

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

API 47 - 095 - 02677 County Tyler District Ellsworth
Quad Middlebourne 7.5' Pad Name Hogue Pad Field/Pool Name ----
Farm name Michael J. & Melinda R. Hogue Well Number Kramer 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 4369132.407m Easting 508791.462m
Landing Point of Curve Northing 5372864.277m Easting 508482.268m
Bottom Hole Northing 4369287.512m Easting 509721.088m

RECEIVED
Office of Oil and Gas
FEB 09 2021

Elevation (ft) 1015' 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 2/10/2020 Date drilling commenced 2/21/2020 Date drilling ceased 4/16/2020
Date completion activities began 8/21/2020 Date completion activities ceased 9/13/2020
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 456' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 1581' Void(s) encountered (Y/N) depths No
Coal depth(s) ft 740' Cavern(s) encountered (Y/N) depths No
Is coal being mined in area (Y/N) No

Reviewed by:
JCB
2/23/2021
04/02/2021

API 47- 095 - 02677 Farm name Michael J. & Melinda R. Hogue Well number Kramer 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"	80'	New	94#, H-40	N/A	Y
Surface	17-1/2"	13-3/8"	586'	New	54#, J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2779'	New	36#, H-40	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	20435'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	7621'		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	109 sx	15.6	1.18	244	0'	8 Hrs.
Surface	Class A	326 sx	15.6	1.19	402	0'	8 Hrs.
Coal							
Intermediate 1	Class A	715 sx	15.6	1.18	1047	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	798 sx (Lead) 1268 sx (Tail)	13.5 (Lead), 15.2 (Tail)	1.53 (Lead), 1.83 (Tail)	2819	~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 20480' MD, 6374' TVD (BHL), 6382' (Deepest Point Drilled) Loggers TD (ft) 20480' MD

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

Plug back procedure N/A

Kick off depth (ft) 6635'

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 - 02677 Farm name Michael J. & Melinda R. Hogue Well number Kramer Unit 2H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>			
<u>Marcellus</u>	<u>6385' (TOP)</u>	<u>TVD</u>	<u>7678' (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 3001 mcfpd Oil 136 bpd NGL --- bpd Water 2 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, H₂S, 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 H&P Drilling
Address 1437 South Boulder Avenue City Tulsa State OK Zip 74119

Logging Company KLX Energy Services
Address 1415 Louisiana Street, Suite 2900 City Houston State TX Zip 77002

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 12-18-20

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

API 47-095-02677 Farm Name Michael J. & Melinda R. Hogue Well Number Kramer Unit 2H					
EXHIBIT 1					
Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	7/15/2020	20361.4	20317.7	60	Marcellus
2	7/15/2020	20208	20050.8239	60	Marcellus
3	7/16/2020	20015.15774	19848.8268	60	Marcellus
4	7/16/2020	19813.16063	19646.8297	60	Marcellus
5	7/16/2020	19611.16351	19444.8326	60	Marcellus
6	7/16/2020	19409.1664	19242.8355	60	Marcellus
7	7/17/2020	19207.16929	19040.8384	60	Marcellus
8	7/19/2020	19005.17217	18838.8412	60	Marcellus
9	7/19/2020	18803.17506	18636.8441	60	Marcellus
10	7/20/2020	18601.17794	18434.847	60	Marcellus
11	7/20/2020	18399.18083	18232.8499	60	Marcellus
12	7/20/2020	18197.18372	18030.8528	60	Marcellus
13	7/20/2020	17995.1866	17828.8557	60	Marcellus
14	7/21/2020	17793.18949	17626.8586	60	Marcellus
15	7/21/2020	17591.19238	17424.8614	60	Marcellus
16	7/21/2020	17389.19526	17222.8643	60	Marcellus
17	7/21/2020	17187.19815	17020.8672	60	Marcellus
18	7/22/2020	16985.20104	16818.8701	60	Marcellus
19	7/22/2020	16783.20392	16616.873	60	Marcellus
20	7/22/2020	16581.20681	16414.8759	60	Marcellus
21	7/23/2020	16379.2097	16212.8788	60	Marcellus
22	7/23/2020	16177.21258	16010.8817	60	Marcellus
23	7/23/2020	15975.21547	15808.8845	60	Marcellus
24	7/23/2020	15773.21836	15606.8874	60	Marcellus
25	7/24/2020	15571.22124	15404.8903	60	Marcellus
26	7/24/2020	15369.22413	15202.8932	60	Marcellus
27	7/24/2020	15167.22701	15000.8961	60	Marcellus
28	7/25/2020	14965.2299	14798.899	60	Marcellus
29	7/25/2020	14763.23279	14596.9019	60	Marcellus
30	7/25/2020	14561.23567	14394.9047	60	Marcellus
31	7/25/2020	14359.23856	14192.9076	60	Marcellus
32	7/25/2020	14157.24145	13990.9105	60	Marcellus
33	7/26/2020	13955.24433	13788.9134	60	Marcellus
34	7/26/2020	13753.24722	13586.9163	60	Marcellus
35	7/26/2020	13551.25011	13384.9192	60	Marcellus
36	7/26/2020	13349.25299	13182.9221	60	Marcellus
37	7/27/2020	13147.25588	12980.925	60	Marcellus
38	7/27/2020	12945.25877	12778.9278	60	Marcellus
39	7/27/2020	12743.26165	12576.9307	60	Marcellus
40	7/27/2020	12541.26454	12374.9336	60	Marcellus
41	7/27/2020	12339.26743	12172.9365	60	Marcellus
42	7/28/2020	12137.27031	11970.9394	60	Marcellus
43	7/28/2020	11935.2732	11768.9423	60	Marcellus
44	7/28/2020	11733.27608	11566.9452	60	Marcellus
45	7/29/2020	11531.27897	11364.948	60	Marcellus
46	7/29/2020	11329.28186	11162.9509	60	Marcellus
47	7/29/2020	11127.28474	10960.9538	60	Marcellus
48	7/30/2020	10925.28763	10758.9567	60	Marcellus
49	7/30/2020	10723.29052	10556.9596	60	Marcellus
50	7/30/2020	10521.2934	10354.9625	60	Marcellus
51	7/30/2020	10319.29629	10152.9654	60	Marcellus
52	7/30/2020	10117.29918	9950.96825	60	Marcellus
53	7/31/2020	9915.302063	9748.97114	60	Marcellus
54	7/31/2020	9713.30495	9546.97402	60	Marcellus
55	7/31/2020	9511.307836	9344.97691	60	Marcellus
56	7/31/2020	9309.310723	9142.97979	60	Marcellus
57	7/31/2020	9107.313609	8940.98268	60	Marcellus
58	8/1/2020	8905.316496	8738.98557	60	Marcellus
59	8/1/2020	8703.319382	8536.98845	60	Marcellus
60	8/1/2020	8501.322268	8334.99134	60	Marcellus
61	8/1/2020	8299.325155	8132.99423	60	Marcellus
62	8/1/2020	8097.328041	7930.99711	60	Marcellus
63	8/1/2020	7895.330928	7729	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	7/15/2020	54.02	8445	7152	3186	163280	6205.4524	N/A
2	7/15/2020	59.63	8567.29	7913.69	4110.5	408460	8593	N/A
3	7/16/2020	72.77	8763	6466	4212.53	406880	7475.4524	N/A
4	7/16/2020	72.75	8661	6299	4452	407100	7872.1905	N/A
5	7/16/2020	69.45	8555	6311	4061	406740	7717.0238	N/A
6	7/16/2020	64.05	8735	5831	4305	406600	8012.1667	N/A
7	7/17/2020	69.11	8720	6156	4253	408200	7931.619	N/A
8	7/19/2020	72.85	8839	5956	3841	411560	7707.6905	N/A
9	7/19/2020	74.76	8766	6185	4020	408820	7669.7619	N/A
10	7/20/2020	72.41	8698.15	5779	4036.35	410280	7471.9048	N/A
11	7/20/2020	74.84	8697	5723	4178	406540	7596.4286	N/A
12	7/20/2020	72.61	8840	6029	4180	410260	7585.4524	N/A
13	7/20/2020	68.94	8720	6161	4019	410260	7569.2143	N/A
14	7/21/2020	72.12	8873	6006	3791	407300	7613.5952	N/A
15	7/21/2020	77.39	8827	5840	3932	408820	8177.4286	N/A
16	7/21/2020	76.08	8727	6071	3968	408740	7485.5714	N/A
17	7/21/2020	77.73	8807	5787	3551.77	407460	7594.119	N/A
18	7/22/2020	76.05	8835	5658	3939.66	407000	7640.0714	N/A
19	7/22/2020	75.22	8515.14	5370.85	3940.01	407920	7451.7381	N/A
20	7/22/2020	73.39	8729	5991	4011.18	407620	7545.7143	N/A
21	7/23/2020	75.13	8771	5620	3670.57	411680	7616.0238	N/A
22	7/23/2020	75.68	8785	5610	3914	410560	7613.5238	N/A
23	7/23/2020	75.73	8678	5477	3947	409140	7494	N/A
24	7/23/2020	78.18	8749	5828	3966	408820	7547	N/A
25	7/24/2020	78.43	8638	5294	4015	411100	7510.0952	N/A
26	7/24/2020	78.51	8634	5635	3913	408960	7405	N/A
27	7/24/2020	79.88	8788	5738	4022	410360	7514	N/A
28	7/25/2020	79.11	8783	5407	4215	409200	7412	N/A
29	7/25/2020	80.06	8693	5847	4242	407240	7371	N/A
30	7/25/2020	79.66	8813	5908	4136	407980	7443	N/A
31	7/25/2020	80.53	8794	5436	4007	409300	7410.1429	N/A
32	7/25/2020	79.13	8715	5270	4117	411020	7440.4762	N/A
33	7/26/2020	81.9	8665	5452	4033	408620	7367.381	N/A
34	7/26/2020	78.04	8543	5316	3715	408380	7223.6905	N/A
35	7/26/2020	79.91	8635	5638	4018	411040	7226.2143	N/A
36	7/26/2020	85.88	8775	5662	3951	410280	7510.7857	N/A
37	7/27/2020	85.52	8723	5199	4029	407740	7422	N/A
38	7/27/2020	87.48	8653	5655	4100	408920	7292	N/A
39	7/27/2020	90.56	8635	5399	4374	410080	7288	N/A
40	7/27/2020	87.22	8353	4159	3961	409360	7277.2143	N/A
41	7/27/2020	85.85	8446	5662	4121	411780	7251.5476	N/A
42	7/28/2020	87.21	8511	5415	4081	409220	7270.9048	N/A
43	7/28/2020	90.42	8608	5989	4074	408200	7142.5476	N/A
44	7/28/2020	90.84	8573	5672	4015	409120	7202.4524	N/A
45	7/29/2020	94.36	8690	5638	4161	409680	7255.9048	N/A
46	7/29/2020	93.33	8773	5441	4163	411760	7235.6667	N/A
47	7/29/2020	93.53	8784	5775	4194	408820	7130.881	N/A
48	7/30/2020	95	8757	5507	4047	406760	7165.9048	N/A
49	7/30/2020	90.96	8582	5722	4198	407660	7083.6667	N/A
50	7/30/2020	95.73	8684	5985	4264	408280	6955.119	N/A
51	7/30/2020	95.76	8622	5779	4140	410980	6876	N/A
52	7/30/2020	97.35	8611	5646	4254	412180	6897	N/A
53	7/31/2020	96.53	8550	5558	4272	406880	6876	N/A
54	7/31/2020	96	8502	5567	4221	407420	6857.9286	N/A
55	7/31/2020	95.36	8544	5720	4189	408720	6802.3095	N/A
56	7/31/2020	97.46	8543	6254	3996	407020	6816	N/A
57	7/31/2020	95.66	8383	5582	4153	411100	6860.5	N/A
58	8/1/2020	97.27	8494	5580	4340	407820	6839.1905	N/A
59	8/1/2020	97.62	8465	5517	3981	410200	6845.0714	N/A
60	8/1/2020	97.33	8434	5635	4065	410960	6744.5714	N/A
61	8/1/2020	97.73	8517	5665	4032	410980	6773.5	N/A
62	8/1/2020	98.39	8233	5257	4211	411560	6819.8333	N/A
63	8/1/2020	99.01	8341	5805	4210	408180	6741.7857	N/A
	AVG=	76.3	8,697	5,804	4,011	16,521,400	308,551	TOTAL

EXHIBIT 3

LITHOLOGY/ FORMATION	TOP DEPTH (TVD) From Surface	BOTTOM DEPTH (TVD) From Surface	TOP DEPTH (MD) From Surface	BOTTOM DEPTH (MD) From Surface
Silty Sandstone	75	175	75	175
Siltstone	175	275	175	275
Shaly Siltstone	275	335	275	335
Silty Shale	335	555	335	555
Silty Sandstone	555	575	555	575
Shale	575	955	575	955
Shaly Sandstone	955	1,035	955	1,035
Sandstone	1,035	1,215	1,035	1,215
Sandy Shale	1,215	1,255	1,215	1,255
Shaly Siltstone	1,255	1,315	1,255	1,315
Sandstone	1,315	1,435	1,315	1,435
Shaly Sandstone	1,435	1,515	1,435	1,515
Sandy Shale	1,515	1,517	1,515	N/A
Big Lime	1,532	2,101	1,528	2,128
Fifty Foot Sandstone	2,101	2,333	2,113	2,364
Gordon	2,333	2,663	2,349	2,700
Fifth Sandstone	2,663	2,775	2,685	2,814
Bayard	2,775	3,581	2,799	3,637
Speechley	3,581	3,736	3,622	3,796
Balltown	3,736	4,259	3,781	4,332
Bradford	4,259	4,529	4,317	4,607
Benson	4,529	4,849	4,592	4,935
Alexander	4,849	5,915	4,920	6,100
Sycamore	5,778	5,885	5,939	6,070
Middlesex	5,885	5,969	6,085	6,224
Burkett	5,969	5,994	6,239	6,281
Tully	5,994	6,016	6,296	6,345
Marcellus	6,016	NA	6,345	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:	7/15/2020
Job End Date:	8/1/2020
State:	West Virginia
County:	Tyler
API Number:	47-095-02677-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	KRAMER 2H
Latitude:	39.47165000
Longitude:	-80.89796000
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,441
Total Base Water Volume (gal):	19,283,551
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
Produced Water	Halliburton	Base Fluid					
			Water	7732-18-5	100.00000	88.13382	Density = 10.00
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	100.00000	0.16514	

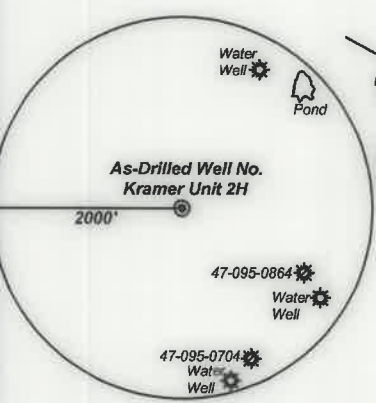
Sand-Common White-100 Mesh, SSA-2	Halliburton	Proppant							
					Listed Below				
Items above are Trade Names with the exception of Base Water. Items below are the individual ingredients.									
			Crystalline silica, quartz	14808-60-7	100.00000	11.66595			
			Hydrochloric acid	7647-01-0	30.00000	0.03359			
			Complex Amine Compound	Proprietary	60.00000	0.03357			
			Hydrotreated light petroleum distillate	64742-47-8	30.00000	0.02136			
			Complex Amine Compound	Proprietary	60.00000	0.00914			
			Guar gum	9000-30-0	100.00000	0.00629			
			Sorbitan, mono-9- octadecenoate, (Z)	1338-43-8	5.00000	0.00356			
			Surfactant	Proprietary	5.00000	0.00280			
			Glutaraldehyde	111-30-8	30.00000	0.00220			
			Polyethoxylated fatty amine salt	61791-26-2	30.00000	0.00094			
			Surfactant	Proprietary	5.00000	0.00076			
			Ethoxylated alcohols	Proprietary	5.00000	0.00057			
			Organic chloride compound	Proprietary	1.00000	0.00056			
			Alkoxylated polyhydric alcohol	Proprietary	1.00000	0.00056			
			Quaternary ammonium compounds, benzyl-C12- 16-alkyldimethyl chlorides	68424-85-1	5.00000	0.00037			
			Methanol	67-56-1	100.00000	0.00028			
			Alkoxylated polyhydric alcohol	Proprietary	1.00000	0.00015			
			Organic chlorodie compound	Proprietary	1.00000	0.00015			
			Ethoxylated alcohols	Proprietary	1.00000	0.00015			
			Ammonium persulfate	7727-54-0	100.00000	0.00013			

Antero Resources
Well No. Kramer Unit 2H
 As-Drilled
Antero Resources Corporation

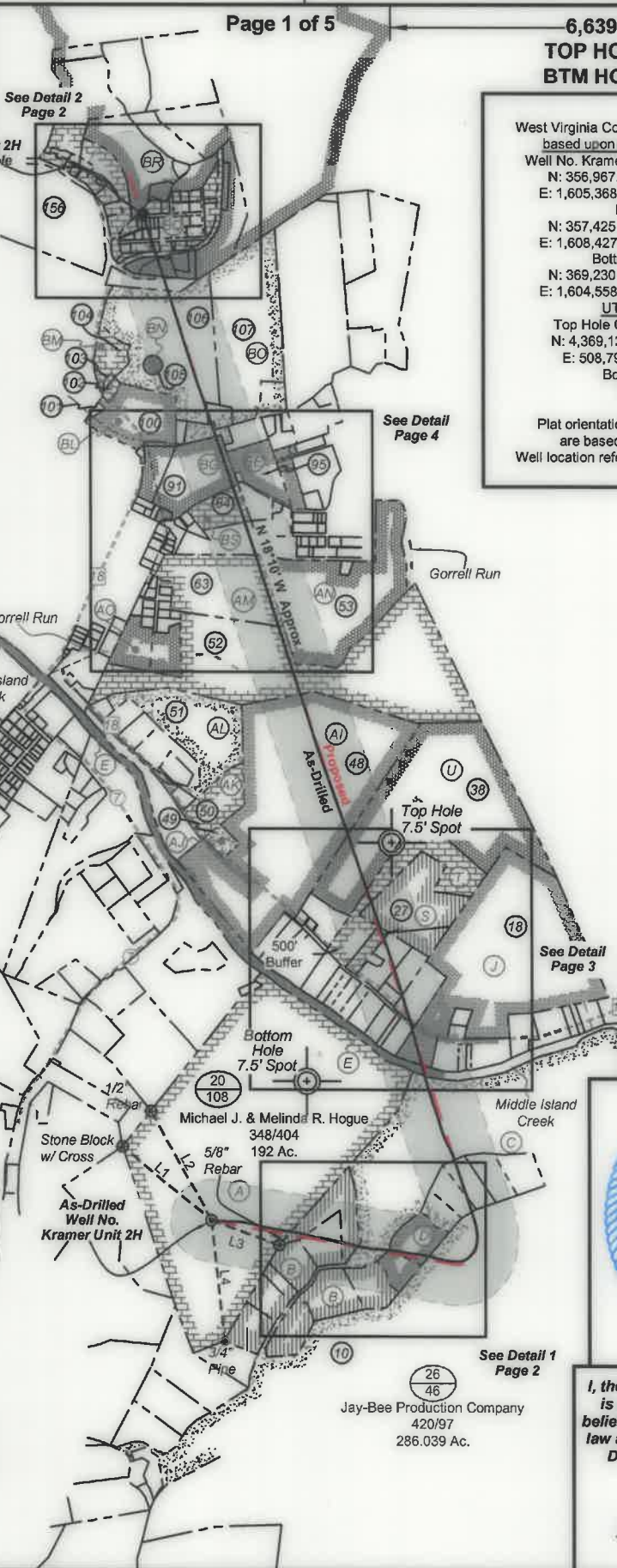


- Legend**
- Proposed gas well
 - ⊙ Monument, as noted
 - ⊙ Existing Well, as noted
 - ⊙ Existing Well, as noted
 - - - Creek or Drain
 - - - Existing Road
 - - - Surface boundary (approx.)
 - - - Interior surface tracts (approx.)
 - - - Corporation Line

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.

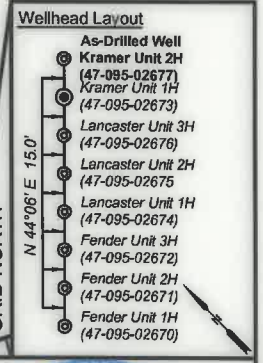


Note: 3 water wells and 1 pond were found within 2000' of proposed well. No occupied dwellings or buildings 2,500 square feet or larger used to house or shelter dairy cattle or poultry husbandry are located within 625' of the center of the well pad.



Notes:
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
 Well No. Kramer Unit 2H Top Hole coordinates are
 N: 356,967.14' Latitude: 39°28'17.96"
 E: 1,605,368.89' Longitude: 80°53'52.66"
 POE coordinates are
 N: 357,425.11' Latitude: 39°28'22.95"
 E: 1,608,427.97' Longitude: 80°53'13.74"
 Bottom Hole coordinates are
 N: 369,230.20' Latitude: 39°30'19.03"
 E: 1,604,558.66' Longitude: 80°54'05.43"
 UTM Zone 17, NAD 1983
 Top Hole Coordinates POE Coordinates
 N: 4,369,132.407m N: 4,369,287.512m
 E: 508,791.462m E: 509,721.088m
 Bottom Hole Coordinates
 N: 4,372,864.277m
 E: 508,482.268m
 Plat orientation and corner and well references are based upon the grid north meridian.
 Well location references are based upon the magnetic meridian.

	Bearing	Dist.
L1	S 50°26' E	1,405.3'
L2	S 29°03' E	1,515.9'
L3	N 70°18' W	881.3'
L4	N 06°10' W	1,483.4'



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
 Bradley D. Miller, P.S. 2167

FILE NO: 15-54-E-19
 DRAWING NO: Kramer Unit 2H As-Drilled
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: Submeter
 PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

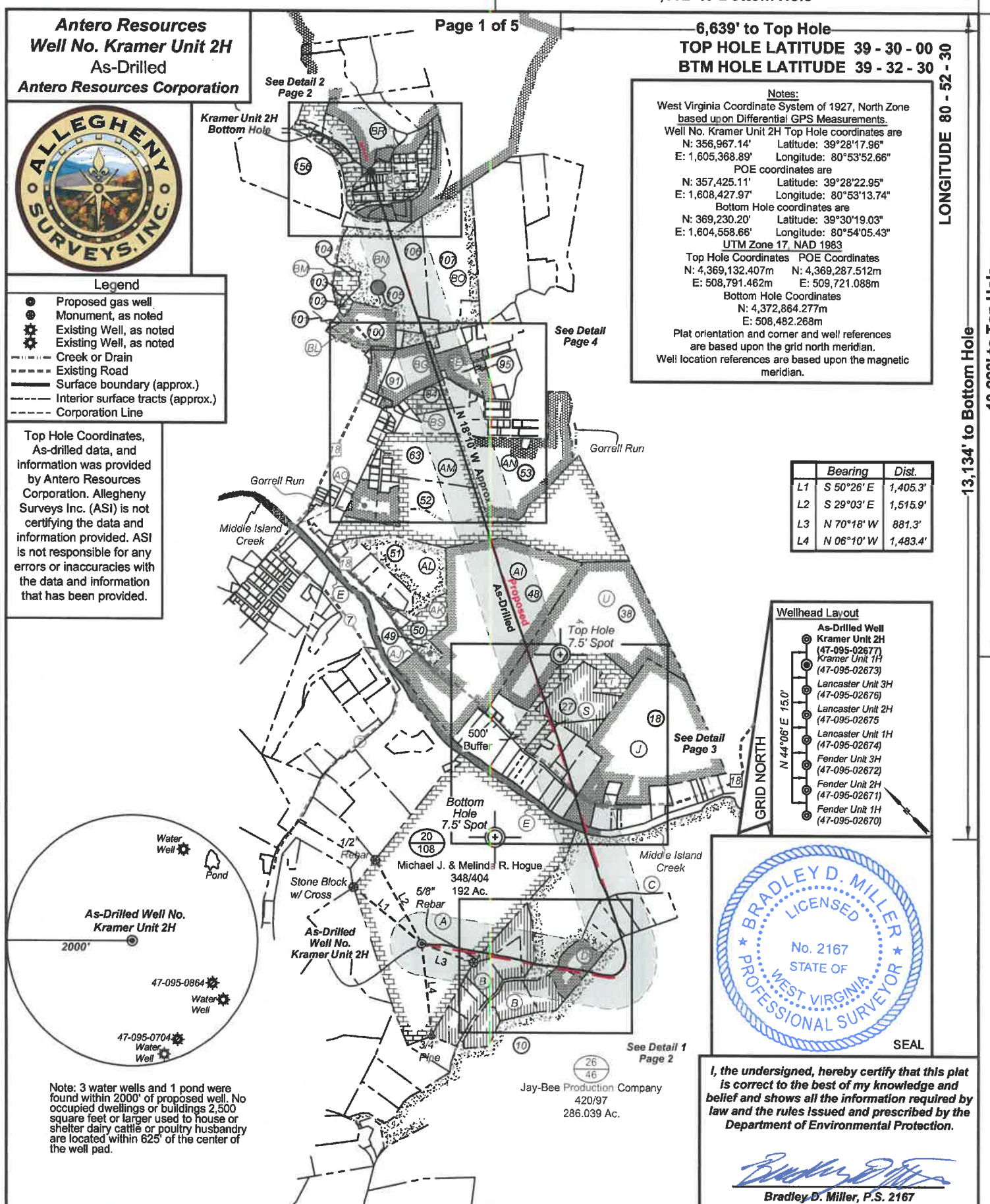
STATE OF WEST VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: December 30 2020
 OPERATOR'S WELL NO. Kramer 2H
 API WELL NO
 47 - 095 - 02677
 STATE COUNTY PERMIT

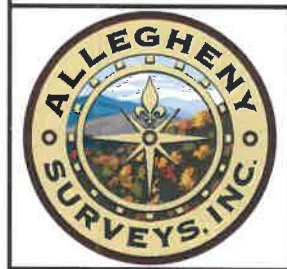
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION: ELEVATION: As-Built 1,015' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Middlebourne
 DISTRICT: Ellsworth WV Division of Natural Resources; Jessica L. Dotson; Boyd M. Parr, et ux; Town of Middlebourne; Scott Denomme, et ux (2); Nancy J. Villers; William M. Baker, et ux; Richard A. Fonner, et ux; Jerry R. Brown, et ux; Map2012-OK; Dylan Shane Murray, et ux; Lance M. Hickman; Mary A. Hickman (2); Mary Alice Hickman Estate; WV Dept. of Transportation, DCH, Norman C. Twyman; Jay-Bee Production Company 420/97 286.039 Ac.
 SURFACE OWNER: Michael J. & Melinda R. Hogue COUNTY: Tyler
 ROYALTY OWNER: Michael J. & Melinda R. Hogue; James F. Doan, et ux (2); Ridgetop Capital LP; Nancy Ann Villers; ACREAGE: 192.0
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled LEASE NO: _____ ACREAGE: _____
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 20,480' MD 6,374' TVD

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

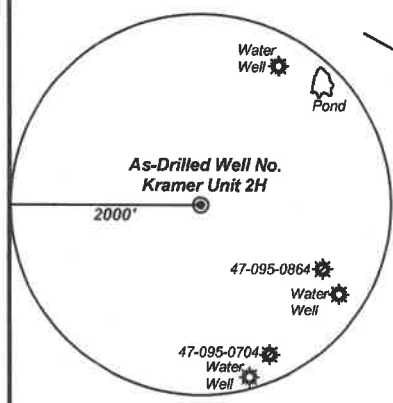


Antero Resources
Well No. Kramer Unit 2H
 As-Drilled
Antero Resources Corporation



- Legend**
- Proposed gas well
 - ⊙ Monument, as noted
 - ⊛ Existing Well, as noted
 - ⊚ Existing Well, as noted
 - Creek or Drain
 - Existing Road
 - Surface boundary (approx.)
 - Interior surface tracts (approx.)
 - Corporation Line

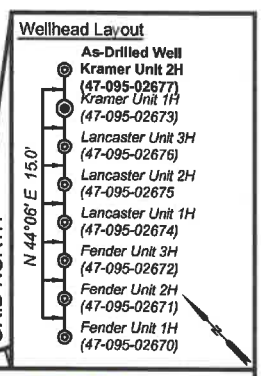
Top Hole Coordinates, As-drilled data, and information was provided by Antero Resources Corporation. Allegheny Surveys Inc. (ASI) is not certifying the data and information provided. ASI is not responsible for any errors or inaccuracies with the data and information that has been provided.



Note: 3 water wells and 1 pond were found within 2000' of proposed well. No occupied dwellings or buildings 2,500 square feet or larger used to house or shelter dairy cattle or poultry husbandry are located within 625' of the center of the well pad.

Notes:
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
 Well No. Kramer Unit 2H Top Hole coordinates are
 N: 356,967.14' Latitude: 39°28'17.96"
 E: 1,605,368.89' Longitude: 80°53'52.66"
 POE coordinates are
 N: 357,425.11' Latitude: 39°28'22.95"
 E: 1,608,427.97' Longitude: 80°53'13.74"
 Bottom Hole coordinates are
 N: 369,230.20' Latitude: 39°30'19.03"
 E: 1,604,558.66' Longitude: 80°54'05.43"
 UTM Zone 17, NAD 1983
 Top Hole Coordinates POE Coordinates
 N: 4,369,132.407m N: 4,369,287.512m
 E: 508,791.462m E: 509,721.088m
 Bottom Hole Coordinates
 N: 4,372,864.277m
 E: 508,482.268m
 Plat orientation and corner and well references are based upon the grid north meridian.
 Well location references are based upon the magnetic meridian.

Bearing	Dist.
L1 S 50°26' E	1,405.3'
L2 S 29°03' E	1,515.9'
L3 N 70°18' W	881.3'
L4 N 06°10' W	1,483.4'



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
 Bradley D. Miller, P.S. 2167

FILE NO: 15-54-E-19
 DRAWING NO: Kramer Unit 2H As-Drilled
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: Submeter
 PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV



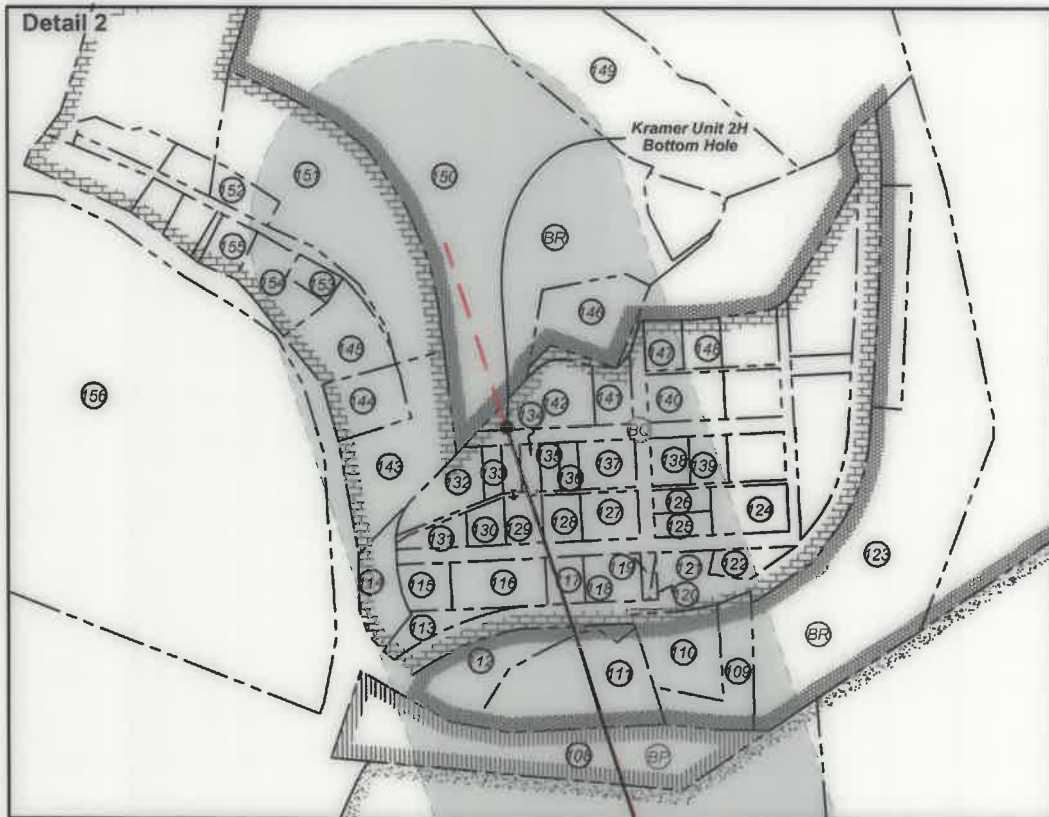
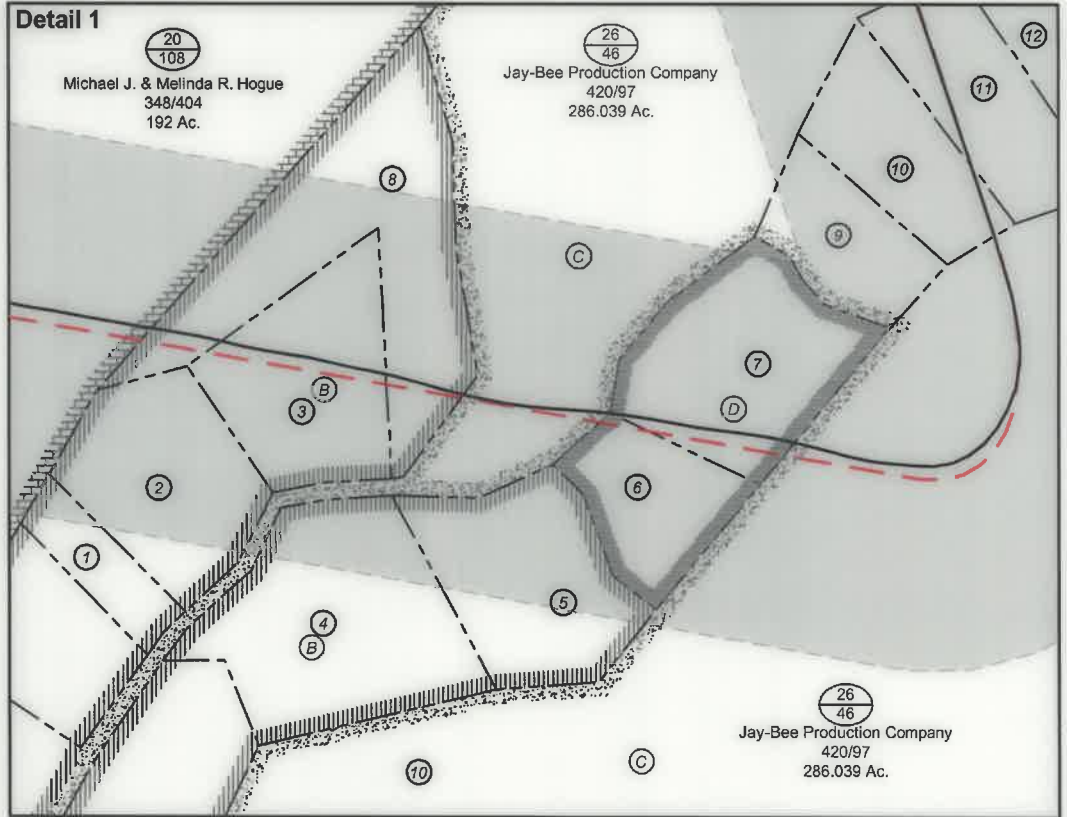
DATE: December 30 2020
 OPERATOR'S WELL NO. Kramer 2H
 API WELL NO
 47 - 095 - 02677
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built 1,015' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Middlebourne 191.5; 81.33; 310.393;
 DISTRICT: Ellsworth WV Division of Natural Resources; Jessica L. Dotson; 9.178; 67.67; 6.95084;
 SURFACE OWNER: Michael J. & Melinda R. Hogue Boyd M. Parr, et ux; Town of Middlebourne; Scott Denomme, et ux (2); Nancy J. Villers; William M. Baker, et ux; Richard A. Fomner, et ux; Jerry R. Brown, et ux; Map2012-OK; 1.58; 5.27; 5.94; 3.23;
 ROYALTY OWNER: Michael J. & Melinda R. Hogue; James F. Doan, et ux (2); Ridgetop Capital LP; Nancy Ann Villers; 19.35; 19.35; 70.9775;
 LEASE NO: ACREAGE: 192.0 19.578; 93.225; 6.85;
 2.750; 34.59654;
 28.54; 452.99125

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled 6,374' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 20,480' 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



FILE NO: 15-54-E-19
 DRAWING NO: Kramer Unit 2H As-Drilled
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY:
 Submeter
 PROVEN SOURCE OF ELEVATION:
 WVDOT, Harrisville, WV



DATE: December 30 2020
 OPERATOR'S WELL NO. Kramer 2H
 API WELL NO
 47 - 095 - 02677
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built 1,015' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Middlebourne
 DISTRICT: Ellsworth COUNTY: Tyler
 SURFACE OWNER: Michael J. & Melinda R. Hogue ACREAGE: 192.0
 ROYALTY OWNER: Michael J. & Melinda R. Hogue; James F. Doan, et ux (2); Ridgetop Capital LP; Nancy Ann Villers; LEASE NO: ACREAGE:

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: 20,480' 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

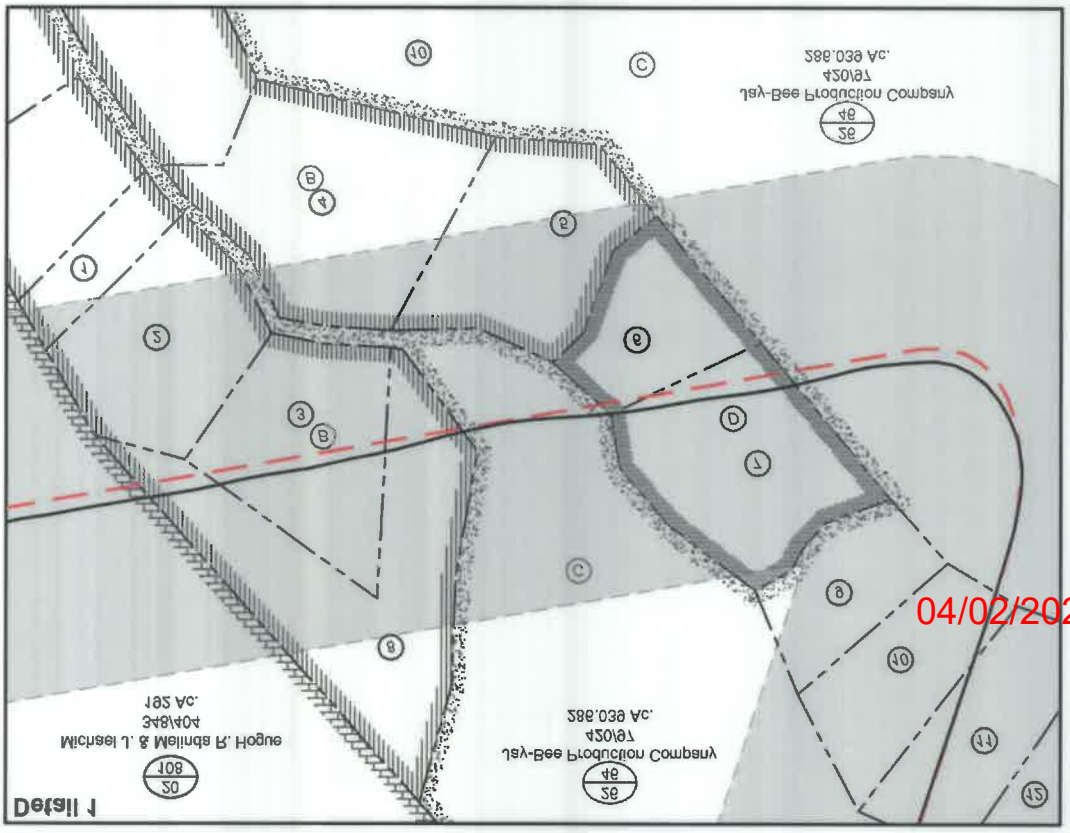
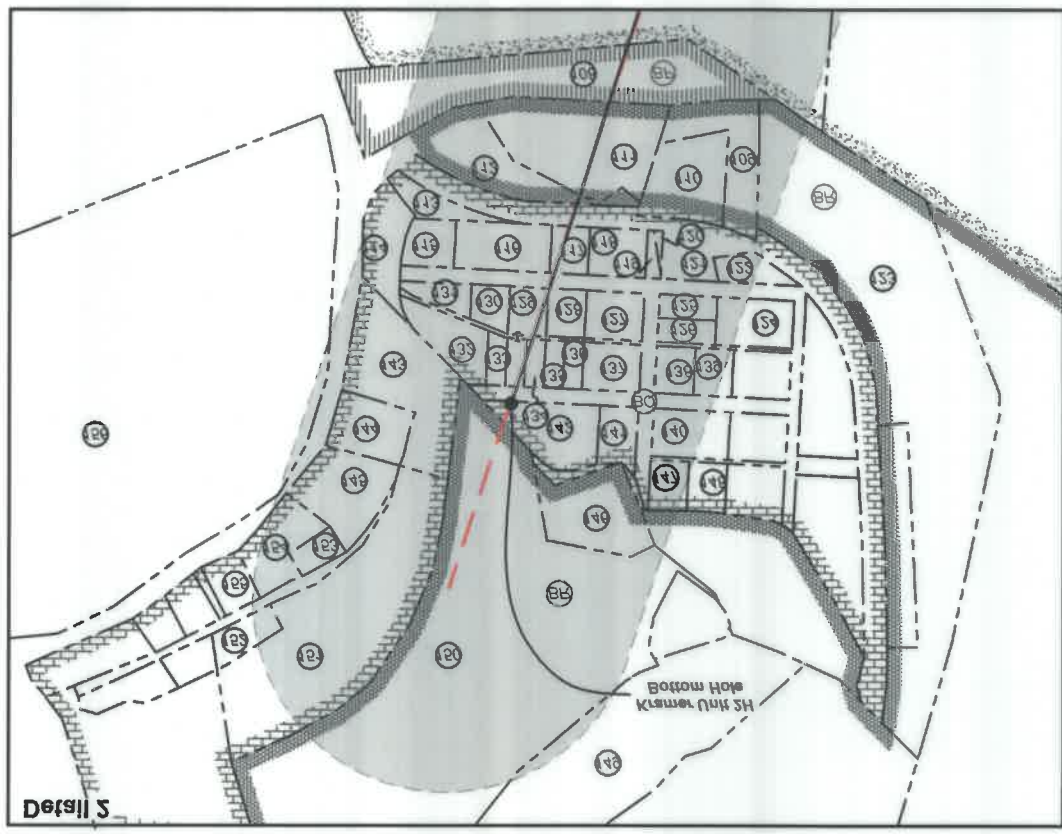
ADDRESS: Denver, CO 80305 ADDRESS: Charleston, WV 25313
 ADDRESS: 1812 Wylkooop Street ADDRESS: 2400 D Big Tyler Road
 WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Diana Zimpher - CT Corporation System

PLUG AND ABANDON CLEAN OUT AND REGRIND TARGET FORMATION: Marcelsus shale ESTIMATED DEPTH: 30'±80. MD
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PROPERTY OWNER: Michael J. & Melinda B. Hogue; James E. Dorn, et ux (S); Frederick Cepher Jr.; Nancy Ann Willetts; MA Dept. of Transportation, DOT; Norman C. Twyman; Dylan Shane Murray, et ux; Lance M. Hickman; Mary A. Hickman (S); Mary Alice Hickman Estate; William M. Baker, et ux; Richard A. Fomler, et ux; Leah B. Blom, et ux; M&B2017S-OK; Boyd M. Barr, et ux; Town of Middlebourne; Scott Pennington, et ux (S); Nancy L. Willetts; WV Division of Natural Resources; Leanne L. Dorton; LEASE NO: _____ ACREAGE: 38.24: 425.88152
 SURFACE OWNER: Michael J. & Melinda B. Hogue ACREAGE: 185.0 5.120: 34.28824;
 DISTRICT: Elizaveth COUNTY: Tyler 18.218: 83.552: 8.82;
 LOCATION: As-Built 1'012 WATERSHED: Outlet Middle Island Creek QUADRANGLE: Middlebourne 100.42: 105.33: 8.82;
 ELEVATION: _____ 18.38: 18.38: 10.8112;
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW 1.28: 2.51: 2.84: 3.33;
 WELL TYPE: OIL GAS FLUID INJECTION WASTE DISPOSAL 8.118: 8.11: 8.8804; 18.12: 8.12: 3.0.382

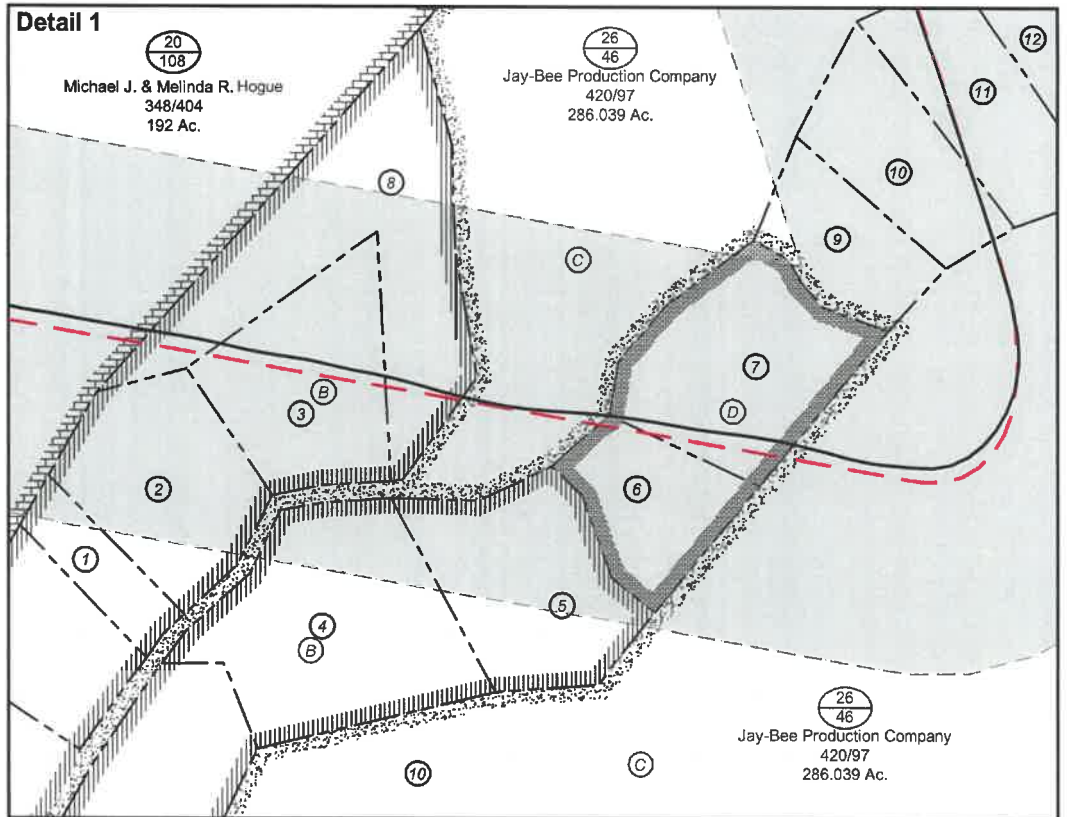
MVDOT, HAMILTON, WV
 PROVEN SOURCE OF ELEVATION:
Spotmeter
 MINIMUM DEGREE OF ACCURACY:
 SCALE: 1" = 3000'
 DRAWING NO: Kramer Unit 2H As-Drilled
 FIGE NO: 12-24-E-18



STATE: WV COUNTY: 082 PERMIT: 173277
 API WELL NO: _____
 OPERATOR'S WELL NO: Kramer 2H
 DATE: December 30 2020



04/02/2021



FILE NO: 15-54-E-19
 DRAWING NO: Kramer Unit 2H As-Drilled
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY:
 Submeter
 PROVEN SOURCE OF ELEVATION:
 WVDOT, Harrisville, WV



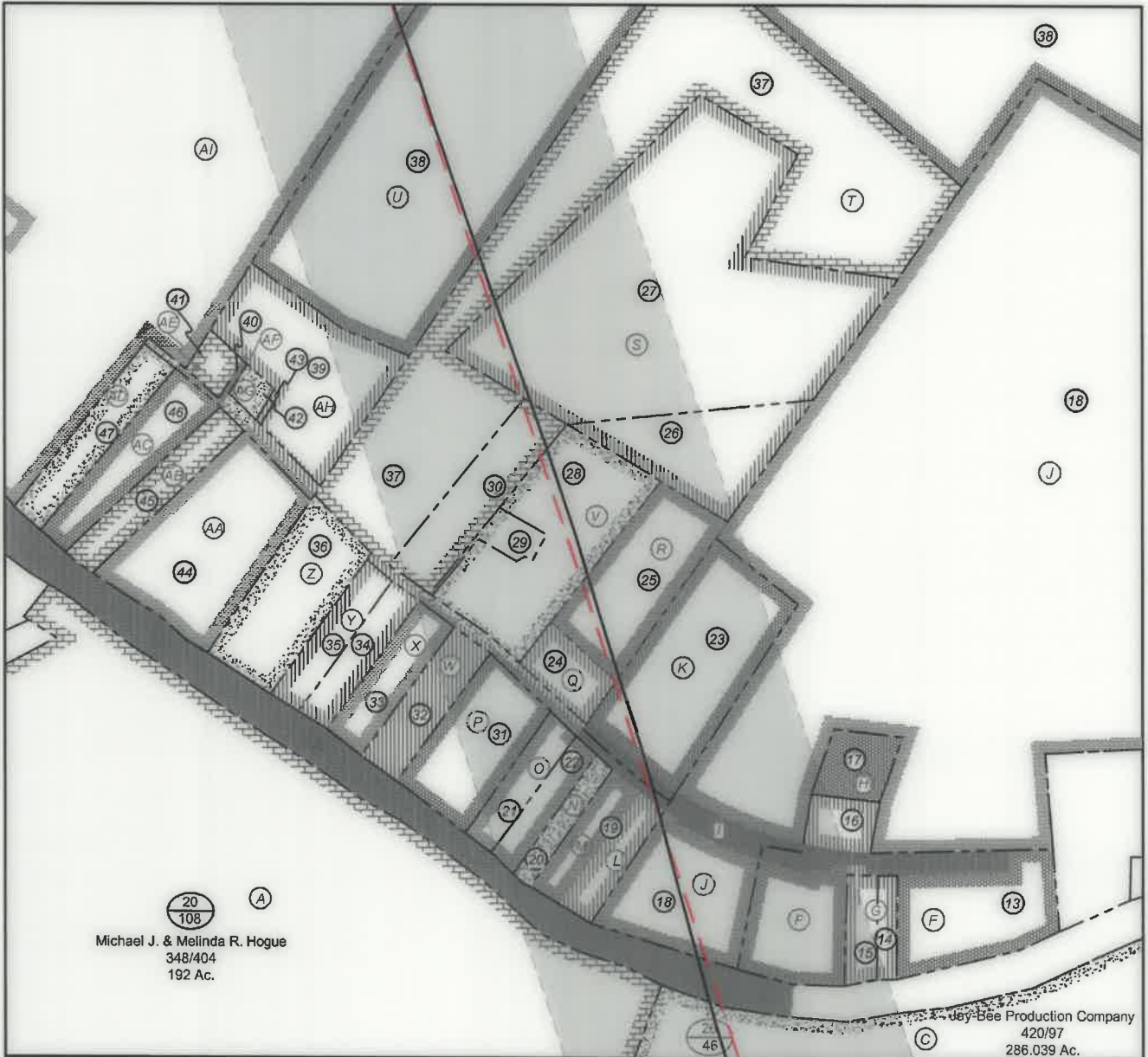
DATE: December 30 2020
 OPERATOR'S WELL NO. Kramer 2H
 API WELL NO
 47 - 095 - 02677
 STATE COUNTY PERMIT

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

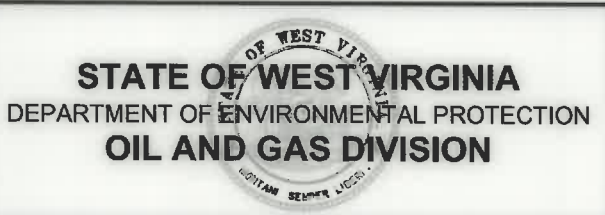
LOCATION: ELEVATION: As-Built 1,015' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Middlebourne 191.5; 81.33; 310.393;
 DISTRICT: Ellsworth WV Division of Natural Resources; Jessica L. Dotson; Boyd M. Parr, et ux; Town of Middlebourne; Scott Denomme, et ux (2); Nancy J. Villers; 9.178; 67.67; 6.95064;
 SURFACE OWNER: Michael J. & Melinda R. Hogue William M. Baker, et ux; Richard A. Fonner, et ux; Jerry R. Brown, et ux; Map2012-OK; 1.58; 5.27; 5.94; 3.23;
 ROYALTY OWNER: Michael J. & Melinda R. Hogue; James F. Doan, et ux (2); Ridgetop Capital LP; Nancy Ann Villers; Dylan Shane Murray, et ux; Lance M. Hickman; Mary A. Hickman (2); Mary Alice Hickman Estate; 19.35; 19.35; 70.9775;
 LEASE NO: _____ ACREAGE: 192.0 15.012; 65.223; 0.85;
 2.750; 34.59654;
 28.54; 452.99125

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled 6,374' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 20,480' 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



FILE NO: 15-54-E-19
 DRAWING NO: Kramer Unit 2H As-Drilled
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY:
 Submeter
 PROVEN SOURCE OF ELEVATION:
 WVDOT, Harrisville, WV



DATE: December 30 2020
 OPERATOR'S WELL NO. Kramer 2H
 API WELL NO
 47 - 095 - 02677
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built 1,015' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Middlebourne
 DISTRICT: Ellsworth COUNTY: Tyler
 SURFACE OWNER: Michael J. & Melinda R. Hogue ACREAGE: 192.0
 ROYALTY OWNER: Michael J. & Melinda R. Hogue; James F. Doan, et ux (2); Ridgeway Capital LP; Nancy Ann Villers; LEASE NO: ACREAGE: 2.750; 34.59664; 19.518; 93.225; 6.85; 28.54; 452.99125

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: 20,480' 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

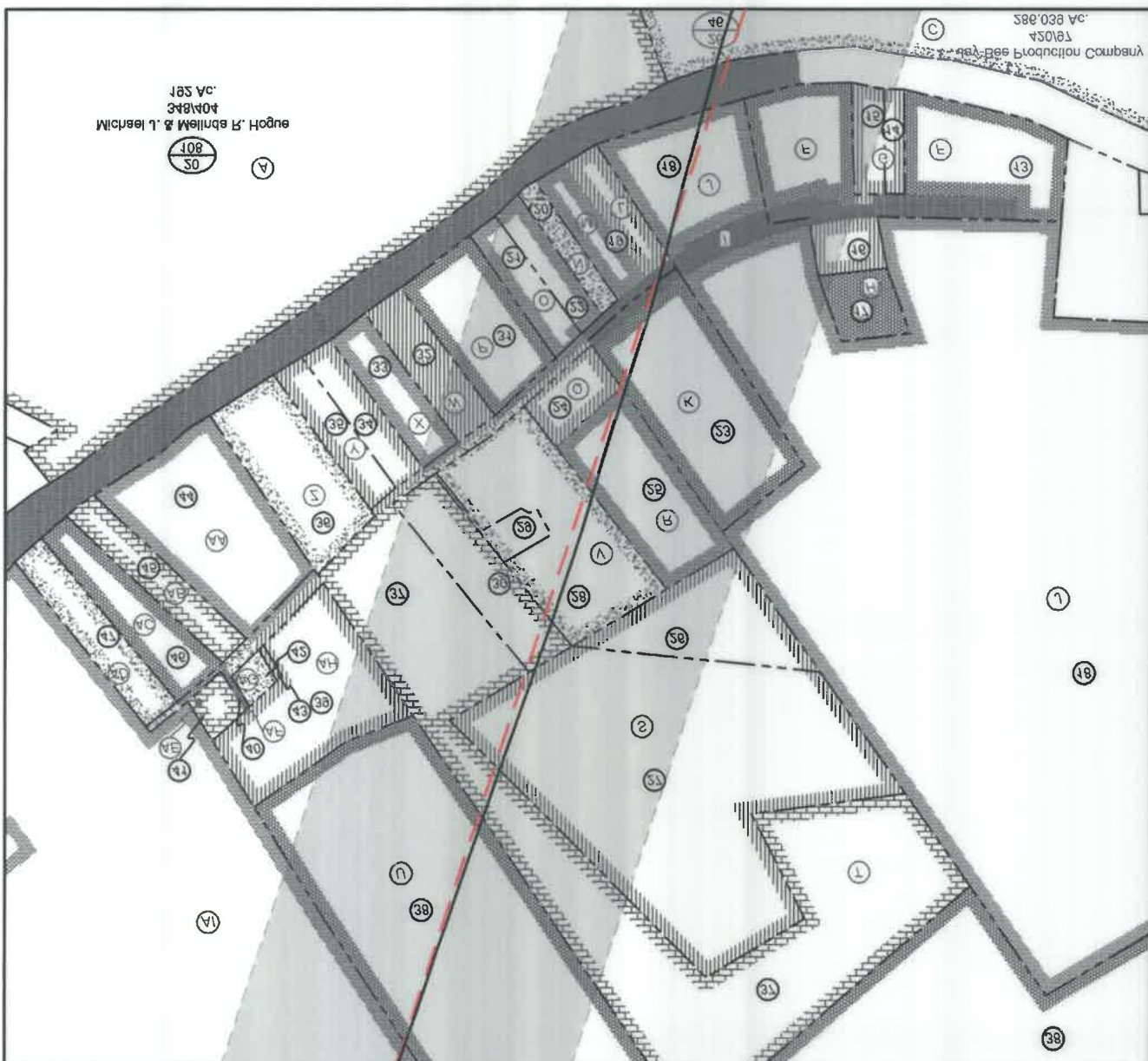
ADDRESS: Denver, CO 80305
 ADDRESS: Charleston, WV 25313
 WELL OPERATOR: Antero Resources Corporation
 DESIGNATED AGENT: Diana Stamper - CT Corporation System

PLUG AND ABANDON CLEAN OUT AND REGRIND TARGET FORMATION: Marcellus shale ESTIMATED DEPTH: 30'±80, MD
 REPERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled 0'±314, TVD
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PROPERTY OWNER: Michael L. & Melissa R. Hogue; James F. Doss; et ux (S); RidgeTop Capital LP; Nancy Ann Wilcox; MA Dept. of Transportation, DOT; Norman C. Twyman; Dyan Shane Murray; et ux; Grace M. Hickman; Mary A. Hickman; et ux (S); Mary Alice Hickman Estate; 38°24'42.5788152
 SURFACE OWNER: Michelle R. Hogue; MA Dept. of Transportation, DOT; Norman C. Twyman; Dyan Shane Murray; et ux; Grace M. Hickman; Mary A. Hickman; et ux (S); Mary Alice Hickman Estate; 38°24'42.5788152
 DISTRICT: Elsworth; MA Dept. of Transportation, DOT; Norman C. Twyman; Dyan Shane Murray; et ux; Grace M. Hickman; Mary A. Hickman; et ux (S); Mary Alice Hickman Estate; 38°24'42.5788152
 LOCATION: ELEVATION: As-Drilled 1'±0'±2, WATERSHED: Upper Middle Island Creek QUADRANGLE: Middlebourne 38°24'42.5788152
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 WELL TYPE: OIL GAS FLUID INJECTION WASTE DISPOSAL

WADOT, Hancock, WV
 PROVEN SOURCE OF ELEVATION:
 291meter
 MINIMUM DEGREE OF ACCURACY:
 SCALE: 1" = 5000,
 DRAWING NO: Kramer Unit 2H As-Drilled
 FIGE NO: 12-24-E-18

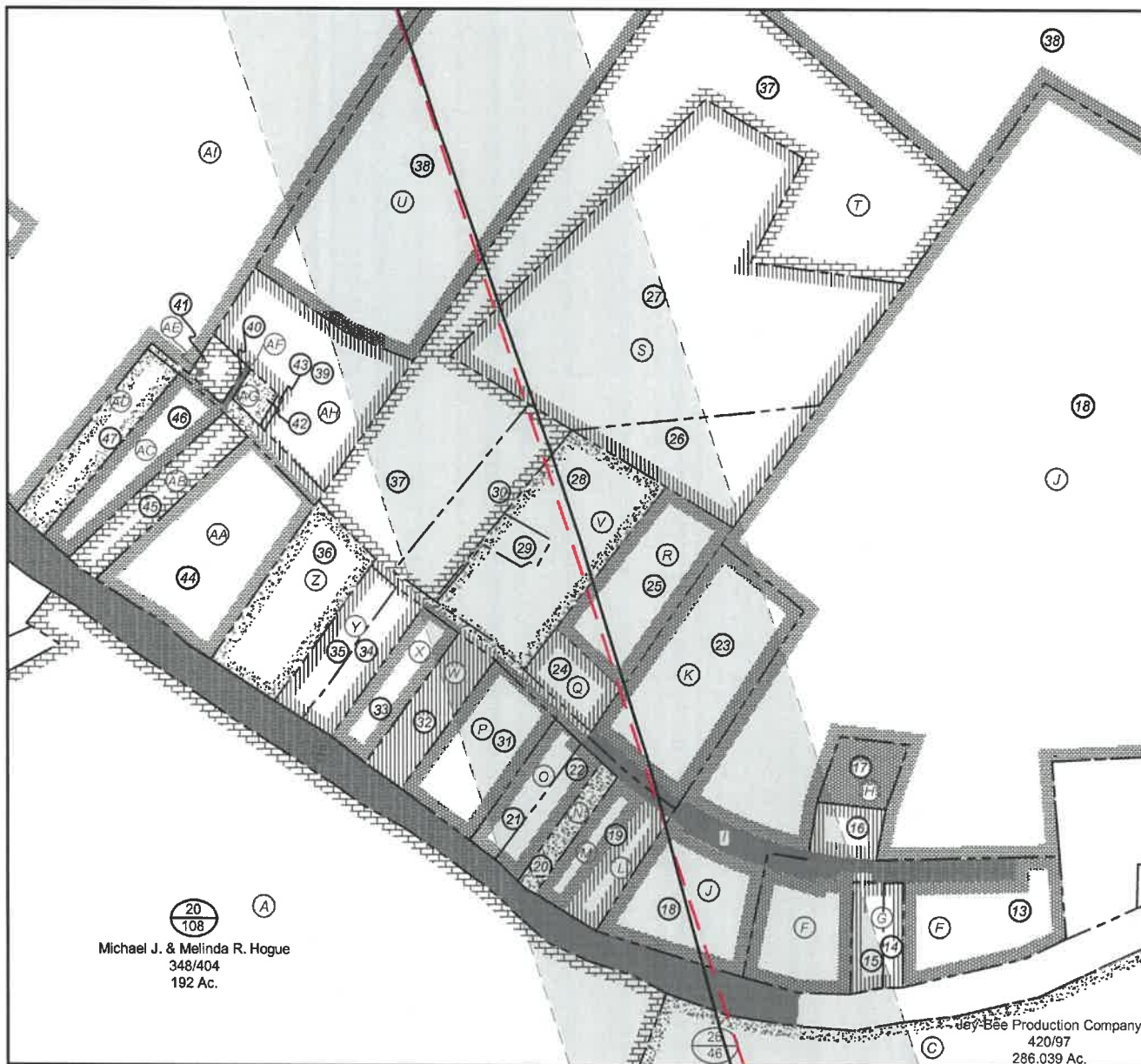


STATE	COUNTY	PERMIT
WV	082	03207
API WELL NO		
OPERATORS WELL NO:		Kramer 2H
DATE: December 30 2020		



04/02/2021

Antero Resources Corporation
 As-Drilled
 Well No. Kramer Unit 2H
 Antero Resources



FILE NO: 15-54-E-19
 DRAWING NO: Kramer Unit 2H As-Drilled
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY:
 Submeter
 PROVEN SOURCE OF ELEVATION:
 WVDOT, Harrisville, WV



DATE: December 30 2020
 OPERATOR'S WELL NO. Kramer 2H
 API WELL NO
 47 - 095 - 02677
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built 1,015' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Middlebourne 191.5; 81.33; 310.393;
 DISTRICT: Ellsworth COUNTY: Tyler 9.178; 67.67; 6.95064;
 SURFACE OWNER: Michael J. & Melinda R. Hogue ACREAGE: 192.0 1.68; 5.27; 5.94; 3.23;
 ROYALTY OWNER: Michael J. & Melinda R. Hogue; James F. Doan, et ux (2); Ridgeway Capital LP; Nancy Ann Villers; LEASE NO: ACREAGE: 19.35; 19.35; 70.9775;
 13.016; 63.226; 0.85;
 2.750; 34.59854;
 28.54; 452.99125

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled 6,374' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 20,480' 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



FILE NO: 15-54-E-19
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 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY:
 Submeter
 PROVEN SOURCE OF ELEVATION:
 WVDOT, Harrisville, WV



DATE: December 30 2020
 OPERATOR'S WELL NO. Kramer 2H
 API WELL NO
47 - 095 - 02677
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built 1,015' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Middlebourne
 DISTRICT: Ellsworth COUNTY: Tyler
 SURFACE OWNER: Michael J. & Melinda R. Hogue ACREAGE: 192.0
 ROYALTY OWNER: Michael J. & Melinda R. Hogue; James F. Doan, et ux (2); Ridgetop Capital LP; Nancy Ann Villers; LEASE NO: _____ ACREAGE: _____
 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: 20,480' 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

191.5; 81.33; 310.393;
 9.178; 67.67; 6.95064;
 1.58; 5.27; 5.94; 3.23;
 19.35; 19.35; 70.0775;
 19.518; 93.225; 6.85;
 2.750; 34.59654;
 28.54; 452.99125

ADDRESS: Denver, CO 80505
 ADDRESS: Charleston, WV 25313
 WELL OPERATOR: Antero Resources Corporation
 DESIGNATED AGENT: Diana Stimpert - CT Corporation System

PLUG AND ABANDON CLEAN OUT AND REGRIND TARGET FORMATION: Marcellus shale ESTIMATED DEPTH: 30,480. MD
 REPERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PROPERTY OWNER: Michael L. & Melissa R. Hogue; James E. Doss; et ux (S); Gregory Capitel; G. Nancy Ann Wilcox; MA Dept. of Transportation; DON; Norman C. Wilman;
 SURFACE OWNER: Michael R. Hogue; MA Dept. of Transportation; DON; Norman C. Wilman;
 DISTRICT: Elsworth; William Shane Minner; et ux; Lance M. Hickman; Mary A. Hickman (S); Mary Alice Hickman Estate;
 LOCATION: ELEVATION: As-Drilled; WATERSHED: Outlet Middle Island Creek; QUADRANGLE: Middlebourne; Boyd M. Felt; et ux; Town of Middlebourne; Scott Denominational; et ux (S); Nancy L. Wilcox;
 WV Division of Natural Resources; Leesa L. Doss;

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

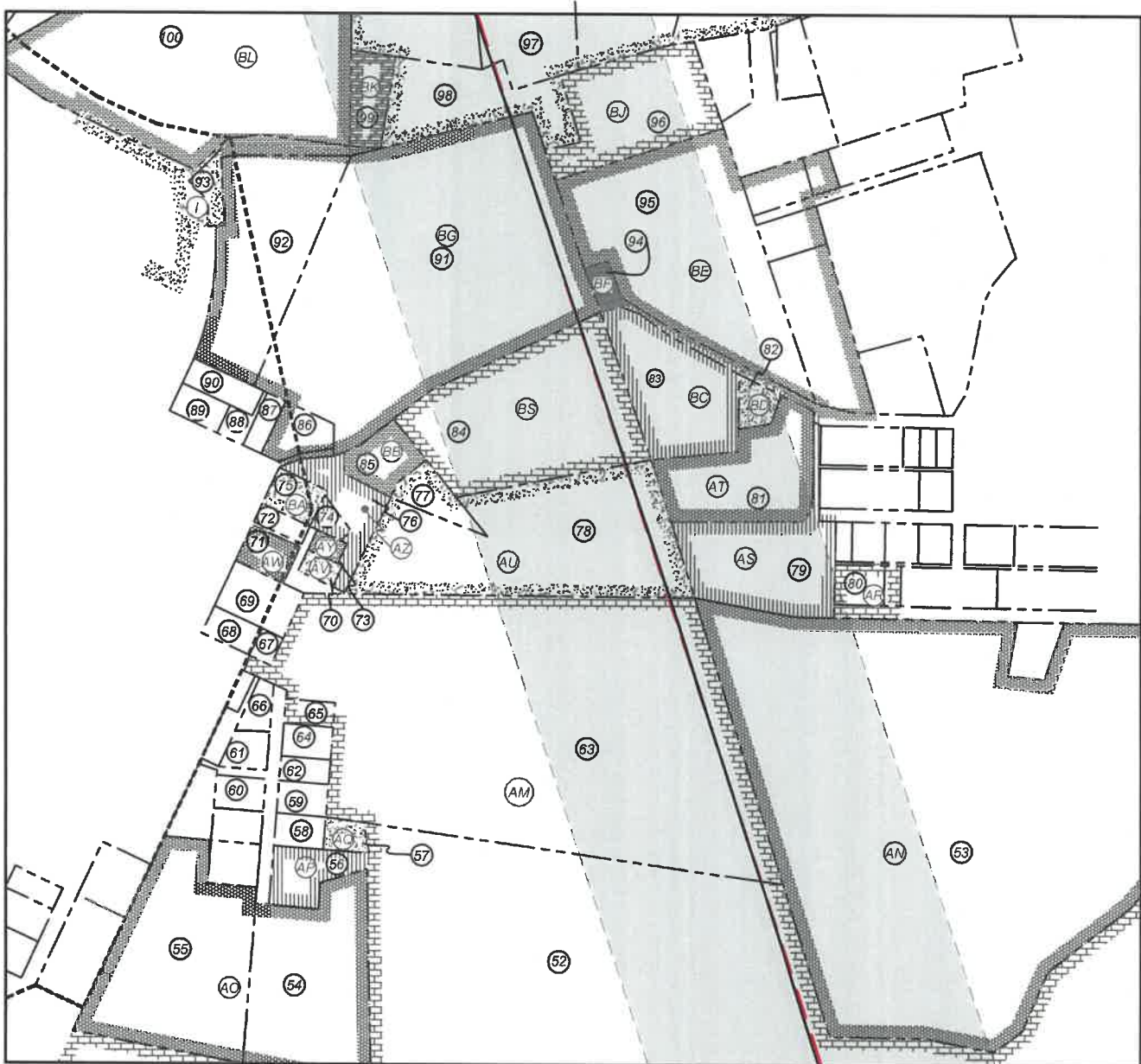
MVDOT, Hampshire, WV
 PROVEN SOURCE OF ELEVATION:
 2upmeter
 MINIMUM DEGREE OF ACCURACY:
 SCALE: 1" = 3000.
 DRAWING NO: Kramer Unit 2H As-Drilled
 FILE NO: 18-E-24-21



STATE: WV COUNTY: Boone PERMIT: 170207
 API WELL NO:
 OPERATORS WELL NO: Kramer 2H
 DATE: December 30 2020



04/02/2021



FILE NO: 15-54-E-19
 DRAWING NO: Kramer Unit 2H As-Drilled
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY:
 Submeter
 PROVEN SOURCE OF ELEVATION:
 WVDOT, Harrisville, WV



DATE: December 30 2020
 OPERATOR'S WELL NO. Kramer 2H
 API WELL NO
 47 - 095 - 02677
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built 1,015' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Middlebourne 191.5; 81.33; 310.393;
 DISTRICT: Ellsworth COUNTY: Tyler 9.178; 67.67; 6.95064;
 SURFACE OWNER: Michael J. & Melinda R. Hogue 1.58; 5.27; 5.94; 3.23;
 ROYALTY OWNER: Michael J. & Melinda R. Hogue; James F. Doan, et ux (2); Ridgetop Capital LP; Nancy Ann Villers; 19.35; 19.35; 70.9775;
 LEASE NO: _____ ACREAGE: 192.0 19.35; 19.35; 70.9775;
 ACRES: 2.750; 34.59654;
 28.54; 452.99125

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled 6,374' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 20,480' 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

Antero Resources
Well No. Kramer Unit 2H
As-Drilled
Antero Resources Corporation

Leases	
A	Michael J. & Melinda R. Hogue
B	James F. Doan, et ux
C	Ridgetop Capital LP
D	James F. Doan, et ux
E	WV Division of Natural Resources
F	James S. Suter
G	James S. Suter
H	Jeff T. Hoover
I	WV Dept. of Transportation, DOH
J	Nancy Ann Villers
K	Mary Alice Hickman Estate
L	Nancy J. Villers
M	James S. Suter, et ux
N	Steven L. Conrad, et ux
O	Kendra K. Cottrell Wyke
P	Stephen D. Ashley, et ux
Q	Randy Murray, et ux
R	Dylan Shane Murray, et ux
S	Lance M. Hickman
T	Mary A. Hickman
U	Mary A. Hickman
V	Norman C. Twyman
W	Ricky W. Morris, et ux
X	Barbara K. Davis
Y	John T. Burr, et ux
Z	Perry L. Weekley, et ux
AA	Nina Naomi Wise
AB	Jerry Todd Williams
AC	Barbara J. Davis
AD	William M. Baker, et ux
AE	Rosalee J. Forrester
AF	Rosalee J. Forrester
AG	Rosalee J. Forrester
AH	Robert J. Kocher
AI	William M. Baker, et ux
AJ	Bradley Baker
AK	Ciara Jane Glover
AL	Brian D. Carpenter, et ux
AM	Richard A. Fonner, et ux
AN	Connie L. Hickman
AO	Michael A. Lenz, et ux
AP	Jeffery D. McKinney
AQ	Homer L. Matthews
AR	Michael Hickman, et ux
AS	Marvin Gene Franklin
AT	Tommy L. Williams
AU	Jerry R. Brown, et ux
AV	Jerry R. Brown
AW	Jerry R. Brown
AY	Karen S. Hunt
AZ	Grace M. Stackpole
BA	Charles R. Wince, et ux
BB	Ryan L. Walton, et ux
BC	Bradley R. Crawford, et ux
BD	Gary M. Patterson, et ux
BE	Brian K. Doak, et ux
BF	Thomas Jack Carpenter
BG	Map2012-OK
BJ	Roger Carl Ferrell
BK	Rose E. White
BL	Middlebourne Cemetery Association
BM	REOP, LLC
BN	Town of Middlebourne
BO	Boyd M. Parr, et ux
BP	Town of Middlebourne
BQ	Scott Denomme
BR	Scott Denomme
BS	Jessica L. Dotson

ID	TM/Par	Owner	BK/Pg	Acres
1	26-46.6	Camille Patera	296/247	1.702
2	26-46.9	Eugene B. Jr. & Carol A. Johnson	351/80	5.00
3	26-46.2	Robert E. Lee II & Chasity L. Pittman	408/122	5.14
4	26-46.7	Camille Patera	296/247	7.32
5	26-46.3	Timothy Kanz	440/24	5.40
6	26-46.12	Charles R. & Bertha A. Holliday	308/665	3.24
7	26-46.13	Charles R. & Bertha A. Holliday	308/665	5.94
8	26-46.14	Jay-Bee Production Company	420/97	8.69
9	26-46.22	Eugene B. Johnson, Sr., et ux	351/247	2.92
10	26-46.23	Eugene B. Johnson, Sr., et ux	351/247	3.60
11	26-46.17	Kelley C. & Kathleen J. Ririck Bamm	AR46/11	4.32
12	26-46.18	Kelley C. & Kathleen J. Ririck Bamm	AR46/11	4.11
13	20-65.1	James S. & Ghislaine S. Suter	273/557	1.58
14	21-63	James S. & Ghislaine S. Suter	229/658	0.44
15	20-82	James S. & Ghislaine S. Suter	211/449	0.70
16	20-62.1	James S. & Ghislaine S. Suter	287/509	0.83
17	20-66	Jeff T. Hoover	313/120	1.00
18	20-62	Nancy Villers & Sara Fay Eskew	WB44/59	67.67
19	20-65.1	James S & Ghislaine Suter	273/557	1.58
20	20-79	Tamara Wilcox & Steven L. Conrad	361/205	0.68
21	20-77	Joseph C. Snyder Jr.	397/838	1.27
22	20-78	Joseph C. Snyder Jr.	397/838	0.85
23	20-65	Kathy Sue Archer	336/138	6.85
24	20-64	Randy Murray & Julia A. Murray	WB37/37	0.99
25	20-64.1	Dylan Shane Murray	385/472	3.23
26	20-56.2	Lance M. & Tina R. Hickman	438/814	2.95
27	20-56.1	Lance M Hickman	393/85	16.405
28	20/63	Kimberly & George Eidel	353/298	4.78
29	20/63.1	Mary A. Hickman	WB37/37	0.49
30	20/61	Mark Duane Hickman, et al	WB54/1	2.22
31	20/76	Stephen D. & Brenda J. Ashley	211/429	2.74
32	20/75	Ricky J. & Sharon S. Morris	285/17	1.47
33	20/74	Barbara K. Davis	AR43/791	1.46
34	20/73	John T & Catherine L. Burr	378/27	1.11
35	20/72	John T & Catherine L. Burr	378/27	1.13
36	20/71	Perry L. & Jackie L. Weekley	370/145	4.00
37	20-56	Mary Alice Hickman	152/16	14.96
38	20-55	Mary Alice Hickman	AR36/289	71.34
39	20/59	Robert Kocher	358/343	4.19
40	20/59.1	Robert R & Rosalee J Forrester	335/826	0.05
41	20/58	Robert R. & Rosalee J. Forrester	321/129	0.46
42	20/60	Robert R. & Rosalee J. Forrester	321/129	0.38
43	20/60.1	Robert Kocher	358/343	3.95
44	20/70	Nina Wise	WB25/700	3.91
45	20/69	Jerry, Michelle, & Justin Williams	440/471	1.50
46	20/68	Barbara J. Davis	WB30/31	2.10
47	20-67	William M. & Janet S. Baker	175/391	2.09
48	20-54	William M. & Janet S. Baker	175/391	100.45
49	20/54.1	Bradley Baker	355/823	2.00
50	20/53	Ciara Negie	344/51	8.00
51	20/51.6	Brian & Sarah Carpenter	342/467	24.92
52	20-33	Lance M. & Tina R. Hickman	396/561	77.84
53	20-10	Connie L. Hickman, et al	341/209	41.00
54	20/23	Michael & Chris Lenz	313/216	4.60
55	20/23.1	Michael & Chris Lenz	323/732	5.52
56	20/25	Marshal McKinney	208/650	0.92
57	20/33.2	Homer Matthews	284/375	0.28
58	20/32	Homer Lee Matthews	176/216	0.34
59	20/31	Larry & Barbara Lee	211/179	0.34
60	20/21	Nancy Mercer	WB32/42	0.34
61	20/27	Earl P. & Crucita Kendle	331/341	0.32
62	20/29.1	James Bembry	331/43	0.25
63	20/33.3	Richard Fonner	415/796	18.5
64	20/29	Maurine Hadley	167/69	0.34
65	20/30	Donald & Susan Smith	321/165	0.26
66	20/28	Victor & Lorraine Weekley	280/422	0.23
67	20/20	Melinda Sue George	351/520	0.14
68	4-38	Michael K. Smith, et ux	377/179	0.07
69	4-39	Diana Lynn Slider	250/397	0.79
70	20-19	Jerry R. Brown	222/177	0.18
71	4-41	Jerry R. Brown	WB26/707	0.42
72	4-42	Donald K. Baker, et ux	532/595	0.20
73	20-18	Donald K. Baker, et ux	532/595	0.11
74	20-5.1	Charles R. & Martha J. Wince	359/22	0.18
75	4-43	Charles R. & Martha J. Wince	353/228	0.44
76	20-5	Grace M. Stackpole	373/11	0.88
77	20-7	Jerry & Jacqueline Brown	340/217	0.62
78	20-33.1	Jerry & Jacqueline Brown	340/215	8.00

ID	TM/Par	Owner	BK/Pg	Acres
79	20-9	Marvin Gene Franklin	WB57/256	2.77
80	20B-29	Connie Lee & Michael D. Hickman	251/264	0.41
81	14-67	Tommy L. & Carolyn Williams	169/472	3.00
82	14-67.1	Gary M. & Amber D. Patterson	538/721	0.35
83	14-66	Bradley R. & Frances K. Crawford	206/698	2.70
84	20-8	Jessica L. Dotson, et al	359/277	5.94
85	20-6	Ryan L. & Melinda J. Walton	388/217	0.68
86	2-38	Patsy Fletcher	WB35/614	0.66
87	2-37	Sadie T. Weekley Irrevocable Trust	373/542	0.26
88	2-33	Scott A. Holmes	424/396	0.12
89	2-32	Scott A. Holmes	326/679	0.34
90	2-34	Janice E. Licht	321/477	0.51
91	14-62	Patsy Fletcher	WB35/614	14.50
92	2-35	Patsy Fletcher	WB35/614	4.25
93	2-36	WV Dept. of Highways	—/—	0.30
94	14-63	Wells Cemetery	67/69	0.21
95	14-65	Brian Kim & Pamela J. Doak	309/491	7.11
96	14-64	Boyd M. & Patricia L. Parr	181/549	3.04
97	14-55	Boyd M. & Patricia L. Parr	214/725	0.70
98	14-54	Boyd M. & Patricia L. Parr	164/170	2.30
99	14-53	Rose E. White	284/317	0.69
100	14-52	Middlebourne Cemetery Association	144/234	12.36
101	2-47	Witschey's Market Inc.	290/93	0.42
102	14-50	Barry Harter	WB38/84	0.80
103	14-51.1	Barry Harter	WB38/84	0.27
104	14-51	Barry Harter	590/288	4.66
105	14-90	Town of Middlebourne	222/301	1.00
106	14-51	Boyd M. & Patricia L. Parr	222/349	47.29
107	14-56.1	Boyd M. & Patricia L. Parr	358/643	35.33
108	14-91	Town of Middlebourne	377/87	2.32
109	14A-29.4	David B. Shriver	463/753	1.00
110	14A-29.2	Ren Realty DBA David Shriver	337/105A	1.00
111	14A-29.3	David B. Shriver	456/435	1.75
112	14A-29	Victor A & Lorraine Weekley	299/300	13.00
113	14A-22	Julia A. Smith	98/92	0.25
114	14A-21.1	Unknown	—/—	0.60
115	14A-21	Jack L. & Donna Lea Boggs	233/536	0.29
116	14A-24	Diane Lynn Glover	386/430	0.72
117	14A-26	Robert Wells	336/696	0.28
118	14A-27	Long Reach Employees Federal Credit Union	328/140	0.43
119	14A-27.1	Long Reach Employees Federal Credit Union	328/140	0.11
120	14A-27.2	Sharon Stackpole & Tabatha Welch	349/660	0.03
121	14A-28	Sharon Stackpole & Tabatha Welch	349/660	0.337
122	14A-28.1	Conrad E. Costlow	330/925	0.28
123	14A-29	Victor A & Lorraine Weekley	299/300	13.00
124	14A-30	Conrad E. Costlow	330/923	0.57
125	14A-31	Brian & Lisa Wiley	318/360	0.29
126	14A-32	Brian & Lisa Wiley	306/297	0.22
127	14A-17	Robert P. Wells	339/668	0.72
128	14A-17.1	Robert P. Wells	347/733	0.29
129	14A-18	David L. Misty J. Stoller	383/222	0.43
130	14A-19	Raymond E. & Eva June Brightwell	304/380	0.25
131	14A-20	Jack L. & Donna Lea Boggs	231/725	0.30
132	14A-19.1	Raymond E. & Eva June Brightwell	304/380	0.19
133	14A-19.2	Raymond E. & Eva June Brightwell	336/522	0.13
134	14A-15	Douglas Carson	379/507	0.14
135	14A-16.1	Douglas Carson	379/507	0.14
136	14A-16	Allen E. Jr & Rebecca A. Henderson	346/579	0.14
137	14A-16.2	Allen E. Jr & Rebecca A. Henderson	346/579	0.43
138	14A-33	Michael J. & Christine H. Farhatt	331/376	0.29
139	14A-34	Michael J. & Christine H. Farhatt	331/376	0.29
140	14A-40	Ray N. & Gladys R. Gorrell	WB32/38	0.57
141	14A-44	Rebecca Ann Henderson	351/836	0.31
142	14A-45	Rebecca Ann Henderson	351/836	0.71
143	14A-13	David R. & Korey Helen Wilcox	420/722	1.12
144	14A-12	Lloyd E. & Donna A. Sheperd	321/106	0.64
145	14A-11	Robert D. Wetzel	402/591	1.19
146	14A-43	Rebecca J. Ruble	306/293	1.11
147	14A-42	Dominic Yost	426/605	0.28
148	14A-41	Phillip R. & Dorothy M. Wilcox	286/307	0.28
149	14-22	Sherry Carroll	294/535	5.02
150	14-21	Arnold L. & Melba J. Templeton	346/507	14.95
151	14A-3	Sandra Sue Snider	317/325	6.00
152	14A-4	Sandra S Snider	267/10	0.26
153	14A-10	Richard Daniel & Judith Ann Bowen	349/296	0.19
154	14A-9	Richard Daniel & Judith Ann Bowen	371/429	1.46
155	14A-8	Glenn & Starlen Hissam	343/801	0.33
156	14-42	Anne L. Spencer	273/368	33.00

FILE NO: 15-54-E-19
 DRAWING NO: Kramer Unit 2H As-Drilled
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY:
 Submeter
 PROVEN SOURCE OF ELEVATION:
 WVDOT, Harrisville, WV



DATE: December 30 2020
 OPERATOR'S WELL NO. Kramer 2H
 API WELL NO
 47 - 095 - 02677
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built 1,015' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Middlebourne
 DISTRICT: Ellsworth COUNTY: Tyler
 SURFACE OWNER: Michael J. & Melinda R. Hogue ACREAGE: 192.0
 ROYALTY OWNER: Michael J. & Melinda R. Hogue; James F. Doan, et ux (2); Ridgetop Capital LP; Nancy Ann Villers; LEASE NO: _____ ACREAGE: _____

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled 6,374' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 20,480' 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

ADDRESS: 1812 WYLANOOR STREET
 MEGG OPERATOR: Antero Resources Corporation
 ADDRESS: 2400 D Big Tyler Road
 DESIGNATED AGENT: Diana Szamber - CT Corporation System

BURN AND ABANDON CLEAN OUT AND BURN TARGET FORMATION: Marcellus shale ESTIMATED DEPTH: 50'480, MD
 REEVALUATE WELB FORMATION OTHER PHYSICAL CHANGE IN WELB (SPECIFY) As-Drilled
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE BURN OFF OLD FORMATION
 PROPOSER: Michael J. & Melinda R. Hogue
 SUBFACE OWNER: Melinda R. Hogue
 DISTRICT: Ellsworth
 LOCATION: ELEVATION: As-Built 1012, WATERBESHED: Upper Middle Island Creek, QUADRANGLE: Middleport

(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 WELB TYPE: OIL GAS FLUID INJECTION WASTE DISPOSAL

MWDOT: HANSHVILLE, WA
 PROVEN SOURCE OF ELEVATION: Szamber
 MINIMUM DEGREE OF ACCURACY:
 SCALE: 1" = 5000,
 DRAWING NO: KRAMER UNIT 2H AS-Drilled
 FILE NO: 12-24-E-18



STATE: WV COUNTY: Mingo PERMIT: 12521
 API WELB NO:
 OPERATOR'S WELB NO: KRAMER 2H
 DATE: December 30 2020

B2 JESSICA L. DOBSON
 B3 SCOTT DENOMME
 B4 SCOTT DENOMME
 B5 TOWN OF MIDDLEPORT
 B6 BOB W. BELL ET AL
 B7 TOWN OF MIDDLEPORT
 B8 MICHAEL J. & MELINDA R. HOGUE
 B9 MIDDLEPORT CAMBERLY ASSOCIATION
 B10 ROSE E. MUIRE
 B11 KAREN C. HAYES
 B12 MARYS OK
 B13 THOMAS JACK CARBONELL
 B14 BRYAN K. DOOK ET AL
 B15 GARY L. BERTHOUD ET AL
 B16 BRADLEY K. CRAWFORD ET AL
 B17 KYLE G. MANTON ET AL
 B18 CHARLES R. MURPHY ET AL
 B19 GLENN M. STICKNEY
 B20 KAREN S. HUNT
 B21 TERRY L. BLOOM
 B22 TERRY L. BLOOM
 B23 TERRY L. BLOOM ET AL
 B24 TOWN OF MIDDLEPORT
 B25 MARYS OK
 B26 MICHAEL J. HICKMAN
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 B99 MICHAEL J. HICKMAN
 B00 MICHAEL J. HICKMAN

18	50-32-1	TERRY L. BLOOM	3401512	0'00
19	50-1	TERRY L. BLOOM	3401511	0'05
20	50-2	GLENN M. STICKNEY	3331111	0'08
21	4-43	CHARLES R. MURPHY & MARYS OK	3231558	0'44
22	50-2-1	CHARLES R. MURPHY & MARYS OK	3231555	0'48
23	50-18	DOUGLAS K. BAKER ET AL	2351282	0'11
24	4-45	DOUGLAS K. BAKER ET AL	2351282	0'50
25	4-41	TERRY L. BLOOM	MBS2111	0'45
26	50-18	TERRY L. BLOOM	3351111	0'18
27	4-38	DIANE LYNN GIBBS	5201381	0'38
28	4-38	MICHAEL J. SHIFFER ET AL	3111118	0'01
29	50150	MELINDA R. HOGUE	3211250	0'14
30	50158	LICIA A. GOSLING MCKEY	5201455	0'53
31	50150	DOUGLAS S. ZIMMER	3511182	0'52
32	50158	MELINDA R. HOGUE	121100	0'34
33	50137	MICHAEL J. HICKMAN	4121188	18'2
34	50158-1	JAMES BENTLEY	331143	0'52
35	50151	EVA L. & CLAUDE KENNEDY	3211241	0'35
36	50151	MARYS OK	MBS21454	0'34
37	50151	TERRY L. BLOOM	5111118	0'34
38	50135	HOMER GEE MARYS OK	1201518	0'34
39	50132	HOMER MARYS OK	5241312	0'58
40	50132	MARYS OK	5081820	0'85
41	50132-1	MICHAEL J. SHIFFER	3531135	2'25
42	50132	MICHAEL J. SHIFFER & CHARLES	3131518	4'00
43	50-10	CONNIE GEE HICKMAN ET AL	3411508	41'00
44	50-32	CHARLES R. MURPHY & MARYS OK	3231558	11'24
45	50121-8	BRYAN K. DOOK & CARBONELL	3451481	54'85
46	50122	CLAUDE KENNEDY	341121	8'00
47	50124-1	BRADLEY BAKER	3221853	1'00
48	50-24	WILLIAM M. BAKER & TERRY L. BLOOM	1121381	3'00
49	50-21	WILLIAM M. BAKER & TERRY L. BLOOM	1121381	3'10
50	50188	BRYAN K. DOOK	MBS3011	3'08
51	50188	TERRY L. BLOOM & WILLIAM M. BAKER	4401411	1'20
52	50110	MARYS OK	MBS21100	3'01
53	50180-1	KORAL B. ROSS	3281343	0'02
54	50180	KORAL B. ROSS & ROBERT L. COLLIER	3511158	0'38
55	50128	KORAL B. ROSS & ROBERT L. COLLIER	3511158	0'48
56	50128-1	KORAL B. ROSS & ROBERT L. COLLIER	3281858	0'02
57	50128	KORAL B. ROSS	3281343	4'18
58	50-22	MARYS OK	MBS21588	11'34
59	50-28	MARYS OK	125118	14'88
60	50111	TERRY L. BLOOM & CHARLES R. MURPHY	318151	1'13
61	50115	TERRY L. BLOOM & CHARLES R. MURPHY	318151	1'11
62	50114	BRYAN K. DOOK	MBS21114	1'48
63	50112	MICHAEL J. HICKMAN & MARYS OK	322111	1'41
64	50112	STEPHEN D. BRYAN & BRYAN K. DOOK	5111458	3'34
65	50184	MARYS OK	MBS211	3'55
66	50183-1	MARYS OK	MBS2131	0'48
67	50183	MARYS OK	3231588	4'18
68	50-28-1	CHARLES R. MURPHY	323182	18'402
69	50-28-2	CHARLES R. MURPHY & MARYS OK	4381814	3'82
70	50-24-1	DIANE LYNN GIBBS	3281413	3'53
71	50-24	BRYAN K. DOOK & CARBONELL	MBS21131	0'88
72	50-22	KAREN S. HUNT	3281138	8'82
73	50-18	CONNIE GEE	3281838	0'82
74	50-11	CONNIE GEE	3281838	1'31
75	50-18	TAMARA MURPHY & DIANE LYNN GIBBS	3211502	0'88
76	50-22-1	JAMES S. ZIMMER	5131221	1'88
77	50-28	MARYS OK & CHARLES R. MURPHY	MBS21288	81'81
78	50-28	TERRY L. HOGUE	3131150	1'00
79	50-25-1	JAMES S. & CHARLES R. MURPHY	5281808	0'83
80	50-25	JAMES S. & CHARLES R. MURPHY	5111448	0'10
81	51-83	JAMES S. & CHARLES R. MURPHY	5281808	0'44
82	50-22-1	JAMES S. & CHARLES R. MURPHY	5131221	1'28
83	50-18-18	KEITH C. & KATHLEEN J. BRYAN	4141411	4'11
84	50-18-11	KEITH C. & KATHLEEN J. BRYAN	4141411	4'35
85	50-18-23	KEITH C. & KATHLEEN J. BRYAN	3211541	3'80
86	50-18-25	KEITH C. & KATHLEEN J. BRYAN	3211541	3'85
87	50-18-14	AS-BUILT PRODUCTION COMBUSTION	450181	8'88
88	50-18-13	CHARLES R. MURPHY & BRYAN K. DOOK	3041882	2'84
89	50-18-15	CHARLES R. MURPHY & BRYAN K. DOOK	3041882	3'54
90	50-18-3	TIMOTHY KENZ	440154	2'40
91	50-18-1	CAMILLE BRYAN	5281541	1'35
92	50-18-2	KORAL B. ROSS & ROBERT L. COLLIER	4081155	2'14
93	50-18-8	KEITH C. & KATHLEEN J. BRYAN	3211541	2'80
94	50-18-1	CAMILLE BRYAN	5281541	1'35
95	50-18-1	CONNIE GEE	3211541	3'11
96	50-18-1	CONNIE GEE	3211541	3'11
97	50-18-1	CONNIE GEE	3211541	3'11
98	50-18-1	CONNIE GEE	3211541	3'11
99	50-18-1	CONNIE GEE	3211541	3'11
100	50-18-1	CONNIE GEE	3211541	3'11
101	50-18-1	CONNIE GEE	3211541	3'11
102	50-18-1	CONNIE GEE	3211541	3'11
103	50-18-1	CONNIE GEE	3211541	3'11
104	50-18-1	CONNIE GEE	3211541	3'11
105	50-18-1	CONNIE GEE	3211541	3'11
106	50-18-1	CONNIE GEE	3211541	3'11
107	50-18-1	CONNIE GEE	3211541	3'11
108	50-18-1	CONNIE GEE	3211541	3'11
109	50-18-1	CONNIE GEE	3211541	3'11
110	50-18-1	CONNIE GEE	3211541	3'11
111	50-18-1	CONNIE GEE	3211541	3'11
112	50-18-1	CONNIE GEE	3211541	3'11
113	50-18-1	CONNIE GEE	3211541	3'11
114	50-18-1	CONNIE GEE	3211541	3'11
115	50-18-1	CONNIE GEE	3211541	3'11
116	50-18-1	CONNIE GEE	3211541	3'11
117	50-18-1	CONNIE GEE	3211541	3'11
118	50-18-1	CONNIE GEE	3211541	3'11
119	50-18-1	CONNIE GEE	3211541	3'11
120	50-18-1	CONNIE GEE	3211541	3'11
121	50-18-1	CONNIE GEE	3211541	3'11
122	50-18-1	CONNIE GEE	3211541	3'11
123	50-18-1	CONNIE GEE	3211541	3'11
124	50-18-1	CONNIE GEE	3211541	3'11
125	50-18-1	CONNIE GEE	3211541	3'11
126	50-18-1	CONNIE GEE	3211541	3'11
127	50-18-1	CONNIE GEE	3211541	3'11
128	50-18-1	CONNIE GEE	3211541	3'11
129	50-18-1	CONNIE GEE	3211541	3'11
130	50-18-1	CONNIE GEE	3211541	3'11
131	50-18-1	CONNIE GEE	3211541	3'11
132	50-18-1	CONNIE GEE	3211541	3'11
133	50-18-1	CONNIE GEE	3211541	3'11
134	50-18-1	CONNIE GEE	3211541	3'11
135	50-18-1	CONNIE GEE	3211541	3'11
136	50-18-1	CONNIE GEE	3211541	3'11
137	50-18-1	CONNIE GEE	3211541	3'11
138	50-18-1	CONNIE GEE	3211541	3'11
139	50-18-1	CONNIE GEE	3211541	3'11
140	50-18-1	CONNIE GEE	3211541	3'11
141	50-18-1	CONNIE GEE	3211541	3'11
142	50-18-1	CONNIE GEE	3211541	3'11
143	50-18-1	CONNIE GEE	3211541	3'11
144	50-18-1	CONNIE GEE	3211541	3'11
145	50-18-1	CONNIE GEE	3211541	3'11
146	50-18-1	CONNIE GEE	3211541	3'11
147	50-18-1	CONNIE GEE	3211541	3'11
148	50-18-1	CONNIE GEE	3211541	3'11
149	50-18-1	CONNIE GEE	3211541	3'11
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152	50-18-1	CONNIE GEE	3211541	3'11
153	50-18-1	CONNIE GEE	3211541	3'11
154	50-18-1	CONNIE GEE	3211541	3'11
155	50-18-1	CONNIE GEE	3211541	3'11
156	50-18-1	CONNIE GEE	3211541	3'11
157	50-18-1	CONNIE GEE	3211541	3'11
158	50-18-1	CONNIE GEE	3211541	3'11
159	50-18-1	CONNIE GEE	3211541	3'11
160	50-18-1	CONNIE GEE	3211541	3'11
161	50-18-1	CONNIE GEE	3211541	3'11
162	50-18-1	CONNIE GEE	3211541	3'11
163	50-18-1	CONNIE GEE	3211541	3'11
164	50-18-1	CONNIE GEE	3211541	3'11
165	50-18-1	CONNIE GEE	3211541	3'11
166	50-18-1	CONNIE GEE	3211541	3'11
167	50-18-1	CONNIE GEE	3211541	3'11
168	50-18-1	CONNIE GEE	3211541	3'11
169	50-18-1	CONNIE GEE	3211541	3'11
170	50-18-1	CONNIE GEE	3211541	3'11
171	50-18-1	CONNIE GEE	3211541	3'11
172	50-18-1	CONNIE GEE	3211541	3'11
173	50-18-1	CONNIE GEE	3211541	3'11
174	50-18-1	CONNIE GEE	3211541	3'11
175	50-18-1	CONNIE GEE	3211541	3'11
176	50-18-1	CONNIE GEE	3211541	3'11
177	50-18-1	CONNIE GEE	3211541	3'11
178	50-18-1	CONNIE GEE	3211541	3'11
179	50-18-1	CONNIE GEE	3211541	3'11
180	50-18-1	CONNIE GEE	3211541	3'11
181	50-18-1	CONNIE GEE	3211541	3'11
182	50-18-1	CONNIE GEE	3211541	3'11
183	50-18-1	CONNIE GEE	3211541	3'11
184	50-18-1	CONNIE GEE	3211541	3'11
185	50-18-1	CONNIE GEE	3211541	3'11
186	50-18-1	CONNIE GEE	3211541	3'11
187	50-18-1	CONNIE GEE	3211541	3'11
188	50-18-1	CONNIE GEE	3211541	3'11
189	50-18-1	CONNIE GEE	3211541	3'11
190	50-18-1	CONNIE GEE	3211541	3'11
191	50-18-1	CONNIE GEE	3211541	3'11
192	50-18-1	CONNIE GEE	3211541	3'11
193	50-18-1	CONNIE GEE	3211541	3'11
194	50-18-1	CONNIE GEE	3211541	3'11
195	50-18-1	CONNIE GEE	3211541	3'11
196	50-18-1	CONNIE GEE	3211541	3'1

Antero Resources
Well No. Kramer Unit 2H
As-Drilled
Antero Resources Corporation

Leases

A	Michael J. & Melinda R. Hogue
B	James F. Doan, et ux
C	Ridgetop Capital LP
D	James F. Doan, et ux
E	WV Division of Natural Resources
F	James S. Suter
G	James S. Suter
H	Jeff T. Hoover
I	WV Dept. of Transportation, DOH
J	Nancy Ann Villers
K	Mary Alice Hickman Estate
L	Nancy J. Villers
M	James S. Suter, et ux
N	Steven L. Conrad, et ux
O	Kendra K. Cottrill Wyke
P	Stephen D. Ashley, et ux
Q	Randy Murray, et ux
R	Dylan Shane Murray, et ux
S	Lance M. Hickman
T	Mary A. Hickman
U	Mary A. Hickman
V	Norman C. Twyman
W	Ricky W. Morris, et ux
X	Barbara K. Davis
Y	John T. Burr, et ux
Z	Perry L. Weekley, et ux
AA	Nina Naomi Wise
AB	Jerry Todd Williams
AC	Barbara J. Davis
AD	William M. Baker, et ux
AE	Rosalee J. Forrester
AF	Rosalee J. Forrester
AG	Rosalee J. Forrester
AH	Robert J. Kocher
AI	William M. Baker, et ux
AJ	Bradley Baker
AK	Clara Jane Glover
AL	Brian D. Carpenter, et ux
AM	Richard A. Fonner, et ux
AN	Connie L. Hickman
AO	Michael A. Lenz, et ux
AP	Jeffery D. McKinney
AQ	Homer L. Matthews
AR	Michael Hickman, et ux
AS	Marvin Gene Franklin
AT	Tommy L. Williams
AU	Jerry R. Brown, et ux
AV	Jerry R. Brown
AW	Jerry R. Brown
AY	Karen S. Hunt
AZ	Grace M. Stackpole
BA	Charles R. Wince, et ux
BB	Ryan L. Walton, et ux
BC	Bradley R. Crawford, et ux
BD	Gary M. Patterson, et ux
BE	Brian K. Doak, et ux
BF	Thomas Jack Carpenter
BG	Map2012-OK
BJ	Roger Carl Ferrell
BK	Rose E. White
BL	Middlebourne Cemetery Association
BM	REOP, LLC
BN	Town of Middlebourne
BO	Boyd M. Parr, et ux
BP	Town of Middlebourne
BQ	Scott Denomme
BR	Scott Denomme
BS	Jessica L. Dotson

ID	TM/Par	Owner	Bk/Pg	Acres
1	26-46.6	Camille Patera	296/247	1.702
2	26-46.9	Eugene B. Jr. & Carol A. Johnson	351/60	5.00
3	26-46.2	Robert E. Lee II & Chasity L. Pittman	408/122	5.14
4	26-46.7	Camille Patera	296/247	7.32
5	26-46.3	Timothy Kanz	440/24	5.40
6	26-46.12	Charles R. & Bertha A. Holliday	306/665	3.24
7	26-46.13	Charles R. & Bertha A. Holliday	306/665	5.94
8	26-46.14	Jay-Bee Production Company	420/97	8.69
9	26-46.22	Eugene B. Johnson, Sr., et ux	351/247	2.92
10	26-46.23	Eugene B. Johnson, Sr., et ux	351/247	3.60
11	26-46.17	Kelley C. & Kathleen J. Ririck Bamm	AR46/11	4.32
12	26-46.18	Kelley C. & Kathleen J. Ririck Bamm	AR46/11	4.11
13	20-65.1	James S. & Ghislaine S. Suter	273/557	1.58
14	21-63	James S. & Ghislaine S. Suter	229/658	0.44
15	20-82	James S. & Ghislaine S. Suter	211/449	0.70
16	20-62.1	James S. & Ghislaine S. Suter	287/509	0.83
17	20-66	Jeff T. Hoover	313/120	1.00
18	20-62	Nancy Villers & Sara Fay Eskew	WB44/598	67.67
19	20-65.1	James S. & Ghislaine Suter	353/557	1.58
20	20-79	Tamara Wilcox & Steven L. Conrad	361/205	0.68
21	20-77	Joseph C. Snyder Jr.	397/838	1.27
22	20-78	Joseph C. Snyder Jr.	397/838	0.85
23	20-65	Kathy Sue Archer	336/138	6.85
24	20-64	Randy Murray & Julia A. Murray	WB37/375	0.99
25	20-64.1	Dylan Shane Murray	385/472	3.23
26	20-56.2	Lance M. & Tina R. Hickman	438/814	2.95
27	20-56.1	Lance M. Hickman	393/85	16.405
28	20/63	Kimberly & George Eidet	353/298	4.79
29	20/63.1	Mary A. Hickman	WB37/375	0.48
30	20/61	Mark Duane Hickman, et al	WB54/1	2.22
31	20/76	Stephen D. & Brenda J. Ashley	211/429	2.74
32	20/75	Ricky J. & Sharon S. Morris	285/17	1.47
33	20/74	Barbara K. Davis	AR43/791	1.46
34	20/73	John T. & Catherine L. Burr	378/27	1.11
35	20/72	John T. & Catherine L. Burr	378/27	1.13
36	20/71	Perry L. & Jackie L. Weekley	370/145	4.00
37	20-56	Mary Alice Hickman	152/16	14.96
38	20-55	Mary Alice Hickman	AR36/289	71.34
39	20/59	Robert Kocher	358/343	4.19
40	20/59.1	Robert R. & Rosalee J. Forrester	335/826	0.05
41	20/58	Robert R. & Rosalee J. Forrester	321/129	0.46
42	20/60	Robert R. & Rosalee J. Forrester	321/129	0.38
43	20/60.1	Robert Kocher	358/343	0.35
44	20/70	Nina Wise	WB25/700	3.91
45	20/69	Jerry, Michelle, & Justin Williams	440/471	1.50
46	20/68	Barbara J. Davis	WB30/31	2.09
47	20-67	William M. & Janet S. Baker	175/391	2.10
48	20-54	William M. & Janet S. Baker	175/391	100.45
49	20/54.1	Bradley Baker	358/823	2.00
50	20/53	Clara Negle	344/51	8.00
51	20/51.6	Brian & Sarah Carpenter	342/467	24.92
52	20-33	Lance M. & Tina R. Hickman	398/561	77.84
53	20-10	Connie L. Hickman, et al	341/209	41.00
54	20/23	Michael & Chris Lenz	313/216	4.60
55	20/23.1	Michael & Chris Lenz	323/732	5.52
56	20/25	Marshal McKinney	208/650	0.92
57	20/33.2	Homer Matthews	284/375	0.28
58	20/32	Homer Lee Matthews	178/216	0.34
59	20/31	Larry & Barbara Lee	211/179	0.34
60	20/21	Nancy Mercer	WB32/425	0.34
61	20/27	Earl P. & Crucita Kendle	331/341	0.32
62	20/29.1	James Bemby	331/43	0.25
63	20/33.3	Richard Fonner	415/796	18.5
64	20/29	Maurine Hadley	167/69	0.34
65	20/30	Donald & Susan Smith	321/165	0.26
66	20/28	Victor & Lorraine Weekley	280/422	0.23
67	20/20	Melinda Sue George	351/520	0.14
68	4-38	Michael K. Smith, et ux	377/179	0.07
69	4-39	Diana Lynn Slider	250/397	0.79
70	20-19	Jerry R. Brown	222/177	0.18
71	4-41	Jerry R. Brown	WB26/707	0.42
72	4-42	Donald K. Baker, et ux	532/595	0.20
73	20-18	Donald K. Baker, et ux	532/595	0.11
74	20-5.1	Charles R. & Martha J. Wince	358/22	0.18
75	4-43	Charles R. & Martha J. Wince	353/228	0.44
76	20-5	Grace M. Stackpole	373/11	0.88
77	20-7	Jerry & Jacqueline Brown	340/217	0.62
78	20-33.1	Jerry & Jacqueline Brown	340/215	8.00

ID	TM/Par	Owner	Bk/Pg	Acres
79	20-9	Marvin Gene Franklin	WB57/258	2.77
80	20B-29	Connie Lee & Michael D. Hickman	251/264	0.41
81	14-67	Tommy L. & Carolyn Williams	169/472	3.00
82	14-67.1	Gary M. & Amber D. Patterson	538/721	0.35
83	14-66	Bradley R. & Frances K. Crawford	206/698	2.70
84	20-8	Jessica L. Dotson, et al	359/727	5.94
85	20-6	Ryan L. & Melinda J. Walton	388/217	0.68
86	2-38	Patsy Fletcher	WB35/614	0.66
87	2-37	Sadie T. Weekley Irrevocable Trust	373/542	0.26
88	2-33	Scott A. Holmes	424/386	0.12
89	2-32	Scott A. Holmes	328/679	0.34
90	2-34	Janice E. Licht	321/477	0.51
91	14-62	Patsy Fletcher	WB35/614	14.50
92	2-35	Patsy Fletcher	WB35/614	4.25
93	2-36	WV Dept. of Highways	—/—	0.30
94	14-63	Wells Cemetery	67/69	0.21
95	14-65	Brian Kim & Pamela J. Doak	309/491	7.11
96	14-64	Boyd M. & Patricia L. Parr	181/549	3.04
97	14-55	Boyd M. & Patricia L. Parr	214/725	0.70
98	14-54	Boyd & Patricia Parr	164/170	2.30
99	14-53	Rose E. White	284/317	0.69
100	14-52	Middlebourne Cemetery Association	144/234	12.36
101	2-47	Witschey's Market Inc.	290/93	0.42
102	14-50	Barry Harter	WB38/84	0.80
103	14-51.1	Barry Harter	WB38/84	0.27
104	14-51	Barry Harter	590/268	4.66
105	14-90	Town of Middlebourne	222/301	1.00
106	14-51	Boyd M. & Patricia L. Parr	222/349	47.29
107	14-56.1	Boyd M. & Patricia L. Parr	358/643	35.33
108	14-91	Town of Middlebourne	377/97	2.32
109	14A-29.4	David B. Shriver	463/753	1.00
110	14A-29.2	Ren Realty DBA David Shriver	337/105A	1.00
111	14A-29.3	David B. Shriver	456/435	1.75
112	14A-29	Victor A & Lorraine Weekley	299/300	13.00
113	14A-22	Julia A. Smith	98/92	0.25
114	14A-21.1	Unknown	—/—	0.60
115	14A-21	Jack L. & Donna Lea Boggs	233/636	0.29
116	14A-24	Diane Lynn Glover	386/430	0.72
117	14A-26	Robert Wells	336/686	0.28
118	14A-27	Long Reach Employees Federal Credit Union	328/140	0.43
119	14A-27.1	Sharon Stackpole & Tabatha Welch	349/660	0.03
120	14A-27.2	Sharon Stackpole & Tabatha Welch	349/660	0.33
121	14A-28	Conrad E. Costilow	330/925	0.27
122	14A-28.1	Conrad E. Costilow	330/923	0.57
123	14A-29	Victor A & Lorraine Weekley	299/300	13.00
124	14A-30	Conrad E. Costilow	330/923	0.57
125	14A-31	Brian & Lisa Wiley	318/360	0.29
126	14A-32	Brian & Lisa Wiley	306/297	0.22
127	14A-17	Robert P. Wells	339/668	0.72
128	14A-17.1	Robert P. Wells	347/733	0.29
129	14A-18	David L. & Misty J. Stoller	383/222	0.43
130	14A-19	Raymond E. & Eva June Brightwell	304/380	0.25
131	14A-20	Jack L. & Donna Lea Boggs	231/725	0.30
132	14A-19.1	Raymond E. & Eva June Brightwell	304/380	0.19
133	14A-19.2	Raymond E. & Eva June Brightwell	336/522	0.13
134	14A-15	Douglas Carson	379/507	0.14
135	14A-16.1	Douglas Carson	379/507	0.14
136	14A-16	Allen E. Jr. & Rebecca A. Henderson	346/579	0.14
137	14A-16.2	Allen E. Jr. & Rebecca A. Henderson	346/579	0.43
138	14A-33	Michael J. & Christine H. Farhatt	331/376	0.29
139	14A-34	Michael J. & Christine H. Farhatt	331/376	0.29
140	14A-40	Ray N. & Gladys R. Gorrell	WB32/39	0.57
141	14A-44	Rebecca Ann Henderson	351/836	0.31
142	14A-45	Rebecca Ann Henderson	351/836	0.71
143	14A-13	David R. & Korey Helen Wilcox	420/722	1.12
144	14A-12	Lloyd E. & Donna A. Shepreth	321/106	0.64
145	14A-11	Robert D. Wetzel	402/591	1.19
146	14A-43	Rebecca J. Ruble	306/293	1.11
147	14A-42	Dominic Yost	426/605	0.26
148	14A-41	Phillip R. & Dorothy M. Wilcox	286/307	0.28
149	14-22	Sherry Carol	294/535	5.02
150	14-21	Arnold L. & Melba J. Templeton	348/507	14.95
151	14A-3	Sandra Sue Snider	317/325	6.00
152	14A-4	Sandra S. Snider	267/10	0.26
153	14A-10	Richard Daniel & Judith Ann Bowen	349/296	0.19
154	14A-9	Richard Daniel & Judith Ann Bowen	371/429	1.46
155	14A-8	Glenn & Starlen Hissam	343/801	0.33
156	14-42	Anne L. Spencer	273/368	33.00

FILE NO: 15-54-E-19
 DRAWING NO: Kramer Unit 2H As-Drilled
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY:
 Submeter
 PROVEN SOURCE OF ELEVATION:
 WVDOT, Harrisville, WV



DATE: December 30 2020
 OPERATOR'S WELL NO. Kramer 2H
 API WELL NO
 47 - 095 - 02677
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built 1,015' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Middlebourne 191.5; 81.33; 310.393; 9.178; 67.67; 6.95064; 1.58; 5.27; 5.94; 3.23; 19.35; 19.35; 70.9775; 10.49; 10.28; 8.63; 2.750; 34.59654; 28.54; 452.99125

DISTRICT: Ellsworth SURFACE OWNER: Michael J. & Melinda R. Hogue ROYALTY OWNER: Michael J. & Melinda R. Hogue; James F. Doan, et ux (2); Ridgetop Capital LP; Nancy Ann Villers; LEASE NO: ACREAGE: COUNTY: Tyler ACREAGE: 192.0

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 20,480' MD

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