

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

API 47 - 085 - 10323 County Ritchie District Union
Quad Pullman 7.5' Pad Name Ireland North Pad Field/Pool Name -----
Farm name Lynwood Ireland et al Well Number Pritchard 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 4335964m Easting 508699m
Landing Point of Curve Northing 4336059.54m Easting 508619.67m
Bottom Hole Northing 4339361m Easting 507180m

Elevation (ft) 945.5' 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 11/20/2018 Date drilling commenced 9/24/2018 Date drilling ceased 1/11/2019
Date completion activities began 4/29/2019 Date completion activities ceased 8/14/2019
Verbal plugging (Y/N) N/A Date permission granted N/A Granted by N/A

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

Freshwater depth(s) ft 92', 398', 429' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 387', 1509', 1749' 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

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Reviewed by:
Dmit
12-7-20

API 47- 085 - 10323 Farm name Lynwood Ireland et al Well number Pritchard 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"	95'	New	94#, H-40	N/A	Y
Surface	17-1/2"	13-3/8"	467'	New	48#, H-40	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2570'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	18884'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	6370'		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	120	0'	8 Hrs.
Surface	Class A	425 sx	15.6	1.18	826	0'	8 Hrs.
Coal							
Intermediate 1	Class A	885 sx	15.6	1.18	1181	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	169 sx (Lead) 2489 sx (Tail)	13.5 (Lead), 15.2 (Tail)	1.53 (Lead), 1.83 (Tail)		-500' Into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 18904' MD, 6338' TVD (BHL), 6382' (Deepest Point Drilled) Loggers TD (ft) 18904' MD
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 5800'

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

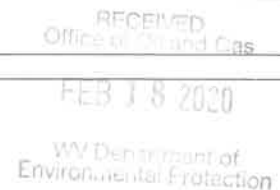
DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING _____

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- 085 - 10323 Farm name Lynwood Ireland et al Well number Pritchard Unit 2H

PRODUCING FORMATION(S)	DEPTHS	
	6330' (TOP)	TVD
Marcellus	6732' (TOP)	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 9775 mcfpd Oil 142 bpd NGL --- bpd Water 1125 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 Allied Horizontal Wireline Services
Address 381 Colonial Manor Road City North Huntington State PA Zip 15642

Cementing Company C&J Energy Services
Address 1650 Hackers Creek City Jane Lew State WV Zip 26378

Stimulating Company Baker Hughes
Address 837 Philippi Pike City Clarksburg State WV Zip 26301

Please insert additional pages as applicable.

Completed by Megan Griffith Telephone 303-357-7223
Signature  Title Permitting Agent Date 2.18.20

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

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EXHIBIT 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	4/28/2019	18736		60	Marcellus
2	4/29/2019	18533.392	18704.232	60	Marcellus
3	4/29/2019	18330.784	18501.624	60	Marcellus
4	4/29/2019	18128.176	18299.016	60	Marcellus
5	4/30/2019	17925.568	18096.408	60	Marcellus
6	4/30/2019	17722.96	17893.8	60	Marcellus
7	5/1/2019	17520.352	17691.192	60	Marcellus
8	5/1/2019	17317.744	17488.584	60	Marcellus
9	5/2/2019	17115.136	17285.976	60	Marcellus
10	5/2/2019	16912.528	17083.368	60	Marcellus
11	5/2/2019	16709.92	16880.76	60	Marcellus
12	5/3/2019	16507.312	16678.152	60	Marcellus
13	5/3/2019	16304.704	16475.544	60	Marcellus
14	5/4/2019	16102.096	16272.936	60	Marcellus
15	5/4/2019	15899.488	16070.328	60	Marcellus
16	5/4/2019	15696.88	15867.72	60	Marcellus
17	5/5/2019	15494.272	15665.112	60	Marcellus
18	5/5/2019	15291.664	15462.504	60	Marcellus
19	5/5/2019	15089.056	15259.896	60	Marcellus
20	5/6/2019	14886.448	15057.288	60	Marcellus
21	5/6/2019	14683.84	14854.68	60	Marcellus
22	5/6/2019	14481.232	14652.072	60	Marcellus
23	5/6/2019	14278.624	14449.464	60	Marcellus
24	5/7/2019	14076.016	14246.856	60	Marcellus
25	5/7/2019	13873.408	14044.248	60	Marcellus
26	5/7/2019	13670.8	13841.64	60	Marcellus
27	5/8/2019	13468.192	13639.032	60	Marcellus
28	5/8/2019	13265.584	13436.424	60	Marcellus
29	5/8/2019	13062.976	13233.816	60	Marcellus
30	5/9/2019	12860.368	13031.208	60	Marcellus
31	5/9/2019	12657.76	12828.6	60	Marcellus
32	5/9/2019	12455.152	12625.992	60	Marcellus
33	5/10/2019	12252.544	12423.384	60	Marcellus
34	5/10/2019	12049.936	12220.776	60	Marcellus
35	5/11/2019	11847.328	12018.168	60	Marcellus
36	5/11/2019	11644.72	11815.56	60	Marcellus
37	5/11/2019	11442.112	11612.952	60	Marcellus
38	5/12/2019	11239.504	11410.344	60	Marcellus
39	5/12/2019	11036.896	11207.736	60	Marcellus
40	5/12/2019	10834.288	11005.128	60	Marcellus
41	5/13/2019	10631.68	10802.52	60	Marcellus
42	5/13/2019	10429.072	10599.912	60	Marcellus
43	5/13/2019	10226.464	10397.304	60	Marcellus
44	5/13/2019	10023.856	10194.696	60	Marcellus
45	5/14/2019	9821.248	9992.088	60	Marcellus
46	5/14/2019	9618.64	9789.48	60	Marcellus
47	5/14/2019	9416.032	9586.872	60	Marcellus
48	5/15/2019	9213.424	9384.264	60	Marcellus
49	5/15/2019	9010.816	9181.656	60	Marcellus
50	5/15/2019	8808.208	8979.048	60	Marcellus
51	5/15/2019	8605.6	8776.44	60	Marcellus
52	5/16/2019	8402.992	8573.832	60	Marcellus
53	5/16/2019	8200.384	8371.224	60	Marcellus
54	5/16/2019	7997.776	8168.616	60	Marcellus
55	5/17/2019	7795.168	7966.008	60	Marcellus
56	5/17/2019	7592.56	7763.4	60	Marcellus
57	5/18/2019	7389.952	7560.792	60	Marcellus
58	5/18/2019	7187.344	7358.184	60	Marcellus
59	5/18/2019	6984.736	7155.576	60	Marcellus
60	5/18/2019	6782.128	6952.968	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	4/28/2019	65.2854	7975.417	6722	3693	174880	5137	N/A
2	4/29/2019	69.8396	8167.872	6499	4270	411200	9385	N/A
3	4/29/2019	71.0429	8065.361	6702	3392	412200	9061	N/A
4	4/29/2019	71.4623	8040.911	6681	3494	410940	8948	N/A
5	4/30/2019	74.0924	8126.777	6208	3446	411100	8936	N/A
6	4/30/2019	70.4	8160	5796	3310	413100	9013	N/A
7	5/1/2019	74.7	8203	5809	3476	410100	8872	N/A
8	5/1/2019	74.5	8016	5646	4310	411100	10502	N/A
9	5/2/2019	77.494	8041.188	5694	3968	410000	8923	N/A
10	5/2/2019	75.8703	8225.865	6078	3869	409300	8859	N/A
11	5/2/2019	78.7782	7725.869	5426	3502	411820	8831	N/A
12	5/3/2019	73.6212	8207.229	5723	3317	409800	11184	N/A
13	5/3/2019	77.2737	7446.773	5348	3245	413360	8963	N/A
14	5/4/2019	77.4556	7594.329	5594	3426	410460	8827	N/A
15	5/4/2019	77.0797	8065.673	5568	3374	413500	8888	N/A
16	5/4/2019	78.4882	7752.977	5850	3527	413260	9159	N/A
17	5/5/2019	74.8692	7961.284	5671	4913	282840	10227	N/A
18	5/5/2019	79.7252	7968.958	5556	4650	410900	8836	N/A
19	5/5/2019	77.396	7510.768	5555	3194	411050	8781	N/A
20	5/6/2019	77.3476	7110.484	5019	3739	410020	8802	N/A
21	5/6/2019	77.5264	7790.948	5848	3058	418700	8958	N/A
22	5/6/2019	77.1753	7446.602	3619	3210	411740	8703	N/A
23	5/6/2019	72.3202	7907.157	6289	4148	405160	10888	N/A
24	5/7/2019	76.8702	8171.282	6193	3714	414800	9882	N/A
25	5/7/2019	76.023	7740.369	5925	3360	415300	9701	N/A
26	5/7/2019	74.7481	7545.966	6143	3187	412220	8908	N/A
27	5/8/2019	74.7823	7301.328	5995	3103	413500	8827	N/A
28	5/8/2019	75.3406	7683.875	5826	3567	416200	9343	N/A
29	5/8/2019	64.8634	7992.298	6060	3257	411590	11485	N/A
30	5/9/2019	71.8886	8014.514	6034	3795	413400	8760	N/A
31	5/9/2019	76.5757	7548.993	6568	4847	414700	9090	N/A
32	5/9/2019	75.4128	7306.201	6167	3680	414400	8588	N/A
33	5/10/2019	66.8	7913	6289	4591	412300	14395	N/A
34	5/10/2019	71.8724	7570.737	6205	3319	416750	8972	N/A
35	5/11/2019	72.1683	7489.303	5916	3064	418900	10175	N/A
36	5/11/2019	76.079	7350.27	5917	3371	410800	8700	N/A
37	5/11/2019	73.8214	7326.802	5511	3245	421880	9038	N/A
38	5/12/2019	74.3321	7316.908	6227	3468	421260	9155	N/A
39	5/12/2019	71.8983	7159.484	5977	3727	415300	9081	N/A
40	5/12/2019	72.3976	7254.043	5835	3162	420100	8917	N/A
41	5/13/2019	71.4364	7271.919	5714	3644	416400	8983	N/A
42	5/13/2019	75.8297	7452.309	5852	4299	382900	10192	N/A
43	5/13/2019	72.5811	7465.313	5790	4723	401720	8843	N/A
44	5/13/2019	73.1803	7309.672	5905	3686	412000	9450	N/A
45	5/14/2019	74.3587	7070.432	5826	3104	410700	10518	N/A
46	5/14/2019	72.5964	7095.576	6128	3081	412200	8841	N/A
47	5/14/2019	69.7688	7101.222	4640	3448	419780	8535	N/A
48	5/15/2019	74.7771	6859.395	5965	3408	409380	8446	N/A
49	5/15/2019	74.5459	7171.019	6006	3375	412460	8549	N/A
50	5/15/2019	76.6788	7109.286	5813	5087	416980	8558	N/A
51	5/15/2019	74.3793	6943.178	5989	3452	419040	8453	N/A
52	5/16/2019	74.0505	7254.77	5888	3121	413040	8683	N/A
53	5/16/2019	75.1503	7026.682	6472	3194	415820	8617	N/A
54	5/16/2019	72.409	7100.84	6524	3293	413150	8737	N/A
55	5/17/2019	70.6	7257	6415	3763	368300	10607	N/A
56	5/17/2019	73.011	6931.803	6027	5742	290080	8528	N/A
57	5/18/2019	76.5135	6736.734	5905	3606	415480	8576	N/A
58	5/18/2019	75.2195	6626.651	6035	3278	412840	8662	N/A
59	5/18/2019	70.8607	6788.561	6493	3242	411010	8545	N/A
60	5/18/2019	69.4211	6705.591	6328	2910	416580	8331	N/A
	AVG.	74.2	7,706	5,885	3,654	18,183,650	419,686	TOTAL

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EXHIBIT 3

LITHOLOGY/ FORMATION	TOP DEPTH (TVD)		BOTTOM DEPTH (TVD)		TOP DEPTH (MD)		BOTTOM DEPTH (MD)	
	From Surface		From Surface		From Surface		From Surface	
Silty Sandstone	65		125		65		125	
Sandstone	125		165		125		165	
Silty sandstone tr coal	165		525		165		525	
Shaly siltstone tr coal	525		685		525		685	
Shaly siltstone	685		505		685		505	
Silty Sandstone	505		985		505		985	
Silty sandstone	985		825		985		825	
Silty Sandstone	825		1,105		825		1,105	
Siltstone	1,105		1,285		1,105		1,285	
Siltstone tr coal	1,285		1,405		1,285		1,405	
Sandstone tr coal	1,405		1,525		1,405		1,525	
Shaly siltstone tr coal	1,525		1,705		1,525		1,705	
Silty sandstone tr coal	1,705		1,883		1,705		1,898	
Big Lime	1,898		2,405		1,868		2,406	
Fifty Foot Sandstone	2,405		2,608		2,376		2,608	
Gordon	2,608		2,888		2,578		2,889	
Fifth Sandstone	2,888		2,969		2,859		2,970	
Bayard	2,969		3,725		2,940		3,735	
Speechley	3,725		3,892		3,705		3,905	
Balltown	3,892		4,418		3,875		4,444	
Bradford	4,418		4,809		4,414		4,845	
Benson	4,809		5,055		4,815		5,096	
Alexander	5,055		6,202		5,066		6,318	
Sycamore	6,004		6,172		6,069		6,288	
Middlesex	6,172		6,277		6,288		6,492	
Burkett	6,277		6,312		6,492		6,612	
Tully	6,312		6,330		6,612		6,732	
Marcellus	6,330		NA		6,732		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	4/28/2019
Job End Date	5/18/2019
State	West Virginia
County	Ritchie
API Number	47-085-10323-00-00
Operator Name	Antero Resources Corporation
Well Name and Number	Pritchard 2H
Latitude	39.17277000
Longitude	-80.89946100
Datum	NAD83
Federal Well	NO
Indian Well	NO
True Vertical Depth	6,382
Total Base Water Volume (gal)	23,833,714
Total Base Non Water Volume	0



Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	Antero Resources	Carrier/Base Fluid	Water	7732-18-5	100.00000	88.90499	
Sand	J.S. Well Services, LLC	Proppant					
HCL Acid (12.6%-17.5%)	J.S. Well Services, LLC	Bulk Acid	Crystalline Silica, quartz	14808-60-7	100.00000	10.83722	
			Water	7732-18-5	87.40000	0.10911	
			Hydrogen Chloride	7647-01-0	17.50000	0.02537	
LGC-15	J.S. Well Services, LLC	Gelling Agents					
			Guar Gum	9000-30-0	50.00000	0.03180	
			Petroleum Distillates	54742-47-8	60.00000	0.03011	
			Suspending agent (solid)	14808-60-7	3.00000	0.00486	
			Surfactant	58439-51-0	3.00000	0.00191	
WFRA-405	J.S. Well Services, LLC	Friction Reducer					
			2-Propenoic acid, polymer with propenamide	29003-06-9	30.00000	0.01852	
			Hydrated light distillate (petroleum)	54742-47-8	30.00000	0.01491	

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SI-1200s	U.S. Well Services, LLC	Scale Inhibitor	Water	7732-18-5	98.00000	0.00764	
			Sodium Chloride	7647-14-5	10.00000	0.00078	
			Sodium Salt of Diethylenetriaminepenta(methylenephosphonic acid)	68155-78-2	10.00000	0.00078	
Bioclear 2000	U.S. Well Services, LLC	Anti-Bacterial Agent	2,2-dibromo-3-nitropropionamide	10222-01-2	20.00000	0.00420	
			Deionized Water	7732-18-5	28.00000	0.00240	
SI-1300	U.S. Well Services, LLC	Scale Inhibitor	Ethylene glycol	107-21-1	40.00000	0.00227	
			Proprietary Scale Inhibitor	Proprietary	20.00000	0.00084	
SI-1200	U.S. Well Services, LLC	Scale Inhibitor	Water	7732-18-5	80.00000	0.00063	
			Ethylene Glycol	107-21-1	40.00000	0.00045	
			Sodium Chloride	7647-14-5	10.00000	0.00008	
			Sodium Salt of Diethylenetriaminepenta(methylenephosphonic acid)	68155-78-2	10.00000	0.00008	
AP One	U.S. Well Services, LLC	Gel Breakers	Ammonium Persulfate	7727-54-0	100.00000	0.00097	
AI-303	U.S. Well Services, LLC	Acid Corrosion Inhibitors	Ethylene glycol	107-21-1	40.00000	0.00004	
			Formic acid	64-18-6	20.00000	0.00001	
			Cinnamaldehyde	104-55-2	20.00000	0.00001	
			Butyl cellosolve	111-76-2	20.00000	0.00001	
			Polyether	50828-78-6	10.00000	0.00001	
			Acetophenone,thiourea,formaldehyde polymer	58527-49-1	5.00000	0.00000	

Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.

* Total Water Volume sources may include fresh water, produced water, and/or recycled water
 ** Information is based on the maximum potential for concentration and thus the total may be over 100%

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

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LATITUDE 39°12'30"

6,935'

99' TO BOTTOM HOLE
LATITUDE 39°12'30"

LONGITUDE 80°55'00"

1,797' TO BOTTOM HOLE

LONGITUDE 80°52'30"

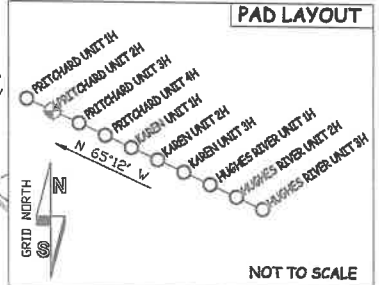
COUNTY NAME

PERMIT

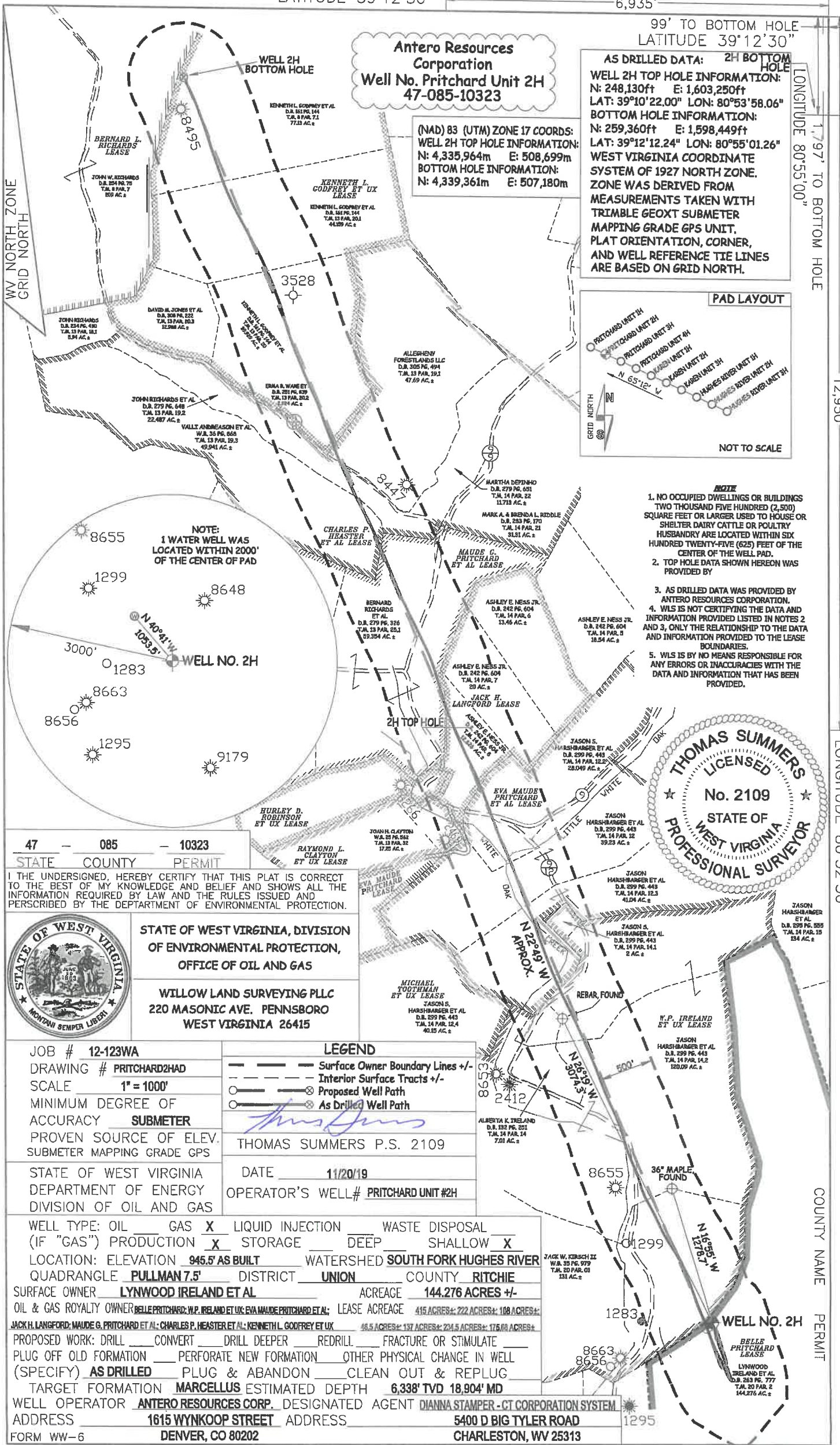
Antero Resources Corporation
Well No. Pritchard Unit 2H
47-085-10323

(NAD) 83 (UTM) ZONE 17 COORDS:
WELL 2H TOP HOLE INFORMATION:
N: 4,335,964m E: 508,699m
BOTTOM HOLE INFORMATION:
N: 4,339,361m E: 507,180m

AS DRILLED DATA: 2H BOTTOM HOLE
WELL 2H TOP HOLE INFORMATION:
N: 248,130ft E: 1,603,250ft
LAT: 39°10'22.00" LON: 80°53'58.06"
BOTTOM HOLE INFORMATION:
N: 259,360ft E: 1,598,449ft
LAT: 39°12'12.24" LON: 80°55'01.26"
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.



- 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
 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.



47 - 085 - 10323
STATE COUNTY PERMIT

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.



STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WILLOW LAND SURVEYING PLLC
220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415

JOB # 12-123WA
DRAWING # PRITCHARD2HAD
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY SUBMETER
PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

LEGEND
--- Surface Owner Boundary Lines +/-
--- Interior Surface Tracts +/-
○ Proposed Well Path
○ As Drilled Well Path
THOMAS SUMMERS P.S. 2109

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS

DATE 11/20/19
OPERATOR'S WELL# PRITCHARD UNIT #2H

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS") PRODUCTION STORAGE ___ DEEP ___ SHALLOW
LOCATION: ELEVATION 945.5' AS BUILT WATERSHED SOUTH FORK HUGHES RIVER
QUADRANGLE PULLMAN 7.5' DISTRICT UNION COUNTY RITCHIE
SURFACE OWNER LYNWOOD IRELAND ET AL ACREAGE 144.276 ACRES +/-
OIL & GAS ROYALTY OWNER BELLE PRITCHARD, W.P. IRELAND ET AL; EVA MAUDE PRITCHARD ET AL; LEASE ACREAGE 415 ACRES; 222 ACRES; 108 ACRES;
JACK H. LANGFORD; MAUDE G. PRITCHARD ET AL; CHARLES P. HEASTER ET AL; KENNETH L. GODFREY ET AL 46.5 ACRES; 137 ACRES; 224.5 ACRES; 175.0 ACRES;
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 6,338' TVD 18,904' MD
WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER - GT CORPORATION SYSTEM
ADDRESS 1615 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD
FORM WW-6 DENVER, CO 80202 CHARLESTON, WV 25313

