



Antero Resources  
1615 Wynkoop Street  
Denver, CO 80202  
Office 303.357.7310  
Fax 303.357.7315

February 28, 2019

West Virginia Department of Environmental Protection  
Office of Oil and Gas  
Attn: Completions  
601 57<sup>th</sup> Street  
Charleston, WV 25304

To Whom It May Concern:

Please find enclosed the Well Operator's Report of Well Work, Form WR-35 (including As-Drilled Survey Plat and Directional Survey), Form WR-34 (Discharge Monitoring Report), & Frac Focus reports for completions on the following wells:

- Dean Unit 1H (API # 47-095-02346)—Weigle East Pad
- Dean Unit 2H (API # 47-095-02347)—Weigle East Pad
- Goodfellow Unit 1H (API # 47-095-02324)—Weigle East Pad
- Goodfellow Unit 2H (API # 47-095-02325)—Weigle East Pad
- Owens Unit 3H (API # 47-095-02326)—Weigle East Pad

If you have any questions, please feel free to contact me at (303) 357-7223.

Sincerely,

A handwritten signature in black ink, appearing to read "Megan Griffith", written over a white background.

Megan Griffith  
Permitting Agent  
Antero Resources Corporation

Enclosures

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

API 47 - 095 - 02324 County Tyler District Ellsworth  
Quad Shirley 7.5' Pad Name Weigle East Pad Field/Pool Name -----  
Farm name Edwin C. Weigle Well Number Goodfellow Unit 1H  
Operator (as registered with the OOG) Antero Resources Corporation  
Address 1615 Wynkoop Street City Denver State CO Zip 80202

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey  
Top hole Northing 4368546m Easting 512670m  
Landing Point of Curve Northing 4368642.85m Easting 512390.24m  
Bottom Hole Northing 4371062m Easting 511539m

Elevation (ft) 812' 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 4/28/2016 Date drilling commenced 6/20/2016 Date drilling ceased 8/16/2016  
Date completion activities began 5/13/2018 Date completion activities ceased 9/3/2018  
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 194' Open mine(s) (Y/N) depths No  
Salt water depth(s) ft 1027' 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:

API 47-095 - 02324 Farm name Edwin C. Weigle Well number Goodfellow Unit 1H

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	24"	20"	79'	New	94#, H-40	N/A	Y
Surface	17-1/2"	13-3/8"	498'	New	48#, H-40	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2441'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	15360'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	6520'		4.7#, P-110		
Packer type and depth set		N/A					

Comment Details \_\_\_\_\_

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	Class A	102 sx	15.6	1.18	120	0'	8 Hrs.
Surface	Class A	600 sx	15.6	1.18	826	0'	8 Hrs.
Coal							
Intermediate 1	Class A	971 sx	15.6	1.18	1181	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	684 sx (Lead) 131 sx (Tail)	13.5 (Lead), 15.2 (Tail)	1.53 (Lead), 1.83 (Tail)	3774	~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 15360' MD, 6300' TVD (BHL), 6322' (Deepest Point Drilled) Loggers TD (ft) 15360' MD

Deepest formation penetrated Marcellus Plug back to (ft) N/A

Plug back procedure N/A

Kick off depth (ft) 5950'

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 \_\_\_\_\_

WAS WELL COMPLETED OPEN HOLE?  Yes  No DETAILS \_\_\_\_\_

WERE TRACERS USED  Yes  No TYPE OF TRACER(S) USED N/A

API 47-095 - 02324 Farm name Edwin C. Weigle Well number Goodfellow Unit 1H

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
<b>*PLEASE SEE ATTACHED EXHIBIT 1</b>					

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)
<b>*PLEASE SEE ATTACHED EXHIBIT 2</b>								

Please insert additional pages as applicable.

API 47- 095 - 02324 Farm name Edwin C. Weigle Well number Goodfellow Unit 1H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
<u>Marcellus</u>	<u>6296' (TOP)</u>	<u>TVD</u>	<u>6583' (TOP)</u> <u>MD</u>
_____	_____	_____	_____
_____	_____	_____	_____

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface 2800 psi Bottom Hole --- psi DURATION OF TEST --- hrs

OPEN FLOW Gas 6367 mcfpd Oil 289 bpd NGL --- bpd Water --- bpd GAS MEASURED BY  Estimated  Orifice  Pilot

<u>LITHOLOGY/ FORMATION</u>	<u>TOP</u>		<u>BOTTOM</u>		<u>DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H<sub>2</sub>S, ETC)</u>
	<u>DEPTH IN FT NAME TVD</u>	<u>DEPTH IN FT TVD</u>	<u>DEPTH IN FT MD</u>	<u>DEPTH IN FT MD</u>	

**\*PLEASE SEE ATTACHED EXHIBIT 3**


Please insert additional pages as applicable.

Drilling Contractor Precision Drilling Company, LP  
Address 2640 Reach Road City Williamsport State PA Zip 17701

Logging Company Allied Horizontal Wireline Service  
Address 381 Colonial Manor Road City North Huntington State PA Zip 15642

Cementing Company C&J Energy Services  
Address 1650 Hackers Creek City Jane Lew State WV Zip 26378

Stimulating Company Baker Hughes  
Address 837 Philippi Pike City Clarksburg State WV Zip 26301

Please insert additional pages as applicable.

Completed by Megan Griffith Telephone 303-357-7223  
Signature \_\_\_\_\_ Title Permitting Agent Date \_\_\_\_\_

API 47-095-02324 Farm Name Edwin C. Weigle Well Number Goodfellow Unit 1H

**EXHIBIT 1**

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	6/20/2018	15087	15259	60	Marcellus
2	6/21/2018	14885	15056	60	Marcellus
3	6/21/2018	14683	14854	60	Marcellus
4	6/22/2018	14481	14652	60	Marcellus
5	6/23/2018	14279	14450	60	Marcellus
6	6/23/2018	14077	14248	60	Marcellus
7	6/23/2018	13875	14046	60	Marcellus
8	6/23/2018	13673	13844	60	Marcellus
9	6/24/2018	13471	13642	60	Marcellus
10	6/24/2018	13269	13440	60	Marcellus
11	6/24/2018	13067	13238	60	Marcellus
12	6/24/2018	12865	13035	60	Marcellus
13	6/25/2018	12663	12833	60	Marcellus
14	6/25/2018	12461	12631	60	Marcellus
15	6/25/2018	12259	12429	60	Marcellus
16	6/26/2018	12057	12227	60	Marcellus
17	6/26/2018	11855	12025	60	Marcellus
18	6/26/2018	11653	11823	60	Marcellus
19	6/26/2018	11451	11621	60	Marcellus
20	6/27/2018	11249	11419	60	Marcellus
21	6/27/2018	11047	11217	60	Marcellus
22	6/27/2018	10845	11015	60	Marcellus
23	6/28/2018	10643	10813	60	Marcellus
24	6/28/2018	10441	10611	60	Marcellus
25	6/28/2018	10239	10409	60	Marcellus
26	6/28/2018	10037	10207	60	Marcellus
27	6/29/2018	9835	10005	60	Marcellus
28	6/29/2018	9633	9803	60	Marcellus
29	6/29/2018	9431	9601	60	Marcellus
30	6/30/2018	9229	9399	60	Marcellus
31	6/30/2018	9027	9197	60	Marcellus
32	6/30/2018	8825	8995	60	Marcellus
33	6/30/2018	8623	8793	60	Marcellus
34	7/1/2018	8421	8591	60	Marcellus
35	7/2/2018	8219	8389	60	Marcellus
36	7/2/2018	8017	8187	60	Marcellus
37	7/3/2018	7815	7985	60	Marcellus
38	7/3/2018	7613	7783	60	Marcellus
39	7/3/2018	7411	7581	60	Marcellus
40	7/4/2018	7209	7379	60	Marcellus
41	7/4/2018	7007	7177	60	Marcellus
42	7/4/2018	6805	6975	60	Marcellus
43	7/4/2018	6603	6773	60	Marcellus

**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	6/20/2018	72.4	7259	5556	4627	17442	9799	N/A
2	6/21/2018	77.7	7199	7451	4440	19090	10535	N/A
3	6/21/2018	79.1	7317	5686	4512	17515	8209	N/A
4	6/22/2018	76.6	7377	5263	5000	17640	12408	N/A
5	6/23/2018	79.5	7177	5261	4523	16961	8225	N/A
6	6/23/2018	78.1	7168	4821	4502	16491	8166	N/A
7	6/23/2018	73	7511	6440	4417	18368	10051	N/A
8	6/23/2018	80.3	7186	6122	4521	17829	7962	N/A
9	6/24/2018	80.3	7082	6026	4695	17803	8010	N/A
10	6/24/2018	78.1	7082	5785	4812	17679	8120	N/A
11	6/24/2018	76.9	7162	5766	4409	17337	9549	N/A
12	6/24/2018	79.3	7311	5761	4160	17232	7997	N/A
13	6/25/2018	76.7	6859	5677	4341	16877	7977	N/A
14	6/25/2018	75.8	6872	5928	4330	17130	8225	N/A
15	6/25/2018	80.5	7139	5895	3922	16956	8084	N/A
16	6/26/2018	81.3	7089	6267	4159	17515	7867	N/A
17	6/26/2018	79.1	6995	6344	4254	17593	8644	N/A
18	6/26/2018	79	6864	5862	4286	17012	8097	N/A
19	6/26/2018	79.3	7025	6045	4453	17523	7829	N/A
20	6/27/2018	79.6	6991	6176	4291	17458	7954	N/A
21	6/27/2018	76.7	6796	6036	4415	17247	8021	N/A
22	6/27/2018	77.2	6976	6098	3845	16919	8894	N/A
23	6/28/2018	80.7	6932	5987	4122	17041	7898	N/A
24	6/28/2018	79	6707	6061	4444	17212	8022	N/A
25	6/28/2018	79.3	6566	5937	4546	17049	7955	N/A
26	6/28/2018	78.8	6763	6037	4294	17094	7974	N/A
27	6/29/2018	79.2	6798	5924	4089	16811	7897	N/A
28	6/29/2018	76	6358	5958	4395	16711	7999	N/A
29	6/29/2018	76.9	6634	5278	4012	15924	7748	N/A
30	6/30/2018	78	6970	5990	4051	17011	9323	N/A
31	6/30/2018	75.2	6597	5537	5013	17147	9166	N/A
32	6/30/2018	79.3	6423	6227	4490	17140	8148	N/A
33	6/30/2018	78.6	6679	6353	4119	17151	7896	N/A
34	7/1/2018	72.2	7171	6213	4560	17944	10904	N/A
35	7/2/2018	77.8	6608	5959	4391	16958	8427	N/A
36	7/2/2018	80.1	6535	5280	4049	15864	7848	N/A
37	7/3/2018	79.6	6583	5605	4121	16309	7844	N/A
38	7/3/2018	75.4	6449	5128	4384	15961	8782	N/A
39	7/3/2018	76.6	6300	5724	4371	16395	8565	N/A
40	7/4/2018	76.4	6371	5915	4906	17192	11312	N/A
41	7/4/2018	76	6298	5862	5000	17160	9916	N/A
42	7/4/2018	76.7	6479	5802	4142	16423	8060	N/A
43	7/4/2018	79.4	6331	5715	4022	16068	7841	N/A
	AVG=	<b>77.9</b>	<b>6,860</b>	<b>5,878</b>	<b>4,382</b>	<b>736,182</b>	<b>370,148</b>	TOTAL

**EXHIBIT 3**

LITHOLOGY/ FORMATION	TOP DEPTH (TVD)	BOTTOM DEPTH (TVD)	TOP DEPTH (MD)	BOTTOM DEPTH (MD)
	From Surface	From Surface	From Surface	From Surface
Siltstone	0	221	0	221
Siltstone & Coal	221	269	221	269
Siltstone	269	405	269	405
Sandstone	405	536	405	536
Shale w/trace Coal	536	561	536	561
Shale w/trace Coal	561	761	561	761
Siltstone	761	801	761	801
Shale w/trace Coal	801	941	801	941
Siltstone	941	1,133	941	1,133
Sandstone	1,133	1,195	1,133	1,195
Siltstone	1,195	1,231	1,195	1,231
Sandstone	1,231	1,311	1,231	1,311
Siltstone	1,311	1,971	1,311	1,673
Big Lime	1,971	1,805	1,673	1,807
Big Injun	1,805	2,289	1,807	2,290
Gantz Sand	2,289	2,432	2,290	2,434
Fifty Food Sandstone	2,432	2,541	2,434	2,543
Gordon	2,541	2,863	2,543	2,865
Fifth Sandstone	2,863	2,907	2,865	2,909
Bayard	2,907	3,318	2,909	3,325
Warren	3,318	3,715	3,325	3,731
Speechley	3,715	4,005	3,731	4,027
Balltown	4,005	4,422	4,027	4,454
Bradford	4,422	4,825	4,454	4,869
Benson	4,825	5,040	4,869	5,091
Alexander	5,040	5,221	5,091	5,275
Elk	5,221	5,557	5,275	5,620
Rhinestreet	5,557	5,942	5,620	6,022
Sycamore	5,942	6,116	6,022	6,237
Middlesex	6,116	6,209	6,237	6,388
Burkett	6,209	6,235	6,388	6,442
Tully	6,235	6,277	6,442	6,564
Marcellus	6,277	NA	6,564	NA

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



# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	6/20/2018
Job End Date:	7/4/2018
State:	West Virginia
County:	Tyler
API Number:	47-095-02324-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Goodfellow 1H
Latitude:	39.46632500
Longitude:	-80.85287800
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,407
Total Base Water Volume (gal):	16,102,506
Total Base Non Water Volume:	0



## Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	Supplied by Operator	Base Fluid	Water	7732-18-5	70.00000	88.18215	
DAP-902	CWS	Scale Inhibitor					
				Listed Below			



				Listed Below			
Items above are Trade Names with the exception of Base Water. Items below are the individual ingredients.							
				Crystalline silica (Quartz)	14808-60-7	100.00000	11.47243
				Calcite	471-34-1	1.00000	0.07633
				Hydrochloric acid	7647-01-0	37.00000	0.05444
				Illite	12173-60-3	1.00000	0.03837
				Distillates (petroleum), hydrotreated middle	64742-46-7	60.00000	0.02853
				Guar gum	9000-30-0	60.00000	0.02853
				Polymer	26100-47-0	45.00000	0.02416
				Distillates (petroleum), hydrotreated light	64742-47-8	30.00000	0.01611
				Goethite	1310-14-1	0.10000	0.01147
				Apatite	64476-38-6	0.10000	0.01147
				Biotite	1302-27-8	0.10000	0.01147
				Ammonium Persulfate	64742-47-8	100.00000	0.00728
				Polyethylene glycol mixture	25322-68-3	54.50000	0.00615
				2-Propenoic acid, homopolymer, sodium salt	9003-04-7	40.00000	0.00602
				Ammonium chloride	12125-02-9	11.00000	0.00591
				Ilmenite	98072-94-7	0.10000	0.00384
				Quaternary ammonium compounds, bis (hydrogenated tallow alkyl)dimethyl, salts with bentonite	68953-58-2	5.00000	0.00238
				2,2-Dibromo-3-Nitropropionamide	10222-01-2	20.00000	0.00226
				Sorbitan monooleate	1338-43-8	4.00000	0.00215
				Polyethylene glycol monooleate	9004-96-0	3.00000	0.00161
				1,2-Propanediol	57-55-6	10.00000	0.00150

					69418-26-4	20.00000	0.00146	
				Vinylidene chloride-methyl acrylate copolymer				
				Sorbitol tetraoleate	61723-83-9	2.00000	0.00107	
				Oxirane, 2-methyl-, polymer with oxirane, monodecyl ether	37251-67-5	1.50000	0.00071	
				Amines, tallow alkyl, ethoxylated	61791-26-2	1.00000	0.00054	
				Citric acid	77-92-9	60.00000	0.00049	
				Sodium bromide	7647-15-6	4.00000	0.00045	
				Dibromoacetonitrile	3252-43-5	3.00000	0.00034	
				Alkoxypolyethyleneoxy ethanol	84133-50-6	0.50000	0.00027	
				Acrylamide	79-06-1	0.10000	0.00005	
				Ethylene glycol	107-21-1	40.00000	0.00003	
				Diethylene glycol (mono) methyl ether	34590-94-8	20.00000	0.00002	
				Cinnamaldehyde	104-55-2	10.00000	0.00001	
				Tar bases, quinolone derivs, benzyl chloride- quatenized	72480-70-7	10.00000	0.00001	
				Ethoxylated alcohols	Proprietary	10.00000	0.00001	Proprietary CAS
				Tar bases, quinolone derivs	68513-87-1	1.00000	0.00001	
				Isopropanol	67-63-0	5.00000	0.00001	
				Formic Acid	64-18-6	10.00000	0.00001	
				Diethylene glycol	111-46-6	1.00000	0.00001	

\* Total Water Volume sources may include various types of water including fresh water, produced water, and recycled water

\*\* Information is based on the maximum potential for concentration and thus the total may be over 100%

\*\*\* If you are calculating a percentage of total ingredients do not add the water volume below the green line to the water volume above the green line

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

LATITUDE 39°30'00"

5,518'

9,190' TO BOTTOM HOLE

LATITUDE 39°30'00"

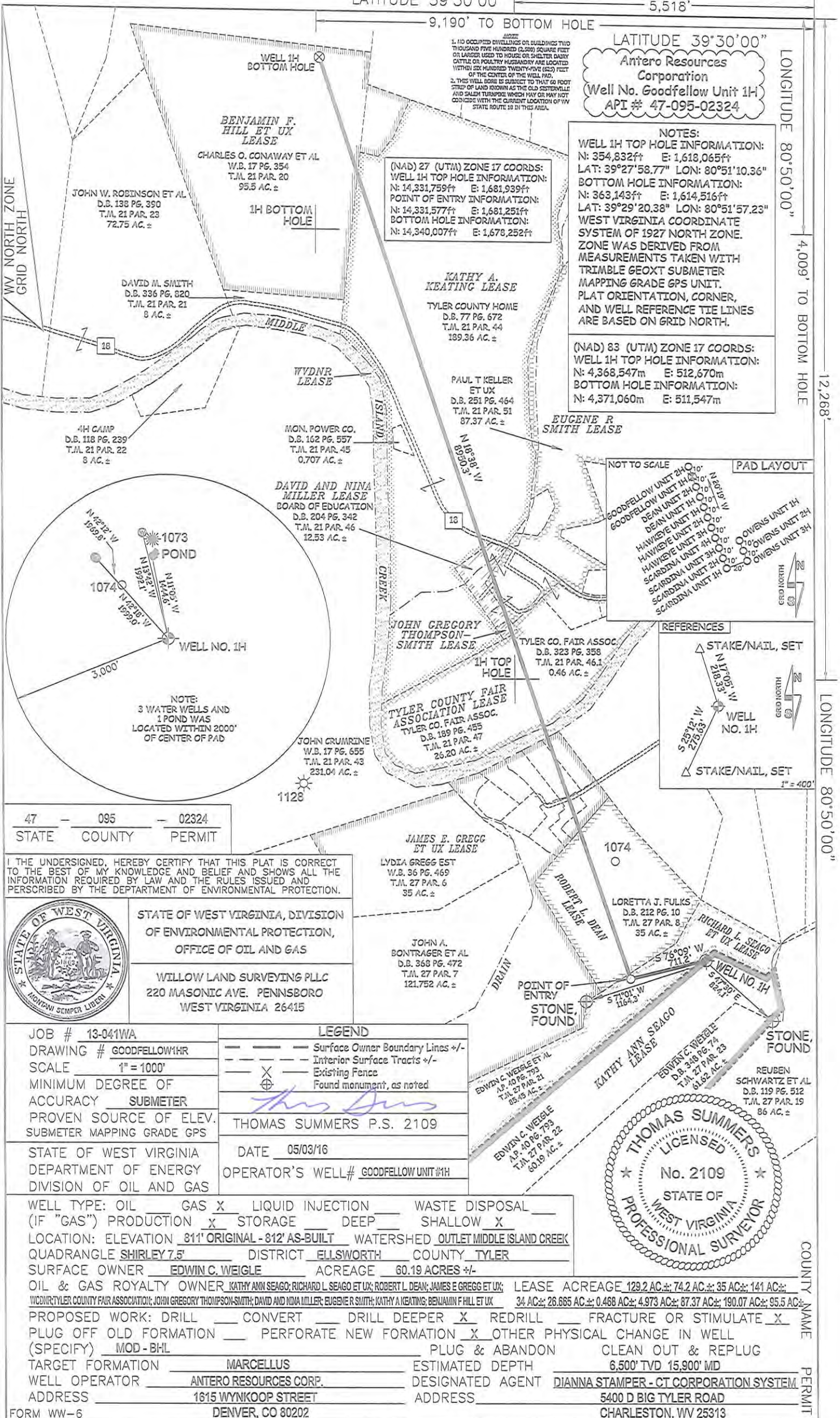
Antero Resources Corporation  
Well No. Goodfellow Unit 1H  
API # 47-095-02324

LONGITUDE 80°50'00"

4,009' TO BOTTOM HOLE

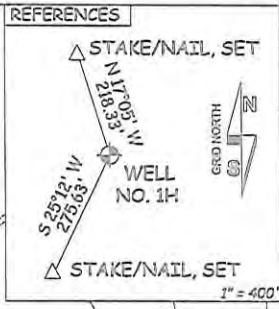
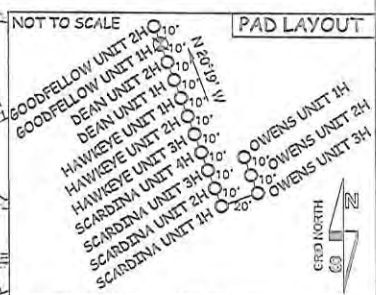
12,268'

LONGITUDE 80°50'00"



**NOTES:**  
 WELL 1H TOP HOLE INFORMATION:  
 N: 354,832ft E: 1,618,065ft  
 LAT: 39°27'58.77" LON: 80°51'10.36"  
 BOTTOM HOLE INFORMATION:  
 N: 363,143ft E: 1,614,516ft  
 LAT: 39°29'20.38" LON: 80°51'57.23"  
 WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE. ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE GEOXT SUBMETER MAPPING GRADE GPS UNIT. PLAT ORIENTATION, CORNER, AND WELL REFERENCE TIE LINES ARE BASED ON GRID NORTH.

(NAD) 83 (UTM) ZONE 17 COORDS:  
 WELL 1H TOP HOLE INFORMATION:  
 N: 4,368,547m E: 512,670m  
 BOTTOM HOLE INFORMATION:  
 N: 4,371,060m E: 511,547m



47 - 095 - 02324  
 STATE COUNTY PERMIT

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE RULES ISSUED AND PERSCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

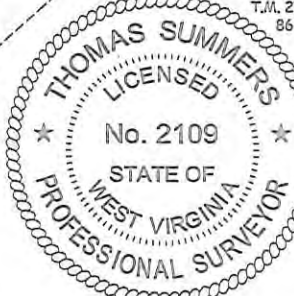


STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
 WILLOW LAND SURVEYING PLLC  
 220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415

JOB # 13-041WA  
 DRAWING # GOODFELLOW1HR  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY SUBMETER  
 PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS  
 STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS

**LEGEND**  
 - - - Surface Owner Boundary Lines +/-  
 - - - Interior Surface Tracts +/-  
 X Existing Fence  
 ⊕ Found monument, as noted

THOMAS SUMMERS P.S. 2109  
 DATE 05/03/16  
 OPERATOR'S WELL# GOODFELLOW UNIT #1H



WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
 LOCATION: ELEVATION 811' ORIGINAL - 812' AS-BUILT WATERSHED OUTLET MIDDLE ISLAND CREEK  
 QUADRANGLE SHIRLEY 7.5' DISTRICT ELLSWORTH COUNTY TYLER  
 SURFACE OWNER EDWIN C. WEIGLE ACREAGE 60.19 ACRES +/-  
 OIL & GAS ROYALTY OWNER KATHY ANN SEAGO; RICHARD L. SEAGO ET UX; ROBERT L. DEAN; JAMES E. GREGG ET UX;  
 WCDNR; TYLER COUNTY FAIR ASSOCIATION; JOHN GREGORY THOMPSON-SMITH; DAVID AND NINA MILLER; EUGENE R. SMITH; KATHY A. KEATING; BENJAMIN F. HILL ET UX  
 PROPOSED WORK: DRILL \_\_\_ CONVERT \_\_\_ DRILL DEEPER X REDRILL \_\_\_ FRACTURE OR STIMULATE X  
 PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION X OTHER PHYSICAL CHANGE IN WELL  
 (SPECIFY) MOD - BHL PLUG & ABANDON CLEAN OUT & REPLUG  
 TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,500' TVD 15,900' MD  
 WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM  
 ADDRESS 1615 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD  
 DENVER, CO 80202 CHARLESTON, WV 25313