

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

API 47 - 017 - 06933 County Doddridge District Grant  
Quad Smithburg 7.5' Pad Name Lemley Pad Field/Pool Name -----  
Farm name Brian D. Lemley & Christy M. Lemaster ET AL. Well Number Peter 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 4353039m Easting 527563m  
Landing Point of Curve Northing 4353284.88m Easting 527343.32m  
Bottom Hole Northing 4355248m Easting 526711m

Elevation (ft) 1304' 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 7/7/2022 Date drilling commenced 9/12/2022 Date drilling ceased 12/12/2022  
Date completion activities began 2/6/2023 Date completion activities ceased 3/13/2023  
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 357', 613', 856' Open mine(s) (Y/N) depths No  
Salt water depth(s) ft 1460', 1673' Void(s) encountered (Y/N) depths No  
Coal depth(s) ft 980' Cavern(s) encountered (Y/N) depths No  
Is coal being mined in area (Y/N) No

**APPROVED**

Reviewed by:  
JMC  
12/08/2023

API 47-017 - 06933 Farm name Brian D. Lemley & Christy M. Lemaster ET AL. Well number Peter 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	28"	20"	130'	New	78.67#, X-60	N/A	Y
Surface	17-1/2"	13-3/8"	904'	New	54.5#, J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	3336'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	15015'	New	20#, P-110-ICY	N/A	Y
Tubing		2-3/8"	7244'		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 <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	Class A	195 sx	15.6	1.18	230	0'	8 Hrs.
Surface	Class A	1030 sx	15.8	1.16	1195	0'	8 Hrs.
Coal							
Intermediate 1	Class A	1140 sx	15.8	1.16	1322	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	2105 sx (Tail)	13.5 (Lead), 15.2(Tail)	1.25 (Tail)	2631	-500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 15015' MD, 7258' TVD (BHL), 7258' (Deepest Point Drilled) Loggers TD (ft) 15015' MD  
 Deepest formation penetrated Marcellus Plug back to (ft) N/A  
 Plug back procedure N/A

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Kick off depth (ft) 6425'

Check all wireline logs run  caliper  density  deviated/directional  induction  neutron  resistivity  gamma ray  temperature  sonic

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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

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<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>Marcellus</u>	<u>7146' (TOP)</u> TVD	<u>7376' (TOP)</u> MD
_____	_____	_____
_____	_____	_____
_____	_____	_____

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface 3012 psi Bottom Hole --- psi DURATION OF TEST --- hrs

OPEN FLOW Gas 9785.34 mcfpd Oil 0.02 bpd NGL --- bpd Water 6.46 bpd GAS MEASURED BY  Estimated  Orifice  Pilot

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

**\*PLEASE SEE ATTACHED EXHIBIT 3**


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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 Halliburton Energy Services  
Address 3000 W. Sam Houston Pkwy City Houston State TX Zip 76114

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

Please insert additional pages as applicable.

Completed by Carly Marvel Telephone 303-357-7373  
Signature Carly Marvel Title Permitting Agent Date 5/19/2023

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

12/08/2023

API 47-017-06933 Farm Name Brian D. Lemley & Christy M. Lemaster ET AL Well Number Peter Unit 1H

**Exhibit 1**

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	2/6/2023	14898	14854	60	Marcellus
2	2/6/2023	14816.55856	14651.3514	60	Marcellus
3	2/6/2023	14615.90991	14450.7027	60	Marcellus
4	2/6/2023	14415.26126	14250.0541	60	Marcellus
5	2/6/2023	14214.61261	14049.4054	60	Marcellus
6	2/7/2023	14013.96396	13848.7568	60	Marcellus
7	2/7/2023	13813.31532	13648.1081	60	Marcellus
8	2/7/2023	13612.66667	13447.4595	60	Marcellus
9	2/7/2023	13412.01802	13246.8108	60	Marcellus
10	2/7/2023	13211.36937	13046.1622	60	Marcellus
11	2/8/2023	13010.72072	12845.5135	60	Marcellus
12	2/8/2023	12810.07207	12644.8649	60	Marcellus
13	2/8/2023	12609.42342	12444.2162	60	Marcellus
14	2/8/2023	12408.77477	12243.5676	60	Marcellus
15	2/8/2023	12208.12613	12042.9189	60	Marcellus
16	2/8/2023	12007.47748	11842.2703	60	Marcellus
17	2/8/2023	11806.82883	11641.6216	60	Marcellus
18	2/9/2023	11606.18018	11440.973	60	Marcellus
19	2/9/2023	11405.53153	11240.3243	60	Marcellus
20	2/9/2023	11204.88288	11039.6757	60	Marcellus
21	2/9/2023	11004.23423	10839.027	60	Marcellus
22	2/9/2023	10803.58559	10638.3784	60	Marcellus
23	2/10/2023	10602.93694	10437.7297	60	Marcellus
24	2/10/2023	10402.28829	10237.0811	60	Marcellus
25	2/10/2023	10201.63964	10036.4324	60	Marcellus
26	2/10/2023	10000.99099	9835.78378	60	Marcellus
27	2/10/2023	9800.342342	9635.13514	60	Marcellus
28	2/10/2023	9599.693694	9434.48649	60	Marcellus
29	2/11/2023	9399.045045	9233.83784	60	Marcellus
30	2/11/2023	9198.396396	9033.18919	60	Marcellus
31	2/11/2023	8997.747748	8832.54054	60	Marcellus
32	2/11/2023	8797.099099	8631.89189	60	Marcellus
33	2/11/2023	8596.45045	8431.24324	60	Marcellus
34	2/11/2023	8395.801802	8230.59459	60	Marcellus
35	2/11/2023	8195.153153	8029.94595	60	Marcellus
36	2/12/2023	7994.504505	7829.2973	60	Marcellus
37	2/12/2023	7793.855856	7628.64865	60	Marcellus
38	2/12/2023	7593.207207	7428	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	2/6/2023	79.7	7739.0	6962.18	5038.56	152430	183366	N/A
2	2/6/2023	91.4	7936.0	6000	4756	396700	307601	N/A
3	2/6/2023	93.8	8094.0	5462.66	4985.631	396580	278566	N/A
4	2/6/2023	95.5	8215.9	5481.16	4553.336	400020	277335	N/A
5	2/6/2023	96.9	8325.0	5339	4480	392950	281881	N/A
6	2/7/2023	97.0	8279.9	5532.88	5095.556	405860	285775	N/A
7	2/7/2023	97.5	8226.0	5339	4639	397660	295999	N/A
8	2/7/2023	94.6	8176.0	3486	4346	398550	295300	N/A
9	2/7/2023	93.9	8004.0	4392	4802	392930	280545	N/A
10	2/7/2023	96.5	8302.5	5508.86	4332.79	391820	276536	N/A
11	2/8/2023	97.4	8313.9	5430.29	4483.375	396420	277420	N/A
12	2/8/2023	97.4	8187.4	5555.92	4260.819	397150	274394	N/A
13	2/8/2023	95.3	8230.0	4490	3936	399280	281965	N/A
14	2/8/2023	95.6	8088.0	5567	3918	395860	278702	N/A
15	2/8/2023	95.9	8102.0	5565	4487	399580	284418	N/A
16	2/8/2023	96.4	7986.4	3509.63	4360.852	399120	279326	N/A
17	2/8/2023	97.5	8010.3	5561.14	4391.582	396630	274388	N/A
18	2/9/2023	97.4	8172.1	5670.91	4103.135	399400	284512	N/A
19	2/9/2023	97.5	7947.0	5474	4534	397300	278922	N/A
20	2/9/2023	97.8	7860.0	3683	4376	399450	282632	N/A
21	2/9/2023	89.3	7450.6	5444.5	4578.089	400040	348014	N/A
22	2/9/2023	96.9	7852.3	5359.72	4264.062	395840	279784	N/A
23	2/10/2023	97.0	7851.0	5199	5300	406590	280682	N/A
24	2/10/2023	95.9	7971.0	5604	5403	394480	274416	N/A
25	2/10/2023	97.5	7892.1	5627.16	5005.273	400710	279642	N/A
26	2/10/2023	96.9	7805.0	5407	4727	396860	323846	N/A
27	2/10/2023	99.4	7845.3	3919.4	5569.28	397390	284671	N/A
28	2/10/2023	96.6	7514.3	4098.98	4566.202	396880	280482	N/A
29	2/11/2023	97.4	7703.0	5377.44	4266.497	400420	273410	N/A
30	2/11/2023	97.0	7835.7	5358.21	4301.951	399190	278880	N/A
31	2/11/2023	97.0	7912.4	3572.48	4267.78	401100	279441	N/A
32	2/11/2023	97.1	7732.6	5536.05	4050.254	403980	278380	N/A
33	2/11/2023	98.4	7787.3	5468.37	4145.489	406840	279401	N/A
34	2/11/2023	96.8	7494.9	4091.6	4565.219	401760	277124	N/A
35	2/11/2023	96.8	7451.9	5505.56	5191.085	401130	274309	N/A
36	2/12/2023	97.0	7409.9	5558.89	5312.551	393850	271580	N/A
37	2/12/2023	98.4	7385.2	5560.1	5232.383	394120	275173	N/A
38	2/12/2023	97.4	7194.1	5172.97	4598.494	396950	279567	N/A
	<b>AVERAGE</b>	<b>96</b>	<b>7,902</b>	<b>5,155</b>	<b>4,611</b>	<b>14,893,820</b>	<b>10,678,385</b>	<b>TOTAL</b>

12/08/2023

## EXHIBIT 3

LITHOLOGY/ FORMATION	TOP DEPTH (TVD)	BOTTOM DEPTH (TVD)	TOP DEPTH (MD)	BOTTOM DEPTH (MD)
	From Surface	From Surface	From Surface	From Surface
Sandstone, rr Siltstone	100	450	100	450
Silty Sandstone, tr Shale	450	510	450	510
Silty Sandstone, com Coal	510	630	510	630
Silty Sandstone	570	720	570	720
Sandstone, com LS	630	720	630	720
Silty Sandstone	720	780	720	780
Silty Sandstone, tr Shale	780	1,070	780	1,070
Sandstone, rr Siltstone	1,070	1,220	1,070	1,220
Silty Sandstone	1,220	1,520	1,220	1,520
Silty Sandstone, com Shale	1,520	1,670	1,520	1,670
Sandstone	1,670	1,770	1,670	1,770
Silty Sandstone, tr Shale	1,770	1,870	1,770	1,870
Sandstone, tr Coal	1,870	1,920	1,870	1,920
Sandstone	1,920	1,970	1,920	1,970
Silty Sandstone	1,970	2,121	1,970	2,121
Big Lime	2,151	2,730	2,121	2,730
Fifty Foot Sandstone	2,730	2,904	2,700	2,905
Gordon	2,904	3,248	2,875	3,248
Fifth Sandstone	3,248	3,319	3,218	3,320
Bayard	3,319	4,000	3,290	4,002
Speechley	4,000	4,245	3,972	4,251
Balltown	4,245	4,774	4,221	4,788
Bradford	4,774	5,235	4,758	5,255
Benson	5,235	5,520	5,225	5,544
Alexander	5,520	6,910	5,514	6,977
Sycamore	6,734	6,880	6,782	6,947
Middlesex	6,880	7,031	6,947	7,147
Burkett	7,031	7,060	7,147	7,192
Tully	7,060	7,146	7,192	7,376
Marcellus	7,146	NA	7,376	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.



LATITUDE 39°20'00" 3,883'

6,652' TO BOTTOM HOLE, LATITUDE 39°22'30"

LONGITUDE 80°40'00" 10,500' TO BOTTOM HOLE  
LONGITUDE 80°40'00" 2,585'

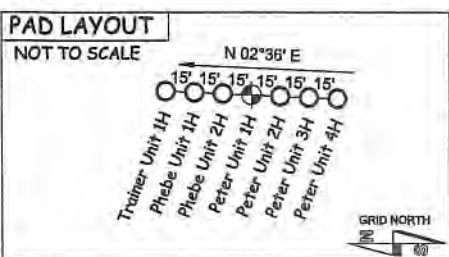
**Antero Resources Corporation**  
**Well No. Peter Unit 1H**

**LEGEND**

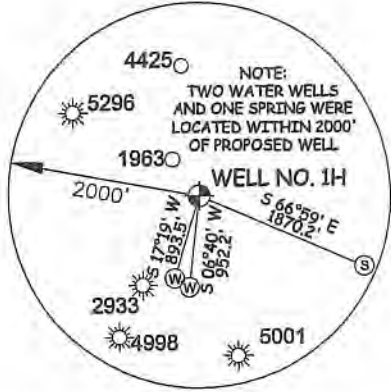
- Surface Owner Boundary Lines +/-
- - - Interior Surface Tracts +/-
- Proposed Well Path
- ⊗ As Drilled Well Path

**AS DRILLED DATA:**  
**WELL 1H TOP HOLE INFORMATION:**  
 N: 303,126ft E: 1,666,087ft  
 LAT: 39°19'34.46" LON: 80°40'49.41"  
**BOTTOM HOLE INFORMATION:**  
 N: 310,423ft E: 1,663,412ft  
 LAT: 39°20'46.22" LON: 80°41'24.67"  
 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: 4,353,039m E: 527,563m  
**BOTTOM HOLE INFORMATION:**  
 N: 4,355,248m E: 526,711m



**(NAD) 27 (UTM) ZONE 17 COORDS:**  
**WELL 1H TOP HOLE INFORMATION:**  
 N: 14,280,879ft E: 1,730,799ft  
**POINT OF ENTRY INFORMATION:**  
 N: 14,280,922ft E: 1,730,420ft  
**BOTTOM HOLE INFORMATION:**  
 N: 14,288,127ft E: 1,728,004ft



**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 ANTERO RESOURCES CORPORATION.
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.



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

THOMAS SUMMERS P.S. 2109  
*Thomas Summers*

DATE 05/09/23  
 OPERATOR'S WELL# PETER UNIT #1H  
 API WELL # 47 - 017 - 06933  
 STATE COUNTY PERMIT

COUNTY DODDRIDGE  
 ACREAGE 59.08 ACRES +/- 12/08/2023  
 LEASE ACREAGE 66.87 ACRES±; 19.56 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 7,258' TVD 15,015' MD

WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT KEVIN ELLIS  
 ADDRESS 1615 WYNKOOP STREET ADDRESS 535 WHITE OAKS BLVD  
 DENVER, CO 80202 BRIDGEPORT, WV 26330



## Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	2/6/2023
Job End Date:	2/12/2023
State:	West Virginia
County:	Doddridge
API Number:	47-017-06933-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Peter 1H
Latitude:	39.32624000
Longitude:	-80.68039000
Datum:	WGS84
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7,258
Total Base Water Volume (gal):	10,983,221
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	Halliburton	Base Fluid					
			Water	7732-18-5	100.00000	85.82036	Density = 8.34
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	100.00000	0.16039	

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Sand-Common White-100 Mesh, SSA-2	Halliburton	Proppant					
				Listed Below			
WG-36 GELLING AGENT	Halliburton	Gelling Agent					
				Listed Below			
HYDROCHLORIC ACID, 22 BAUME	Halliburton	Solvent					
				Listed Below			
MC B-8614A	MultiChem	Biocide					
				Listed Below			
HAI-501	Halliburton	Acid Corrosion Inhibitor					
				Listed Below			
OPTIFLO-II DELAYED RELEASE BREAKER	Halliburton	Breaker					
				Listed Below			
LEGEND(TM) LD-7750W	MultiChem	Scale Control					
				Listed Below			
Chemstream StimSTREAM FR 9750	Chemstream Oilfield Services	Friction Reducer					
				Listed Below			

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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	13.95408
			Hydrochloric acid	7647-01-0	30.00000	0.04251
			Distillates (petroleum), hydrotreated light	64742-47-8	25.00000	0.01462
			Methanol	67-56-1	100.00000	0.00737
			Guar gum	9000-30-0	100.00000	0.00633
			Alcohols, C11-14-iso, C-13-rich, ethoxylated	78330-21-9	5.00000	0.00292
			Glutaraldehyde	111-30-8	30.00000	0.00265
			Phosphoric Acid Salt	Proprietary	5.00000	0.00059
			Sodium chloride	7647-14-5	5.00000	0.00059
			Alkyl (C12-16) dimethylbenzyl ammonium chloride	68424-85-1	5.00000	0.00044
			Ammonium persulfate	7727-54-0	100.00000	0.00013
			Ethanol	64-17-5	1.00000	0.00009
			Modified thiourea polymer	Proprietary	30.00000	0.00008
			Mixture of dimer and trimer fatty acids of indefinite composition derived from tall oil	61790-12-3	30.00000	0.00008
			Oxylated phenolic resin	Proprietary	30.00000	0.00004
			Ethoxylated alcohols	Proprietary	5.00000	0.00001
			Hexadecene	629-73-2	5.00000	0.00001
			Propargyl alcohol	107-19-7	5.00000	0.00001
			Formaldehyde	50-00-0	0.10000	0.00001
			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)

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