

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

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SEP 10 2018

WV Department of
Environmental Protection

API 47-017-06693 County Doddridge District Central
Quad West Union 7.5' Pad Name Balli Pad Field/Pool Name ----
Farm name Jeffrey K. Jones Sr. et al Well Number Spellman 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 4350342m Easting 513448m
Landing Point of Curve Northing 4350201.17m Easting 513483.17m
Bottom Hole Northing 4347721m Easting 514307m

Elevation (ft) 1135.5' 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 1/7/2015 Date drilling commenced 12/26/2015 Date drilling ceased 6/3/2016
Date completion activities began 9/22/2018 Date completion activities ceased 4/2/2018
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 107', 192' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 737' 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:

11/12/2021

API 47- 017 - 06693 Farm name Jeffrey K. Jones Sr. et al Well number Spellman 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"	72'	New	94#, K-55	N/A	Y
Surface	17-1/2"	13-3/8"	374'	New	48#, H-40	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2531'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	15824'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	6727'		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	100 sx	15.6	1.18	118	0'	8 Hrs.
Surface	Class A	444 sx	15.6	1.19	528	0'	8 Hrs.
Coal							
Intermediate 1	Class A	1200 sx	15.6	1.18	1416	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	955sx (Lead) 1398sx (Tail)	14.5(Lead), 15.2 (Tail)	1.31(Lead), 1.83 (Tail)	3809	~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 15824' MD, 6744' TVD (BHL), 6744' (Deepest Point Drilled) Loggers TD (ft) 15824' MD
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

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Kick off depth (ft) 6131'

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 47-017 - 06693 Farm name Jeffrey K. Jones Sr. et al Well number Spellman Unit 2H

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.

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EXHIBIT 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	9/22/2018	15553	15721	48	Marcellus
2	11/25/2017	15355	15522	48	Marcellus
3	11/26/2017	15156	15324	48	Marcellus
4	11/26/2017	14957	15125	48	Marcellus
5	11/27/2017	14758	14926	48	Marcellus
6	11/28/2017	14560	14727	48	Marcellus
7	11/28/2017	14361	14528	48	Marcellus
8	11/29/2017	14162	14330	48	Marcellus
9	11/29/2017	13963	14131	48	Marcellus
10	11/30/2017	13764	13932	48	Marcellus
11	12/1/2017	13566	13733	48	Marcellus
12	12/1/2017	13367	13535	48	Marcellus
13	12/2/2017	13168	13336	48	Marcellus
14	12/2/2017	12969	13137	48	Marcellus
15	12/3/2017	12771	12938	48	Marcellus
16	12/3/2017	12572	12739	48	Marcellus
17	12/4/2017	12373	12541	48	Marcellus
18	12/4/2017	12174	12342	48	Marcellus
19	12/5/2017	11975	12143	48	Marcellus
20	12/5/2017	11777	11944	48	Marcellus
21	12/6/2017	11578	11746	48	Marcellus
22	12/7/2017	11379	11547	48	Marcellus
23	12/7/2017	11180	11348	48	Marcellus
24	12/8/2017	10982	11149	48	Marcellus
25	12/8/2017	10783	10950	48	Marcellus
26	12/9/2017	10584	10752	48	Marcellus
27	12/9/2017	10385	10553	48	Marcellus
28	12/10/2017	10186	10354	48	Marcellus
29	12/10/2017	9988	10155	48	Marcellus
30	12/11/2017	9789	9956	48	Marcellus
31	12/11/2017	9590	9758	48	Marcellus
32	12/12/2017	9391	9559	48	Marcellus
33	12/13/2017	9192	9360	48	Marcellus
34	12/13/2017	8994	9161	48	Marcellus
35	12/14/2017	8795	8963	48	Marcellus
36	12/14/2017	8596	8764	48	Marcellus
37	12/15/2017	8397	8565	48	Marcellus
38	12/15/2017	8199	8366	48	Marcellus
39	12/16/2017	8000	8167	48	Marcellus
40	12/16/2017	7801	7969	48	Marcellus
41	12/16/2017	7602	7770	48	Marcellus
42	12/16/2017	7403	7571	48	Marcellus
43	12/17/2017	7205	7372	48	Marcellus
44	12/17/2017	7006	7174	48	Marcellus
45	12/17/2017	6807	6975	48	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	9/22/2017	71.5	7692	8061	3617	505100	9981	N/A
2	11/25/2017	70.4	7479	6763	3988	505350	9846	N/A
3	11/26/2017	71	7556	5575	4494	503650	10313	N/A
4	11/26/2017	77.5	7656	5684	4511	505600	9896	N/A
5	11/27/2017	76.7	7740	5615	4196	503650	9978	N/A
6	11/28/2017	73.2	7665	5751	5143	503900	9863	N/A
7	11/28/2017	69.2	7330	5619	4486	503900	10005	N/A
8	11/29/2017	74.8	7630	5833	4226	503700	9871	N/A
9	11/29/2017	71.9	7774	5920	5109	505150	9895	N/A
10	11/30/2017	69.7	7517	5988	4575	503800	10188	N/A
11	12/1/2017	76.2	7542	5747	5306	506300	9890	N/A
12	12/1/2017	73.8	7419	5662	4417	505150	9768	N/A
13	12/2/2017	70.3	7282	5587	4450	503950	9766	N/A
14	12/2/2017	78.1	7658	5642	5429	506050	9739	N/A
15	12/3/2017	77.2	7544	5933	5582	503750	9684	N/A
16	12/3/2017	75.6	7549	5278	5781	504650	9775	N/A
17	12/4/2017	70.4	7544	5408	5107	503800	11305	N/A
18	12/4/2017	76.4	7545	5619	5981	504100	9650	N/A
19	12/5/2017	76.5	7673	5773	5652	503200	11500	N/A
20	12/5/2017	76.3	7480	6335	4002	504300	9804	N/A
21	12/6/2017	70.4	7625	7460	5353	503100	11459	N/A
22	12/7/2017	67.4	7728	6554	4067	504300	11171	N/A
23	12/7/2017	75.7	8039	5806	4343	503350	14624	N/A
24	12/8/2017	80	7616	5950	5354	503800	10205	N/A
25	12/8/2017	79.4	7631	6169	5187	503600	9810	N/A
26	12/9/2017	77.9	7895	6020	4210	503600	13141	N/A
27	12/9/2017	75.4	7429	6049	4055	503850	9818	N/A
28	12/10/2017	68.6	7666	6404	4435	503550	11697	N/A
29	12/10/2017	73.8	7239	6031	4086	504500	11159	N/A
30	12/11/2017	76.1	7357	6126	4426	503200	9714	N/A
31	12/11/2017	75.8	7439	6193	4459	504650	11039	N/A
32	12/12/2017	74	7417	6408	4539	503300	11542	N/A
33	12/13/2017	73.7	7239	5659	4585	504600	9739	N/A
34	12/13/2017	73.4	7435	6693	5650	503650	9919	N/A
35	12/14/2017	72.6	7530	6402	5426	504150	11319	N/A
36	12/14/2017	72.2	7085	5988	4626	504250	9540	N/A
37	12/15/2017	76.3	7132	6113	4062	503850	9602	N/A
38	12/15/2017	77.9	7182	6012	4014	504100	9685	N/A
39	12/16/2017	77.6	7047	6065	4492	504600	9710	N/A
40	12/16/2017	76.1	7030	5970	3988	505100	11692	N/A
41	12/16/2017	74.2	6821	5876	3885	503850	9620	N/A
42	12/16/2017	72.9	6363	6025	4039	504000	9573	N/A
43	12/17/2017	72.4	6628	6323	4243	503600	9575	N/A
44	12/17/2017	74.4	7274	6429	4240	503450	10978	N/A
45	12/17/2017	79.3	6817	6116	3685	504150	9519	N/A
	AVG=	74	7,421	6,059	4,611	22,687,200	466,567	TOTAL

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EXHIBIT 3

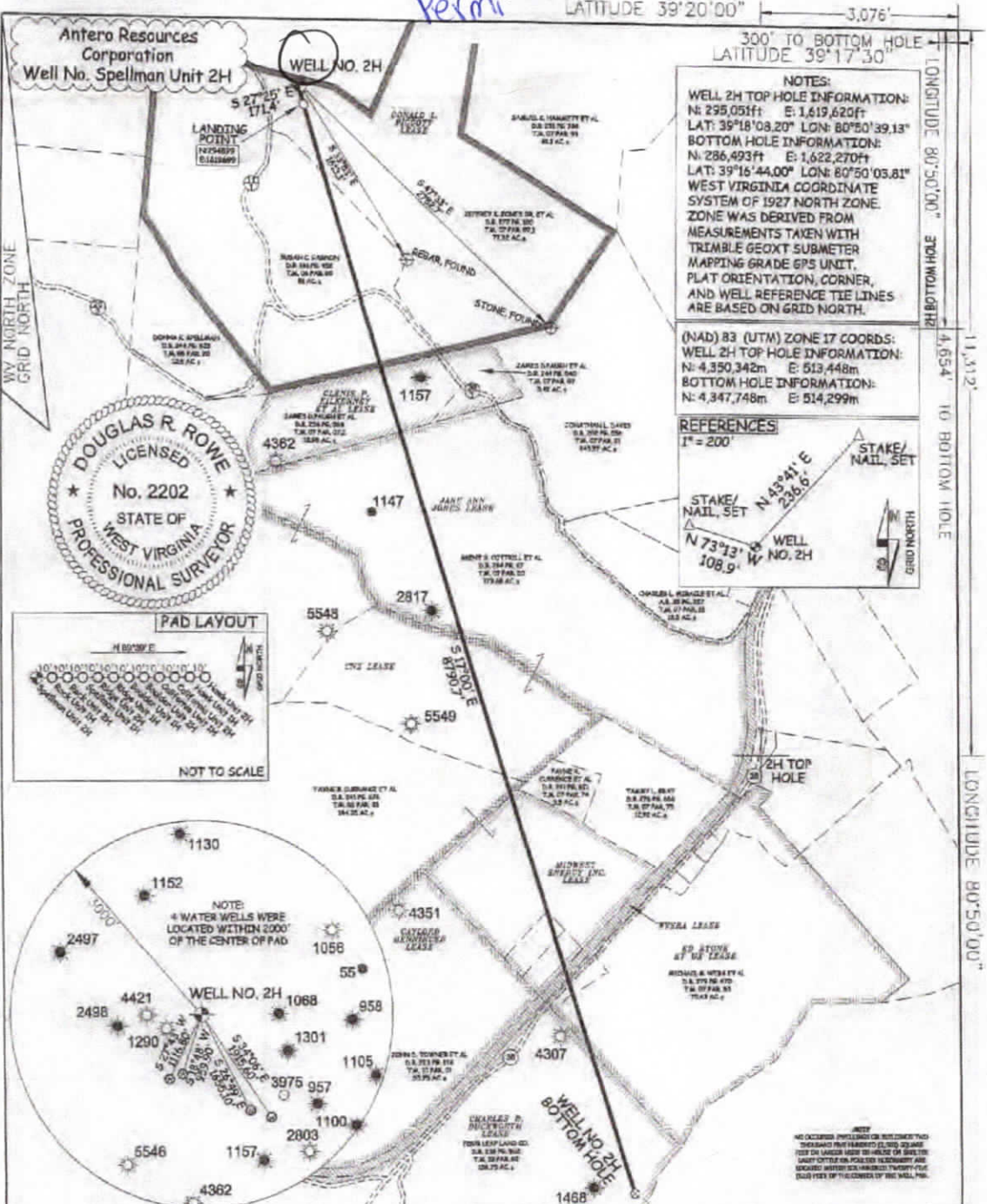
LITHOLOGY/ FORMATION	TOP DEPTH (TVD)	BOTTOM DEPTH (TVD)	TOP DEPTH (MD)	BOTTOM DEPTH (MD)
	From Surface	From Surface	From Surface	From Surface
Freshwater	107'	N/A	107'	N/A
Freshwater	192'	N/A	192'	N/A
Siltstone/Sandstone	0	147	0	147
Sandstone	147	205	147	205
Sandstone/Siltstone/Shale	205	327	205	327
Sandstone/Shale/Trace Coal	327	447	327	447
Sandstone	447	547	447	547
Sandstone/Shale	547	607	547	607
Sandstone	607	687	607	687
Siltstone	687	727	687	727
Shale	727	767	727	767
Limestone	767	787	767	787
Siltstone	787	907	787	907
Shale	907	1,147	907	1,147
Shale/Tr Coal	1,147	1,167	1,147	1,167
Shale	1,167	1,207	1,167	1,207
Sandstone	1,207	1,227	1,207	1,227
Shale	1,227	1,245	1,227	1,245
Sandstone	1,245	1,307	1,245	1,307
Shale/Siltstone	1,307	1,367	1,307	1,367
Limestone	1,367	1,387	1,367	1,387
Sandstone	1,387	1,447	1,387	1,447
Siltstone	1,447	1,489	1,447	1,489
Sandstone/Shale/Siltstone	1,489	1,983	1,489	1,989
Big Lime	1,983	2,593	1,989	2,599
Fifty Foot Sandstone	2,593	2,672	2,599	2,677
Gordon	2,672	3,061	2,677	3,067
Fifth Sandstone	3,061	3,098	3,067	3,104
Bayard	3,098	3,726	3,104	3,731
Speechley	3,726	4,093	3,731	4,099
Balltown	4,093	4,538	4,099	4,544
Bradford	4,538	4,972	4,544	4,985
Benson	4,972	5,252	4,985	5,274
Alexander	5,252	6,217	5,274	6,252
Sycamore	6,217	6,385	6,252	6,437
Middlesex	6,385	6,503	6,437	6,609
Burkett	6,503	6,531	6,609	6,663
Tully	6,531	6,566	6,663	6,755
Marcellus	6,566	NA	6,755	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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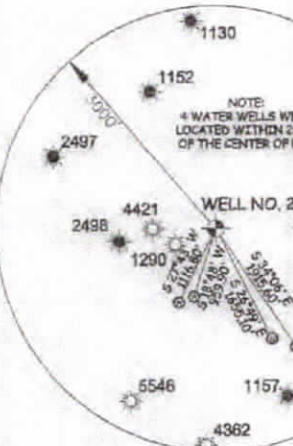
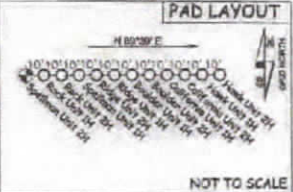
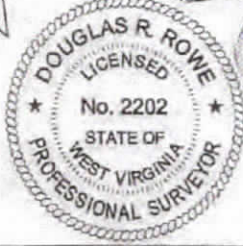
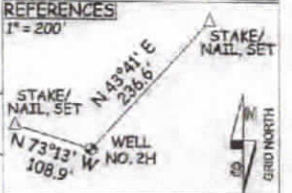
11/12/2021

Permitted



NOTES:
 WELL 2H TOP HOLE INFORMATION:
 N: 295,051ft E: 1,619,620ft
 LAT: 39°18'08.20" LGN: 80°50'39.13"
 BOTTOM HOLE INFORMATION:
 N: 286,493ft E: 1,622,270ft
 LAT: 39°16'44.00" LGN: 80°50'03.81"
 WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE. ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TREMBLE 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 2H TOP HOLE INFORMATION:
 N: 4,350,342m E: 519,448m
 BOTTOM HOLE INFORMATION:
 N: 4,347,748m E: 514,299m



JOB # 14-086WA
 DRAWING # SPELLMAN2H
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY SUBMETER
 PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

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 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

LEGEND
 --- Surface Owner Boundary Lines +/-
 --- Interior Surface Tracts +/-
 -X- Existing Fence
 ⊕ Found monument, as noted

DOUGLAS R. ROWE P.S. 2202
 DATE 10/21/14
 OPERATOR'S WELL # SPELLMAN UNIT 2H
 API WELL # 47
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS
 WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION X STORAGE DEEP SHALLOW X
 LOCATION: ELEVATION 1,135' WATERSHED LICK RUN
 QUADRANGLE WEST UNION 7.5 DISTRICT CENTRAL COUNTY BOODRIDGE
 SURFACE OWNER JEFFREY K. JONES SR. ET AL ACREAGE 77.32 ACRES +/-
 OIL & GAS ROYALTY OWNER DONALD L. PIGGOTT, GLENIS P. KILKENNEY ET AL LEASE ACREAGE 81 ACRES +/- 25 ACRES +/-
 JANE ANN JONES; CNV; MIDWEST ENERGY INC.; WVSRA; ED STONE ET AL; CHARLES B. DUCKWORTH 11.5 ACRES; 22.0 ACRES; 34.17 ACRES; 11.0 ACRES; 47 ACRES; 146.25 ACRES +/-
 PROPOSED WORK: DRILL X CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE X
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION X OTHER PHYSICAL CHANGE IN WELL
 (SPECIFY) PLUG & ABANDON CLEAN OUT & REPLUG
 TARGET FORMATION MARCELLUS ESTIMATED DEPTH 7,300' TVD 17,000' MD
 WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER
 ADDRESS 1815 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD
 FORM WW-6 DENVER, CO 80202 CHARLESTON, WV 25313

11/12/2021

EXP-17

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	10/11/2017
Job End Date:	12/17/2017
State:	West Virginia
County:	Doddridge
API Number:	47-017-06693-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Spellman 2H
Latitude:	39.30235800
Longitude:	-80.84403100
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,742
Total Base Water Volume (gal):	20,476,980
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	70.00000	87.73542	
Hydrochloric Acid	CWS	Clean Perforations					
				Listed Below			

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DAP-103	CWS	Iron Control							
					Listed Below				
DAP-902	CWS	Scale Inhibitor							
					Listed Below				
SANIFRAC 8844	CWS	Biocide							
					Listed Below				
Sand (Proppant)	CWS	Propping Agent							
					Listed Below				
CI-9100G	CWS	Corrosion Inhibitor							
					Listed Below				
Calbreak 5501	CWS	Breaker							
					Listed Below				
DWP-111	CWS	Gel Slurry							
					Listed Below				
DWP-641	CWS	Friction Reducer							
					Listed Below				
Other Chemical (s)	Listed Above	See Trade Name (s) List							

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					Listed Below				
Items above are Trade Names with the exception of Base Water . Items below are the individual ingredients.									
					Crystalline silica (Quartz)	14808-60-7	100.00000	11.91633	
					Calcite	471-34-1	1.00000	0.08643	
					Hydrochloric acid	7647-01-0	37.00000	0.04515	
					Illite	12173-60-3	1.00000	0.03271	
					Polymer	26100-47-0	45.00000	0.03237	
					Distillates (petroleum), hydrotreated middle	64742-46-7	60.00000	0.02425	
					Guar gum	9000-30-0	60.00000	0.02425	
					Distillates (petroleum), hydrotreated light	64742-47-8	30.00000	0.02158	
					Biotite	1302-27-8	0.10000	0.01191	
					Goethite	1310-14-1	0.10000	0.01191	
					Apatite	64476-38-6	0.10000	0.01191	
					Ammonium chloride	12125-02-9	11.00000	0.00791	
					Polyethylene glycol mixture	25322-68-3	54.50000	0.00620	
					2-Propenoic acid, homopolymer, sodium salt	9003-04-7	40.00000	0.00613	
					Ammonium Persulfate	64742-47-8	100.00000	0.00576	
					Ilmenite	98072-94-7	0.10000	0.00327	
					Sorbitan monooleate	1338-43-8	4.00000	0.00288	
					2,2-Dibromo-3-Nitripropionamide	10222-01-2	20.00000	0.00228	
					Polyethylene glycol monooleate	9004-96-0	3.00000	0.00216	
					Quaternary ammonium compounds, bis (hydrogenated tallow alkyl)dimethyl, salts with bentonite	68953-58-2	5.00000	0.00202	
					1,2-Propanediol	57-55-6	10.00000	0.00153	
					Sorbitol tetraoleate	61723-83-9	2.00000	0.00144	

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					69418-26-4	20.00000	0.00115	
				Vinylidene chloride-methyl acrylate copolymer				
				Amines, tallow alkyl, ethoxylated	61791-26-2	1.00000	0.00072	
				Oxirane, 2-methyl-, polymer with oxirane, monodecyl ether	37251-67-5	1.50000	0.00061	
				Sodium bromide	7647-15-6	4.00000	0.00046	
				Citric acid	77-92-9	60.00000	0.00041	
				Alkyloxypolyethyleneoxy ethanol	84133-50-6	0.50000	0.00036	
				Dibromoacetonitrile	3252-43-5	3.00000	0.00034	
				Acrylamide	79-06-1	0.10000	0.00007	
				Ethylene glycol	107-21-1	40.00000	0.00003	
				Diethylene glycol	111-46-6	1.00000	0.00001	
				Isopropanol	67-63-0	5.00000	0.00001	
				Ethoxylated alcohols	Proprietary	10.00000	0.00001	Proprietary CAS
				Diethylene glycol (mono) methyl ether	34590-94-8	20.00000	0.00001	
				Tar bases, quinolone derivs, benzyl chloride- quatenized	72480-70-7	10.00000	0.00001	
				Cinnamaldehyde	104-55-2	10.00000	0.00001	
				Formic Acid	64-18-6	10.00000	0.00001	
				Tar bases, quinolone derivs	68513-87-1	1.00000	0.00001	

* 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)

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