

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

API 47 - 095 - 02325 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 2H  
Operator (as registered with the OOG) Antero Resources Corporation  
Address 1615 Wynkoop Street City Denver State CO Zip 80202

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey  
Top hole Northing 4368549m Easting 512669m  
Landing Point of Curve Northing 4368744.15m Easting 512349.79m  
Bottom Hole Northing 4370933m Easting 511818m

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 1/14/2016 Date drilling commenced 6/20/2016 Date drilling ceased 9/5/2016  
Date completion activities began 5/11/2018 Date completion activities ceased 8/20/2018  
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 - 02325 Farm name Edwin C. Weigle Well number Goodfellow Unit 2H

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"	501'	New	48#, H-40	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2502'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	14403'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	6428'		4.7#, N-80		
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	691 sx	15.6	1.18	826	0'	8 Hrs.
Coal							
Intermediate 1	Class A	974 sx	15.6	1.18	1181	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	690 sx (Lead) 1150 sx (Tail)	13.5 (Lead), 15.2 (Tail)	1.62 (Lead), 1.83 (Tail)	3774	~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 14407' MD, 6303' TVD (BHL), 6329' (Deepest Point Drilled)      Loggers TD (ft) 14407' MD

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

Plug back procedure N/A

Kick off depth (ft) 5681'

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 - 02325 Farm name Edwin C. Weigle Well number Goodfellow Unit 2H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>Marcellus</u>	<u>6304' (TOP)</u> TVD	<u>6477' (TOP)</u> MD
_____	_____	_____
_____	_____	_____
_____	_____	_____

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 6899 mcfpd Oil 143 bpd NGL --- bpd Water 366 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 <sub>2</sub> S, ETC)
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**\*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 47-095-02325 Farm Name Edwin C. Weigle Well Number Goodfellow Unit 2H

**EXHIBIT 1**

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	6/21/2018	14131	14302	60	Marcellus
2	6/21/2018	13930	14100	60	Marcellus
3	6/21/2018	13729	13899	60	Marcellus
4	6/22/2018	13528	13698	60	Marcellus
5	6/23/2018	13328	13497	60	Marcellus
6	6/23/2018	13127	13296	60	Marcellus
7	6/23/2018	12926	13095	60	Marcellus
8	6/24/2018	12725	12894	60	Marcellus
9	6/24/2018	12524	12693	60	Marcellus
10	6/24/2018	12323	12493	60	Marcellus
11	6/24/2018	12122	12292	60	Marcellus
12	6/25/2018	11921	12091	60	Marcellus
13	6/25/2018	11720	11890	60	Marcellus
14	6/25/2018	11520	11689	60	Marcellus
15	6/25/2018	11319	11488	60	Marcellus
16	6/26/2018	11118	11287	60	Marcellus
17	6/26/2018	10917	11086	60	Marcellus
18	6/26/2018	10716	10885	60	Marcellus
19	6/27/2018	10515	10685	60	Marcellus
20	6/27/2018	10314	10484	60	Marcellus
21	6/27/2018	10113	10283	60	Marcellus
22	6/27/2018	9912	10082	60	Marcellus
23	6/28/2018	9712	9881	60	Marcellus
24	6/28/2018	9511	9680	60	Marcellus
25	6/28/2018	9310	9479	60	Marcellus
26	6/29/2018	9109	9278	60	Marcellus
27	6/29/2018	8908	9077	60	Marcellus
28	6/29/2018	8707	8877	60	Marcellus
29	6/29/2018	8506	8676	60	Marcellus
30	6/30/2018	8305	8475	60	Marcellus
31	6/30/2018	8105	8274	60	Marcellus
32	6/30/2018	7904	8073	60	Marcellus
33	6/30/2018	7703	7872	60	Marcellus
34	7/1/2018	7502	7671	60	Marcellus
35	7/2/2018	7301	7470	60	Marcellus
36	7/2/2018	7100	7269	60	Marcellus
37	7/3/2018	6899	7069	60	Marcellus
38	7/3/2018	6698	6868	60	Marcellus
39	7/3/2018	6497	6667	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	6/21/2018	78.9	7282	5915	4409	17606	8507	N/A
2	6/21/2018	75.1	6884	5761	4043	16688	7819	N/A
3	6/21/2018	80.6	7328	5442	4208	16978	7960	N/A
4	6/22/2018	74.7	6819	5642	4328	16789	7850	N/A
5	6/23/2018	78.5	7102	5361	4291	16754	7834	N/A
6	6/23/2018	76.7	6921	5864	3844	16629	7840	N/A
7	6/23/2018	80.4	7202	5792	3783	16777	7657	N/A
8	6/24/2018	80.2	7177	5914	4012	17103	7519	N/A
9	6/24/2018	80.4	7171	5972	4204	17347	7743	N/A
10	6/24/2018	78.8	7028	5996	4403	17427	7693	N/A
11	6/24/2018	79.5	7156	6092	3850	17098	7640	N/A
12	6/25/2018	74.3	7533	6014	3751	17298	8404	N/A
13	6/25/2018	77.3	7131	5626	4279	17036	7759	N/A
14	6/25/2018	76.5	6892	5679	4576	17147	9326	N/A
15	6/25/2018	78.2	7451	6120	3987	17558	8204	N/A
16	6/26/2018	79	7387	5986	3744	17117	8272	N/A
17	6/26/2018	77.8	6853	6167	4477	17497	7677	N/A
18	6/26/2018	79	6760	6184	4189	17133	7702	N/A
19	6/27/2018	78.7	7388	6118	3969	17475	7695	N/A
20	6/27/2018	77.1	6778	5803	4477	17058	7624	N/A
21	6/27/2018	77.8	6718	6055	3906	16679	7681	N/A
22	6/27/2018	80.9	6825	6107	3871	16803	7815	N/A
23	6/28/2018	80.6	6766	6125	3961	16852	7519	N/A
24	6/28/2018	79	6614	5724	4350	16688	7603	N/A
25	6/28/2018	78.2	6888	6447	4795	18130	8923	N/A
26	6/29/2018	79.6	6915	5990	3840	16745	7697	N/A
27	6/29/2018	77.8	6719	6154	4035	16908	7592	N/A
28	6/29/2018	73.2	7020	6008	4282	17310	7569	N/A
29	6/29/2018	77.2	8017	6177	4420	18614	9744	N/A
30	6/30/2018	79.3	7075	5558	3984	16617	7985	N/A
31	6/30/2018	78.9	6416	5318	4866	16600	7578	N/A
32	6/30/2018	78.9	6466	5912	4309	16687	7639	N/A
33	6/30/2018	79	6820	6002	4024	16846	7775	N/A
34	7/1/2018	76.9	6164	5270	4408	15842	8608	N/A
35	7/2/2018	79.6	6185	6195	4293	16673	7799	N/A
36	7/2/2018	78.7	6135	5820	3767	15722	7514	N/A
37	7/3/2018	78	6273	6528	4044	16845	7524	N/A
38	7/3/2018	76.6	6177	6455	4594	17226	7593	N/A
39	7/3/2018	79.7	6345	6207	3498	16050	7560	N/A
	AVG=	<b>78.2</b>	<b>6,892</b>	<b>5,936</b>	<b>4,156</b>	<b>662,352</b>	<b>308,443</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 w/trace Coal	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	1,721	1,311	1,723
Big Lime	1,684	1,804	1,684	1,805
Big Injun	1,804	2,293	1,805	2,293
Gantz Sand	2,293	2,493	2,293	2,493
Fifty Food Sandstone	2,493	2,592	2,493	2,592
Gordon	2,592	2,928	2,592	2,929
Fifth Sandstone	2,928	2,975	2,929	2,975
Bayard	2,975	3,363	2,975	3,363
Warren	3,363	3,757	3,363	3,758
Speechley	3,757	4,468	3,758	4,469
Balltown	4,039	4,840	4,040	4,841
Bradford	4,468	4,840	4,469	4,841
Benson	4,840	5,070	4,841	5,071
Alexander	5,070	5,257	5,071	5,258
Elk	5,257	5,616	5,258	5,616
Rhinestreet	5,597	5,950	5,597	5,957
Sycamore	5,950	6,123	5,957	6,160
Middlesex	6,123	6,216	6,160	6,302
Burkett	6,216	6,197	6,302	6,351
Tully	6,197	6,285	6,351	6,458
Marcellus	6,285	NA	6,458	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:	6/21/2018
Job End Date:	7/3/2018
State:	West Virginia
County:	Tyler
API Number:	47-095-02325-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Goodfellow 2H
Latitude:	39.46635300
Longitude:	-80.85288900
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,304
Total Base Water Volume (gal):	13,281,240
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	87.22941	
SANIFRAC 8844	CWS	Biocide					
				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	12.40970
				Illite	12173-60-3	1.00000	0.07544
				Hydrochloric acid	7647-01-0	37.00000	0.06268
				Calcite	471-34-1	1.00000	0.04864
				Guar gum	9000-30-0	60.00000	0.02476
				Distillates (petroleum), hydrotreated middle	64742-46-7	60.00000	0.02476
				Polymer	26100-47-0	45.00000	0.02410
				Distillates (petroleum), hydrotreated light	64742-47-8	30.00000	0.01607
				Biotite	1302-27-8	0.10000	0.01241
				Goethite	1310-14-1	0.10000	0.01241
				Apatite	64476-38-6	0.10000	0.01241
				Ilmenite	98072-94-7	0.10000	0.00754
				Ammonium Persulfate	64742-47-8	100.00000	0.00644
				Polyethylene glycol mixture	25322-68-3	54.50000	0.00629
				2-Propenoic acid, homopolymer, sodium salt	9003-04-7	40.00000	0.00610
				Ammonium chloride	12125-02-9	11.00000	0.00589
				2,2-Dibromo-3-Nitripropionamide	10222-01-2	20.00000	0.00231
				Sorbitan monooleate	1338-43-8	4.00000	0.00214
				Quaternary ammonium compounds, bis (hydrogenated tallow alkyl)dimethyl, salts with bentonite	68953-58-2	5.00000	0.00206
				Polyethylene glycol monooleate	9004-96-0	3.00000	0.00161
				1,2-Propanediol	57-55-6	10.00000	0.00153



					69418-26-4	20.00000	0.00129	
				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	0.00062	
				Citric acid	77-92-9	60.00000	0.00057	
				Amines, tallow alkyl, ethoxylated	61791-26-2	1.00000	0.00054	
				Sodium bromide	7647-15-6	4.00000	0.00046	
				Dibromoacetonitrile	3252-43-5	3.00000	0.00035	
				Alkylxypolyethyleneoxy 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	
				Tar bases, quinolone derivs, benzyl chloride- quatenized	72480-70-7	10.00000	0.00001	
				Cinnamaldehyde	104-55-2	10.00000	0.00001	
				Formic Acid	64-18-6	10.00000	0.00001	
				Ethoxylated alcohols	Proprietary	10.00000	0.00001	Proprietary CAS
				Isopropanol	67-63-0	5.00000	0.00001	
				Tar bases, quinolone derivs	68513-87-1	1.00000	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"

5,521'

8,332' TO BOTTOM HOLE

LATITUDE 39°30'00"

Antero Resources Corporation  
Well No. Goodfellow Unit 2H  
API # 47-095-02325

LONGITUDE 80°50'00"

4,478' TO BOTTOM HOLE

12,259'

LONGITUDE 80°50'00"

COUNTY NAME

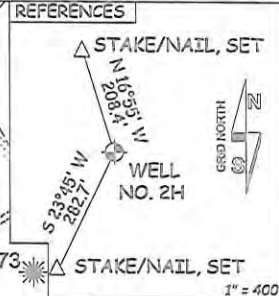
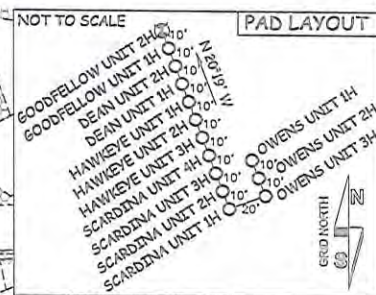
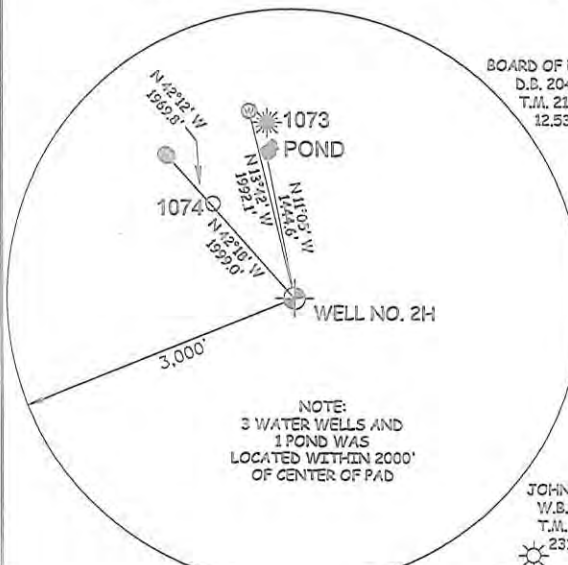
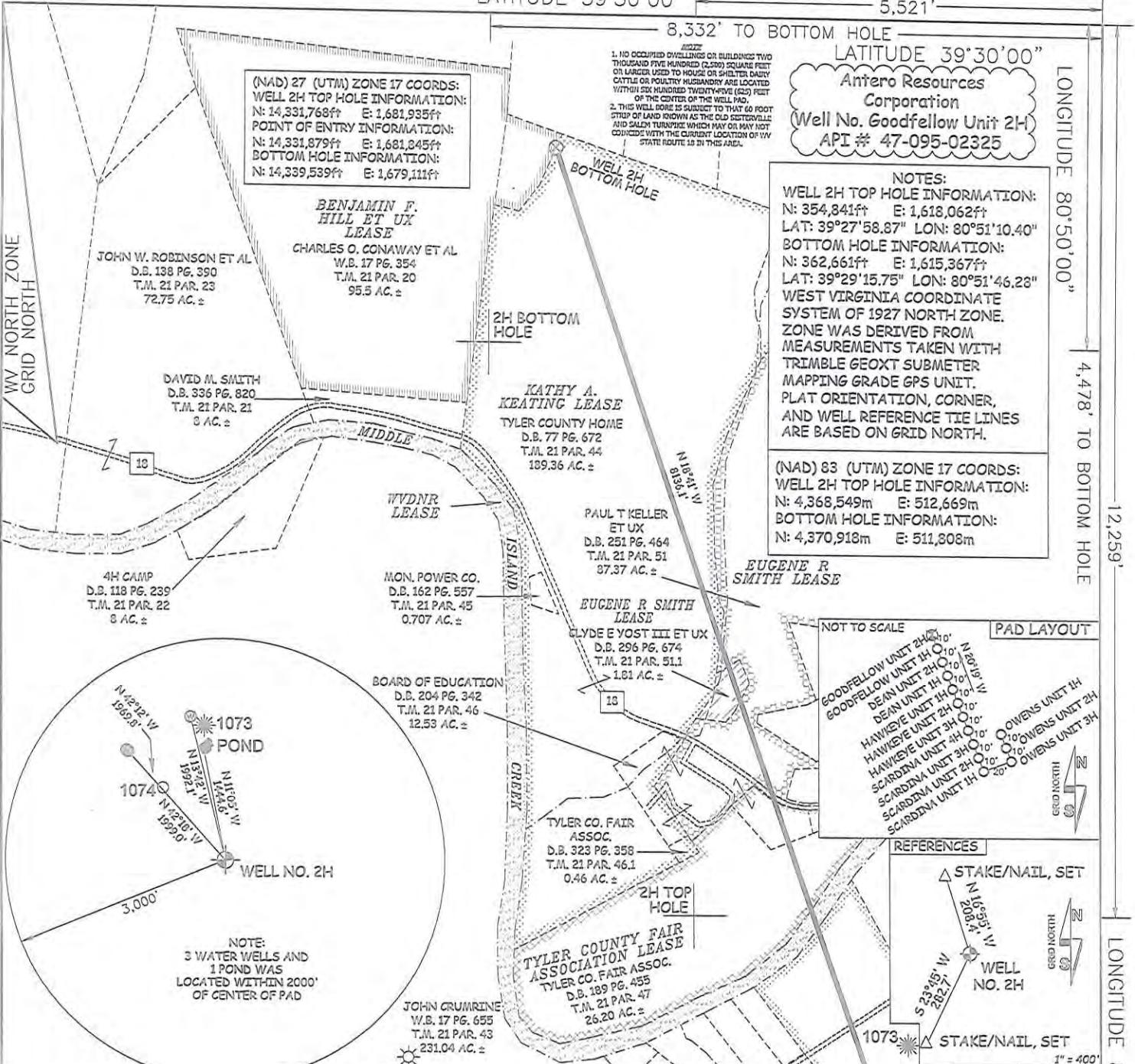
PERMIT

(NAD) 27 (UTM) ZONE 17 COORDS:  
WELL 2H TOP HOLE INFORMATION:  
N: 14,331,768ft E: 1,681,935ft  
POINT OF ENTRY INFORMATION:  
N: 14,331,879ft E: 1,681,845ft  
BOTTOM HOLE INFORMATION:  
N: 14,339,539ft E: 1,679,111ft

1. NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER DAIRY CATTLE OR POULTRY MUSKAMUNDY ARE LOCATED WITHIN SIX HUNDRED TWENTY-FIVE (625) FEET OF THE CENTER OF THE WELL PAD.  
2. THIS WELL SORE IS SUBJECT TO THAT 60 FOOT STRIP OF LAND SHOWN AS THE OLD GASTERVILLE AND SALON TURNPIKE WHICH MAY OR MAY NOT COINCIDE WITH THE CURRENT LOCATION OF WV STATE ROUTE 19 IN THIS AREA.

NOTES:  
WELL 2H TOP HOLE INFORMATION:  
N: 354,841ft E: 1,618,062ft  
LAT: 39°27'58.87" LON: 80°51'10.40"  
BOTTOM HOLE INFORMATION:  
N: 362,661ft E: 1,615,367ft  
LAT: 39°29'15.75" LON: 80°51'46.28"  
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 2H TOP HOLE INFORMATION:  
N: 4,368,549m E: 512,669m  
BOTTOM HOLE INFORMATION:  
N: 4,370,918m E: 511,808m



47 STATE COUNTY PERMIT 095 02325

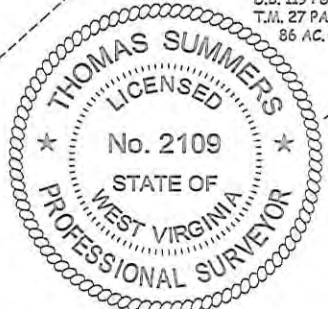
I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE RULES ISSUED AND PERSCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.



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 # GOODFELLOW2HR  
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 +/-  
--- Existing Fence  
--- Found monument, as noted  
THOMAS SUMMERS P.S. 2109  
DATE 05/03/16  
OPERATOR'S WELL# GOODFELLOW UNIT #2H



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; LEASE ACREAGE 129.2 AC +/-; 74.2 AC +/-; 35 AC +/-;  
LORETTA J. FULKS; WVDNR; TYLER COUNTY FAIR ASSOCIATION; EUGENE R. SMITH; EUGENE R. SMITH; KATHY A. KEATING; BENJAMIN F. HILL ET UX 37.25 AC +/-; 34 AC +/-; 26.665 AC +/-; 87.37 AC +/-; 1.812 AC +/-; 190.07 AC +/-; 95.5 AC +/-  
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 15,400' 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