

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

API 47 - 095 - 02561 County Tyler District Ellsworth
Quad Middlebourne 7.5' Pad Name Ferrell Pad Field/Pool Name -----
Farm name Antero Resources Midstream LLC Well Number Galt Unit 1H
Operator (as registered with the OOG) Antero Resources Corporation
Address 1615 Wynkoop Street City Denver State CO Zip 80202

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4369167.178m Easting 507137.439m
Landing Point of Curve Northing 4369338.21m Easting 507799.68m
Bottom Hole Northing 4366462.691m Easting 507457.830m

Elevation (ft) 731.4' 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

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Date permit issued 1/25/2019 Date drilling commenced 2/8/2019 Date drilling ceased 11/25/2019
Date completion activities began 2/18/2020 Date completion activities ceased 3/14/2020
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 194', 243' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 1224', 1347' Void(s) encountered (Y/N) depths No
Coal depth(s) ft 770' Cavern(s) encountered (Y/N) depths No
Is coal being mined in area (Y/N) No

Reviewed by:
ACB
10/19/2020

API 47- 095 - 02561 Farm name Antero Resources Midstream LLC Well number Galt Unit 1H

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/ N) * Provide details below*
Conductor	24"	20"	110'	New	94#, H-40	N/A	Y
Surface	17-1/2"	13-3/8"	403'	New	54#, J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2640'	New	36#, H-40	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	15569'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	6615'		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	204 sx	15.6	1.18	244	0'	8 Hrs.
Surface	Class A	430 sx	15.6	1.19	402	0'	8 Hrs.
Coal							
Intermediate 1	Class A	905 sx	15.6	1.18	1047	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	798 sx (Lead) 3040 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) 15589' MD, 6136' TVD (BHL), 6138' (Deepest Point Drilled) Loggers TD (ft) 15589' MD
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

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Kick off depth (ft) 5601'

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 - 02561 Farm name Antero Resources Midstream LLC Well number Galt Unit 1H

PERFORATION RECORD

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

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
*PLEASE SEE ATTACHED EXHIBIT 2								

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Please insert additional pages as applicable.

API 47- 095 - 02561 Farm name Antero Resources Midstream LLC Well number Galt Unit 1H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>Marcellus</u>	<u>5985' (TOP)</u> TVD	<u>6652' (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 3026 mcfpd Oil 152 bpd NGL --- bpd Water 351 bpd GAS MEASURED BY Estimated Orifice Pilot

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

***PLEASE SEE ATTACHED EXHIBIT 3**

Please insert additional pages as applicable.

Drilling Contractor Frontier Drilling LLC
Address 562 Spring Run Road City Pennsboro State WV Zip 26415

Logging Company Nine Energy Services
Address 125 Museum Road City Washington State PA Zip 15301

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 [Signature] Title Permitting Agent Date 01/19/20

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

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API 47-095-02561 Farm Name Antero Midstream LLC Well Number Galt Unit 1H

EXHIBIT 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	2/22/2020	15469	15425	60	Marcellus
2	2/22/2020	15385.21318	15218.2791	60	Marcellus
3	2/22/2020	15182.49225	15015.5581	60	Marcellus
4	2/23/2020	14979.77132	14812.8372	60	Marcellus
5	2/23/2020	14777.05039	14610.1163	60	Marcellus
6	2/23/2020	14574.32946	14407.3953	60	Marcellus
7	2/23/2020	14371.60853	14204.6744	60	Marcellus
8	2/24/2020	14168.8876	14001.9535	60	Marcellus
9	2/25/2020	13966.16667	13799.2326	60	Marcellus
10	2/25/2020	13763.44574	13596.5116	60	Marcellus
11	2/25/2020	13560.72481	13393.7907	60	Marcellus
12	2/25/2020	13358.00388	13191.0698	60	Marcellus
13	2/25/2020	13155.28295	12988.3488	60	Marcellus
14	2/26/2020	12952.56202	12785.6279	60	Marcellus
15	2/26/2020	12749.84109	12582.907	60	Marcellus
16	2/26/2020	12547.12016	12380.186	60	Marcellus
17	2/27/2020	12344.39922	12177.4651	60	Marcellus
18	2/27/2020	12141.67829	11974.7442	60	Marcellus
19	2/28/2020	11938.95736	11772.0233	60	Marcellus
20	2/28/2020	11736.23643	11569.3023	60	Marcellus
21	2/29/2020	11533.5155	11366.5814	60	Marcellus
22	2/29/2020	11330.79457	11163.8605	60	Marcellus
23	2/29/2020	11128.07364	10961.1395	60	Marcellus
24	2/29/2020	10925.35271	10758.4186	60	Marcellus
25	2/29/2020	10722.63178	10555.6977	60	Marcellus
26	2/29/2020	10519.91085	10352.9767	60	Marcellus
27	2/29/2020	10317.18992	10150.2558	60	Marcellus
28	3/1/2020	10114.46899	9947.53488	60	Marcellus
29	3/1/2020	9911.748062	9744.81395	60	Marcellus
30	3/1/2020	9709.027132	9542.09302	60	Marcellus
31	3/2/2020	9506.306202	9339.37209	60	Marcellus
32	3/2/2020	9303.585271	9136.65116	60	Marcellus
33	3/2/2020	9100.864341	8933.93023	60	Marcellus
34	3/2/2020	8898.143411	8731.2093	60	Marcellus
35	3/3/2020	8695.422481	8528.48837	60	Marcellus
36	3/3/2020	8492.70155	8325.76744	60	Marcellus
37	3/3/2020	8289.98062	8123.04651	60	Marcellus
38	3/3/2020	8087.25969	7920.32558	60	Marcellus
39	3/4/2020	7884.53876	7717.60465	60	Marcellus
40	3/4/2020	7681.817829	7514.88372	60	Marcellus
41	3/4/2020	7479.096899	7312.16279	60	Marcellus
42	3/4/2020	7276.375969	7109.44186	60	Marcellus
43	3/5/2020	7073.655039	6906.72093	60	Marcellus
44	3/5/2020	6870.934109	6704	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	2/22/2020	72.01125	7961.5	5589	4254	199480	5532.9	N/A
2	2/22/2020	75.57034	7911.881	6583	4357	401560	7227.476	N/A
3	2/22/2020	74.33152	7823.978	5868	3992	400060	7161.79	N/A
4	2/23/2020	77.78717	7999.859	5849	3668	401700	7311.05	N/A
5	2/23/2020	84.5	8319	5859	3667	402120	7142.91	N/A
6	2/23/2020	83.1	8051	5913	3753	412100	7248.58	N/A
7	2/23/2020	80.7	8099	6118	3739	402020	7234.86	N/A
8	2/24/2020	78.7	8369	5613	3684	401440	7105.8	N/A
9	2/25/2020	81.3	8167	6409	3863	402500	7123.45	N/A
10	2/25/2020	78.7	8009	6256	3783	401360	7114.8	N/A
11	2/25/2020	80.2	8072	5998	3566	401300	7109.34	N/A
12	2/25/2020	85.9	8279	5525	3754	399360	7045.41	N/A
13	2/25/2020	83.3	8452	6277	3804	400320	7193.75	N/A
14	2/26/2020	82.7	8394	5623	4587	401040	7069.97	N/A
15	2/26/2020	75.98	7999.51	5546	3487	402460	7013.96	N/A
16	2/26/2020	85.1	8454	5294	3840	401980	7094.19	N/A
17	2/27/2020	85.3	8472	5936	3652	407440	7089.76	N/A
18	2/27/2020	85.1	8405	5922	3548	403320	6977.44	N/A
19	2/28/2020	76.4	8448.61	5693	4716	406060	7761.49	N/A
20	2/28/2020	80.6	8215	6034	3956	401820	7115.85	N/A
21	2/29/2020	76.7	8150	7001	3681	403620	7274.82	N/A
22	2/29/2020	83.8	8186	6248	3794	403720	7025.22	N/A
23	2/29/2020	83.97	8255	5507	3896	409320	7395	N/A
24	2/29/2020	84.5	8229	5790	3567	406780	6975.39	N/A
25	2/29/2020	84.5	8212.68	5928	3256	405460	6974.63	N/A
26	2/29/2020	86.3	8324	5615	3699	403140	6961.4	N/A
27	2/29/2020	84.6	8486	5559	3439	407240	6998.2	N/A
28	3/1/2020	77.8	8191	5692	3613	400880	8551.09	N/A
29	3/1/2020	83.9	8128	6304	3381	401980	6923.49	N/A
30	3/1/2020	86.3	8129	5655	3393	400740	6954.83	N/A
31	3/2/2020	85	8196	4962	3370	405620	7065	N/A
32	3/2/2020	86.2	8050	5416	3533	401400	6856.08	N/A
33	3/2/2020	85.3	7914	5284	3502	409620	6934.5	N/A
34	3/2/2020	85.2	8193	5196	3362	404980	6897.91	N/A
35	3/3/2020	84.6	7779	5640	3521	395180	6826.12	N/A
36	3/3/2020	84.9	7908	5890	3360	403400	6749.23	N/A
37	3/3/2020	85.4	7914	4906	3390	398980	6820.29	N/A
38	3/3/2020	85.7	7947	5137	3240	401760	6808.93	N/A
39	3/4/2020	88.8	8001	5867	3507	403880	6810.22	N/A
40	3/4/2020	88.3	7936	5435	4096	405460	6927.13	N/A
41	3/4/2020	83.6	8199	5811	3571	397520	6655.4	N/A
42	3/4/2020	87.7	8094	5467	3912	400860	6722.92	N/A
43	3/5/2020	88.1	8170	5737	3728	400720	6816.23	N/A
44	3/5/2020	87.7	7844	5779	3973	403360	6822.99	N/A
	AVG=	82.5	8,152	5,774	3,703	16,320,120	289,060	TOTAL

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EXHIBIT 3

LITHOLOGY/ FORMATION	TOP DEPTH (TVD) From Surface	BOTTOM DEPTH (TVD) From Surface	TOP DEPTH (MD) From Surface	BOTTOM DEPTH (MD) From Surface
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	1,527	1,515	N/A
Big Lime	1,542	2,095	1,530	2,106
Fifty Foot Sandstone	2,095	2,331	2,091	2,355
Gordon	2,331	2,632	2,340	2,690
Fifth Sandstone	2,632	2,716	2,675	2,788
Bayard	2,716	3,565	2,773	3,758
Speechley	3,565	3,694	3,743	3,902
Balltown	3,694	4,191	3,887	4,465
Bradford	4,191	4,493	4,450	4,808
Benson	4,493	4,914	4,793	5,288
Alexander	4,914	5,887	5,273	6,424
Sycamore	5,755	5,857	6,264	6,394
Middlesex	5,857	5,946	6,409	6,554
Burkett	5,946	5,985	6,569	6,603
Tully	5,985	5,985	6,618	6,652
Marcellus	5,985	NA	6,652	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:	2/22/2020
Job End Date:	3/5/2020
State:	West Virginia
County:	Tyler
API Number:	47-095-02561-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Galt Unit 1H
Latitude:	39.47198300
Longitude:	-80.91719000
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,135
Total Base Water Volume (gal):	13,647,915
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	86.28141	
Hydrochloric Acid	CWS	Clean Perforations					
			Listed Below				

Calbreak 5501	CWS	Breaker							
					Listed Below				
SaniFrac 8123	CWS	Microbiocide							
					Listed Below				
Sand (Proppant)	CWS	Propping Agent							
					Listed Below				
CalGel 4000	CWS	Gel Slurry							
					Listed Below				
CI-9100G	CWS	Corrosion Inhibitor							
					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		13.37834	
			Hydrochloric acid	7647-01-0		37.00000		0.12066	
			Calcite	471-34-1		1.00000		0.07303	
			Illite	12173-60-3		1.00000		0.06074	
			Distillates (petroleum), hydrotreated middle	64742-46-7		60.00000		0.01748	
			Guar gum	9000-30-0		60.00000		0.01748	
			Goethite	1310-14-1		0.10000		0.01338	
			Apatite	64476-38-6		0.10000		0.01338	

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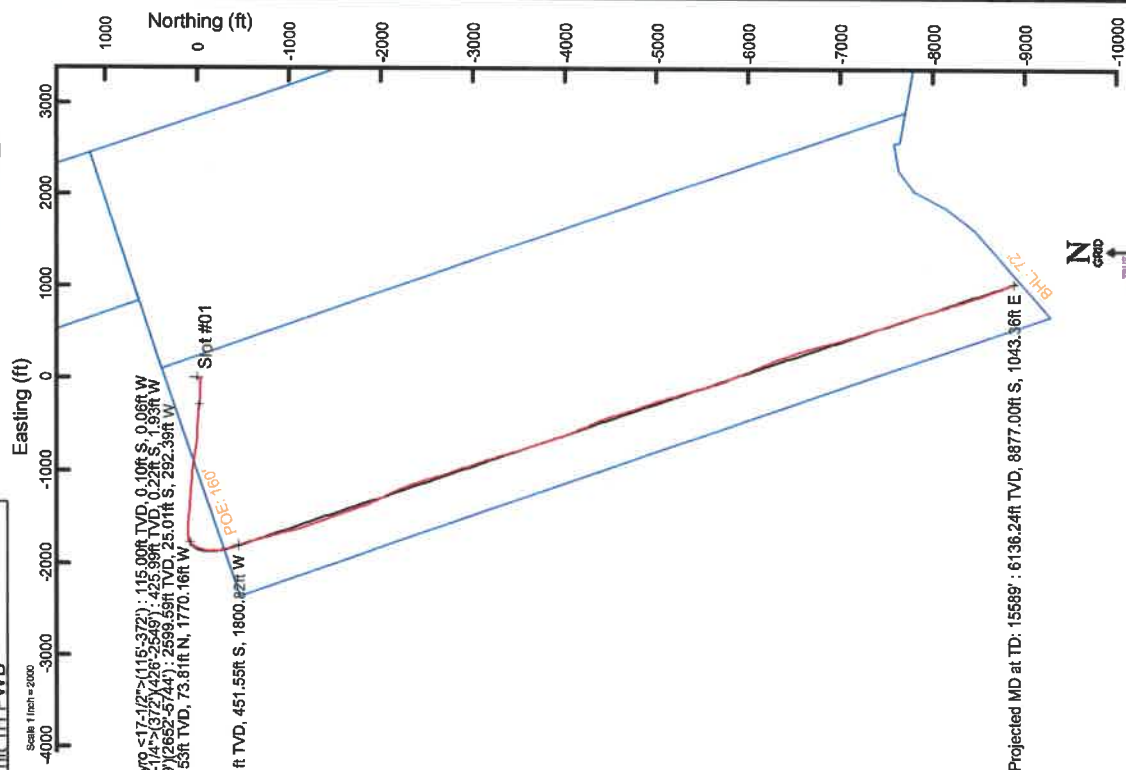


ANTERO RESOURCES CORPORATION

Location: Tyler County, WV
Field: Tyler
Facility: Ferrell South Pad

Slot: Slot #01
Well: Gait Unit 1H
Wellbore: Gait Unit 1H PWB

API: 47-095-02561-0000
BHI Job #: 110140854A
Rig: H&P 519
Duration: 11/20/2019-11/22/2019



Gyrodata MS Gyro <17-1/2'>(115-372'): 115.00ft TVD, 0.10ft S, 0.06ft W
Panther EM <12-1/4'>(372)(426-2549'): 425.99ft TVD, 0.22ft S, 1.93ft W
BH AT Curve <8-1/2'>(5744)(5801-15564'): 5371.55ft TVD, 73.81ft N, 1770.16ft W
Marcellus POE: 6662' MD : 6014.61ft TVD, 451.55ft S, 1800.82ft W

Table with 2 columns: Item, Value. Includes Grid System, North Reference, Scale, H&P 519 (RKB) to Mean Sea Level, Mean Sea Level to Ground level, and Offset wellbore MDs.

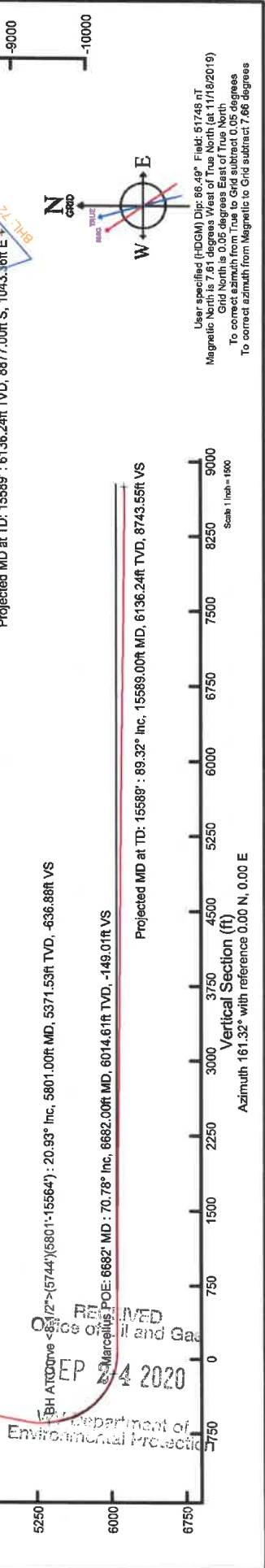
Gyrodata MS Gyro <17-1/2'>(115-372'): 0.15° Inc, 115.00ft MD, 115.00ft TVD, 0.07ft VS
Panther EM <12-1/4'>(372)(426-2549'): 0.98° Inc, 426.00ft MD, 425.99ft TVD, -0.41ft VS

Location Information table with columns: Facility Name, Grid East (US ft), Grid North (US ft), Latitude, Longitude. Includes Ferrell South Pad, Slot #01, H&P 519 (RKB) to Ground level, Mean Sea Level to Ground level, and H&P 519 (RKB) to Mean Sea Level.

Panther EM <8-3/4'>(2549)(2652-5744'): 29.51° Inc, 2652.00ft MD, 2599.59ft TVD, -69.96ft VS

Well Profile Data table with columns: Design Comment, MD (ft), Inc (°), Az (°), TVD (ft), Local E (ft), Local N (ft), DLS (°/100ft), VS (ft). Includes The On, Prof. To Bottom, End of 3D Arc, POE, Landing Pt, and BHL.

Well Data table with columns: Well, Wellbore, Slot #01, Gait Unit 1H, Gait Unit 1H PWB, Gait Unit 1H AWP, Gait Unit 1H PWB Rev-A, Gait Unit 1H PWB Rev-A-0.



Vertical Section (ft)
Azmuth 161.32° with reference 0.00 N, 0.00 E
Projected MD at TD: 15589' : 89.32° Inc, 15589.00ft MD, 6136.24ft TVD, 8743.55ft VS
Projected MD at TD: 15589' : 6136.24ft TVD, 8877.00ft S, 1043.36ft E

User specified (H-DGM) Dip: 86.49° Field: 51745 nT
Magnetic North is 7.81 degrees West of True North (at 11/18/2019)
Grid North is 0.02 degrees East of True North
To correct azimuth from Magnetic to Grid subtract 7.86 degrees



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10,929' to Bottom Hole

309' to Top Hole

TOP HOLE LATITUDE 39 - 30 - 00
BTM HOLE LATITUDE 39 - 27 - 30

Antero Resources
Well No. Galt Unit 1H
As-Drilled
Antero Resources Corporation

Wellhead Layout
Not to Scale

- Daniels Unit 3H (47-095-02568)
- Daniels Unit 2H (47-095-02567)
- Daniels Unit 1H (47-095-02566)
- Galt Unit 3H (47-095-02563)
- Galt Unit 2H (47-095-02562)
- As-Drilled Galt Unit 1H (47-095-02561)

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: 1 spring was 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. There were no gas wells found or documented within 3000' of the proposed well.



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

Bearing	Dist.
L1 S 40°24' W	2,778.4'
L2 N 57°03' W	2,265.0'
L3 N 47°21' W	1,196.9'
L4 S 89°09' E	2,252.3'

Notes:
West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
Well No. Galt Unit 1H Top Hole coordinates are
N: 357,172.00" Latitude: 39°28'19.14"
E: 1,599,943.10" Longitude: 80°55'01.88"
Bottom Hole coordinates are
N: 348,279.65" Latitude: 39°26'51.40"
E: 1,600,846.30" Longitude: 80°54'48.58"
UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,369,167.178m N: 4,366,462.691m
E: 507,137.439m E: 507,457.830m
Plat orientation and corner and well references are based upon the grid north meridian.
Well location references are based upon the magnetic meridian.

ID	Trm/Par	Owner	Bk/Pg	Acres
1	26/4		312/330	16.200
2	26/5	Robert L. Keller	312/330	20.010
3	26/7		312/330	22.090
4	26/9.1		393/474	1.805
5	26/9.2		393/474	1.908
6	26/9.3	Alicia Moseley	393/474	1.915
7	26/9.4		393/474	1.871
8	26/9.5		393/474	1.917
9	26/9.6		327/789	1.885
10	26/9.9	Kathryn Clow	326/307	1.599
11	26/9.10		323/504	1.200
12	26/9.7		404/352	2.048
13	26/9.8		404/352	1.751
14	26/9.11	JB Exploration I, LLC	404/352	1.569
15	26/9		404/352	28.021
16	26/9.12		404/352	4.285
17	26/10		312/330	12.25
18	26/15	Robert L. Keller	312/330	15.14
19	26/13.1	James & Connie Hardesty	245/40	0.769
20	26/30	Ronald E. Stevens	WB34/467	4.470
21	26/26.3	Charles & Donna Mead	351/550	10.106
22	26/26.2		347/516	13.262
23	26/31		269/1	13.430
24	26/32	Edwin K. Livingston Sr.	WB14/50	3.100
25	26/33	Denver A. & Carolyn F. McMullen	176/548	0.750
26	3/6.1	Virgil R. & Janice E. McMullen	308/290	12.000
27	29/1		230/799	1.000
28	26/35	Ronald L. Stevens, et al	AR44/570	13.610
29	6/7.1		AR44/570	9.810
30	6/7	Patsy Jean & Baker Donald Fletcher	110/551	69.000
31	29/15	Carl & Charles L. Fairlee	344/317	41.000

TOP HOLE LONGITUDE 80 - 55 - 00
BTM HOLE LONGITUDE 80 - 52 - 30
3,736' to Bottom Hole
10,201' to Top Hole

Top Hole 7.5' Spot

GRID NORTH

Proposed

As-Drilled

500' Buffer

500' Buffer

500' Buffer

500' Buffer

500' Buffer

500' Buffer

500' Buffer

500' Buffer

500' Buffer



- Leases**
- A. Kathryn T. Clow Lease
 - B. Alice Moseley Lease
 - C. Winifred Antalek Lease
 - D. Edwin K. Livingston, Sr. Lease
 - E. Clarence W. Mutschelknaus, Sr., et al Lease
 - F. Susan E. Garnet Lease
 - G. Virgil R. McMullen, et ux

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

FILE NO: 13-54-E-17
DRAWING NO: Galt 1H As-Drilled
SCALE: 1" = 1200'
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: May 8 20 20
OPERATOR'S WELL NO. Galt Unit 1H
API WELL NO
47 - 095 - 02561
STATE COUNTY PERMIT

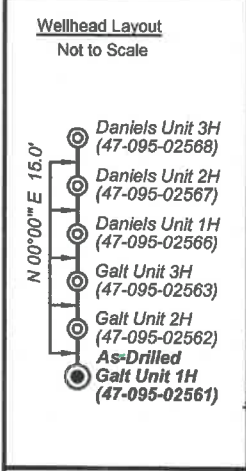
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION: ELEVATION: As-Built - 731.4' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Middlebourne 118.63;
DISTRICT: Ellsworth COUNTY: Tyler 173.29; 89.49375;
SURFACE OWNER: Antero Midstream, LLC Clarence W. Mutschelknaus Sr., et al; Jeffrey Allen Seckman; Larry R. Henthorn, et ux; ACREAGE: 203.59 79; 164.91;
ROYALTY OWNER: Richard L. Clark (2); Winifred Antalek; Denver A. McMullen, et ux LEASE NO: ACREAGE: 61.71875; 63.02

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled 6,136' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 15,589' 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. Galt Unit 1H
As-Drilled
Antero Resources Corporation



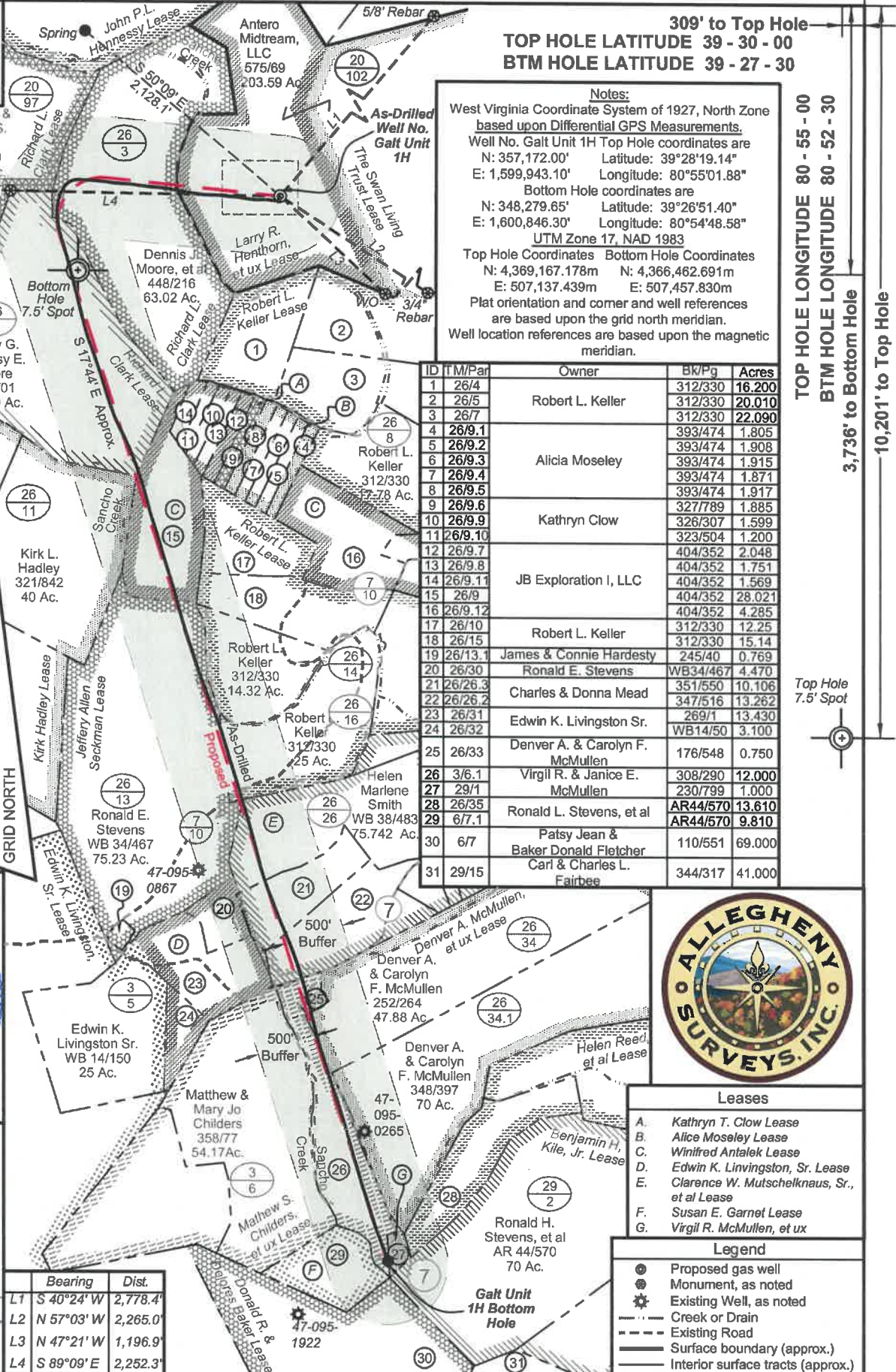
Top Hole Coordinates, As-drilled data, and information was provided by Antero Resources Corporation. Allegheny Surveys Inc. (ASI) is not certifying the data and information provided. ASI is not responsible for any errors or inaccuracies with the data and information that has been provided.

Note: 1 spring was 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. There were no gas wells found or documented within 3000' of the proposed well.



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



- Leases**
- A. Kathryn T. Clow Lease
 - B. Alice Moseley Lease
 - C. Winifred Antalek Lease
 - D. Edwin K. Livingston, Sr. Lease
 - E. Clarence W. Mutschelknaus, Sr., et al Lease
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- Legend**
- Proposed gas well
 - Monument, as noted
 - ⊙ Existing Well, as noted
 - Creek or Drain
 - - - Existing Road
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FILE NO: 13-54-E-17
 DRAWING NO: Galt 1H As-Drilled
 SCALE: 1" = 1200'
 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: May 8 20 20
 OPERATOR'S WELL NO. Galt Unit 1H
 API WELL NO
 47 - 095 - 02561
 STATE COUNTY PERMIT

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 DISTRICT: Ellsworth Matthew S. Childers, et ux; Robert L. Keller; COUNTY: Tyler 173.29; 89.49375;
 SURFACE OWNER: Antero Midstream, LLC Clarence W. Mutschelknaus Sr., et al; ACREAGE: 203.59 79; 164.91;
 ROYALTY OWNER: Richard L. Clark (2); Winifred Antalek; Denver A. McMullen, et ux LEASE NO: ACREAGE: 63.4; 46.6425;
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
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