

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

API 47 - 095 - 02726 County Tyler District Ellsworth
Quad Shirley Pad Name Blizzard Field/Pool Name -----
Farm name Roger D Blizzard & Ruth E Spencer Well Number Whitmore 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 4372110m Easting 512816m
Landing Point of Curve Northing 4372047.75m Easting 512933.31m
Bottom Hole Northing 4367358m Easting 514562m

Elevation (ft) 1004' 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 2/2/21 Date drilling commenced 5/12/2021 Date drilling ceased 6/28/2021
Date completion activities began 8/3/2021 Date completion activities ceased 10/23/2021
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 16' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 1813' 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:

WR-35
Rev. 8/23/13

API 47-095 - 02726 Farm name Roger D Blizzard & Ruth E Spencer Well number Whitmore 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"	80'	New	94#, H-40	N/A	Y
Surface	17-1/2"	13-3/8"	359'	New	54.5#, J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2576'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	23756'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	6747'		4.7#, P-110		
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	266 sx	15.6	1.18	56	0'	8 Hrs.
Surface	Class A	531 sx	15.6	1.20	113	0'	8 Hrs.
Coal							
Intermediate 1	Class A	880sx	15.6	1.19	187	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	792 sx (Lead) 3810 sx (Tail)	13.5 (Lead), 15.2(Tail)	1.4 (Lead), 1.26 (Tail)	855	~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 23802' MD, 6627' TVD (BHL), 6628' (Deepest Point Drilled) Loggers TD (ft) 23802' MD
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 5619'

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 - 02726 Farm name Roger D Blizzard & Ruth E Spencer Well number Whitmore Unit 1H

PRODUCING FORMATION(S)	DEPTHS		
	DEPTH (TOP)	TVD	DEPTH (TOP) MD
Marcellus	6470'		6864'

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 9466 mcfpd Oil 237 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 H & P Drilling
Address 912 N Eagle Valley Rd City Howard State PA Zip 16841

Logging Company Nine Energy Services
Address 6500 West Fwy City Fort Worth State TX Zip 76116

Cementing Company Shclumberger
Address 5599 San Felipe St City Houston State TX Zip 77056

Stimulating Company Halliburton
Address 3000 W. Sam Houston Pkwy City Houston State TX Zip 76114

Please insert additional pages as applicable.

Completed by Brandi Hankins Telephone 303-357-7223
Signature  Title Completions Technician Date 3/31/22

API 47-095-02726 Farm Name Roger D Blizzard & Ruth E Spencer Well Number Whitmore Unit 1H					
Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	08/03/2021	23682	23637	36	Marcellus
2	08/03/2021	23598.42169	23432.5301	36	Marcellus
3	08/04/2021	23396.95181	23231.0602	36	Marcellus
4	08/04/2021	23195.48193	23029.5904	36	Marcellus
5	08/05/2021	22994.01205	22828.1205	36	Marcellus
6	08/05/2021	22792.54217	22626.6506	36	Marcellus
7	08/06/2021	22591.07229	22425.1807	36	Marcellus
8	08/06/2021	22389.60241	22223.7108	36	Marcellus
9	08/06/2021	22188.13253	22022.241	36	Marcellus
10	08/07/2021	21986.66265	21820.7711	36	Marcellus
11	08/07/2021	21785.19277	21619.3012	36	Marcellus
12	08/08/2021	21583.72289	21417.8313	36	Marcellus
13	08/08/2021	21382.25301	21216.3614	36	Marcellus
14	08/08/2021	21180.78313	21014.8916	36	Marcellus
15	08/09/2021	20979.31325	20813.4217	36	Marcellus
16	08/09/2021	20777.84337	20611.9518	36	Marcellus
17	08/09/2021	20576.37349	20410.4819	36	Marcellus
18	08/10/2021	20374.90361	20209.012	36	Marcellus
19	08/10/2021	20173.43373	20007.5422	36	Marcellus
20	08/10/2021	19971.96386	19806.0723	36	Marcellus
21	08/11/2021	19770.49398	19604.6024	36	Marcellus
22	08/11/2021	19569.0241	19403.1325	36	Marcellus
23	08/12/2021	19367.55422	19201.6627	36	Marcellus
24	08/12/2021	19166.08434	19000.1928	36	Marcellus
25	08/13/2021	18964.61446	18798.7229	36	Marcellus
26	08/13/2021	18763.14458	18597.253	36	Marcellus
27	08/13/2021	18561.6747	18395.7831	36	Marcellus
28	08/14/2021	18360.20482	18194.3133	36	Marcellus
29	08/14/2021	18158.73494	17992.8434	36	Marcellus
30	08/14/2021	17957.26506	17791.3735	36	Marcellus
31	08/15/2021	17755.79518	17589.9036	36	Marcellus
32	08/15/2021	17554.3253	17388.4337	36	Marcellus
33	08/16/2021	17352.85542	17186.9639	36	Marcellus
34	08/16/2021	17151.38554	16985.494	36	Marcellus
35	08/16/2021	16949.91566	16784.0241	36	Marcellus
36	08/17/2021	16748.44578	16582.5542	36	Marcellus
37	08/17/2021	16546.9759	16381.0843	36	Marcellus
38	08/17/2021	16345.50602	16179.6145	36	Marcellus
39	08/18/2021	16144.03614	15978.1446	36	Marcellus
40	08/18/2021	15942.56627	15776.6747	36	Marcellus
41	08/19/2021	15741.09639	15575.2048	36	Marcellus
42	08/19/2021	15539.62651	15373.7349	36	Marcellus
43	08/19/2021	15338.15663	15172.2651	36	Marcellus
44	08/19/2021	15136.68675	14970.7952	36	Marcellus
45	08/20/2021	14935.21687	14769.3253	36	Marcellus
46	08/20/2021	14733.74699	14567.8554	36	Marcellus
47	08/20/2021	14532.27711	14366.3855	36	Marcellus
48	08/21/2021	14330.80723	14164.9157	36	Marcellus
49	08/21/2021	14129.33735	13963.4458	36	Marcellus
50	08/21/2021	13927.86747	13761.9759	36	Marcellus
51	08/22/2021	13726.39759	13560.506	36	Marcellus
52	08/22/2021	13524.92771	13359.0361	36	Marcellus
53	08/23/2021	13323.45783	13157.5663	36	Marcellus
54	08/23/2021	13121.98795	12956.0964	36	Marcellus
55	08/23/2021	12920.51807	12754.6265	36	Marcellus
56	08/23/2021	12719.04819	12553.1566	36	Marcellus
57	08/24/2021	12517.57831	12351.6867	36	Marcellus
58	08/24/2021	12316.10843	12150.2169	36	Marcellus
59	08/25/2021	12114.63855	11948.747	36	Marcellus
60	08/25/2021	11913.16867	11747.2771	36	Marcellus
61	08/25/2021	11711.6988	11545.8072	36	Marcellus
62	08/26/2021	11510.22892	11344.3373	36	Marcellus
63	08/26/2021	11308.75904	11142.8675	36	Marcellus
64	08/26/2021	11107.28916	10941.3976	36	Marcellus
65	08/27/2021	10905.81928	10739.9277	36	Marcellus
66	08/27/2021	10704.3494	10538.4578	36	Marcellus
67	08/28/2021	10502.87952	10336.988	36	Marcellus
68	08/29/2021	10301.40964	10135.5181	36	Marcellus
69	08/29/2021	10099.93976	9934.04819	36	Marcellus
70	08/29/2021	9898.46988	9732.57831	36	Marcellus
71	08/30/2021	9697	9531.10843	36	Marcellus
72	08/30/2021	9495.53012	9329.63855	36	Marcellus
73	08/30/2021	9294.060241	9128.16867	36	Marcellus
74	09/01/2021	9092.590361	8926.6988	36	Marcellus
75	09/01/2021	8891.120482	8725.22892	36	Marcellus
76	09/01/2021	8689.650602	8523.75904	36	Marcellus
77	09/01/2021	8488.180723	8322.28916	36	Marcellus
78	09/02/2021	8286.710843	8120.81928	36	Marcellus
79	09/02/2021	8085.240964	7919.3494	36	Marcellus
80	09/02/2021	7883.771084	7717.87952	36	Marcellus
81	09/02/2021	7682.301205	7516.40964	36	Marcellus
82	09/03/2021	7480.831325	7314.93976	36	Marcellus
83	09/03/2021	7279.361446	7113.46988	36	Marcellus
84	09/03/2021	7077.891566	6912	36	Marcellus

API 47-095-02726 Farm Name Roger D Blizzard & Ruth E Spencer Well Number Whitmore 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	08/03/2021	81.19	10311	12485	3643.86	176951	269661	N/A
2	08/03/2021	86.52	10219	5893	4423	406980	335878	N/A
3	08/04/2021	79.84	9702	5769	4409	403550	325455	N/A
4	08/04/2021	81.4	10073	5750	3546	412130	325817	N/A
5	08/05/2021	92.98	10941	5478	3992	404138	313392	N/A
6	08/05/2021	84.98	10186	5327	3403	403439	315776	N/A
7	08/06/2021	91.56	10817	5995	3946	403218	302830	N/A
8	08/06/2021	90.14	10677	6690	3798	402470	299295	N/A
9	08/06/2021	95.86	10853	6369	4049	403902	298282	N/A
10	08/07/2021	95.79	10701	9336	4080	402320	339066	N/A
11	08/07/2021	95.92	10725	9148	4141	406560	298191	N/A
12	08/08/2021	96.45	10846	10125	4611	404212	293574	N/A
13	08/08/2021	97.21	10883	10340	4142	406720	300191	N/A
14	08/08/2021	91.45	10246	9845	4170	406077	292675	N/A
15	08/09/2021	97.26	10680	10212	3782	404500	293647	N/A
16	08/09/2021	90.37	9857	10092	3684	403980	292149	N/A
17	08/09/2021	94.41	10385	9523	3768	407278	293598	N/A
18	08/10/2021	98.32	10660	9650	4352	403346	296035	N/A
19	08/10/2021	93.59	9994	5860	3221	404772	303875	N/A
20	08/10/2021	98.73	10551	9815	4156	404287	296680	N/A
21	08/11/2021	96.65	10561	6789	3685	402855	294092	N/A
22	08/11/2021	90.88	9909	6225	4276.04	404540	382466	N/A
23	08/12/2021	95.42	10041	9466	3743	402722	289766	N/A
24	08/12/2021	95.22	10064	9179	4107	403343	290228	N/A
25	08/13/2021	95.8	10069	10295	3423	403995	291219	N/A
26	08/13/2021	98.21	9896	7249	3844	411000	293605	N/A
27	08/13/2021	94.55	10030	8240	3714	409641	293245	N/A
28	08/14/2021	97.93	10058	9850	3443	403889	289527	N/A
29	08/14/2021	96.91	10011	9302	3677	400813	291067	N/A
30	08/14/2021	93.38	9936	8752	3620	404732	294304	N/A
31	08/15/2021	96.28	10060	8058	4047	406273	289344	N/A
32	08/15/2021	92.36	9841	8706	3340	402580	290594	N/A
33	08/16/2021	69.89	9737	7687	3617	403125	450580	N/A
34	08/16/2021	84.41	9761	6442	3317	407196	291788	N/A
35	08/16/2021	95.77	9731	7009	3788	403894	289567	N/A
36	08/17/2021	91.19	9722	8821	4399	403891	287837	N/A
37	08/17/2021	89.49	8942	8783	4523	403060	288694	N/A
38	08/17/2021	83.99	9148	3603	4144	403735	345662	N/A
39	08/18/2021	92.96	9231	2971	3967	403769	284652	N/A
40	08/18/2021	93.63	9664	8744	3806	403473	285284	N/A
41	08/19/2021	91.31	9332	9120	4141	403800	287245	N/A
42	08/19/2021	96	9553	6554	3769	404580	287845	N/A
43	08/19/2021	96.95	9302	8920	3954	403341	281500	N/A
44	08/19/2021	95.14	9533	8855	3996	403808	281653	N/A
45	08/20/2021	95.9	9311	9117	4029	404660	285270	N/A
46	08/20/2021	96.92	9419	8182	3552	402372	285990	N/A
47	08/20/2021	90.74	8659	8836	4205	407469	284362	N/A
48	08/21/2021	97.52	9388	8585	3869	403229	282641	N/A
49	08/21/2021	96.3	8996	8334	3865	403270	281997	N/A
50	08/21/2021	98.07	9032	5851	3769	402120	289700	N/A
51	08/22/2021	95.46	8943	9120	3711	405353	283195	N/A
52	08/22/2021	98.56	8807	6974	3711	403540	306004	N/A
53	08/23/2021	97.28	8907	7258	3927	403117	279887	N/A
54	08/23/2021	95.72	8710	8448	4127	406260	312666	N/A
55	08/23/2021	99.3	8954	7528	4034	403140	283504	N/A
56	08/23/2021	95.24	8756	7911	3596	403558	283278	N/A
57	08/24/2021	97.79	8975	7985	3957	409075	284007	N/A
58	08/24/2021	97.55	8861	7957	3886	403562	286378	N/A
59	08/25/2021	97.32	8963	8562	4114	403740	281655	N/A
60	08/25/2021	96.48	8792.76	7226.8	4317.98	409800	295230	N/A
61	08/25/2021	98.53	8798	8178	4019	406300	279013	N/A
62	08/26/2021	96.5	8530	7984	3816	403883	381625	N/A
63	08/26/2021	98.62	9062	7096	3857	403550	282201	N/A
64	08/26/2021	94.32	8504	6653	3968	404240	335475	N/A
65	08/27/2021	97.94	8854	8140	3990	407851	284170	N/A
66	08/27/2021	99.03	8884	7559	3693	418700	279690	N/A
67	08/28/2021	98.43	8497	6925	3623	406190	284735	N/A
68	08/29/2021	95.41	8336	7669	4194	404480	281397	N/A
69	08/29/2021	99.86	8537	7322	3861	403940	291039	N/A
70	08/29/2021	98.81	8377	8040	3787	407180	282959	N/A
71	08/30/2021	96.37	8675	7792	3881	403856	281401	N/A
72	08/30/2021	96.52	8332	7313	3443	396600	298848	N/A
73	08/30/2021	98.3	8223	8171	3943	403625	277809	N/A
74	09/01/2021	60.22	8685	7251	3441	408132	478641	N/A
75	09/01/2021	99.74	7914	8324	3345	408240	286141	N/A
76	09/01/2021	98.87	8110	8726	3431	404094	282316	N/A
77	09/01/2021	97.37	7833	7248	3381	408980	280787	N/A
78	09/02/2021	76.64	9204	7902	3460	407100	420333	N/A
79	09/02/2021	96.9	7647	5180	3463	402400	278559	N/A
80	09/02/2021	94.24	7540	5596	3917	405540	281232	N/A
81	09/02/2021	96.95	7566	6951	3587	414060	286299	N/A
82	09/03/2021	97.2	7386	7268	3419	408860	279203	N/A
83	09/03/2021	97.88	7313	7038	3516	408200	286203	N/A
84	09/03/2021	99.07	7100	6310	3498	408720	279946	N/A
	AVG=	94	9,343	7,831	3,844	33,803,871	25,223,617	TOTAL

API 47-095-02726 Farm Name Roger D Blizzard & Ruth E Spencer Well Number Whitmore 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
Shaley Sandstone	74	214	74	214
Sandy Shale	214	364	214	364
Shaley Sandstone	364	514	364	514
Limestone, Tr Shale	514	544	514	544
Sandstone	544	664	544	664
Limestone, Tr Coal	664	694	664	694
Shaley Sandstone, Tr Coal	694	784	694	784
Shale, Tr Sandstone	784	1,204	784	1,204
Sandy Shale, Limestone, Tr Coal	1,204	1,354	1,204	1,354
Sandy Shale	1,354	1,504	1,354	1,504
Sandstone, Tr Shale, Tr Coal	1,504	1,624	1,504	1,624
Sandy Shale	1,624	1,834	1,624	1,834
Shaly Sandstone, Tr coal	1,834	1,862	1,834	1,864
Big Lime	1,888	2,629	1,864	2,631
Fifty Foot Sandstone	2,629	2,699	2,605	2,701
Gordon	2,699	2,997	2,675	3,004
Fifth Sandstone	2,997	3,052	2,978	3,062
Bayard	3,052	3,866	3,036	3,921
Speechley	3,866	4,172	3,895	4,236
Balltown	4,172	4,530	4,210	4,606
Bradford	4,530	4,948	4,580	5,039
Benson	4,948	5,171	5,013	5,268
Alexander	5,171	6,325	5,242	6,509
Sycamore	6,184	6,299	6,327	6,483
Middlesex	6,299	6,390	6,483	6,640
Burkett	6,390	6,416	6,640	6,695
Tully	6,416	6,470	6,695	6,864
Marcellus	6,470	NA	6,864	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:	8/2/2021
Job End Date:	9/3/2021
State:	West Virginia
County:	Tyler
API Number:	47-095-02726-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	WHITMORE UNIT 1H
Latitude:	39.49844200
Longitude:	-80.85111000
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,628
Total Base Water Volume (gal):	26,852,764
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 Mixture	Halliburton	Base Fluid					
			Water	7732-18-5	100.00000	86.95647	Density = 8.50
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	100.00000	0.08496	

Excelerate LX-15	Halliburton	Friction Reducer					
				Listed Below			
HYDROCHLORIC ACID, 22 BAUME	Halliburton	Solvent					
				Listed Below			
OPTIFLO-II DELAYED RELEASE BREAKER	Halliburton	Breaker					
				Listed Below			
HAI-501	Halliburton	Acid Corrosion Inhibitor					
				Listed Below			
Sand-Common White-100 Mesh, SSA-2	Halliburton	Proppant					
				Listed Below			
FLUID Enviro-Syn HCR-7000-WL	Fluid Energy Group	Acid Replacement					
				Listed Below			
WG-36 GELLING AGENT	Halliburton	Gelling Agent					
				Listed Below			
MC B-8614A	MultiChem	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	12.87837
			Complex Amine Compound	Proprietary	60.00000	0.03040
			Hydrotreated light petroleum distillate	64742-47-8	30.00000	0.01520
			Hydrochloric acid	7647-01-0	30.00000	0.01356
			Proprietary	Proprietary	20.00000	0.01083
			Guar gum	9000-30-0	100.00000	0.00558
			Proprietary	Proprietary	10.00000	0.00541
			Glutaraldehyde	111-30-8	30.00000	0.00280
			Surfactant	Proprietary	5.00000	0.00253
			Sobitan, mono-9-octadecenoate, (Z)	1338-43-8	5.00000	0.00253
			Ethoxylated alcohols	Proprietary	5.00000	0.00051
			Alkoxylated polyhydric alcohol	Proprietary	1.00000	0.00051
			Organic chloride compound	Proprietary	1.00000	0.00051
			Alkyl (C12-16) dimethylbenzyl ammonium chloride	68424-85-1	5.00000	0.00047
			Ammonium persulfate	7727-54-0	100.00000	0.00013
			Ethanol	64-17-5	1.00000	0.00009
			Methanol	67-56-1	100.00000	0.00008
			Oxylated phenolic resin	Proprietary	30.00000	0.00004
			Mixture of dimer and trimer fatty acids of indefinite composition derived from tall oil	61790-12-3	30.00000	0.00003
			Modified thiourea polymer	Proprietary	30.00000	0.00003
			Organic salt #1	Proprietary	0.01000	0.00001
			Organic salt #2	Proprietary	0.01000	0.00001
			Acrylamide	79-06-1	0.01000	0.00001
			Sodium glycolate	2836-32-0	0.01000	0.00001

			Formaldehyde	50-00-0	0.01000	0.00001	
			Nitrated acetate salt	Proprietary	0.01000	0.00001	
			Sodium hydroxide	1310-73-2	0.01000	0.00001	
			Hexadecene	629-73-2	5.00000	0.00000	
			Propargyl alcohol	107-19-7	5.00000	0.00000	
			C.I. pigment Orange 5	3468-63-1	1.00000	0.00000	

* Total Water Volume sources may include various types of water including fresh water, produced water, and recycled water

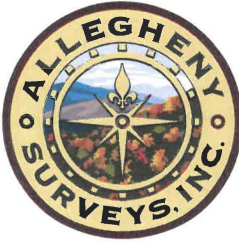
** Information is based on the maximum potential for concentration and thus the total may be over 100%

*** 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)

Antero Resources
Well No. Whitmore 1H
As-Drilled
Antero Resources Corporation



Wellhead Layout

N 44°06' E 150'

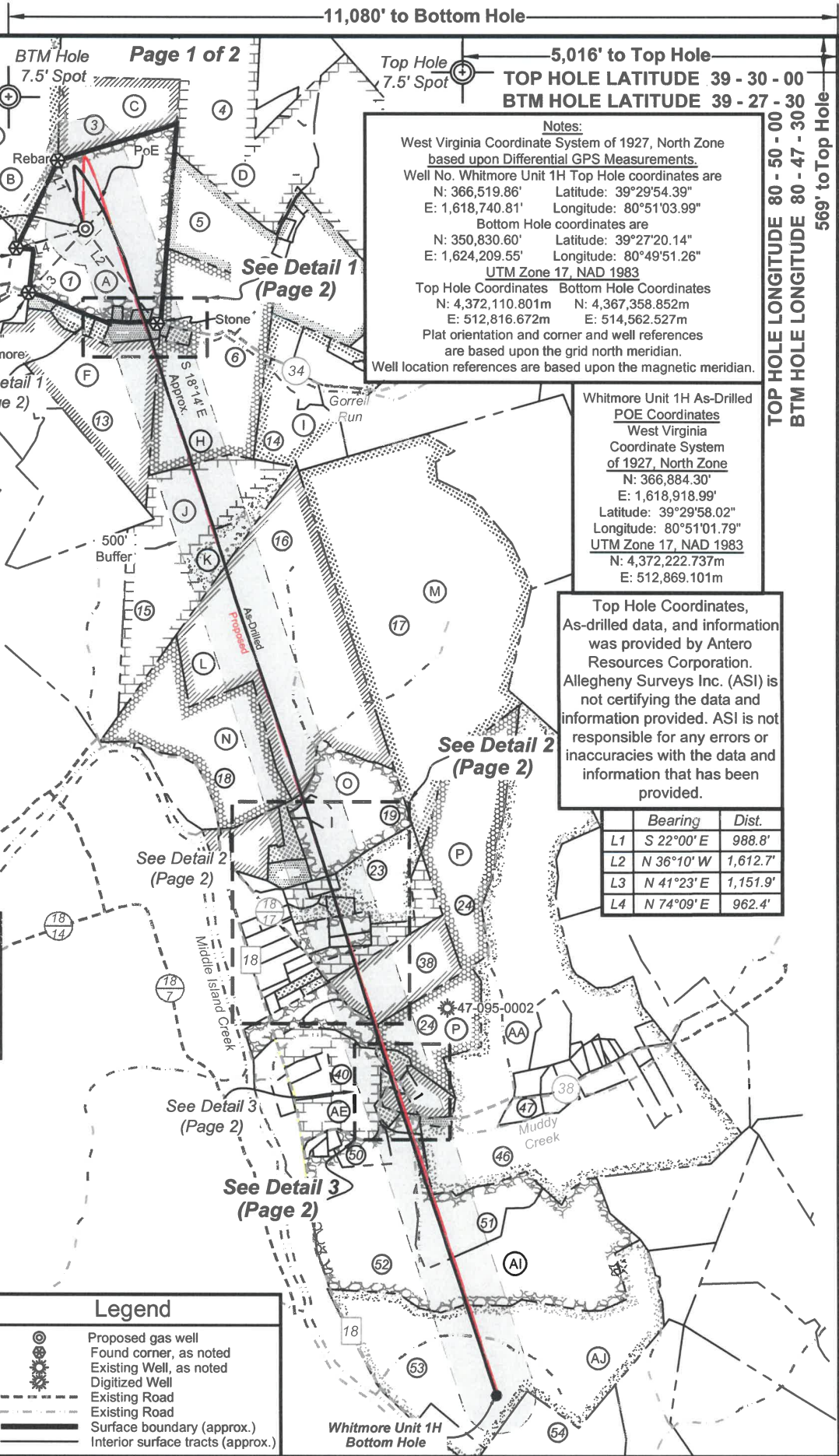
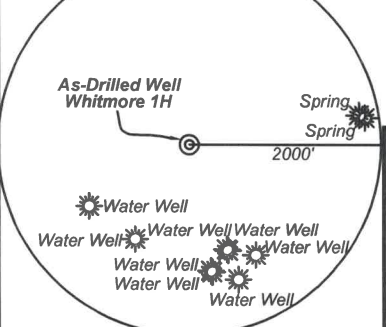
- Pechora Unit 2H
47-095-02725
- Pechora Unit 1H
47-095-02724
- Whitmore Unit 2H
47-095-02727
- As-Drilled**
- Whitmore Unit 1H**
47-095-02726
- Wade Unit 2H
47-095-02728
- Wade Unit 1H
47-095-02729



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

Note: 8 water wells and 2 springs 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. Whitmore Unit 1H Top Hole coordinates are
 N: 366,519.86' Latitude: 39°29'54.39"
 E: 1,618,740.81' Longitude: 80°51'03.99"
 Bottom Hole coordinates are
 N: 350,830.60' Latitude: 39°27'20.14"
 E: 1,624,209.55' Longitude: 80°49'51.26"
 UTM Zone 17, NAD 1983
 Top Hole Coordinates Bottom Hole Coordinates
 N: 4,372,110.801m N: 4,367,358.852m
 E: 512,816.672m E: 514,562.527m
 Plat orientation and corner and well references are based upon the grid north meridian.
 Well location references are based upon the magnetic meridian.

Whitmore Unit 1H As-Drilled POE Coordinates
 West Virginia Coordinate System of 1927, North Zone
 N: 366,884.30'
 E: 1,618,918.99'
 Latitude: 39°29'58.02"
 Longitude: 80°51'01.79"
 UTM Zone 17, NAD 1983
 N: 4,372,222.737m
 E: 512,869.101m

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.

	Bearing	Dist.
L1	S 22°00' E	988.8'
L2	N 36°10' W	1,612.7'
L3	N 41°23' E	1,151.9'
L4	N 74°09' E	962.4'

Legend

- Proposed gas well
- Found corner, as noted
- Existing Well, as noted
- Digitized Well
- Existing Road
- Existing Road
- Surface boundary (approx.)
- Interior surface tracts (approx.)

FILE NO: 120-54-E-19
 DRAWING NO: Whitmore 1H 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: March 7 2022
 OPERATOR'S WELL NO. Whitmore 1H
 API WELL NO
 47 - 095 - 02726
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built 1,004' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Shirley
 DISTRICT: Ellsworth COUNTY: Tyler

SURFACE OWNER: Roger D. Blizzard & Ruth E. Spencer ACREAGE: 102.62
 ROYALTY OWNER: Heritage Resources - Marcellus Minerals (4), LLC; Alfred Lonzo Eddy; The Swan Living Trust; LEASE NO: _____ ACREAGE: 168.175; 136.22

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: 6,627' TVD 23,802' 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

TOP HOLE LONGITUDE 80 - 50 - 00
 BTM HOLE LONGITUDE 80 - 47 - 30
 569' to Top Hole
 998' to Bottom Hole

11,080' to Bottom Hole

5,016' to Top Hole

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

See Detail 1 (Page 2)

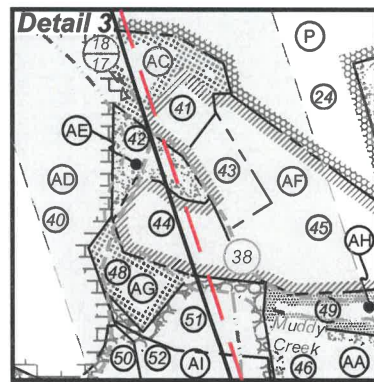
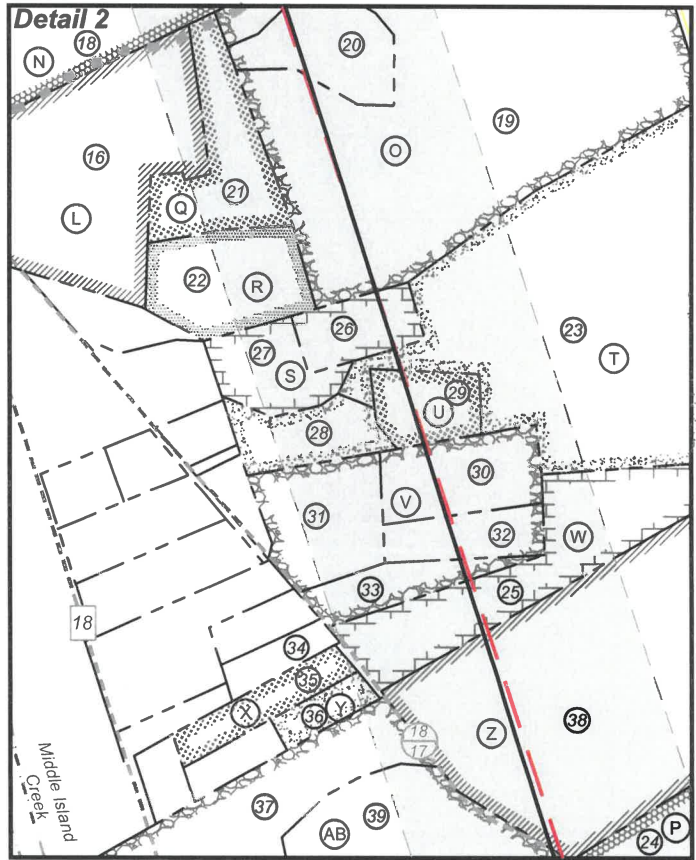
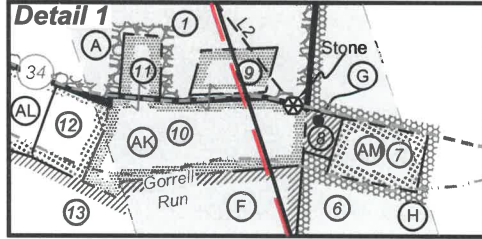
See Detail 2 (Page 2)

See Detail 3 (Page 2)

See Detail 3 (Page 2)



ID	TM/Par	Owner	DB/PG	Acres
1	15-33	Roger D. Blizzard & Ruth E. Spencer	340/170	102.62
2	15-30	Thomas C. & Judeann L. Grinage	458/73	124.08
3	15-31	Roger D. Blizzard & Ruth E. Spencer	342/782	25.00
4	15-38	Rodney A. & Candis L. Nash	351/701	85.48
5	15-32	William S. & Opal Marie Nash	335/188	78.58
6	21-13	Alfred Lonzo Eddy	337/650	98.58
7	21-13.1	Matthew Scott & Christy Lynn Kile	348/191	1.42
8	21-12	Church of Christ	50/6	0.71
9	21-11	Roger D. & Darlene F. Blizzard	186/466	1.00
10	21-10	Roger D. Blizzard & Ruth E. Spencer	340/170	5.00
11	21-9	Clayton M. & Ruth E. Spencer	201/541	0.71
12	21-8.1	Charles M. & Amanda C. Spencer	397/36	1.32
13	21-14	Carl E. & Elsie M. Taylor	391/181	67.91
14	22-1	Robert I. Reed & Floyd W. Reed	321/763	42.32
15	21-53	Haessly Land & Timber LLC	337/101A	89.88
16	22-42	Sharon Christenson, et al	635/420	144.26
17	22-41	Anthony B. Parr	342/763	222.00
18	21-54	Sybill Gorby	WB 34/343	70.00
19	22-43	Loretta Louise Baker	253/131	38.97
20	22-43.2	Forest & Leeann Moore	421/356	3.36
21	22-43.1	Jeffery & Ricki L. Smith	317/507	4.17
22	22-49	Enoch Family Irrevocable Trust	440/433	4.14
23	22-47	Tom J. & Jean A. Gump	628/629	22.30
24	28-9	David & Cheryl L. Barrick	263/606	87.53
25	28-7	Randall L. & Kathryn M. Wise	442/85	9.00
26	22-47.1	Lee Roy & Tracy Ferguson	341/271	2.05
27	22-47.3	Lee Roy & Tracey Ferguson	355/656	2.39
28	22-47.4	Samantha Anderson	591/348	2.36
29	22-47.2	Tara Wright & Michael Thomas	574/143	2.03
30	28-4.5	Shaun R. & Christie L. Curran	344/371	3.36
31	28-4	David A. Mays & Connie S. Gilbert	289/306	3.82
32	28-4.4	Shaun R. & Christie L. Curran	344/371	2.02
33	28-4.3	Jerry T. & Lavonne L. Williams	311/89	1.91
34	28-4.2	Joshua D. Botkins	451/569	1.18
35	28-12	April Watkinson & Thomas Weekley	611/755	1.88
36	28-11	Rodney J. & Kennetta K. Davis	281/348	1.00
37	28-10	Carol Knapp Rev. Trust	435/461	9.20
38	28-8	Carolee J. Daniell	WB 43/267	30.00
39	28-10.1	Jean A. & Tom Gump	556/92	8.20
40	28-17	Kathy Ann Seago, et al	WB41/119	12.11
41	28-18	Justin & Sarah Cumberledge	503/168	2.70
42	28-19	James & Ada Johnson	264/418	1.42
43	28-20.1	Michael & Joyce Mercer	237/131	1.42
44	28-21	Lorraine Weekley	AR49-717	2.30
45	28-20	Michael & Joyce Mercer	237/131	5.98
46	28-31	Victor A. & Lorraine B. Weekley	AR49/717	226.25
47	28-31.4	Victor & Lorraine Weekley	AR 49/717	3.64
48	28-22	Lorraine Weekley	AR49/717	1.35
49	28-29.1	Donald A. Quinif	WB17/139	0.88
50	28-23	Troy & Kelly Smith	OR20/722	3.60
51	28-30	Keith C. Smith	WB35/228	30.13
52	28-29	Keith C. Smith	WB35/228	116.72
53	28-28	Ronald & Linda Hoover	184/383	136.22
54	5-4	Kenneth & Jennifer L. Mason	OR 75/585	52.78



Leases			
A	Heritage Resources - Marcellus Minerals, LLC	T	Rebecca Lynn Gebhardt
		U	Melissa D. Maston
B	B. Fred Hill	V	Enoch Family Irrevocable Trust
C	Jerry R. Brown	W	Randall L. Wise, et ux
D	Helen E. Boggs	X	April R. Weekley, et vir
E	William S. Nash, et al	Y	Rodney J. Davis
F	The Swan Living Trust	Z	Carolee J. Daniel
G	Alfred Lonzo Eddy	AA	Kendra K. Wyke
H	Alfred Lonzo Eddy	AB	AMP Fund LP
I	Roberta L. Schickler	AC	Heritage Resources - Marcellus Minerals, LLC
J	Haessly Land & Timber, LLC	AD	Brian M. Weigle
K	City of Sistersville	AE	James T. & Ada L. Johnson
L	E. Lorna Howard Testamentary Trust	AF	Brian M. Weigle
M	Anthony B. Parr	AG	Lorraine B. Weekley
N	Bradley J. Carpenter	AH	Keith C. Smith, et ux
O	Loretta L. Baker	AI	Keith C. & Phyllis J. Smith
P	Heritage Resources - Marcellus Minerals, LLC	AJ	Ronald L. Hoover, et ux
Q	Jeffrey D. Smith, et ux	AK	Heritage Resources - Marcellus Minerals, LLC
R	Enoch Family Irrevocable Trust	AL	Virginia Dianne Thompson
S	Lee Roy Ferguson, et ux	AM	Matthew Scot Kile, et ux

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