Williams Pad: Leggett/ Pike Pad/James/M	MD Reference:	Precision 523: GL 990' + KB 19' @ 1009.0usft
Well:	McGee 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	0.11	189.80	189.80	356.0	-0.2	-0.9	-0.3	0.82	0.82
381.0	0.12	238.72	238.72	381.0	-0.2	-0.9	-0.2	0.38	0.38
406.0	0.21	241.38	241.38	406.0	-0.2	-1.0	-0.2	0.36	0.36
431.0	0.31	226.57	226.57	431.0	-0.3	-1.1	-0.2	0.48	0.48
456.0	0.88	203.75	203.75	456.0	-0.5	-1.2	-0.1	2.43	2.43
481.0	1.33	198.99	198.99	481.0	-1.0	-1.4	0.3	1.84	1.84
506.0	1.87	197.91	197.91	506.0	-1.6	-1.6	0.8	2.16	2.16
531.0	2.43	196.76	196.76	531.0	-2.5	-1.9	1.5	2.25	2.25
556.0	3.27	194.85	194.85	555.9	-3.7	-2.2	2.4	3.38	3.38
581.0	3.44	194.76	194.76	580.9	-5.1	-2.6	3.5	0.68	0.68
606.0	3.81	194.74	194.74	605.8	-6.7	-3.0	4.7	1.48	1.48
631.0	4.05	195.38	195.38	630.8	-8.3	-3.4	6.0	0.98	0.98
656.0	4.40	194.64	194.64	655.7	-10.1	-3.9	7.4	1.42	1.42
681.0	4.86	194.73	194.73	680.6	-12.0	-4.4	9.0	1.84	1.84
706.0	4.88	194.28	194.28	705.5	-14.1	-5.0	10.6	0.17	0.17
731.0	4.96	194.99	194.99	730.4	-16.2	-5.5	12.2	0.40	0.40
756.0	4.97	194.35	194.35	755.4	-18.3	-6.1	13.9	0.23	0.23
781.0	4.98	194.02	194.02	780.3	-20.4	-6.6	15.6	0.12	0.12
806.0	5.01	194.67	194.67	805.2	-22.5	-7.1	17.2	0.26	0.26
831.0	4.97	192.46	192.46	830.1	-24.6	-7.6	18.9	0.79	0.79
856.0	4.81	192.93	192.93	855.0	-26.7	-8.1	20.6	0.66	0.66
881.0	4.70	192.52	192.52	879.9	-28.7	-8.6	22.2	0.46	0.46
906.0	4.45	192.52	192.52	904.8	-30.6	-9.0	23.8	1.00	1.00
931.0	4.12	192.25	192.25	929.7	-32.5	-9.4	25.3	1.32	1.32
956.0	3.99	192.01	192.01	954.7	-34.2	-9.8	26.7	0.52	0.52
981.0	3.91	192.84	192.84	979.6	-35.9	-10.1	28.0	0.39	0.39
1,006.0	3.79	192.28	192.28	1,004.6	-37.5	-10.5	29.4	0.50	0.50
1,031.0	3.60	193.71	193.71	1,029.5	-39.1	-10.9	30.6	0.84	0.84
1,056.0	3.38	194.57	194.57	1,054.5	-40.6	-11.2	31.8	0.90	0.90
1,081.0	3.26	194.36	194.36	1,079.4	-42.0	-11.6	32.9	0.48	0.48
1,106.0	3.15	195.48	195.48	1,104.4	-43.3	-12.0	34.0	0.51	0.51
1,131.0	2.89	194.94	194.94	1,129.4	-44.6	-12.3	35.0	1.05	1.05
1,156.0	2.76	194.97	194.97	1,154.3	-45.8	-12.6	35.9	0.52	0.52
1,181.0	2.55	195.44	195.44	1,179.3	-46.9	-12.9	36.8	0.84	0.84
1,206.0	2.41	196.33	196.33	1,204.3	-47.9	-13.2	37.6	0.58	0.58
1,231.0	2.16	196.58	196.58	1,229.3	-48.9	-13.5	38.3	1.00	1.00
1,256.0	2.00	197.81	197.81	1,254.2	-49.8	-13.8	39.0	0.66	0.66
1,281.0	1.96	196.82	196.82	1,279.2	-50.6	-14.0	39.6	0.21	0.21
1,306.0	1.77	198.73	198.73	1,304.2	-51.4	-14.3	40.2	0.80	0.80
1,331.0	1.68	196.14	196.14	1,329.2	-52.1	-14.5	40.8	0.48	0.48
1,356.0	1.65	198.68	198.68	1,354.2	-52.8	-14.7	41.4	0.32	0.32
1,381.0	1.47	199.58	199.58	1,379.2	-53.4	-14.9	41.8	0.73	0.73
1,406.0	1.29	179.99	179.99	1,404.2	-54.0	-15.0	42.0	2.01	2.01
1,431.0	1.19	200.39	200.39	1,429.2	-54.5	-15.1	42.7	1.80	1.80

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17-06622



EOW Completion Report



Company:	Antero	Local Co-ordinate Reference:	Well McGee Unit 2H
Project:	Doddridge County WV	TVD Reference:	Precision 523: GL 990' + KB 19' @ 1009.0usft
Site:	Robert Williams Pad: Leggett/ Pike Pad/James/M	MD Reference:	Precision 523: GL 990' + KB 19' @ 1009.0usft
Well:	McGee 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	1.06	199.52	1,454.2	-55.0	-15.3	43.1	0.52		
1,481.0	0.88	201.91	1,479.2	-55.4	-15.5	43.4	0.74		
1,506.0	0.78	199.48	1,504.2	-55.7	-15.6	43.6	0.42		
1,531.0	0.75	201.37	1,529.2	-56.0	-15.7	43.8	0.16		
1,556.0	0.63	205.43	1,554.1	-56.3	-15.8	44.0	0.52		
1,581.0	0.66	200.06	1,579.1	-56.6	-15.9	44.2	0.27		
1,606.0	0.66	205.85	1,604.1	-56.8	-16.0	44.4	0.27		
1,631.0	0.55	203.78	1,629.1	-57.1	-16.2	44.6	0.45		
1,656.0	0.45	207.35	1,654.1	-57.3	-16.2	44.7	0.42		
1,681.0	0.37	212.52	1,679.1	-57.4	-16.3	44.8	0.35		
1,706.0	0.43	208.31	1,704.1	-57.6	-16.4	44.9	0.27		
1,731.0	0.45	202.68	1,729.1	-57.7	-16.5	45.0	0.19		
1,756.0	0.51	198.64	1,754.1	-57.9	-16.6	45.2	0.28		
1,781.0	0.51	196.82	1,779.1	-58.1	-16.6	45.3	0.06		
1,806.0	0.48	202.35	1,804.1	-58.4	-16.7	45.5	0.23		
1,831.0	0.49	200.44	1,829.1	-58.5	-16.8	45.6	0.08		
1,856.0	0.49	198.05	1,854.1	-58.8	-16.9	45.8	0.08		
1,881.0	0.44	204.74	1,879.1	-58.9	-16.9	45.9	0.29		
1,906.0	0.43	203.71	1,904.1	-59.1	-17.0	46.1	0.05		
1,931.0	0.42	204.19	1,929.1	-59.3	-17.1	46.2	0.04		
1,956.0	0.46	207.63	1,954.1	-59.5	-17.2	46.3	0.19		
1,981.0	0.51	195.34	1,979.1	-59.7	-17.3	46.4	0.46		
2,006.0	0.33	197.26	2,004.1	-59.8	-17.3	46.6	0.72		
2,031.0	0.29	196.89	2,029.1	-60.0	-17.3	46.7	0.16		
2,056.0	0.34	194.16	2,054.1	-60.1	-17.4	46.8	0.21		
2,081.0	0.46	192.77	2,079.1	-60.3	-17.4	46.9	0.48		
2,106.0	0.26	185.36	2,104.1	-60.4	-17.4	47.0	0.82		
2,131.0	0.24	204.73	2,129.1	-60.5	-17.5	47.1	0.35		
2,156.0	0.34	192.71	2,154.1	-60.6	-17.5	47.2	0.47		
2,181.0	0.34	185.49	2,179.1	-60.8	-17.5	47.3	0.17		
2,206.0	0.27	186.17	2,204.1	-60.9	-17.5	47.5	0.28		
2,231.0	0.29	185.84	2,229.1	-61.0	-17.6	47.6	0.08		
2,256.0	0.36	173.96	2,254.1	-61.2	-17.6	47.7	0.39		
2,281.0	0.37	184.63	2,279.1	-61.3	-17.6	47.8	0.27		
2,306.0	0.25	185.29	2,304.1	-61.5	-17.6	47.9	0.48		
2,331.0	0.32	200.54	2,329.1	-61.6	-17.6	48.0	0.41		
2,356.0	0.38	197.26	2,354.1	-61.7	-17.6	48.2	0.25		
2,381.0	0.42	187.92	2,379.1	-61.9	-17.7	48.3	0.31		
2,406.0	0.46	195.61	2,404.1	-62.1	-17.7	48.4	0.28		
2,431.0	0.47	183.25	2,429.1	-62.3	-17.8	48.6	0.40		
2,456.0	0.39	195.01	2,454.1	-62.5	-17.8	48.8	0.47		
2,481.0	0.43	177.32	2,479.1	-62.7	-17.8	48.9	0.53		
2,506.0	0.42	193.02	2,504.1	-62.8	-17.8	49.1	0.47		
2,531.0	0.40	195.01	2,529.1	-63.0	-17.9	49.2	0.10		
2,556.0	0.40	189.11	2,554.1	-63.2	-17.9	49.3	0.16		

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EOW Completion Report



Company:	Antero	Local Co-ordinate Reference:	Well McGee Unit 2H
Project:	Doddridge County WV	TVD Reference:	Precision 523: GL 990' + KB 19' @ 1009.0usft
Site:	Robert Williams Pad: Leggett/ Pike Pad/James/M	MD Reference:	Precision 523: GL 990' + KB 19' @ 1009.0usft
Well:	McGee 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	0.41	203.80	2,579.1	-63.3	-17.9	49.5	0.42	
2,606.0	0.39	206.27	2,604.1	-63.5	-18.0	49.6	0.11	
2,631.0	0.40	205.72	2,629.1	-63.7	-18.1	49.7	0.04	
2,656.0	0.41	200.68	2,654.1	-63.8	-18.2	49.8	0.15	
2,681.0	0.43	195.77	2,679.1	-64.0	-18.2	49.9	0.16	
2,706.0	0.41	213.70	2,704.1	-64.2	-18.3	50.1	0.53	
2,731.0	0.41	211.64	2,729.1	-64.3	-18.4	50.2	0.06	
2,756.0	0.39	205.53	2,754.1	-64.5	-18.5	50.3	0.19	
2,781.0	0.38	220.91	2,779.1	-64.6	-18.6	50.3	0.41	
2,806.0	0.39	213.54	2,804.1	-64.7	-18.7	50.4	0.20	
2,831.0	0.37	214.61	2,829.1	-64.9	-18.8	50.5	0.08	
2,856.0	0.36	216.67	2,854.1	-65.0	-18.9	50.6	0.07	
2,881.0	0.34	220.49	2,879.1	-65.1	-19.0	50.7	0.12	
2,906.0	0.37	227.42	2,904.1	-65.2	-19.1	50.7	0.21	
2,931.0	0.40	222.85	2,929.1	-65.4	-19.2	50.8	0.17	
2,956.0	0.34	219.80	2,954.1	-65.5	-19.3	50.8	0.25	
2,981.0	0.39	225.68	2,979.1	-65.6	-19.4	50.9	0.25	
3,006.0	0.42	231.55	3,004.1	-65.7	-19.5	50.9	0.20	
3,031.0	0.40	221.67	3,029.1	-65.8	-19.7	51.0	0.29	
3,056.0	0.42	222.41	3,054.1	-66.0	-19.8	51.1	0.08	
3,081.0	0.37	222.57	3,079.1	-66.1	-19.9	51.1	0.20	
3,106.0	0.40	226.01	3,104.1	-66.2	-20.0	51.2	0.15	
3,131.0	0.34	219.21	3,129.1	-66.3	-20.1	51.2	0.30	
3,156.0	0.34	222.14	3,154.1	-66.4	-20.2	51.3	0.07	
3,181.0	0.35	217.38	3,179.1	-66.6	-20.3	51.4	0.12	
3,206.0	0.37	203.14	3,204.1	-66.7	-20.4	51.4	0.37	
3,231.0	0.36	212.03	3,229.1	-66.8	-20.5	51.5	0.23	
3,256.0	0.36	216.86	3,254.1	-67.0	-20.6	51.6	0.12	
3,281.0	0.37	216.92	3,279.1	-67.1	-20.6	51.7	0.04	
3,306.0	0.33	216.06	3,304.1	-67.2	-20.7	51.8	0.16	
3,331.0	0.30	223.86	3,329.1	-67.3	-20.8	51.8	0.21	
3,356.0	0.26	221.18	3,354.1	-67.4	-20.9	51.9	0.17	
3,381.0	0.28	216.25	3,379.1	-67.5	-21.0	51.9	0.12	
3,406.0	0.31	219.35	3,404.1	-67.6	-21.1	52.0	0.14	
3,431.0	0.34	226.76	3,429.1	-67.7	-21.2	52.0	0.21	
3,456.0	0.32	224.26	3,454.1	-67.8	-21.3	52.1	0.10	
3,481.0	0.28	218.11	3,479.1	-67.9	-21.3	52.1	0.21	
3,506.0	0.31	210.64	3,504.1	-68.0	-21.4	52.2	0.19	
3,531.0	0.31	222.82	3,529.1	-68.1	-21.5	52.3	0.07	
3,556.0	0.31	228.22	3,554.1	-68.2	-21.6	52.3	0.12	
3,581.0	0.31	231.26	3,579.1	-68.3	-21.7	52.3	0.07	
3,606.0	0.26	229.92	3,604.1	-68.4	-21.8	52.4	0.20	
3,631.0	0.27	217.10	3,629.1	-68.5	-21.9	52.4	0.24	
3,656.0	0.25	214.60	3,654.1	-68.6	-21.9	52.5	0.09	

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EOW Completion Report



Company: Antero	Local Co-ordinate Reference: Well McGee Unit 2H
Project: Doddridge County WV	TVD Reference: Precision 523: GL 990' + KB 19' @ 1009.0usft
Site: Robert Williams Pad: Leggett/ Pike Pad/James/M	MD Reference: Precision 523: GL 990' + KB 19' @ 1009.0usft
Well: McGee Unit 2H	North Reference: Grid
Wellbore: Original Wellpath	Survey Calculation Method: Minimum Curvature
Design: As Drilled	Database: Oklahoma District

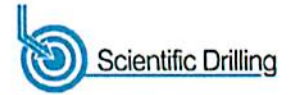
Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	V. Sec (usft)	DLeg (°/100usft)	
3,681.0	0.25	208.75	3,679.1	-68.6	-22.0	52.5	0.10	
3,706.0	0.23	223.18	3,704.1	-68.7	-22.1	52.6	0.25	
3,731.0	0.22	238.23	3,729.1	-68.8	-22.1	52.6	0.24	
3,756.0	0.17	222.96	3,754.1	-68.8	-22.2	52.6	0.29	
3,781.0	0.20	229.29	3,779.1	-68.9	-22.3	52.6	0.15	
3,806.0	0.18	243.86	3,804.1	-68.9	-22.3	52.7	0.21	
3,831.0	0.15	235.12	3,829.1	-69.0	-22.4	52.7	0.16	
3,856.0	0.12	211.76	3,854.1	-69.0	-22.4	52.7	0.25	
3,881.0	0.08	266.54	3,879.1	-69.0	-22.5	52.7	0.39	
3,906.0	0.14	266.38	3,904.1	-69.0	-22.5	52.7	0.24	
3,931.0	0.12	278.75	3,929.1	-69.0	-22.6	52.6	0.14	
3,956.0	0.16	331.96	3,954.1	-69.0	-22.6	52.6	0.52	
3,981.0	0.19	16.61	3,979.1	-68.9	-22.6	52.5	0.54	
4,006.0	0.22	15.23	4,004.1	-68.9	-22.6	52.5	0.12	
4,031.0	0.26	8.02	4,029.1	-68.8	-22.6	52.4	0.20	
4,056.0	0.29	22.88	4,054.1	-68.6	-22.5	52.3	0.31	
4,081.0	0.40	38.85	4,079.1	-68.5	-22.5	52.2	0.58	
4,106.0	0.34	24.12	4,104.1	-68.4	-22.4	52.1	0.45	
4,131.0	0.43	38.87	4,129.1	-68.2	-22.3	52.0	0.53	
4,156.0	0.48	53.64	4,154.1	-68.1	-22.1	52.0	0.51	
4,181.0	0.53	46.32	4,179.1	-68.0	-22.0	51.9	0.33	
4,206.0	0.53	52.02	4,204.1	-67.8	-21.8	51.9	0.21	
4,231.0	0.63	53.31	4,229.1	-67.7	-21.6	51.8	0.40	
4,256.0	0.61	54.52	4,254.1	-67.5	-21.4	51.8	0.10	
4,281.0	0.63	54.20	4,279.1	-67.3	-21.2	51.7	0.08	
4,306.0	0.63	57.84	4,304.1	-67.2	-20.9	51.7	0.16	
4,331.0	0.72	60.94	4,329.1	-67.0	-20.7	51.6	0.39	
4,356.0	0.63	51.04	4,354.1	-66.9	-20.4	51.6	0.59	
4,381.0	0.61	47.88	4,379.1	-66.7	-20.2	51.5	0.16	
4,406.0	0.60	56.66	4,404.1	-66.5	-20.0	51.5	0.37	
4,431.0	0.65	53.08	4,429.1	-66.4	-19.8	51.4	0.25	
4,456.0	0.70	65.93	4,454.1	-66.2	-19.5	51.4	0.64	
4,481.0	0.68	72.89	4,479.1	-66.1	-19.3	51.4	0.34	
4,506.0	0.64	75.63	4,504.1	-66.0	-19.0	51.5	0.20	
4,531.0	0.67	79.45	4,529.1	-66.0	-18.7	51.5	0.21	
4,556.0	0.62	86.58	4,554.1	-65.9	-18.4	51.6	0.38	
4,581.0	0.62	86.23	4,579.1	-65.9	-18.2	51.7	0.02	
4,606.0	0.62	87.95	4,604.1	-65.9	-17.9	51.8	0.07	
4,631.0	0.66	91.00	4,629.1	-65.9	-17.6	51.9	0.21	
4,656.0	0.61	86.90	4,654.1	-65.9	-17.3	52.0	0.27	
4,681.0	0.50	86.70	4,679.1	-65.9	-17.1	52.2	0.44	
4,706.0	0.49	92.65	4,704.1	-65.9	-16.9	52.2	0.21	
4,731.0	0.33	100.89	4,729.1	-65.9	-16.7	52.3	0.68	
4,756.0	0.25	83.20	4,754.1	-65.9	-16.6	52.4	0.48	

Received
Office of Oil & Gas
JUL 20 2015

17-06622



EOW Completion Report



Company:	Antero	Local Co-ordinate Reference:	Well McGee Unit 2H
Project:	Doddridge County WV	TVD Reference:	Precision 523: GL 990' + KB 19' @ 1009.0usft
Site:	Robert Williams Pad: Leggett/ Pike Pad/James/M	MD Reference:	Precision 523: GL 990' + KB 19' @ 1009.0usft
Well:	McGee Unit 2H	North Reference:	Grid
Wellbore:	Original Wellpath	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Oklahoma District

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	V. Sec (usft)	DLeg (°/100usft)
4,781.0	0.24	107.03	4,779.1	-65.9	-16.5	52.5	0.41
4,806.0	0.25	103.31	4,804.1	-66.0	-16.4	52.5	0.08
4,831.0	0.13	111.73	4,829.1	-66.0	-16.3	52.6	0.49
4,856.0	0.16	129.92	4,854.1	-66.0	-16.2	52.6	0.22
4,881.0	0.05	119.30	4,879.1	-66.0	-16.2	52.7	0.44
4,906.0	0.04	187.07	4,904.1	-66.1	-16.2	52.7	0.20
4,931.0	0.10	130.36	4,929.1	-66.1	-16.2	52.7	0.34
4,956.0	0.07	187.58	4,954.1	-66.1	-16.2	52.7	0.34
4,981.0	0.12	213.81	4,979.1	-66.1	-16.2	52.8	0.26
5,006.0	0.10	170.66	5,004.1	-66.2	-16.2	52.8	0.33
5,031.0	0.11	204.03	5,029.1	-66.2	-16.2	52.8	0.24
5,056.0	0.15	165.71	5,054.1	-66.3	-16.2	52.9	0.37
5,081.0	0.15	213.66	5,079.1	-66.3	-16.2	52.9	0.49
5,106.0	0.18	181.84	5,104.1	-66.4	-16.2	53.0	0.38
5,131.0	0.27	166.06	5,129.1	-66.5	-16.2	53.1	0.43
5,156.0	0.29	200.27	5,154.1	-66.6	-16.2	53.2	0.66
5,181.0	0.28	183.35	5,179.1	-66.7	-16.2	53.3	0.34
5,206.0	0.36	155.75	5,204.1	-66.9	-16.2	53.4	0.69
5,231.0	0.41	156.10	5,229.1	-67.0	-16.1	53.6	0.20
5,256.0	0.50	155.30	5,254.1	-67.2	-16.1	53.8	0.36
5,281.0	0.40	163.24	5,279.1	-67.4	-16.0	54.0	0.47
5,306.0	0.26	164.51	5,304.1	-67.5	-16.0	54.1	0.56
5,331.0	0.37	158.54	5,329.1	-67.7	-15.9	54.3	0.46
5,356.0	0.41	147.70	5,354.1	-67.8	-15.8	54.4	0.33
5,381.0	0.52	154.55	5,379.1	-68.0	-15.7	54.6	0.49
5,406.0	0.43	167.12	5,404.1	-68.2	-15.7	54.8	0.55
5,431.0	0.48	167.34	5,429.1	-68.4	-15.6	55.0	0.20
5,456.0	0.47	159.03	5,454.1	-68.6	-15.6	55.2	0.28
5,481.0	0.55	165.88	5,479.1	-68.8	-15.5	55.4	0.40
5,506.0	0.58	163.27	5,504.1	-69.0	-15.4	55.7	0.16
5,531.0	0.71	162.86	5,529.0	-69.3	-15.3	56.0	0.52
5,556.0	0.70	155.55	5,554.0	-69.6	-15.2	56.3	0.36
5,581.0	0.72	156.38	5,579.0	-69.9	-15.1	56.6	0.09
5,606.0	0.76	165.68	5,604.0	-70.2	-15.0	56.9	0.51
5,631.0	0.78	165.78	5,629.0	-70.5	-14.9	57.2	0.08
5,656.0	0.81	158.59	5,654.0	-70.8	-14.8	57.6	0.42
5,681.0	0.77	161.43	5,679.0	-71.1	-14.7	57.9	0.22
5,706.0	0.73	168.72	5,704.0	-71.5	-14.6	58.2	0.41
5,731.0	0.89	161.72	5,729.0	-71.8	-14.5	58.5	0.75
5,746.0	0.82	159.36	5,744.0	-72.0	-14.4	58.8	0.52
5,759.0	0.91	158.43	5,757.0	-72.2	-14.4	59.0	0.70
5,789.0	0.89	174.27	5,787.0	-72.7	-14.3	59.5	0.83
5,819.0	0.81	159.53	5,817.0	-73.1	-14.2	59.9	0.77
5,849.0	1.75	89.70	5,847.0	-73.3	-13.6	60.3	5.52

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EOW Completion Report



Company:	Antero	Local Co-ordinate Reference:	Well McGee Unit 2H
Project:	Doddridge County WV	TVD Reference:	Precision 523: GL 990' + KB 19' @ 1009.0usft
Site:	Robert Williams Pad: Leggett/ Pike Pad/James/M	MD Reference:	Precision 523: GL 990' + KB 19' @ 1009.0usft
Well:	McGee 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)
5,879.0	5.55	70.77	70.77	5,876.9	-72.8	-11.8	60.7	13.12
5,909.0	9.12	68.02	68.02	5,906.7	-71.4	-8.2	61.0	11.95
5,938.0	12.75	67.49	67.49	5,935.2	-69.3	-3.1	61.3	12.52
5,968.0	16.64	67.50	67.50	5,964.2	-66.4	3.9	61.7	12.97
5,998.0	19.73	68.78	68.78	5,992.7	-63.0	12.6	62.2	10.39
6,028.0	22.50	69.95	69.95	6,020.7	-59.2	22.7	63.2	9.34
6,058.0	25.47	70.33	70.33	6,048.1	-55.0	34.2	64.4	9.91
6,088.0	28.69	71.33	71.33	6,074.8	-50.5	47.1	65.9	10.84
6,117.0	32.07	71.90	71.90	6,099.8	-45.9	61.0	67.7	11.70
6,147.0	35.64	72.73	72.73	6,124.7	-40.8	76.9	69.9	12.00
6,177.0	38.79	73.99	73.99	6,148.6	-35.7	94.3	72.7	10.80
6,207.0	40.80	74.71	74.71	6,171.6	-30.5	112.8	76.0	6.87
6,237.0	41.80	76.18	76.18	6,194.2	-25.5	131.9	79.7	4.64
6,267.0	43.24	81.74	81.74	6,216.3	-21.6	151.8	84.8	13.41
6,297.0	44.54	87.80	87.80	6,237.9	-19.8	172.5	92.0	14.65
6,327.0	45.64	92.67	92.67	6,259.1	-19.9	193.7	101.2	12.06
6,357.0	46.36	96.02	96.02	6,280.0	-21.5	215.3	111.9	8.38
6,386.0	47.31	99.35	99.35	6,299.8	-24.3	236.2	123.5	8.99
6,416.0	49.39	101.82	101.82	6,319.7	-28.4	258.2	136.7	9.27
6,423.0	49.93	102.52	102.52	6,324.3	-29.6	263.5	140.0	10.84
Middlesex								
6,446.0	51.72	104.76	104.76	6,338.8	-33.8	280.8	151.2	10.84
6,476.0	53.48	107.38	107.38	6,357.0	-40.4	303.7	167.0	9.09
6,506.0	55.55	110.66	110.66	6,374.4	-48.4	326.8	184.1	11.26
6,536.0	56.52	114.91	114.91	6,391.2	-58.0	349.7	202.7	12.19
6,565.0	57.47	118.50	118.50	6,407.0	-68.9	371.4	221.9	10.89
6,595.0	58.79	122.26	122.26	6,422.8	-81.8	393.4	243.0	11.52
6,625.0	61.08	125.67	125.67	6,437.9	-96.3	414.9	265.3	12.45
6,641.0	62.53	127.90	127.90	6,445.4	-104.8	426.2	277.8	15.26
Burkett								
6,655.0	63.83	129.80	129.80	6,451.8	-112.6	435.9	289.1	15.26
6,685.0	66.51	133.58	133.58	6,464.4	-130.7	456.2	314.1	14.51
6,704.0	67.91	135.31	135.31	6,471.7	-143.0	468.7	330.6	11.18
Tully								
6,715.0	68.73	136.30	136.30	6,475.8	-150.3	475.9	340.3	11.18
6,745.0	70.69	138.52	138.52	6,486.2	-171.0	494.9	367.2	9.53
6,775.0	71.90	140.97	140.97	6,495.8	-192.7	513.3	394.6	8.72
6,785.0	72.80	141.74	141.74	6,498.8	-200.1	519.2	403.9	11.59
Marcellus								
6,805.0	74.60	143.26	143.26	6,504.4	-215.4	530.9	450.4	15.59
6,834.0	78.07	145.89	145.89	6,511.3	-238.3	547.2	479.7	14.86
6,864.0	81.65	148.75	148.75	6,516.6	-263.2	563.2	510.1	15.18
6,895.0	84.73	151.52	151.52	6,520.3	-289.9	578.5	540.3	13.32
6,925.0	87.14	154.53	154.53	6,522.4	-316.5	592.1	570.3	12.83
6,950.0	88.22	155.87	155.87	6,523.4	-339.2	602.5	565.3	6.88

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EOW Completion Report



Company:	Antero	Local Co-ordinate Reference:	Well McGee Unit 2H
Project:	Doddridge County WV	TVD Reference:	Precision 523: GL 990' + KB 19' @ 1009.0usft
Site:	Robert Williams Pad: Leggett/ Pike Pad/James/M	MD Reference:	Precision 523: GL 990' + KB 19' @ 1009.0usft
Well:	McGee Unit 2H	North Reference:	Grid
Wellbore:	Original Wellpath	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Oklahoma District

Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)		TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	
6,970.0	88.25	156.22	156.22	6,524.0	-357.5	610.6	585.3	1.76	
7,060.0	90.57	156.34	156.34	6,524.9	-439.9	646.8	675.2	2.58	
7,149.0	91.08	154.69	154.69	6,523.7	-520.9	683.7	764.2	1.94	
7,239.0	91.31	154.40	154.40	6,521.8	-602.1	722.4	854.2	0.41	
7,328.0	90.07	153.27	153.27	6,520.7	-682.0	761.6	943.2	1.88	
7,418.0	90.07	154.33	154.33	6,520.6	-762.7	801.4	1,033.1	1.18	
7,508.0	90.24	154.03	154.03	6,520.4	-843.7	840.6	1,123.1	0.38	
7,597.0	89.83	154.38	154.38	6,520.3	-923.9	879.3	1,212.1	0.61	
7,687.0	89.26	155.31	155.31	6,521.0	-1,005.3	917.6	1,302.1	1.21	
7,776.0	89.93	154.97	154.97	6,521.6	-1,086.1	955.0	1,391.1	0.84	
7,866.0	89.70	154.27	154.27	6,521.9	-1,167.4	993.6	1,481.1	0.82	
7,956.0	90.10	154.33	154.33	6,522.1	-1,248.5	1,032.6	1,571.1	0.45	
8,045.0	90.34	154.27	154.27	6,521.7	-1,328.7	1,071.2	1,660.1	0.28	
8,135.0	90.57	154.21	154.21	6,521.0	-1,409.7	1,110.3	1,750.1	0.26	
8,224.0	89.56	154.78	154.78	6,520.9	-1,490.1	1,148.6	1,839.1	1.30	
8,314.0	89.40	155.30	155.30	6,521.8	-1,571.7	1,186.6	1,929.1	0.60	
8,403.0	89.70	154.99	154.99	6,522.4	-1,652.4	1,224.0	2,018.1	0.48	
8,493.0	89.76	155.21	155.21	6,522.9	-1,734.0	1,261.9	2,108.1	0.25	
8,582.0	89.33	153.48	153.48	6,523.6	-1,814.3	1,300.4	2,197.1	2.00	
8,672.0	89.33	153.33	153.33	6,524.6	-1,894.7	1,340.7	2,287.1	0.17	
8,761.0	89.87	153.41	153.41	6,525.3	-1,974.3	1,380.6	2,376.0	0.61	
8,851.0	89.60	155.24	155.24	6,525.7	-2,055.4	1,419.6	2,466.0	2.06	
8,940.0	89.73	154.80	154.80	6,526.2	-2,136.1	1,457.2	2,555.0	0.52	
9,030.0	89.73	153.96	153.96	6,526.6	-2,217.2	1,496.1	2,645.0	0.93	
9,119.0	89.56	155.34	155.34	6,527.2	-2,297.6	1,534.2	2,734.0	1.56	
9,209.0	89.93	154.90	154.90	6,527.6	-2,379.3	1,572.1	2,824.0	0.64	
9,298.0	90.00	155.34	155.34	6,527.6	-2,460.0	1,609.5	2,913.0	0.50	
9,388.0	89.73	153.83	153.83	6,527.8	-2,541.3	1,648.1	3,003.0	1.70	
9,477.0	89.93	153.86	153.86	6,528.1	-2,621.2	1,687.4	3,092.0	0.23	
9,571.0	89.23	154.24	154.24	6,528.8	-2,705.7	1,728.5	3,186.0	0.85	
9,665.0	88.92	154.41	154.41	6,530.3	-2,790.4	1,769.2	3,280.0	0.38	
9,759.0	89.29	154.21	154.21	6,531.8	-2,875.1	1,810.0	3,374.0	0.45	
9,853.0	89.66	155.53	155.53	6,532.6	-2,960.2	1,849.9	3,468.0	1.46	
9,947.0	89.97	155.30	155.30	6,532.9	-3,045.7	1,889.0	3,562.0	0.41	
10,041.0	89.16	155.52	155.52	6,533.7	-3,131.2	1,928.1	3,655.9	0.89	
10,134.0	89.50	154.73	154.73	6,534.7	-3,215.5	1,967.2	3,748.9	0.92	
10,229.0	89.76	155.51	155.51	6,535.4	-3,301.7	2,007.2	3,843.9	0.87	
10,322.0	90.37	153.68	153.68	6,535.2	-3,385.7	2,047.1	3,936.9	2.07	
10,416.0	90.77	153.72	153.72	6,534.3	-3,470.0	2,088.7	4,030.9	0.43	
10,506.0	90.34	152.98	152.98	6,533.4	-3,550.4	2,129.1	4,124.9	0.95	
10,595.0	89.26	154.64	154.64	6,533.8	-3,630.3	2,168.4	4,218.9	2.23	
10,685.0	89.50	154.44	154.44	6,534.7	-3,711.5	2,207.0	4,312.9	0.35	
10,774.0	90.20	154.52	154.52	6,535.0	-3,791.9	2,245.4	4,406.9	0.79	
10,864.0	90.47	155.84	155.84	6,534.4	-3,873.5	2,283.2	4,498.9	1.50	

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EOW Completion Report



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Project: Doddridge County WV	TVD Reference: Precision 523: GL 990' + KB 19' @ 1009.0usft
Site: Robert Williams Pad: Leggett/ Pike Pad/James/M	MD Reference: Precision 523: GL 990' + KB 19' @ 1009.0usft
Well: McGee Unit 2H	North Reference: Grid
Wellbore: Original Wellpath	Survey Calculation Method: Minimum Curvature
Design: As Drilled	Database: Oklahoma District

Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	V. Sec (usft)	DLeg (°/100usft)
10,953.0	89.39	154.08	6,534.5	-3,954.2	2,320.8	4,567.8	2.32
11,043.0	88.76	152.79	6,536.0	-4,034.7	2,361.1	4,657.8	1.59
11,133.0	90.10	154.99	6,536.9	-4,115.5	2,400.7	4,747.8	2.86
11,222.0	90.17	155.28	6,536.7	-4,196.2	2,438.1	4,836.8	0.34
11,312.0	90.30	154.48	6,536.3	-4,277.7	2,476.3	4,926.8	0.90
11,401.0	90.47	153.93	6,535.7	-4,357.8	2,515.0	5,015.8	0.65
11,490.0	89.29	156.31	6,535.9	-4,438.6	2,552.5	5,104.8	2.98
11,580.0	89.13	156.45	6,537.1	-4,521.0	2,588.5	5,194.7	0.24
11,669.0	89.97	154.98	6,537.8	-4,602.1	2,625.1	5,283.7	1.90
11,759.0	88.26	153.70	6,539.2	-4,683.2	2,664.1	5,373.7	2.37
11,849.0	89.46	153.64	6,541.0	-4,763.9	2,704.0	5,463.6	1.33
11,938.0	89.43	154.16	6,541.9	-4,843.8	2,743.2	5,552.6	0.59
12,027.0	90.07	153.57	6,542.3	-4,923.7	2,782.4	5,641.6	0.98
12,117.0	89.76	154.83	6,542.4	-5,004.7	2,821.5	5,731.6	1.44
12,207.0	90.30	154.55	6,542.4	-5,086.1	2,860.0	5,821.6	0.68
12,296.0	89.63	156.30	6,542.4	-5,167.0	2,897.0	5,910.6	2.11
12,386.0	90.37	156.41	6,542.4	-5,249.5	2,933.1	6,000.6	0.83
12,475.0	90.64	153.93	6,541.6	-5,330.2	2,970.5	6,089.5	2.80
12,565.0	91.21	153.75	6,540.2	-5,411.0	3,010.2	6,179.5	0.66
12,655.0	91.38	153.15	6,538.1	-5,491.5	3,050.4	6,269.5	0.69
12,744.0	90.50	154.96	6,536.7	-5,571.5	3,089.3	6,358.5	2.26
12,834.0	89.03	154.60	6,537.0	-5,652.9	3,127.7	6,448.5	1.68
12,923.0	90.44	156.15	6,537.5	-5,733.8	3,164.7	6,537.5	2.35
13,013.0	89.50	153.78	6,537.5	-5,815.4	3,202.8	6,627.4	2.83
13,102.0	88.82	154.01	6,538.8	-5,895.3	3,242.0	6,716.4	0.81
13,191.0	89.09	153.19	6,540.4	-5,975.0	3,281.5	6,805.4	0.97
13,281.0	89.26	155.23	6,541.7	-6,056.0	3,320.7	6,895.4	2.27
13,370.0	90.91	154.44	6,541.6	-6,136.6	3,358.5	6,984.4	2.06
13,460.0	89.97	154.24	6,540.9	-6,217.7	3,397.5	7,074.4	1.07
13,549.0	90.97	155.16	6,540.2	-6,298.1	3,435.5	7,163.4	1.53
13,639.0	91.24	156.55	6,538.4	-6,380.2	3,472.4	7,253.3	1.57
13,728.0	89.73	153.61	6,537.7	-6,460.9	3,509.8	7,342.3	3.71
13,817.0	89.09	152.02	6,538.6	-6,540.1	3,550.5	7,431.3	1.93
13,907.0	91.01	151.90	6,538.5	-6,619.5	3,592.8	7,521.2	2.14
13,996.0	90.97	155.58	6,537.0	-6,699.3	3,632.2	7,610.1	4.13
14,086.0	92.21	155.63	6,534.5	-6,781.3	3,669.3	7,700.1	1.38
14,176.0	91.61	155.38	6,531.5	-6,863.1	3,706.6	7,790.0	0.72
14,265.0	92.99	155.87	6,527.9	-6,944.1	3,743.3	7,878.9	1.65
14,355.0	92.05	155.37	6,524.0	-7,026.0	3,780.4	7,968.8	1.18
14,444.0	90.50	153.82	6,522.0	-7,106.4	3,818.6	8,058.8	2.46
14,534.0	90.34	154.39	6,521.3	-7,187.3	3,857.9	8,147.8	0.66
14,623.0	91.31	153.48	6,520.0	-7,267.3	3,897.0	8,236.8	1.49
14,713.0	91.55	152.74	6,517.8	-7,347.5	3,937.7	8,326.7	0.86
14,803.0	90.97	155.05	6,515.8	-7,428.3	3,977.3	8,416.7	2.65

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JUL 20 2015

17.06622



EOW Completion Report



Company:	Antero	Local Co-ordinate Reference:	Well McGee Unit 2H
Project:	Doddridge County WV	TVD Reference:	Precision 523: GL 990' + KB 19' @ 1009.0usft
Site:	Robert Williams Pad: Leggett/ Pike Pad/James/M	MD Reference:	Precision 523: GL 990' + KB 19' @ 1009.0usft
Well:	McGee 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)
14,892.0	90.70	153.34	6,514.5	-7,508.4	4,016.0	8,505.7	1.94
14,982.0	91.08	155.64	6,513.1	-7,589.6	4,054.8	8,595.6	2.59
15,072.0	90.97	155.47	6,511.5	-7,671.5	4,092.0	8,685.6	0.22
15,174.0	90.30	154.75	6,510.4	-7,764.1	4,135.0	8,787.6	0.96
15,228.0	90.30	154.75	6,510.1	-7,812.9	4,158.0	8,841.6	0.00

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
6,423.0	6,324.3	-29.6	263.5	Middlesex
6,641.0	6,445.4	-104.8	426.2	Burkett
6,704.0	6,471.7	-143.0	468.7	Tully
6,785.0	6,498.8	-200.1	519.2	Marcellus

Checked By: _____ Approved By: _____ Date: _____

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	4/13/2015
Job End Date:	6/6/2015
State:	West Virginia
County:	Doddridge
API Number:	47-017-06622-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	McGee Unit 2H
Longitude:	-80.86265600
Latitude:	39.23765600
Datum:	NAD83
Federal/Tribal Well:	NO
True Vertical Depth:	6,542
Total Base Water Volume (gal):	11,705,877
Total Base Non Water Volume:	477,377



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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
Water	Antero Resources	Base Fluid					
			Water	7732-18-5	100.00000	91.33893	
Sand	U.S. Well Services, LLC	Proppant					
			Crystalline Silica, quartz	14808-60-7	100.00000	8.03111	
LGC-15	U.S. Well Services	Gelling Agents					
			Guar Gum	9000-30-0	50.00000	0.12507	
			Petroleum Distillates	64742-47-8	60.00000	0.11845	
			Suspending agent (solid)	14808-60-7	3.00000	0.01913	
			Surfactant	68439-51-0	3.00000	0.00750	
HCL Acid (12.6%-18.0%)	U.S. Well Services, LLC	Bulk Acid					
			Water	7732-18-5	87.50000	0.16711	
			Hydrogen Chloride	7647-01-0	18.00000	0.03992	
WFRA-405	U.S. Well Services	Friction Reducer					
			Water	7732-18-5	40.00000	0.03368	
			Anionic Polyacrylamide	Proprietary	40.00000	0.03368	
			Sodium Chloride	7647-14-5	20.00000	0.01684	
			Petroleum Distillates	64742-47-8	20.00000	0.01356	
			Ethoxylated alcohol blend	Proprietary	5.00000	0.00421	

17-06622

SI-1100	U.S. Well Services	Scale Inhibitor					
			DI Water	7732-18-5	80.00000	0.01061	Received Office of Oil & Gas JUL 20 2015
			Ethylene Glycol	107-21-1	40.00000	0.00599	
			Potassium salt of diethylene triamine penta (methylene phosphonic acid)	15827-60-8	10.00000	0.00179	
			2-Phosphonobutane 1,2,4 tricarboxylic salt	37971-36-1	10.00000	0.00171	
			hexamethylenediamine tetra (methylene phosphonic acid)	38820-59-6	10.00000	0.00166	
			Copolymer of Maleic and Acrylic acid	26677-99-6	10.00000	0.00156	
			bis (hexamethylene) tramine penta (methylene phosphonic acid) - phosphate acid	40623-75-4	10.00000	0.00152	
			Acrylic polymer	52255-49-9	5.00000	0.00066	
HCL Acid (2.5% to 4.9%)	U.S. Well Services	Bulk Acid					
			Water	7732-18-5	97.50000	0.01487	
			Hydrogen Chloride	7647-01-0	4.90000	0.00087	
K-BAC 1020	U.S. Well Services	Anti-Bacterial Agent					
			2,2-dibromo-3-nitripropionamide	10222-01-2	20.00000	0.00441	
			Deionized Water	7732-18-5	28.00000	0.00252	
AP One	U.S. Well Services	Gel Breakers					
			Ammonium Persulfate	7727-54-0	100.00000	0.00230	
AI-301	U.S. Well Services	Acid Corrosion Inhibitors					
			Diethylene Glycol	111-46-6	30.00000	0.00013	
			Methenamine	100-97-0	20.00000	0.00010	
			Hydrogen Chloride	7647-01-0	10.00000	0.00005	
			Polyethylene polyamine	58603-67-8	10.00000	0.00004	
			Coco amine	51791-14-8	5.00000	0.00002	
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)

17-06622-27990-11

WELL OPERATOR
 ANTERO RESOURCES CORP.
 1615 WYNKOP STREET
 DENVER, CO 80202

DESIGNATED AGENT
 DIANNA STAMPER
 CT CORPORATION SYSTEM
 5400 D BIG TYLER ROAD
 CHARLESTON, WV 25313

FORM WW-6

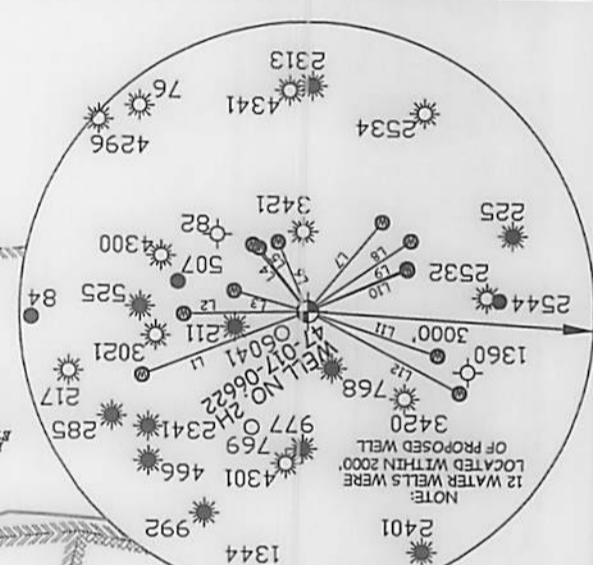
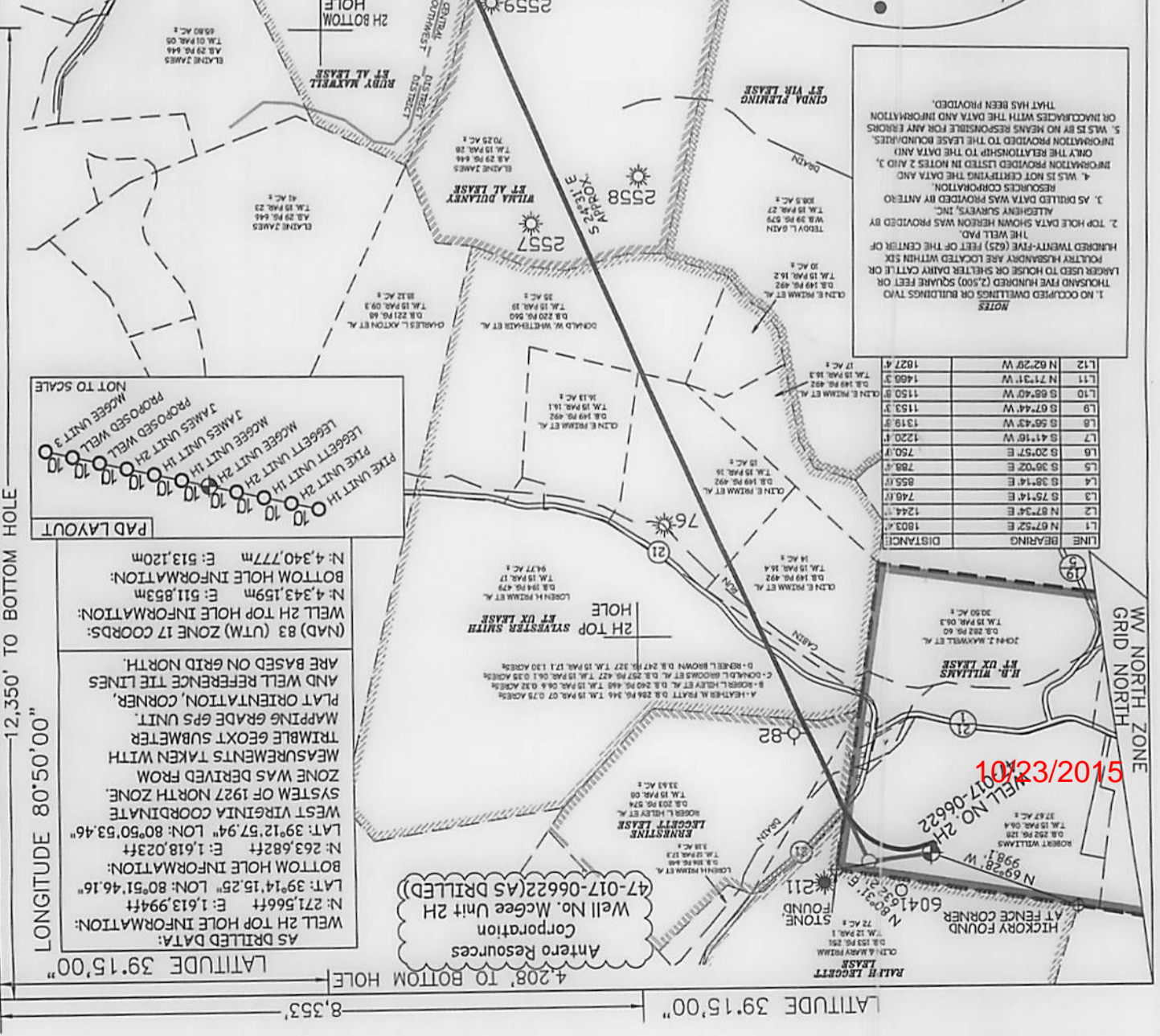
WELL # 14-075WA
 DRAWING # MCGEEHAD
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY SUBMETER
 PROVEN SOURCE OF ELEV. SUBMETER
 STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS



STATE OF WEST VIRGINIA DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
 WILLLOW LAND SURVEYING PLLC
 220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415

PERMIT COUNTY NAME PERMIT
 STATE COUNTY PERMIT
 WASTAGE DISPOSAL SHALLOW X DEEP
 WASTE DISPOSAL SHALLOW X DEEP
 WATERSHED NORTH FORK HUGHES RIVER DISTRICT CENTRAL COUNTY DODD BRIDGE
 SURFACE OWNER ROBERT WILLIAMS
 QUADRANGLE OXFORD 7.5
 LOCATION: ELEVATION 1,000 ORIGINAL - 990' AS-DRILLED
 (IF "GAS") PRODUCTION X STORAGE
 WELL TYPE: OIL GAS X
 LIQUID INJECTION
 OPERATOR'S WELL # MCGEE UNIT #2H
 DATE 04/22/15

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



NOTES
 1. NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FEET HORIZON ARE LOCATED WITHIN SIX LARGER USED TO HOLES OR 5000 SQUARE FEET OR MORE.
 2. TOP HOLE DATA SHOWN HEREON WAS PROVIDED BY ALLEGHENY SURVEYS, INC.
 3. AS DRILLED DATA WAS PROVIDED BY ANTERO RESOURCES CORPORATION.
 4. THIS IS NOT CERTIFYING THE DATA AND INFORMATION PROVIDED LISTED IN NOTES 2 AND 3.
 5. THIS IS NOT CERTIFYING THE DATA AND INFORMATION PROVIDED TO THE LEASE BOUNDARIES OR INACCURACIES WITH THE DATA AND INFORMATION THAT HAS BEEN PROVIDED.

LINE	BEARING	DISTANCE
L1	N 67°52' E	1803.4
L2	N 87°34' E	1244.4
L3	S 75°14' E	748.6
L4	S 38°14' E	855.6
L5	S 38°02' E	788.4
L6	S 20°57' E	750.1
L7	S 41°16' W	1220.1
L8	S 56°43' W	1319.5
L9	S 67°44' W	1153.3
L10	S 65°40' W	1150.9
L11	N 71°31' W	1468.3
L12	N 62°29' W	1827.4

PAD LAYOUT
 PROPOSED WELL MCGEE UNIT 3
 PROPOSED WELL MCGEE UNIT 2H
 PROPOSED WELL MCGEE UNIT 1H
 NOT TO SCALE

WELL 2H TOP HOLE INFORMATION:
 LAT: 39°14'15.25" N; LON: 80°51'46.16" W
 E: 1,613,994.44
 N: 271,566.67

WELL 2H TOP HOLE INFORMATION:
 LAT: 39°12'57.94" N; LON: 80°50'53.46" W
 E: 1,618,023.37
 N: 263,682.22

WELL 2H TOP HOLE INFORMATION:
 LAT: 39°14'15.25" N; LON: 80°51'46.16" W
 E: 1,613,994.44
 N: 271,566.67

WELL 2H TOP HOLE INFORMATION:
 LAT: 39°12'57.94" N; LON: 80°50'53.46" W
 E: 1,618,023.37
 N: 263,682.22

Antero Resources Corporation
 Well No. Mcgee Unit 2H
 47-017-06622 (AS DRILLED)

10/23/2015

LONGITUDE 80°50'00"
 4.528'
 12,350' TO BOTTOM HOLE
 LONGITUDE 80°50'00"
 4.208' TO BOTTOM HOLE
 8.353'