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

API 47 - 095 - 02397 County Tyler District Meade
Quad Pennsboro 7.5' Pad Name Ritchie Petroleum Field/Pool Name -----
Farm name David M. Hartley Well Number Packers 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 4356639m Easting 502123m
Landing Point of Curve Northing 4356617.63m Easting 501708.52m
Bottom Hole Northing 4359794m Easting 500472m

Elevation (ft) 1176' 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 12/29/2016 Date drilling commenced 3/4/2017 Date drilling ceased 8/15/2017
Date completion activities began 5/9/2018 Date completion activities ceased 7/26/2018
Verbal plugging (Y/N) N/A Date permission granted N/A Granted by N/A

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 162', 201' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 1293' Void(s) encountered (Y/N) depths No
Coal depth(s) ft None Identified Cavern(s) encountered (Y/N) depths No
Is coal being mined in area (Y/N) No

Reviewed by:

10/16/2026

API 47- 095 - 02397 Farm name David M. Hartley Well number Packers 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"	95'	New	94#, H-40	N/A	Y
Surface	17-1/2"	13-3/8"	389'	New	54.5#, J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2611'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	18118'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	6611'		4.7#, L-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	202 sx	15.6	1.18	238	0'	8 Hrs.
Surface	Class A	385 sx	15.6	1.20	462	0'	8 Hrs.
Coal							
Intermediate 1	Class A	1159 sx	15.6	1.18	1368	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	785 sx (Lead) 1695 sx (Tail)	13.5 (Lead), 15.2 (Tail)	1.44 (Lead), 1.87 (Tail)	3170	~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 18118' MD, 6418' TVD (BHL), 6465' (Deepest Point Drilled) Loggers TD (ft) 18118' MD

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

Plug back procedure N/A

Kick off depth (ft) 5829'

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

10/16/2026

API 47- 095 - 02397 Farm name David M. Hartley Well number Packers 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**

Please insert additional pages as applicable.

10/16/2026

API 47- 095 - 02397 Farm name David M. Hartley Well number Packers Unit 1H

PRODUCING FORMATION(S)	DEPTHS			
Marcellus	6379' (TOP)	TVD	6689' (TOP)	MD

Please insert additional pages as applicable.

GAS TEST ☐ Build up ☐ Drawdown ■ Open Flow OIL TEST ■ Flow ☐ Pump

SHUT-IN PRESSURE Surface 1855 psi Bottom Hole --- psi DURATION OF TEST --- hrs

OPEN FLOW	Gas	Oil	NGL	Water	GAS MEASURED BY
	9290 mcfpd	136 bpd	--- bpd	954 bpd	☐ Estimated ■ Orifice ☐ Pilot

LITHOLOGY/ FORMATION NAME	TOP DEPTH IN FT TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H_2S, ETC)

***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 Allied Horizontal Wireline Services
Address 381 Colonial Manor Road City North Huntington State PA Zip 15642

Cementing Company BJ Energy Solutions
Address 5500 NW Central Dr City Houston State TX Zip 77092

Stimulating Company Halliburton Energy Services
Address 3000 N Sam Houston Pkwy E City Houston State TX Zip 77032
Please insert additional pages as applicable.

Completed by Carly Wren Telephone 303-357-7373
Signature Title Permitting Agent Date

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

10/16/2026

API 47-095-02397 Farm Name David M. Hartley Well Number Packers Unit 1H					
EXHIBIT 1					
Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	5/9/2018	17913		60	Marcellus
2	5/9/2018	17714	17882	60	Marcellus
3	5/10/2018	17514	17682	60	Marcellus
4	5/10/2018	17315	17483	60	Marcellus
5	5/11/2018	17115	17283	60	Marcellus
6	5/11/2018	16916	17084	60	Marcellus
7	5/12/2018	16716	16884	60	Marcellus
8	5/13/2018	16517	16685	60	Marcellus
9	5/13/2018	16317	16485	60	Marcellus
10	5/13/2018	16118	16286	60	Marcellus
11	5/14/2018	15918	16086	60	Marcellus
12	5/14/2018	15719	15887	60	Marcellus
13	5/14/2018	15519	15687	60	Marcellus
14	5/15/2018	15320	15488	60	Marcellus
15	5/15/2018	15120	15288	60	Marcellus
16	5/15/2018	14921	15089	60	Marcellus
17	5/15/2018	14721	14889	60	Marcellus
18	5/16/2018	14522	14690	60	Marcellus
19	5/16/2018	14322	14490	60	Marcellus
20	5/18/2018	14123	14291	60	Marcellus
21	5/18/2018	13923	14091	60	Marcellus
22	5/20/2018	13724	13892	60	Marcellus
23	5/20/2018	13524	13692	60	Marcellus
24	5/21/2018	13325	13493	60	Marcellus
25	5/22/2018	13125	13293	60	Marcellus
26	5/22/2018	12926	13094	60	Marcellus
27	5/23/2018	12726	12894	60	Marcellus
28	5/24/2018	12527	12695	60	Marcellus
29	5/25/2018	12327	12495	60	Marcellus
30	5/25/2018	12128	12296	60	Marcellus
31	5/26/2018	11928	12096	60	Marcellus
32	5/26/2018	11729	11897	60	Marcellus
33	5/26/2018	11529	11697	60	Marcellus
34	5/27/2018	11330	11498	60	Marcellus
35	5/27/2018	11130	11298	60	Marcellus
36	5/28/2018	10931	11099	60	Marcellus
37	5/28/2018	10731	10899	60	Marcellus
38	5/28/2018	10532	10700	60	Marcellus
39	5/29/2018	10332	10500	60	Marcellus
40	5/29/2018	10133	10301	60	Marcellus
41	5/30/2018	9933	10101	60	Marcellus
42	5/30/2018	9734	9902	60	Marcellus
43	5/30/2018	9534	9702	60	Marcellus
44	5/31/2018	9335	9503	60	Marcellus
45	5/31/2018	9135	9303	60	Marcellus
46	5/31/2018	8936	9104	60	Marcellus
47	5/31/2018	8736	8904	60	Marcellus
48	6/1/2018	8537	8705	60	Marcellus
49	6/2/2018	8337	8505	60	Marcellus
50	6/2/2018	8138	8306	60	Marcellus
51	6/3/2018	7938	8106	60	Marcellus
52	6/3/2018	7739	7907	60	Marcellus
53	6/4/2018	7539	7707	60	Marcellus
54	6/4/2018	7340	7508	60	Marcellus
55	6/5/2018	7140	7308	60	Marcellus
56	6/6/2018	6941	7109	60	Marcellus
57	6/6/2018	6741	6909	60	Marcellus

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API 47-095-02397 **Farm Name** David M. Hartley **Well Number** Packers Unit 1H

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	5/9/2018	69.6	7722	8319	2513	18554	6240	N/A
2	5/9/2018	75.7	7389	4733	3041	15163	7427	N/A
3	5/10/2018	77.9	7337	5031	3252	15620	7824	N/A
4	5/10/2018	77.3	7328	4151	3497	14976	7989	N/A
5	5/11/2018	78.2	7456	5327	3461	16244	7683	N/A
6	5/11/2018	76.9	7392	5274	3800	16466	7579	N/A
7	5/12/2018	76.9	7438	5535	3706	16679	7794	N/A
8	5/13/2018	76.5	7323	5284	4130	16737	7923	N/A
9	5/13/2018	76.8	7572	5316	3767	16655	7646	N/A
10	5/13/2018	76.1	7103	5284	3728	16115	7657	N/A
11	5/14/2018	75.3	7148	4837	3700	15685	7719	N/A
12	5/14/2018	75.6	7140	4583	3749	15472	7760	N/A
13	5/14/2018	78.5	7302	4729	3496	15527	7561	N/A
14	5/15/2018	77.6	7183	4978	3537	15698	7820	N/A
15	5/15/2018	78.8	7267	4897	3944	16108	7753	N/A
16	5/15/2018	73.1	6990	4948	3984	15922	9741	N/A
17	5/15/2018	75.9	7112	5077	3728	15917	7637	N/A
18	5/16/2018	74.2	7011	5610	3741	16362	7829	N/A
19	5/16/2018	76.6	7515	5206	3812	16533	7333	N/A
20	5/18/2018	78.1	7026	4951	3448	15425	7629	N/A
21	5/18/2018	77.8	7012	5210	3911	16133	8025	N/A
22	5/20/2018	77.5	7047	4954	4024	16025	7633	N/A
23	5/20/2018	77.8	7093	5066	3728	15887	7628	N/A
24	5/21/2018	78.1	7172	4883	4006	16061	7659	N/A
25	5/22/2018	76.5	6644	5130	3825	15599	7559	N/A
26	5/22/2018	78.1	6942	5352	3802	16096	7622	N/A
27	5/23/2018	77.5	6841	5144	3807	15792	7894	N/A
28	5/24/2018	77.1	6545	5084	3549	15178	7642	N/A
29	5/25/2018	75.1	6957	5064	3693	15714	7385	N/A
30	5/25/2018	75.2	6442	4903	3702	15047	7471	N/A
31	5/26/2018	77.9	6386	5141	3813	15340	7445	N/A
32	5/26/2018	75.6	6485	5146	3700	15331	7647	N/A
33	5/26/2018	74.1	6479	5278	3573	15330	7527	N/A
34	5/27/2018	75.9	6233	5733	3464	15430	8950	N/A
35	5/27/2018	78.9	6362	4290	3539	14191	8556	N/A
36	5/28/2018	77.7	6365	5118	3733	15216	7833	N/A
37	5/28/2018	78.9	6387	5002	3392	14781	7718	N/A
38	5/28/2018	77.8	6371	5234	3530	15135	7687	N/A
39	5/29/2018	77.3	6387	5079	3526	14992	7492	N/A
40	5/29/2018	79.2	6333	5158	8146	19637	12875	N/A
41	5/30/2018	75.2	6494	4975	3437	14906	7316	N/A
42	5/30/2018	77.7	6429	5001	3236	14666	7467	N/A
43	5/30/2018	74.5	6345	4982	3748	15075	7468	N/A
44	5/31/2018	77.7	6438	5697	3274	15409	7509	N/A
45	5/31/2018	79.2	6587	5214	3349	15150	8795	N/A
46	5/31/2018	77.8	6303	4921	3272	14496	7761	N/A
47	5/31/2018	76.2	6158	4950	3802	14910	7478	N/A
48	6/1/2018	77.1	6086	4980	3401	14467	7305	N/A
49	6/2/2018	79	6177	5265	3340	14782	8217	N/A
50	6/2/2018	78.2	5953	4683	4106	14742	7385	N/A
51	6/3/2018	78.6	6062	5004	3385	14451	7206	N/A
52	6/3/2018	75.4	6060	5508	3669	15237	7324	N/A
53	6/4/2018	79.4	5741	4532	3403	13676	7864	N/A
54	6/4/2018	76.2	5712	4883	3834	14429	7313	N/A
55	6/5/2018	79	6114	5896	3253	15263	7574	N/A
56	6/6/2018	78.9	5937	5457	3977	15371	8309	N/A
57	6/6/2018	77.7	5986	6211	3352	15549	7022	N/A
	AVG=	**76.8**	**6,888**	**5,148**	**3,713**	**724,475**	**361,108**	TOTAL

10/16/2026

API 47-095-02397 Farm Name David M. Hartley Well Number Packers Unit 1H				
EXHIBIT 3				
LITHOLOGY/ FORMATION	**TOP DEPTH (TVD) From Surface**	**BOTTOM DEPTH (TVD) From Surface**	**TOP DEPTH (MD) From Surface**	**BOTTOM DEPTH (MD) From Surface**
Shale w/intbd Sandstone and	0	228	0	228
Sandy shale and coal	228	528	228	528
Sandy shale	528	708	528	708
Calcareous shale	708	848	708	848
Limy shale with coal	848	1,048	848	1,048
Sandy shale	1,048	1,208	1,048	1,208
Sandy shale with coal	1,208	1,348	1,208	1,348
sandstone	1,348	1,488	1,348	1,488
Sandy shale	1,488	1,568	1,488	1,568
Shaly sandstone	1,568	1,648	1,568	1,648
Silty shale	1,648	1,708	1,648	1,708
Sandy shale	1,708	1,808	1,708	1,808
Sandy shale/coal	1,808	2,036	1,808	2,065
Big Lime	2,068	2,193	2,097	2,225
Big Injun	2,193	2,611	2,225	2,653
Gantz Sand	2,611	2,935	2,653	2,985
Fifty Foot Sandstone	2,935	3,058	2,985	3,112
Gordon	3,058	3,315	3,112	3,375
Fifth Sandstone	3,315	3,457	3,375	3,520
Bayard	3,457	3,681	3,520	3,750
Warren	3,681	4,015	3,750	4,091
Speechley	4,015	4,488	4,091	4,573
Balltown	4,315	4,884	4,396	4,980
Bradford	4,488	4,884	4,573	4,980
Benson	4,884	5,287	4,980	5,395
Alexander	5,287	5,864	5,395	5,986
Rhinestreet	5,832	6,153	5,954	6,323
Sycamore	6,153	6,260	6,323	6,467
Middlesex	6,260	6,350	6,467	6,618
Burkett	6,350	6,374	6,618	6,674
Tully	6,374	6,379	6,674	6,689
Marcellus	6,379	NA	6,689	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.

10/16/2026

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	5/9/2018
Job End Date:	6/6/2018
State:	West Virginia
County:	Tyler
API Number:	47-095-02397-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Packers 1H
Latitude:	39.38742200
Longitude:	-80.99455000
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,465
Total Base Water Volume (gal):	19,348,965
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
Fresh Water	Operator	Base Fluid					
			Water	7732-18-5	100.00000	87.38688	Density = 8.330
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	100.00000	0.21879	

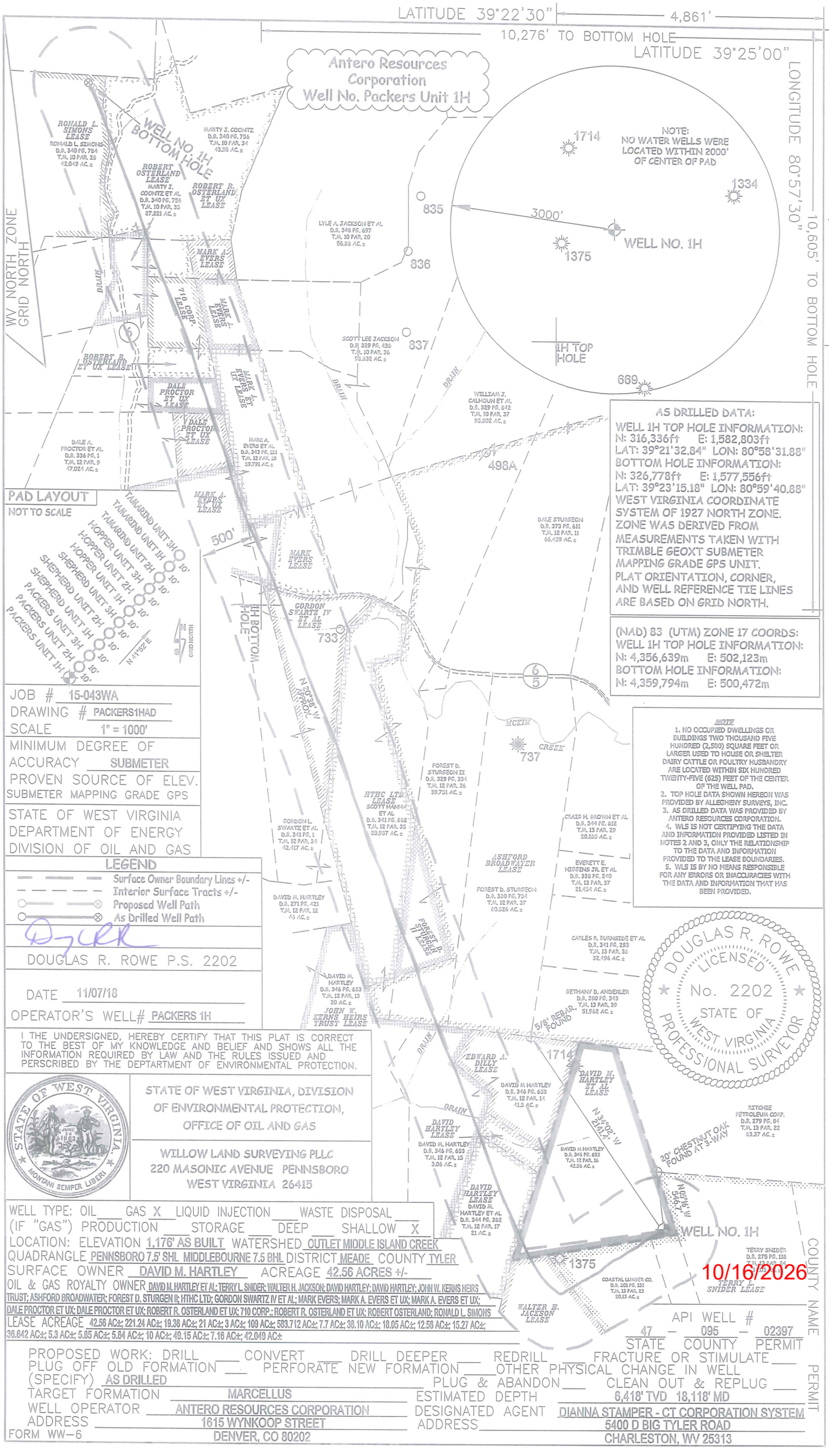
SP BREAKER	Halliburton	Breaker					
				Listed Below			
LP-70	Halliburton	Scale Inhibitor					
				Listed Below			
SAND-COMMON WHITE - 100 MESH	Halliburton	Proppant					
				Listed Below			
SAND-PREMIUM WHITE-30/50	Halliburton	Proppant					
				Listed Below			
WG-36 GELLING AGENT	Halliburton	Gelling Agent					
				Listed Below			
FR-76	Halliburton	Friction Reducer					
				Listed Below			
HAI-OS ACID INHIBITOR	Halliburton	Corrosion Inhibitor					
				Listed Below			
SAND-PREMIUM WHITE-40/70	Halliburton	Proppant					
				Listed Below			

HYDROCHLORIC ACID	Halliburton	Solvent					
				Listed Below			
MC B-8614	Halliburton	Biocide					
				Listed Below			
Items above are Trade Names with the exception of Base Water . Items below are the individual ingredients.							
			Crystalline silica, quartz	14808-60-7	100.00000	12.35448	
			Hydrochloric acid	7647-01-0	15.00000	0.02556	
			Acrylamide acrylate copolymer	Proprietary	30.00000	0.01654	Denise Tuck, Halliburton, 3000 N. Sam Houston Pkwy E., Houston, TX 77032, 281-871-6226
			Hydrotreated light petroleum distillate	64742-47-8	30.00000	0.01654	
			Inorganic salt	Proprietary	30.00000	0.01654	
			Guar gum	9000-30-0	100.00000	0.01053	
			Ethylene Glycol	107-21-1	60.00000	0.00817	
			Glutaraldehyde	111-30-8	30.00000	0.00259	
			Neutralized Polyacrylic Emulsion	Proprietary	10.00000	0.00136	
			Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl chlorides	68424-85-1	5.00000	0.00043	
			Sodium persulfate	7775-27-1	100.00000	0.00023	
			Methanol	67-56-1	60.00000	0.00009	
			Ethanol	64-17-5	1.00000	0.00009	
			Ethoxylated alcohols	Proprietary	30.00000	0.00004	
			Reaction product of acetophenone, formaldehyde, thiourea and oleic acid in dimethyl formamide	68527-49-1	30.00000	0.00004	

			Fatty acids, tall oil	Proprietary	30.00000	0.00004	
			Olefins	Proprietary	5.00000	0.00002	
			Propargyl alcohol	107-19-7	10.00000	0.00001	
			Phosphoric acid	7664-38-2	0.10000	0.00001	
			Sodium sulfate	7757-82-6	0.10000	0.00000	

* Total Water Volume sources may include various types of water including fresh water, produced water, and recycled water
** Information is based on the maximum potential for concentration and thus the total may be over 100%
*** If you are calculating a percentage of total ingredients do not add the water volume below the green line to the water volume above the green line

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


LATITUDE 39°22'30"
4,861'
10,276' TO BOTTOM HOLE
LATITUDE 39°25'00"
LONGITUDE 80°57'30"
10,605' TO BOTTOM HOLE
5,784'
LONGITUDE 80°57'30"
Antero Resources Corporation
Well No. Packers Unit 1H
WV NORTH ZONE GRID NORTH
WELL NO. 1H BOTTOM HOLE
NOTE: NO WATER WELLS WERE LOCATED WITHIN 2000' OF CENTER OF PAD
1714
1334
3000'
WELL NO. 1H
1375
1H TOP HOLE
669
835
836
837
498A
733
737
RONALD L. SIMONS LEASE
RONALD L. SIMONS D.B. 340 PG. 784 T.M. 10 PAR. 28 42.049 AC.±
MARTY J. COONTZ D.B. 340 PG. 756 T.M. 10 PAR. 34 43.56 AC.±
ROBERT OSTERLAND LEASE
MARTY J. COONTZ ET AL D.B. 340 PG. 756 T.M. 10 PAR. 35 27.221 AC.±
ROBERT R. OSTERLAND ET UX LEASE
LYLE A. JACKSON ET AL D.B. 348 PG. 697 T.M. 10 PAR. 20 56.88 AC.±
MARK A. EVERS LEASE
710 CORP. LEASE
SCOTT LEE JACKSON D.B. 329 PG. 436 T.M. 10 PAR. 36 90.832 AC.±
DALE PROCTOR ET UX LEASE
DALE A. PROCTOR ET AL D.B. 336 PG. 1 T.M. 12 PAR. 9 47.024 AC.±
MARK A. EVERS ET AL D.B. 343 PG. 551 T.M. 12 PAR. 10 59.791 AC.±
WILLIAM J. CALHOUN ET AL D.B. 329 PG. 642 T.M. 10 PAR. 37 95.802 AC.±
DALE STURGEON D.B. 373 PG. 611 T.M. 12 PAR. 11 66.439 AC.±
GORDON SWARTZ, IV ET AL LEASE
FOREST D. STURGEON II D.B. 329 PG. 334 T.M. 12 PAR. 36 99.751 AC.±
HTHC LTD LEASE SCOTT HANNA ET AL D.B. 341 PG. 662 T.M. 12 PAR. 33 55.597 AC.±
GORDON L. SWARTZ ET AL D.B. 341 PG. 1 T.M. 12 PAR. 34 42.417 AC.±
CRAIG H. BROWN ET AL D.B. 344 PG. 612 T.M. 13 PAR. 29 20.155 AC.±
ASHFORD BROADWATER LEASE
EVERETT E. HIGGINS JR. ET AL D.B. 338 PG. 240 T.M. 13 PAR. 37 21.404 AC.±
FOREST D. STURGEON D.B. 330 PG. 734 T.M. 12 PAR. 37 60.526 AC.±
DAVID M. HARTLEY D.B. 271 PG. 421 T.M. 12 PAR. 12 45 AC.±
FOREST D. STURGEON LEASE
CARLES R. BURNSIDE ET AL D.B. 341 PG. 293 T.M. 13 PAR. 38 32.496 AC.±
BETHANY D. ANDEXLER D.B. 350 PG. 343 T.M. 13 PAR. 39 51.592 AC.±
DAVID M. HARTLEY D.B. 346 PG. 653 T.M. 12 PAR. 13 20 AC.±
JOHN W. KERNS HEIRS TRUST LEASE
5/8" REBAR FOUND
EDWARD A. DILLY LEASE
DAVID M HARTLEY D.B. 346 PG. 653 T.M. 12 PAR. 14 41.5 AC.±
DAVID M. HARTLEY ET AL LEASE
DRAIN
DAVID HARTLEY LEASE
DAVID M HARTLEY D.B. 346 PG. 653 T.M. 12 PAR. 15 3.05 AC.±
DAVID M HARTLEY D.B. 346 PG. 653 T.M. 12 PAR. 16 42.56 AC.±
N 33°02' W 2141'±
RITCHIE PETROLEUM CORP. D.B. 279 PG. 84 T.M. 13 PAR. 22 83.37 AC.±
20" CHESTNUT OAK FOUND AT 3-WAY
N 69°15' W 1,042'±
DAVID HARTLEY LEASE
DAVID M. HARTLEY ET AL D.B. 344 PG. 382 T.M. 12 PAR. 17 21 AC.±
WELL NO. 1H
TERRY L. SNIDER D.B. 275 PG. 116 T.M. 13 PAR. 24 TERRY L. SNIDER LEASE
COASTAL LUMBER CO. D.B. 201 PG. 131 T.M. 13 PAR. 23 20.13 AC.±
WALTER H. JACKSON LEASE
PAD LAYOUT
NOT TO SCALE
TAMARIND UNIT 3H
TAMARIND UNIT 1H
TAMARIND UNIT 2H
HOPPER UNIT 3H
HOPPER UNIT 2H
HOPPER UNIT 1H
SHEPHERD UNIT 3H
SHEPHERD UNIT 2H
SHEPHERD UNIT 1H
PACKERS UNIT 3H
PACKERS UNIT 2H
PACKERS UNIT 1H
10'
500'
N 41°52' E
GRID NORTH
1H BOTTOM HOLE
N 20°38' W 2,870'±
AS DRILLED DATA:
WELL 1H TOP HOLE INFORMATION:
N: 316,336ft E: 1,582,803ft
LAT: 39°21'32.84" LON: 80°58'31.88"
BOTTOM HOLE INFORMATION:
N: 326,778ft E: 1,577,556ft
LAT: 39°23'15.18" LON: 80°59'40.88"
WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE.
ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE GEOXT SUBMETER MAPPING GRADE GPS UNIT.
PLAT ORIENTATION, CORNER, AND WELL REFERENCE TIE LINES ARE BASED ON GRID NORTH.
(NAD) 83 (UTM) ZONE 17 COORDS:
WELL 1H TOP HOLE INFORMATION:
N: 4,356,639m E: 502,123m
BOTTOM HOLE INFORMATION:
N: 4,359,794m E: 500,472m
NOTE
1. NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER DAIRY CATTLE OR POULTRY HUSBANDRY ARE LOCATED WITHIN SIX HUNDRED TWENTY-FIVE (625) FEET OF THE CENTER OF THE WELL PAD.
2. TOP HOLE DATA SHOWN HEREON WAS PROVIDED BY ALLEGHENY SURVEYS, INC.
3. AS DRILLED DATA WAS PROVIDED BY ANTERO RESOURCES CORPORATION.
4. WLS IS NOT CERTIFYING THE DATA AND INFORMATION PROVIDED LISTED IN NOTES 2 AND 3, ONLY THE RELATIONSHIP TO THE DATA AND INFORMATION PROVIDED TO THE LEASE BOUNDARIES.
5. WLS IS BY NO MEANS RESPONSIBLE FOR ANY ERRORS OR INACCURACIES WITH THE DATA AND INFORMATION THAT HAS BEEN PROVIDED.
JOB # 15-043WA
DRAWING # PACKERS1HAD
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY SUBMETER
PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS
STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS
LEGEND
Surface Owner Boundary Lines +/-
Interior Surface Tracts +/-
Proposed Well Path
As Drilled Well Path
DRR
DOUGLAS R. ROWE P.S. 2202
DATE 11/07/18
OPERATOR'S WELL# PACKERS 1H
DOUGLAS R. ROWE LICENSED No. 2202 STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR
I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE RULES ISSUED AND PERSCRIBED BY THE DEPTARTMENT OF ENVIRONMENTAL PROTECTION.
STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WILLOW LAND SURVEYING PLLC
220 MASONIC AVENUE PENNSBORO
WEST VIRGINIA 26415
WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW X
LOCATION: ELEVATION 1,176' AS BUILT WATERSHED OUTLET MIDDLE ISLAND CREEK
QUADRANGLE PENNSBORO 7.5' SHL MIDDLEBOURNE 7.5 BHL DISTRICT MEADE COUNTY TYLER
SURFACE OWNER DAVID M. HARTLEY ACREAGE 42.56 ACRES +/-
OIL & GAS ROYALTY OWNER DAVID M. HARTLEY ET AL; TERRY L. SNIDER; WALTER H. JACKSON; DAVID HARTLEY; DAVID HARTLEY; JOHN W. KERNS HEIRS TRUST; ASHFORD BROADWATER; FOREST D. STURGEN II; HTHC LTD; GORDON SWARTZ IV ET AL; MARK EVERS; MARK A. EVERS ET UX; MARK A. EVERS ET UX; DALE PROCTOR ET UX; DALE PROCTOR ET UX; ROBERT R. OSTERLAND ET UX; 710 CORP.; ROBERT R. OSTERLAND ET UX; ROBERT OSTERLAND; RONALD L. SIMONS
LEASE ACREAGE 42.56 AC±; 221.24 AC±; 19.38 AC±; 21 AC±; 3 AC±; 109 AC±; 583.712 AC±; 7.7 AC±; 38.10 AC±; 18.05 AC±; 12.56 AC±; 15.27 AC±; 36.642 AC±; 5.3 AC±; 5.85 AC±; 5.84 AC±; 10 AC±; 49.15 AC±; 7.16 AC±; 42.049 AC±
API WELL # 47 - 095 - 02397
STATE COUNTY PERMIT
PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___
PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) AS DRILLED PLUG & ABANDON ___ CLEAN OUT & REPLUG ___
TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,418' TVD 18,118' 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
FORM WW-6
COUNTY NAME PERMIT
10/16/2026