

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

API 47 - 103 - 03222 County Wetzel District Green
Quad Porter Falls 7.5' Pad Name Gadd Pad Field/Pool Name -----
Farm name William L. & Delores J. Gadd Well Number Keystone 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 4377847.042m Easting 521044.406m
Landing Point of Curve Northing 4377962.49m Easting 5211776.02m
Bottom Hole Northing 4374865.681m Easting 522872.170m

Elevation (ft) 1224' 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 4/13/2018 Date drilling commenced 11/2/2018 Date drilling ceased 12/25/2018

Date completion activities began 3/15/2019 Date completion activities ceased 4/19/2019

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 350' Open mine(s) (Y/N) depths No

Salt water depth(s) ft 1887', 1894', 1917' Void(s) encountered (Y/N) depths No

Coal depth(s) ft 656', 912', 971' Cavern(s) encountered (Y/N) depths No

Is coal being mined in area (Y/N) No

APPROVED

Reviewed by:

SMY
07/19/2024
S-25-24

API 47-103 - 03222 Farm name William L. & Delores J. Gadd Well number Keystone 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"	104'	New	94#, H-40	N/A	Y
Surface	17-1/2"	13-3/8"	548'	New	48#, H-40	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2739'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	18796'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	7591'		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 ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	Class A	sx	15.6	1.18	120	0'	8 Hrs.
Surface	Class A	450 sx	15.6	1.18	826	0'	8 Hrs.
Coal							
Intermediate 1	Class A	925 sx	15.6	1.18	1181	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	840 sx (Lead) 1672 sx (Tail)	13.5 (Lead), 15.2 (Tail)	1.53 (Lead), 1.83 (Tail)		~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 18815' MD, 7056' TVD (BHL), 7057' (Deepest Point Drilled) Loggers TD (ft) 18815' MD
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 6500'

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

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EXHIBIT 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	3/15/2019	18638		60	Marcellus
2	3/16/2019	18435.5	18606.25	60	Marcellus
3	3/16/2019	18233	18403.75	60	Marcellus
4	3/16/2019	18030.5	18201.25	60	Marcellus
5	3/17/2019	17828	17998.75	60	Marcellus
6	3/17/2019	17625.5	17796.25	60	Marcellus
7	3/17/2019	17423	17593.75	60	Marcellus
8	3/18/2019	17220.5	17391.25	60	Marcellus
9	3/18/2019	17018	17188.75	60	Marcellus
10	3/18/2019	16815.5	16986.25	60	Marcellus
11	3/19/2019	16613	16783.75	60	Marcellus
12	3/19/2019	16410.5	16581.25	60	Marcellus
13	3/19/2019	16208	16378.75	60	Marcellus
14	3/20/2019	16005.5	16176.25	60	Marcellus
15	3/20/2019	15803	15973.75	60	Marcellus
16	3/20/2019	15600.5	15771.25	60	Marcellus
17	3/20/2019	15398	15568.75	60	Marcellus
18	3/21/2019	15195.5	15366.25	60	Marcellus
19	3/21/2019	14993	15163.75	60	Marcellus
20	3/22/2019	14790.5	14961.25	60	Marcellus
21	3/22/2019	14588	14758.75	60	Marcellus
22	3/22/2019	14385.5	14556.25	60	Marcellus
23	3/23/2019	14183	14353.75	60	Marcellus
24	3/23/2019	13980.5	14151.25	60	Marcellus
25	3/23/2019	13778	13948.75	60	Marcellus
26	3/24/2019	13575.5	13746.25	60	Marcellus
27	3/24/2019	13373	13543.75	60	Marcellus
28	3/25/2019	13170.5	13341.25	60	Marcellus
29	3/25/2019	12968	13138.75	60	Marcellus
30	3/25/2019	12765.5	12936.25	60	Marcellus
31	3/26/2019	12563	12733.75	60	Marcellus
32	3/26/2019	12360.5	12531.25	60	Marcellus
33	3/27/2019	12158	12328.75	60	Marcellus
34	3/27/2019	11955.5	12126.25	60	Marcellus
35	3/27/2019	11753	11923.75	60	Marcellus
36	3/28/2019	11550.5	11721.25	60	Marcellus
37	3/28/2019	11348	11518.75	60	Marcellus
38	3/28/2019	11145.5	11316.25	60	Marcellus
39	3/29/2019	10943	11113.75	60	Marcellus
40	3/29/2019	10740.5	10911.25	60	Marcellus
41	3/29/2019	10538	10708.75	60	Marcellus
42	3/30/2019	10335.5	10506.25	60	Marcellus
43	3/30/2019	10133	10303.75	60	Marcellus
44	3/30/2019	9930.5	10101.25	60	Marcellus
45	3/30/2019	9728	9898.75	60	Marcellus
46	3/31/2019	9525.5	9696.25	60	Marcellus
47	3/31/2019	9323	9493.75	60	Marcellus
48	4/1/2019	9120.5	9291.25	60	Marcellus
49	4/1/2019	8918	9088.75	60	Marcellus
50	4/1/2019	8715.5	8886.25	60	Marcellus
51	4/1/2019	8513	8683.75	60	Marcellus
52	4/2/2019	8310.5	8481.25	60	Marcellus
53	4/2/2019	8108	8278.75	60	Marcellus
54	4/2/2019	7905.5	8076.25	60	Marcellus
55	4/3/2019	7703	7873.75	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	3/15/2019	64.8	8445	6381	4887	215250	6099	N/A
2	3/16/2019	70.4	8145	6338	4898	504000	9202.25	N/A
3	3/16/2019	70.4	8059	6305	5418	500950	9246.57	N/A
4	3/16/2019	68.96305	7914.253	5776	5371	503250	9126.12	N/A
5	3/17/2019	67.3	7844	5532	5284	501950	9096.95	N/A
6	3/17/2019	72.97946	8168.835	6305	5034	501175	9280.39	N/A
7	3/17/2019	69.56193	8218.84	6496	5162	501450	9203.97	N/A
8	3/18/2019	68.4822	8092.467	7264	5598	501400	9213.09	N/A
9	3/18/2019	72.7644	8245.705	6050	5552	501750	9243.94	N/A
10	3/18/2019	74.24104	8190.727	6367	5485	501500	9010.72	N/A
11	3/19/2019	69.121	8001.207	6845	5089	501450	9039.5	N/A
12	3/19/2019	68.77141	7868.869	5458	4587	493150	9078.79	N/A
13	3/19/2019	72.11261	7949.53	6490	5100	502050	9462.05	N/A
14	3/20/2019	74.95995	8062.806	6394	5270	503700	9052.74	N/A
15	3/20/2019	71.78771	8039.475	6486	5537	501500	9218.05	N/A
16	3/20/2019	74.22488	8081.787	6316	5158	501400	9007.81	N/A
17	3/20/2019	76.13405	7811.035	6541	5186	501250	9509.52	N/A
18	3/21/2019	74.14085	7875.706	6766	5053	500750	9023.04	N/A
19	3/21/2019	75.55336	7912.577	6289	5331	501350	8995.77	N/A
20	3/22/2019	73.56274	7862.704	6708	5285	501500	8962.4	N/A
21	3/22/2019	75.34819	7971.948	6686	5308	502050	9065.36	N/A
22	3/22/2019	72.36811	7904.172	6264	5479	500650	9390.38	N/A
23	3/23/2019	74.15825	7920.528	6289	5252	501500	8792.39	N/A
24	3/23/2019	71.52718	7665.876	6372	5446	500300	11040.42	N/A
25	3/23/2019	74.52986	7851.529	5976	4757	501250	9125.42	N/A
26	3/24/2019	72.82526	7587.67	5702	5013	507450	9672.4	N/A
27	3/24/2019	67.8001	7593.57	6270	4844	500800	9270.03	N/A
28	3/25/2019	74.95079	7823.533	5963	4524	501250	8843.58	N/A
29	3/25/2019	75.46305	7757.112	6062	4615	502700	8894.4	N/A
30	3/25/2019	73.25952	7791.349	5845	4738	482800	9371.19	N/A
31	3/26/2019	73.47379	7775.416	6292	5223	502150	8937.48	N/A
32	3/26/2019	76.35708	7836.52	6517	5270	503000	8892.63	N/A
33	3/27/2019	74.5163	7809.112	7020	5200	501600	8789.52	N/A
34	3/27/2019	76.07399	7881.635	6740	4744	502200	8881.97	N/A
35	3/27/2019	75.03974	7769.728	7053	5037	502250	8821.87	N/A
36	3/28/2019	76.81128	7844.109	6447	5213	501500	8719.09	N/A
37	3/28/2019	74.6081	7585.756	6593	4885	502000	8821.53	N/A
38	3/28/2019	73.42347	7605.609	6606	5027	502200	8928.67	N/A
39	3/29/2019	73.77374	7437.158	6670	4834	500650	8976.37	N/A
40	3/29/2019	78.04964	7581.017	6325	5289	502000	8788.79	N/A
41	3/29/2019	77.29127	7595.427	6415	4117	500950	8868.42	N/A
42	3/30/2019	76.2933	7212.496	6797	4404	502350	8877.67	N/A
43	3/30/2019	76.44115	7467.685	7504	4754	502050	8799.99	N/A
44	3/30/2019	75.9765	7550.193	6571	5174	418400	7947.85	N/A
45	3/30/2019	68.92529	6821.241	6181	5090	481550	10252.95	N/A
46	3/31/2019	73.39808	7032.405	5711	5414	501700	10219.98	N/A
47	3/31/2019	71.14932	7086.448	6704	4149	502300	9128.38	N/A
48	4/1/2019	74.22274	7209.774	6418	4600	501500	9013.63	N/A
49	4/1/2019	72.74625	7278.462	6399	4125	502950	8979.65	N/A
50	4/1/2019	76.02702	7206.365	6412	4555	503100	8889.23	N/A
51	4/1/2019	76.50984	7463.106	6311	4486	502300	8733.68	N/A
52	4/2/2019	77.12585	7369.974	5862	4239	502650	8709.37	N/A
53	4/2/2019	75.46919	6917.104	5668	4099	504850	8547.95	N/A
54	4/2/2019	71.19301	6860.758	6143	4800	496550	8702.68	N/A
55	4/3/2019	71.69016	6981.934	6300	4059	501000	8718.86	N/A
AVG.		73.1	7,832	6,406	5,078	22,166,375	406,843	TOTAL

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API 47-103-03222 Farm Name William L. & Dolores J. Gadd Well Number Keystone Unit 3H

EXHIBIT 3

LITHOLOGY/ FORMATION	TOP DEPTH (TVD)	BOTTOM DEPTH (TVD)	TOP DEPTH (MD)	BOTTOM DEPTH (MD)
	From Surface	From Surface	From Surface	From Surface
Sandstone	80	215	80	215
Silty Sandstone	215	245	215	245
Shaly sandstone	245	275	245	275
Silty Sandstone	275	425	275	425
Shaly sandstone	425	495	425	495
Silty Sandstone	495	605	495	605
Shale	605	815	605	815
Silty Sandstone	815	1,075	815	1,075
Shale w/coal interbeds	1,075	1,235	1,075	1,235
Sandy shale	1,235	1,325	1,235	1,325
Shale	1,325	1,415	1,325	1,415
Sandy shale	1,415	1,715	1,415	1,715
Shaly sandstone	1,715	1,774	1,715	1,869
Big Lime	1,799	2,583	1,844	2,726
Fifty Foot Sandstone	2,583	2,759	2,701	2,915
Gordon	2,759	2,988	2,890	3,166
Fifth Sandstone	2,988	3,045	3,141	3,231
Bayard	3,045	3,974	3,206	4,244
Speechley	3,974	4,102	4,219	4,381
Balltown	4,102	4,586	4,356	4,908
Bradford	4,586	5,137	4,883	5,507
Benson	5,137	5,560	5,482	5,969
Alexander	5,560	6,737	5,944	7,279
Sycamore	6,522	6,712	7,019	7,254
Middlesex	6,712	6,812	7,254	7,414
Burkett	6,812	6,839	7,414	7,466
Tully	6,839	6,911	7,466	7,658
Marcellus	6,911	NA	7,658	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.

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	3/15/2019
Job End Date:	4/3/2019
State:	West Virginia
County:	Wetzel
API Number:	47-103-03222-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Keystone Unit 3H
Latitude:	39.54996390
Longitude:	-80.75524160
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7,055
Total Base Water Volume (gal):	21,613,121
Total Base Non Water Volume:	0

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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	Supplied by Operator	Base Fluid					
			Water	7732-18-5	100.00000	86.62798	
15% HCl Acid	CWS	Clean Perforations					
				Listed Below			

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CI-9100G	CWS	Corrosion Inhibitor					
				Listed Below			
Sand (Proppant)	CWS	Propping Agent					
				Listed Below			
DAP-103	CWS	Iron Control					
				Listed Below			
DWP-641	CWS	Friction Reducer					
				Listed Below			
Calbreak 5501	CWS	Breaker					
				Listed Below			
DAP-902	CWS	Scale Inhibitor					
				Listed Below			
CalGel 4000	CWS	Gel Slurry					
				Listed Below			
SaniFrac 8844	CWS	Biocide					
				Listed Below			
Other Chemical (s)	Listed Above	See Trade Name (s) List					

				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	13.05820	
			Calcite	471-34-1	1.00000	0.08936	
			Hydrochloric acid	7647-01-0	37.00000	0.04941	
			Illite	12173-60-3	1.00000	0.04121	
			Polymer	26100-47-0	45.00000	0.02421	
			Distillates (petroleum), hydrotreated light	64742-47-8	30.00000	0.01614	
			Distillates (petroleum), hydrotreated middle	64742-46-7	60.00000	0.01367	
			Guar gum	9000-30-0	60.00000	0.01367	
			Apatite	64476-38-6	0.10000	0.01306	
			Biotite	1302-27-8	0.10000	0.01306	
			Goethite	1310-14-1	0.10000	0.01306	
			Ammonium chloride	12125-02-9	11.00000	0.00592	
			Polyethylene glycol mixture	25322-68-3	54.50000	0.00579	
			Ilmenite	98072-94-7	0.10000	0.00412	
			Sorbitan monooleate	1338-43-8	4.00000	0.00215	
			2,2-Dibromo-3- Nitrilopropionamide	10222-01-2	20.00000	0.00212	
			Polyethylene glycol monooleate	9004-96-0	3.00000	0.00161	
			Quaternary ammonium compounds, bis (hydrogenated tallow alkyl)dimethyl, salts with bentonite	68953-58-2	5.00000	0.00114	
			Sorbitol tetraoleate	61723-83-9	2.00000	0.00108	
			Amines, tallow alkyl, ethoxylated	61791-26-2	1.00000	0.00054	
			Ammonium Persulfate	7727-54-0	100.00000	0.00049	
			Citric acid	77-92-9	60.00000	0.00045	
			Sodium bromide	7647-15-6	4.00000	0.00042	

			Oxirane, 2-methyl-, polymer with oxirane, monodecyl ether	37251-67-5	1.50000	0.00034	
			Dibromoacetonitrile	3252-43-5	3.00000	0.00032	
			Alkyloxypolyethyleneoxy ethanol	84133-50-6	0.50000	0.00027	
			Vinylidene chloride-methyl acrylate copolymer	25038-72-6	20.00000	0.00010	
			Acrylamide	79-06-1	0.10000	0.00005	
			Ethylene Glycol	107-21-1	40.00000	0.00003	
			Ethoxylated Alcohols	68131-39-5	10.00000	0.00001	
			Cinnamaldehyde	104-55-2	10.00000	0.00001	
			Formic acid	64-18-6	10.00000	0.00001	
			Isopropyl alcohol	67-63-0	5.00000	0.00001	
			Tar bases, quinolone derivs, benzyl chloride- quatenized	72480-70-7	10.00000	0.00001	
			Diethylene glycol, monomethyl ether	34590-94-8	20.00000	0.00001	
			Glycol	57-55-6			Proprietary Additive Concentration
			Organic Acid Salts	9003-04-7			Proprietary Additive Concentration

* 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)

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1,646' to Top Hole

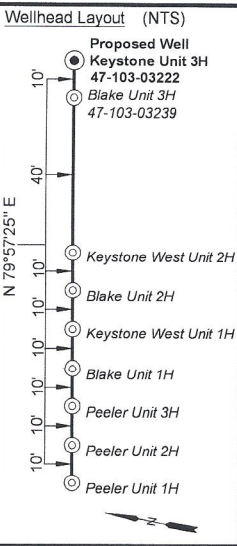
7,350' to Bottom Hole

BTM HOLE LATITUDE 39 - 32 - 30
TOP HOLE LATITUDE 39 - 35 - 00

TOP HOLE LONGITUDE 80 - 45 - 00
BTM HOLE LONGITUDE 80 - 42 - 30
6,680' to Bottom Hole

12,132' to Top Hole

Bearing	Dist.	Monument
L1 N 62°21' W	940.1'	3/4" Rebar
L2 N 49°44' W	578.3'	1" Pipe
L3 N 34°11' W	809.7'	5/8" Threaded Rod
L4 S 42°18' E	2,610.9'	47-103-1122A (Plug)



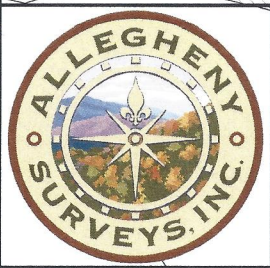
Notes:
West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
Well No. Keystone Unit 3H Top Hole coordinates are
N: 384,891.70' Latitude: 39°32'59.87"
E: 1,646,053.58' Longitude: 80°45'18.87"
Bottom Hole coordinates are
N: 375,008.23' Latitude: 39°31'22.99"
E: 1,651,888.34' Longitude: 80°44'02.65"
UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,377,847.042m N: 4,374,865.681m
E: 521,044.406m E: 522,872.170m
Plat orientation and corner and well references are based upon the grid north meridian.
Well location references are based upon the magnetic meridian.

TM/Par	Owner	Bk/Pg	Acres
1 16/11.1	Donna M. Mierwald	355/283	0.841
2 16/11	James K. Eastham	300/428	2.840
3 16/14	James K. Eastham	389/506	9.200
4 16/10.1	James K. Eastham	389/506	3.045
5 16/24	James K. Eastham	426/734	20.600
6 16/23	Kenneth E. Butler	331/110	50.970
7 16/23.1	Wetzel County Public Service District 1	433/851	0.230
8 16/32	Fox Cemetery	50/137	1.170
9 16/31	William L. & Delores J. Gadd	348/169	2.650
10 16/33	William M. Greenwalt & Lee A. Niezgoda	387/1	11.800
11 16/26	James K. Eastham II	426/734	47.500
12 16/9	Richard A. & Susan L. Gardner	341/281	66.500
13 16/21.2	Mildred E. Caseman	WB45/396	20.060
14 16/21	Mildred E. Caseman	WB45/396	40.000
15 16/47	William M. Greenwalt & Lee A. Niezgoda	387/1	12.000
16 16/30	William L. & Delores J. Gadd	348/169	14.000
17 16/48	George D. Cain	372/388	5.300
18 16/49	George D. Cain	372/388	41.300
19 17/42.2	William & Missy Satterfield	387/389	13.486
20 16/65	George D. Cain	372/388	30.800
21 20/1	Paul E. & Janet K. Tracy	428/254	3.150
22 20/8	Kathy L. Wright	WB75/551	33.000
23 19/9	Paul E. & Janet K. Tracy	385/56	13.200
24 19/19	Paul E. & Janet K. Tracy	428/254	21.200
25 19/20	Paul E. & Janet K. Tracy	428/254	11.400
26 20/11	Kathy L. Wright	WB75/551	10.750
27 19/29	Gary B. Shanholtzer	408/530	11.800
28 20/12.1	Kelly Rashel Rose Moore & Shelley Lyn Rose Schamp	423/4	3.096

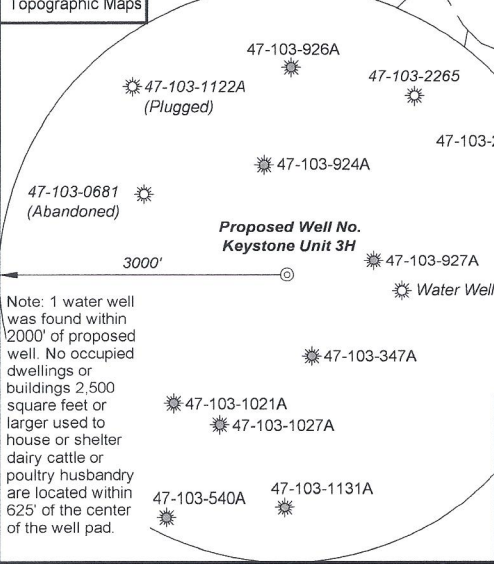
- Leases
- A. John W. Bertram
 - B. James K. Eastham
 - C. Larry I. Tennant
 - D. BRC Appalachian Minerals I LLC
 - E. Larry I. Tennant
 - F. Diane K. Howell
 - G. Ellen Wayne VanDyne & Mark Lindell VanDyne
 - H. BRC Appalachian Minerals I LLC
 - J. Reita Jane Hall
 - K. Sandra Rose Conley

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 prescribed by the Department of Environmental Protection.

Bradley D. Miller, P.S. 2167



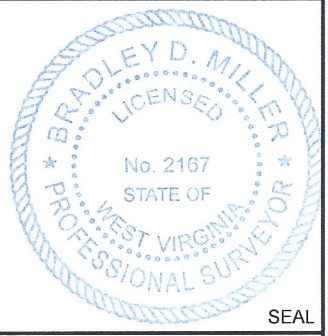
(-⊕-) Denotes Location of Well on United States Topographic Maps



Legend

- ⊕ Proposed gas well
- ⊙ Found corner, as noted
- ⊗ Existing Well, as noted
- ⊛ Digitized Well, as noted
- ⊕ Creek or Drain
- ⊕ Existing Road
- ⊕ Surface boundary (approx.)
- ⊕ Interior surface tracts (approx.)

Top Hole Coordinates, As-drilled data, and information was provided by Antero Resources Corporation. Allegheny Surveys Inc. (ASI) is not certifying the data and information provided. ASI is not responsible for any errors or inaccuracies with the data and information that has been provided.



FILE NO: 135-34-G-17
DRAWING NO: Keystone 3H Well Plat
SCALE: 1" = 1500'
MINIMUM DEGREE OF ACCURACY: Submeter
PROVEN SOURCE OF ELEVATION: CORS, Monroe County, OH

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: November 20 20 19
OPERATOR'S WELL NO. Keystone Unit 3H
API WELL NO
47 - 103 - 03222
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION: ELEVATION: As-Drilled 1224' WATERSHED: Fishing Creek QUADRANGLE: Pine Grove (BH) 537.11875; 20.6; 39; 20.6; 313; 12.04; 2.65; 60; 75.5; 47.5; 100; 38.78333

DISTRICT: Green William L. & Larry I. Tennant; Diane K. Howell; Terry Bartrug; Martha B. Lemley; James K. Eastham; SURFACE OWNER: Delores J. Gadd Pamela Ann Palmer Emch; William R. Stalnaker; ROYALTY OWNER: BRC Appalachian Minerals I, LLC (5); John W. Bertram; LEASE NO: ACREAGE: 2.65 ACREAGE: 100; 38.78333

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 7,056' TVD 18,815' MD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Dianna Stamper - CT Corporation System
ADDRESS: 1615 Wynkoop Street ADDRESS: 5400 D Big Tyler Road
Denver, CO 80202 Charleston, WV 25313