



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

Received
Office of Oil & Gas
MAY 18 2015

API 47-085-10019 County Ritchie District Union
Quad Pullman 7.5' Pad Name Yolanda Field/Pool Name ---
Farm name Williamson, Andrew, et al Well Number McCabe Unit 3H
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 4338479m Easting 509982m
Landing Point of Curve Northing 4338617.73m Easting 509701.85m
Bottom Hole Northing 4340396 Easting 508928m

Elevation (ft) 1144' 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 2/19/2013 Date drilling commenced 12/7/2013 Date drilling ceased 3/7/2014
Date completion activities began 3/27/2014 Date completion activities ceased 5/21/2014
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 112', 114' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 1987', 1989' 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:
A.L. 5/26/15
W.S. 6/5/15
06/05/2015

API 47-085 - 10019 Farm name Williamson, Andrew, et al Well number McCabe Unit 3H

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/ N) * Provide details below*
Conductor	24"	20"	40'	New	94# H-40	N/A	Y
Surface	12-1/4	13-3/8"	360'	New	48# H-40	N/A	Y
Coal							
Intermediate 1	8-3/4	9-5/8"	2531'	New	36# J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-1/2	5-1/2"	13841'	New	20# P-110	N/A	Y
Tubing		2-3/8"	6543'		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	127 sx	15.6	1.18	38	0'	8 Hrs.
Surface	Class A	418 sx	15.6	1.18	250	0'	8 Hrs.
Coal							
Intermediate 1	Class A	988 sx	15.6	1.18	793	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	874 sx lead 1178 sx tail	13.5 lead 15.2 tail	1.44 lead 1.8 tail	2623	~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 13841' MD, 6621' TVD (BHL); 6621' TVD (Deepest point drilled) Loggers TD (ft) 13796' MD
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 5918'

** This is a subsequent well. Antero only runs wireline logs on one well on a multi-well pad (Nicholson Unit 2H API# 47-085-09960). Please reference the wireline logs submitted with Form WR-35 for the Nicholson Unit 2H. 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

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

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WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED Chemical + Radioactive

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PERFORATION RECORD

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

Please insert additional pages as applicable.

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PRODUCING FORMATION(S)	DEPTHS	
Marcellus	6548' (TOP) TVD	7059' (TOP) MD

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Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 3000 psi Bottom Hole --- psi DURATION OF TEST --- hrs

OPEN FLOW Gas 8817 mcfpd Oil 54 bpd NGL --- bpd Water 305 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		
					SEE ATTACHED EXHIBIT 3

Please insert additional pages as applicable.

Drilling Contractor Patterson - UTI Drilling Company, LLC
Address 207 Carlton Dr. City Eighty Four State PA Zip 15330

Logging Company Rush Well Site Services
Address 600 Alpha drive City Canonsburg State PA Zip 15317

Cementing Company Allied Oil & Gas Services, LLC
Address 1036 East Main St. City Bridgeport State WV Zip 26330

Stimulating Company US Well Services
Address 533 Industrial Park Dr. City Jane Lew State WV Zip 26378

Please insert additional pages as applicable.

Completed by Kara Quackenbush Telephone 303-357-7233
Signature Kara Quackenbush Title Permit Representative Date 2/10/2015

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

API 47-085-10019 Farm Name Williamson, Andrew, et al Well Number McCabe Unit 3H

EXHIBIT 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	27-Mar-14	13,583	13,754	60	Marcellus
2	16-Apr-14	13,435	13,560	60	Marcellus
3	16-Apr-14	13,288	13,413	60	Marcellus
4	17-Apr-14	13,141	13,266	60	Marcellus
5	17-Apr-14	12,994	13,118	60	Marcellus
6	17-Apr-14	12,846	12,971	60	Marcellus
7	17-Apr-14	12,699	12,824	60	Marcellus
8	17-Apr-14	12,552	12,677	60	Marcellus
9	18-Apr-14	12,405	12,529	60	Marcellus
10	18-Apr-14	12,257	12,382	60	Marcellus
11	18-Apr-14	12,110	12,235	60	Marcellus
12	18-Apr-14	11,963	12,088	60	Marcellus
13	18-Apr-14	11,816	11,940	60	Marcellus
14	19-Apr-14	11,668	11,793	60	Marcellus
15	19-Apr-14	11,521	11,646	60	Marcellus
16	19-Apr-14	11,374	11,498	60	Marcellus
17	19-Apr-14	11,226	11,351	60	Marcellus
18	19-Apr-14	11,079	11,204	60	Marcellus
19	20-Apr-14	10,932	11,057	60	Marcellus
20	20-Apr-14	10,785	10,909	60	Marcellus
21	20-Apr-14	10,637	10,762	60	Marcellus
22	20-Apr-14	10,490	10,615	60	Marcellus
23	21-Apr-14	10,343	10,468	60	Marcellus
24	21-Apr-14	10,196	10,320	60	Marcellus
25	21-Apr-14	10,048	10,173	60	Marcellus
26	21-Apr-14	9,901	10,026	60	Marcellus
27	22-Apr-14	9,754	9,878	60	Marcellus
28	22-Apr-14	9,606	9,731	60	Marcellus
29	22-Apr-14	9,459	9,584	60	Marcellus
30	23-Apr-14	9,312	9,437	60	Marcellus
31	23-Apr-14	9,165	9,289	60	Marcellus
32	27-Apr-14	9,017	9,142	60	Marcellus
33	4-May-14	8,870	8,995	60	Marcellus
34	4-May-14	8,723	8,848	60	Marcellus
35	4-May-14	8,576	8,700	60	Marcellus
36	4-May-14	8,428	8,553	60	Marcellus
37	4-May-14	8,281	8,406	60	Marcellus
38	5-Jan-14	8,134	8,258	60	Marcellus
39	5-Jan-14	7,986	8,111	60	Marcellus
40	5-Jan-14	7,839	7,964	60	Marcellus
41	5-Jan-14	7,692	7,817	60	Marcellus
42	5-Jan-14	7,545	7,669	60	Marcellus
43	6-May-14	7,397	7,522	60	Marcellus
44	6-May-14	7,250	7,375	60	Marcellus
45	6-May-14	7,103	7,228	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	15-Apr-14	67.0	8,252	5,697	4,967	119,900	5,995	N/A
2	16-Apr-14	79.0	7,670	6,237	3,448	213,800	5,811	N/A
3	16-Apr-14	72.0	7,572	6,230	4,874	69,400	6,356	N/A
4	17-Apr-14	82.0	7,988	5,597	5,822	201,600	6,331	N/A
5	17-Apr-14	78.0	7,491	6,026	5,189	130,800	5,747	N/A
6	17-Apr-14	75.0	7,096	5,547	3,633	217,600	5,758	N/A
7	17-Apr-14	72.0	7,446	5,729	3,984	170,900	6,295	N/A
8	18-Apr-14	74.0	7,096	5,372	5,794	217,900	5,723	N/A
9	18-Apr-14	77.0	7,213	5,729	5,826	185,600	6,196	N/A
10	18-Apr-14	76.0	7,162	5,497	4,821	216,800	5,743	N/A
11	18-Apr-14	73.0	7,078	5,636	3,998	217,000	5,693	N/A
12	18-Apr-14	77.0	7,341	5,375	3,805	215,900	5,735	N/A
13	19-Apr-14	81.0	7,516	5,268	3,026	217,200	5,690	N/A
14	19-Apr-14	81.0	7,843	5,429	4,781	216,400	5,690	N/A
15	19-Apr-14	80.0	7,304	5,490	5,046	218,600	5,695	N/A
16	19-Apr-14	79.0	7,188	5,718	4,599	217,000	5,646	N/A
17	19-Apr-14	81.0	7,334	5,153	3,201	217,400	5,641	N/A
18	19-Apr-14	81.0	7,269	5,318	3,190	217,000	5,635	N/A
19	20-Apr-14	79.0	7,407	5,450	4,020	218,200	5,681	N/A
20	20-Apr-14	79.0	7,610	5,779	4,960	159,900	5,601	N/A
21	20-Apr-14	76.0	7,826	5,457	4,449	173,300	6,133	N/A
22	20-Apr-14	79.0	7,780	5,375	4,392	178,100	6,131	N/A
23	21-Apr-14	79.0	7,124	5,636	4,853	215,300	5,613	N/A
24	21-Apr-14	79.0	7,448	6,126	4,052	218,000	5,565	N/A
25	21-Apr-14	80.0	7,911	5,450	5,136	187,000	6,245	N/A
26	22-Apr-14	79.0	7,375	5,658	5,758	203,000	6,068	N/A
27	22-Apr-14	79.0	7,491	5,686	5,025	129,300	5,708	N/A
28	22-Apr-14	79.0	7,048	5,218	4,975	205,200	6,090	N/A
29	22-Apr-14	78.0	6,905	5,693	3,973	216,800	5,523	N/A
30	23-Apr-14	77.0	7,086	5,537	5,211	220,200	5,545	N/A
31	23-Apr-14	62.0	7,932	5,296	7,739	94,100	5,644	N/A
32	3-May-14	76.0	6,753	N/A	4,631	220,400	5,504	N/A
33	4-May-14	77.0	6,645	5,318	4,714	219,600	5,492	N/A
34	4-May-14	75.0	6,843	5,659	3,072	220,800	5,482	N/A
35	4-May-14	76.0	6,755	5,959	2,815	219,600	5,465	N/A
36	4-May-14	74.0	7,047	5,568	3,962	169,500	5,929	N/A
37	4-May-14	75.0	6,895	5,561	3,909	220,200	5,567	N/A
38	5-May-14	75.0	6,834	5,425	4,724	199,200	5,946	N/A
39	5-May-14	76.0	6,716	5,411	4,106	220,800	5,457	N/A
40	5-May-14	76.0	6,921	5,865	4,070	221,500	5,458	N/A
41	5-May-14	76.0	6,936	5,826	3,562	220,000	5,449	N/A
42	5-May-14	75.0	7,088	5,833	3,265	220,000	5,462	N/A
43	6-May-14	62.0	7,751	5,794	5,035	12,900	5,466	N/A
44	6-May-14	78.0	6,550	5,590	3,372	219,700	5,378	N/A
45	6-May-14	76.0	6,894	6,201	3,358	251,100	5,829	N/A
	AVG =	76.4	7,276	5,623	4,425	8,734,500	258,811	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	112'	N/A	112'	N/A
Fresh Water	114'	N/A	114'	N/A
Siltstone/Shale	0	216	0	216
Siltstone/Shale w/ trace coal	216	236	216	236
Siltstone/Shale	236	616	236	616
Siltstone and Coal	616	636	616	636
Siltstone/Limestone	636	856	636	856
Sandstone	856	876	856	876
Siltstone/Limestone	876	1116	876	1116
Sandstone and Coal	1116	1156	1116	1156
Siltstone/Shale	1156	1656	1156	1656
Sandstone	1656	1756	1656	1756
Siltstone/Shale w/ trace coal	1756	1776	1756	1776
Siltstone/Shale	1776	2016	1776	2016
Siltstone/Shale w/ trace coal	2016	2118	2016	2118
Big Lime	2118	2181	2118	2181
Big Injun	2181	2432	2181	2432
Gantz Sand	2432	2570	2432	2570
Fifty Foot Sandstone	2570	2688	2570	2688
Gordon	2688	3085	2688	3085
Fifth Sandstone	3085	3189	3085	3189
Bayard	3189	3521	3189	3521
Warren	3521	3954	3521	3954
Speechley	3954	4168	3954	4168
Baltown	4168	4637	4168	4637
Bradford	4637	5024	4637	5025
Benson	5024	5262	5025	5263
Alexander	5262	5470	5263	5470
Elk	5470	5875	5470	5876
Rhinestreet	5875	6214	5876	6234
Sycamore	6214	6386	6234	6500
Middlesex	6386	6,495	6500	6832
Burkett	6495	6527	6832	6952
Tully	6527	6548	6952	7059
Marcellus	6548	NA	7059	NA

*Please note Antero determines shallow formation tops based on mud and/or wireline logs that are only run on one well on a multi-well pad (Please reference Wireline Logs submitted for the Nicholson Unit 2H API# 47-085-09960). The measured depth (MD) data on subsequent wells may be slightly different due to the well's unique departure.

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	4/15/2014
Job End Date:	5/6/2014
State:	West Virginia
County:	Ritchie
API Number:	47-085-10019-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	McCabe Unit 3H
Longitude:	-80.88458100
Latitude:	39.19542800
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	6,621
Total Base Water Volume (gal):	10,870,062
Total Base Non Water Volume:	445,910



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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	90.88872	
Sand	J.S. Well Services, LLC	Proppant	Crystalline Silica, quartz	14808-60-7	100.00000	8.75689	
LGC-15	J.S. Well Services, LLC	Gelling Agents	Guar Gum	9000-30-0	50.00000	0.06463	
			Petroleum Distillates	64742-47-8	60.00000	0.06121	
			Suspending agent (solid)	14808-60-7	3.00000	0.00989	
			Surfactant	68439-51-0	3.00000	0.00388	
HCL Acid (12.6%-18.0%)	J.S. Well Services, LLC	Bulk Acid	Water	7732-18-5	87.50000	0.09684	
			Hydrogen Chloride	7641-01-1	18.00000	0.02313	
WFRA-405	J.S. Well Services, LLC	Friction Reducer	Anionic Polyacrylamide	Proprietary		0.02411	
			Water	7732-18-5	40.00000	0.02411	
			Petroleum Distillates	64742-47-8	22.00000	0.01941	
			Ethoxylated alcohol blend	Proprietary	5.00000	0.00301	

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SI-1000	J.S. Well Services, LLC	Scale Inhibitor	Crystalline Salt	12125-02-9	5.00000	0.00301
			Anionic Copolymer	Proprietary		0.00423
			Ethylene Glycol	107-21-1	20.00000	0.00383
			Water	7732-18-5	30.00000	0.00319
X-BAC 1020	J.S. Well Services, LLC	Anti-Bacterial Agent				
			2,2-dibromo-3-nitropropanamide	10222-01-2	20.00000	0.00462
			Deionized Water	7732-18-5	28.00000	0.00264
AP One	J.S. Well Services, LLC	Gel Breakers				
			Ammonium Persulfate	7727-54-0	100.00000	0.00205
AI-300	J.S. Well Services, LLC	Acid Corrosion Inhibitors				
			Ethylene Glycol	107-21-1	31.00000	0.00025
			N,N-Dimethylformamide	68-12-2	15.00000	0.00008
			Tar bases, quinoline derivs, benzyl chloride-quaternized	72480-70-7	13.00000	0.00007
			Cinnamaldehyde	104-55-2	5.00000	0.00007
			2-Butoxyethanol	111-76-2	7.00000	0.00006
			Ethoxylated Nonylphenol	68412-54-4	5.00000	0.00002
			Water	7732-18-5	20.00000	0.00002
			Triethyl Phosphate	78-40-0	3.00000	0.00001
			Isopropyl Alcohol	67-63-0	3.00000	0.00001

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.

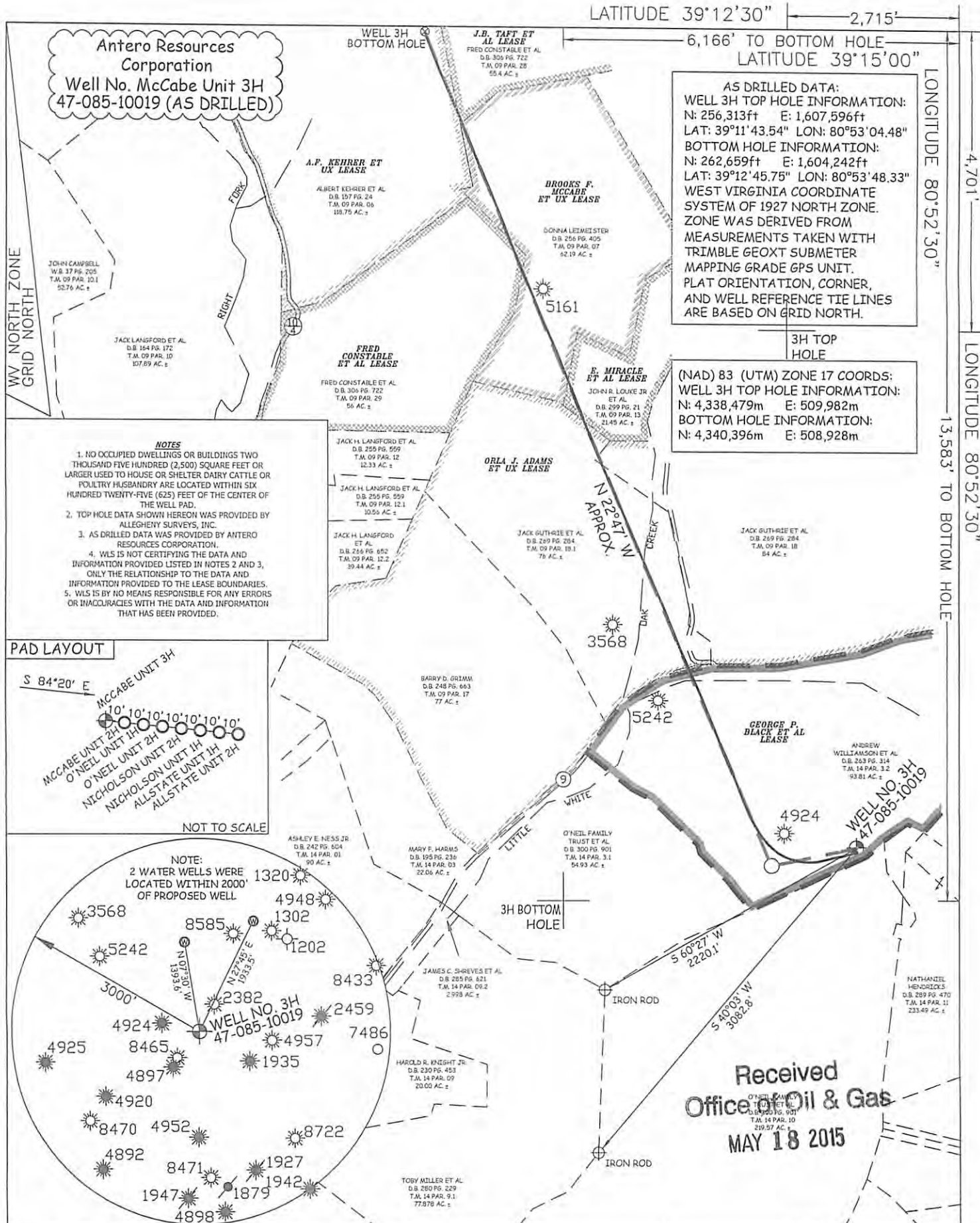
* Total Water Volume sources may include fresh water, produced water, and/or recycled water

** 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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JOB # <u>12-074WA</u> DRAWING # <u>MCCABE3HAD</u> SCALE <u>1" = 1000'</u> MINIMUM DEGREE OF ACCURACY <u>SUBMETER</u> PROVEN SOURCE OF ELEV. <u>SUBMETER MAPPING GRADE GPS</u>		 STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WILLOW LAND SURVEYING PLLC 220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415	LEGEND - - - Surface Owner Boundary Lines +/- - - - Interior Surface Tracts +/- X Existing Fence ⊕ Found monument, as noted ○ Proposed Well Path ⊗ As Drilled Well Path
STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS WELL TYPE: OIL <u> </u> GAS <u>X</u> LIQUID INJECTION <u> </u> WASTE DISPOSAL <u> </u> (IF "GAS") PRODUCTION <u>X</u> STORAGE <u> </u> DEEP <u> </u> SHALLOW <u>X</u> LOCATION: ELEVATION <u>1,153'</u> ORIGINAL - 1,144' AS-DRILLED <u> </u> WATERSHED <u>SOUTH FORK HUGHES RIVER</u> QUADRANGLE <u>PULLMAN 7.5'</u> DISTRICT <u>UNION</u> COUNTY <u>RITCHIE</u>			DATE <u>04/14/15</u> OPERATOR'S WELL# <u>MCCABE UNIT #3H</u> API WELL # <u>47 - 085 - 10019</u> STATE COUNTY PERMIT <u>06/05/2015</u>
SURFACE OWNER <u>ANDREW WILLIAMSON ET AL</u> ACREAGE <u>93.81 ACRES +/-</u> OIL & GAS ROYALTY OWNER <u>GEORGE P. BLACK ET AL; ORLA J. ADAMS ET UX; E. MIRACLE ET AL; BROOKS F. MCCABE ET UX; FRED CONSTABLE ET AL; J.B. TAFT ET AL; A.F. KEHRER ET UX</u> LEASE ACREAGE <u>93 ACRES±; 314 ACRES±; 21.45 ACRES±; 63 ACRES±; 56 ACRES±; 57 ACRES±; 118.75 ACRES±</u>		DESIGNATED AGENT <u>DIANNA STAMPER</u> ADDRESS <u>5400 D BIG TYLER ROAD</u> CHARLESTON, WV 25313	
PROPOSED WORK: DRILL <u> </u> CONVERT <u> </u> DRILL DEEPER <u> </u> REDRILL <u> </u> FRACTURE OR STIMULATE <u> </u> PLUG OFF OLD FORMATION <u> </u> PERFORATE NEW FORMATION <u> </u> OTHER PHYSICAL CHANGE IN WELL (SPECIFY) <u>(X) AS DRILLED</u> PLUG & ABANDON <u> </u> CLEAN OUT & REPLUG <u> </u> TARGET FORMATION <u>MARCELLUS</u> ESTIMATED DEPTH <u>6,621' TVD 13,841' MD</u>		WELL OPERATOR <u>ANTERO RESOURCES CORP.</u> ADDRESS <u>1615 WYNKOOP STREET</u> DENVER, CO 80202	