

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

API 47-095-02713 County Tyler District Ellsworth
Quad Porter Falls 7.5' Pad Name Grand Field/Pool Name -----
Farm name Kenneth Tomblin Et Al Well Number Tapeats 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 4373077m Easting 516294m
Landing Point of Curve Northing 4373434.21m Easting 516743.88m
Bottom Hole Northing 4377929m Easting 515220m

Elevation (ft) 1243.5' 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 11/5/2020 Date drilling commenced 3/12/2021 Date drilling ceased 4/14/2021
Date completion activities began 5/30/2021 Date completion activities ceased 7/19/2021
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

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Freshwater depth(s) ft 25' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 2305' Void(s) encountered (Y/N) depths No WV Department of
Coal depth(s) ft 431' Cavern(s) encountered (Y/N) depths No Environmental Protection
Is coal being mined in area (Y/N) No

Reviewed by:
Steve McCoy 6-14-22

API 47- 095 - 02713 Farm name Kenneth Tomblin Et Al Well number Tapeats 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"	355'	New	54.5#, J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2642'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	23412'	New	23#, P-110	N/A	Y
Tubing		2-3/8"			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	431 sx	15.6	1.20	92	0'	8 Hrs.
Coal							
Intermediate 1	Class A	882 sx	15.6	1.19	187	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	792 sx (Lead) 3681 sx (Tail)	13.5 (Lead), 15.2(Tail)	1.4 (Lead), 1.26 (Tail)	831	~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 23456' MD, 6838' TVD (BHL), 6918' (Deepest Point Drilled) Loggers TD (ft) 23456' MD

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

Plug back procedure N/A

Kick off depth (ft) 6562'

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

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WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

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WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED N/A

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API 47-095 - 02713 Farm name Kenneth Tomblin Et Al Well number Tapeats 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 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								

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Please insert additional pages as applicable.

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PRODUCING FORMATION(S)	DEPTHS		
<u>Marcellus</u>	<u>6822' (TOP)</u>	<u>TVD</u>	<u>7366' (TOP)</u> 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 9649 mcfpd Oil 387 bpd NGL --- bpd Water 773 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 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 Schlumberger
Address 3600 Briarpark Drive City Houston State TX Zip 77042

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

Please insert additional pages as applicable.

Completed by Brand Hankins Telephone 303-357-7223
Signature [Signature] Title Completions Technician Date 2/8/22

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

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Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	5/30/2021	23340.1	23296.9	36	Marcellus
2	5/31/2021	23255.69161	23041.6413	36	Marcellus
3	5/31/2021	23003.63288	22789.5825	36	Marcellus
4	6/1/2021	22751.57415	22537.5238	36	Marcellus
5	6/1/2021	22499.51542	22285.4651	36	Marcellus
6	6/2/2021	22247.45669	22033.4063	36	Marcellus
7	6/2/2021	21995.39796	21781.3476	36	Marcellus
8	6/2/2021	21743.33923	21529.2889	36	Marcellus
9	6/3/2021	21491.2805	21277.2302	36	Marcellus
10	6/3/2021	21239.22177	21025.1714	36	Marcellus
11	6/3/2021	20987.16304	20773.1127	36	Marcellus
12	6/4/2021	20735.10431	20521.054	36	Marcellus
13	6/4/2021	20483.04558	20268.9952	36	Marcellus
14	6/4/2021	20230.98685	20016.9365	36	Marcellus
15	6/5/2021	19978.92812	19764.8778	36	Marcellus
16	6/5/2021	19726.86939	19512.819	36	Marcellus
17	6/5/2021	19474.81066	19260.7603	36	Marcellus
18	6/6/2021	19222.75193	19008.7016	36	Marcellus
19	6/6/2021	18970.6932	18756.6429	36	Marcellus
20	6/6/2021	18718.63447	18504.5841	36	Marcellus
21	6/6/2021	18466.57574	18252.5254	36	Marcellus
22	6/7/2021	18214.51701	18000.4667	36	Marcellus
23	6/7/2021	17962.45828	17748.4079	36	Marcellus
24	6/7/2021	17710.39955	17496.3492	36	Marcellus
25	6/8/2021	17458.34082	17244.2905	36	Marcellus
26	6/8/2021	17206.28209	16992.2317	36	Marcellus
27	6/8/2021	16954.22336	16740.173	36	Marcellus
28	6/9/2021	16702.16463	16488.1143	36	Marcellus
29	6/9/2021	16450.1059	16236.0556	36	Marcellus
30	6/9/2021	16198.04717	15983.9968	36	Marcellus
31	6/10/2021	15945.98844	15731.9381	36	Marcellus
32	6/10/2021	15693.92971	15479.8794	36	Marcellus
33	6/11/2021	15441.87098	15227.8206	36	Marcellus
34	6/11/2021	15189.81224	14975.7619	36	Marcellus
35	6/11/2021	14937.75351	14723.7032	36	Marcellus
36	6/12/2021	14685.69478	14471.6444	36	Marcellus
37	6/12/2021	14433.63605	14219.5857	36	Marcellus
38	6/12/2021	14181.57732	13967.527	36	Marcellus
39	6/13/2021	13929.51859	13715.4683	36	Marcellus
40	6/13/2021	13677.45986	13463.4095	36	Marcellus
41	6/13/2021	13425.40113	13211.3508	36	Marcellus
42	6/14/2021	13173.3424	12959.2921	36	Marcellus
43	6/14/2021	12921.28367	12707.2333	36	Marcellus
44	6/14/2021	12669.22494	12455.1746	36	Marcellus
45	6/15/2021	12417.16621	12203.1159	36	Marcellus
46	6/15/2021	12165.10748	11951.0571	36	Marcellus
47	6/15/2021	11913.04875	11698.9984	36	Marcellus
48	6/16/2021	11660.99002	11446.9397	36	Marcellus
49	6/16/2021	11408.93129	11194.881	36	Marcellus
50	6/16/2021	11156.87256	10942.8222	36	Marcellus
51	6/17/2021	10904.81383	10690.7635	36	Marcellus
52	6/17/2021	10652.7551	10438.7048	36	Marcellus
53	6/17/2021	10400.69637	10186.646	36	Marcellus
54	6/18/2021	10148.63764	9934.5873	36	Marcellus
55	6/18/2021	9896.578912	9682.52857	36	Marcellus
56	6/18/2021	9644.520181	9430.46984	36	Marcellus
57	6/18/2021	9392.461451	9178.41111	36	Marcellus
58	6/19/2021	9140.402721	8926.35238	36	Marcellus
59	6/19/2021	8888.343991	8674.29365	36	Marcellus
60	6/19/2021	8636.285261	8422.23492	36	Marcellus
61	6/20/2021	8384.226531	8170.17619	36	Marcellus
62	6/20/2021	8132.1678	7918.11746	36	Marcellus
63	6/20/2021	7880.10907	7666.05873	36	Marcellus
64	6/21/2021	7628.05034	7414	36	Marcellus

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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	5/30/2021	84.26	9940	9766	2435	176340	216565	N/A
2	5/31/2021	86.91	10068	5861	3425	514800	381969	N/A
3	5/31/2021	85.98	9982	5217	3261	505160	374701	N/A
4	6/1/2021	83.87	9654	5622	3305.09	503020	451405	N/A
5	6/1/2021	82.21	9812	8187	3075.78	508130	388380	N/A
6	6/2/2021	93.26	10072	5463	3588	507450	380923	N/A
7	6/2/2021	92.21	10092	9305	3131.52	504455	364389	N/A
8	6/2/2021	92.22	10057	9919	3142.97	505250	359809	N/A
9	6/3/2021	96.27	10026	8387	3827.79	502060	374256	N/A
10	6/3/2021	95.07	10024	9830	3027.2	505430	370091	N/A
11	6/3/2021	95.34	10020	10149	3506	499760	364531	N/A
12	6/4/2021	91.19	10060	10522	3479.06	497630	362650	N/A
13	6/4/2021	89.78	9850	9529	3291.06	503040	366375	N/A
14	6/4/2021	94.63	10027	9484	3480	505760	366267	N/A
15	6/5/2021	98.17	9966	10082	3413	512540	365406	N/A
16	6/5/2021	96.85	9770	8819	3111.57	503280	368628	N/A
17	6/5/2021	91.96	9738	9589	3057.03	500830	364006	N/A
18	6/6/2021	97.15	9959	9618	2823	515260	368753	N/A
19	6/6/2021	96.23	9712	8034	3097.74	510270	369924	N/A
20	6/6/2021	95.56	9753	9456	3050.74	508460	360203	N/A
21	6/6/2021	97.24	9637	9819	3757	514590	370228	N/A
22	6/7/2021	97.9	9857	7783	2846.46	502100	361387	N/A
23	6/7/2021	97.29	9498	6178	3154.1	504120	371435	N/A
24	6/7/2021	97.33	9803	9433	3056	505170	360291	N/A
25	6/8/2021	97.12	9690	9709	3229.27	501730	358096	N/A
26	6/8/2021	95.24	9690.15	10245	3023.58	506520	360482	N/A
27	6/8/2021	97.01	9877	7374	3468.14	500880	352307	N/A
28	6/9/2021	98.33	9982	6654	3813	502100	360410	N/A
29	6/9/2021	97.78	9558	8753	3508	509460	358678	N/A
30	6/9/2021	98.48	9692	3498	3412	499040	356157	N/A
31	6/10/2021	97.75	9855	7459	3440	510400	361076	N/A
32	6/10/2021	88.89	8584	6167	3501	514760	367165	N/A
33	6/11/2021	97.97	9240	6977	3773	503000	359004	N/A
34	6/11/2021	97.94	8967	7881	3929	508080	358517	N/A
35	6/11/2021	97.11	9025	7437	3623	508740	375284	N/A
36	6/12/2021	97.39	9036	6041	3536	509150	374965	N/A
37	6/12/2021	96.69	8757	7849	3915	510180	376766	N/A
38	6/12/2021	96.89	8865	8337	3818	511430	374566	N/A
39	6/13/2021	96.64	8775	7603	3458	518860	375933	N/A
40	6/13/2021	95.23	8820	8371	3584	504620	376741	N/A
41	6/13/2021	95.94	8583	6908	3724	508750	371004	N/A
42	6/14/2021	96.15	8813	6657	3637	500100	370023	N/A
43	6/14/2021	95.79	8800	6224	3740.39	503700	371996	N/A
44	6/14/2021	97.07	8830	6979	3722	503220	370955	N/A
45	6/15/2021	93.81	8929	7260	3571	498090	370141	N/A
46	6/15/2021	97.21	9041	8647	3412	500450	370190	N/A
47	6/15/2021	97.25	8766	6752	3460	502360	372386	N/A
48	6/16/2021	97.8	8647	7131	3567	502830	367591	N/A
49	6/16/2021	98.07	8608	8534	3406	503510	371510	N/A
50	6/16/2021	97.01	8113	7487	3324	505220	369177	N/A
51	6/17/2021	97.68	8250	2241	3049	507680	373213	N/A
52	6/17/2021	96.63	8322.36	8200.1	3220.45	521390	377950	N/A
53	6/17/2021	93.12	7717	7599	3111	505890	367455	N/A
54	6/18/2021	97.74	8027	7009	3206	502720	367278	N/A
55	6/18/2021	97.69	8404	7681	3384	503540	368491	N/A
56	6/18/2021	98.13	8286	7899	3182	501100	370053	N/A
57	6/18/2021	96.43	8099	6550	3049	509630	370031	N/A
58	6/19/2021	97.32	7730	5489	3057	509240	368540	N/A
59	6/19/2021	98.13	7871	8212	3178	514520	374443	N/A
60	6/19/2021	97.1	7893	6537	3327	503160	369502	N/A
61	6/20/2021	96.97	8068	7167	3273	502550	369182	N/A
62	6/20/2021	97.34	7733	7824	3148	506790	381671	N/A
63	6/20/2021	96.76	7725	8077	3301	513940	373400	N/A
64	6/21/2021	97.47	7954	6160	3422	507740	366675	N/A
	AVG=	95	9,141	7,744	3,357	32,071,975	23,531,576	TOTAL

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LITHOLOGY/ FORMATION	TOP DEPTH (TVD)	BOTTOM DEPTH (TVD)	TOP DEPTH (MD)	BOTTOM DEPTH (MD)
	From Surface	From Surface	From Surface	From Surface
Silty Sandstone	74	164	74	164
Shaley Siltstone	164	194	164	194
Shaley Sandstone	194	314	194	314
Shaley Siltstone	314	734	314	734
Sandy Siltstone	734	674	734	674
Shaley Siltstone, Tr Limestone	674	1,314	674	1,314
Shaley Sandstone	1,314	1,554	1,314	1,554
Sandstone, Tr Shale	1,554	1,664	1,554	1,664
Silty Shale	1,664	1,734	1,664	1,734
Shaley Siltstone	1,734	1,784	1,734	1,784
Sandy Shale	1,784	1,974	1,784	1,974
Shale, Tr Limestone	1,974	2,084	1,974	2,084
Shaley Limestone	2,084	2,040	2,084	N/A
Big Lime	2,066	2,974	2,080	3,085
Fifty Foot Sandstone	2,974	3,100	3,059	3,218
Gordon	3,100	3,385	3,192	3,520
Fifth Sandstone	3,385	3,459	3,494	3,597
Bayard	3,459	4,173	3,571	4,347
Speechley	4,173	4,496	4,321	4,688
Balltown	4,496	4,896	4,662	5,115
Bradford	4,896	5,159	5,089	5,396
Benson	5,159	5,427	5,370	5,679
Alexander	5,427	6,659	5,653	6,987
Sycamore	6,519	6,633	6,819	6,961
Middlesex	6,633	6,732	6,961	7,117
Burkett	6,732	6,763	7,117	7,181
Tully	6,763	6,822	7,181	7,366
Marcellus	6,822	NA	7,366	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:	5/30/2021
Job End Date:	6/20/2021
State:	West Virginia
County:	Tyler
API Number:	47-095-02713-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	TAPEATS UNIT 1H
Latitude:	39.50709000
Longitude:	-80.81064000
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,918
Total Base Water Volume (gal):	24,372,772
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	Halliburton	Base Fluid	Water	7732-18-5	100.00000	86.48139	Density = 8.50
Ingredients	Listed Above	Listed Above	Water	7732-18-5	100.00000	0.05170	

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WG-36 GELLING AGENT	Halliburton	Gelling Agent					
					Listed Below		
OPTIFLO-II DELAYED RELEASE BREAKER	Halliburton	Breaker					
					Listed Below		
Exceletrate LX-15	Halliburton	Friction Reducer					
					Listed Below		
HAI-501	Halliburton	Acid Corrosion Inhibitor					
					Listed Below		
Sand-Common White-100 Mesh, SSA-2	Halliburton	Proppant					
					Listed Below		
HYDROCHLORIC ACID, 22 BAUME	Halliburton	Solvent					
					Listed Below		
Sand-Premium White-40/70	Halliburton	Proppant					
					Listed Below		
Sand-Premium White-30/70	Halliburton	Proppant					
					Listed Below		

FLUID Enviro-Syn HCR-7000-WL	Fluid Energy Group	Acid Replacement							
					Listed Below				
MC B-8614A	MultiChem	Biocide							
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	13.38828		
			Complex Amine Compound	Proprietary		60.00000	0.03062		
			Hydrotreated light petroleum distillate	64742-47-8		30.00000	0.01531		
			Proprietary	Proprietary		20.00000	0.01091		
			Proprietary	Proprietary		10.00000	0.00545		
			Hydrochloric acid	7647-01-0		30.00000	0.00383		
			Guar gum	9000-30-0		100.00000	0.00358		
			Surfactant	Proprietary		5.00000	0.00255		
			Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8		5.00000	0.00255		
			Glutaraldehyde	111-30-8		30.00000	0.00249		
			Ethoxylated alcohols	Proprietary		5.00000	0.00051		
			Organic chloride compound	Proprietary		1.00000	0.00051		
			Alkoxylated polyhydric alcohol	Proprietary		1.00000	0.00051		
			Alkyl (C12-16) dimethylbenzyl ammonium chloride	68424-85-1		5.00000	0.00041		
			Ethanol	64-17-5		1.00000	0.00008		
			Ammonium persulfate	7727-54-0		100.00000	0.00008		
			Oxylated phenolic resin	Proprietary		30.00000	0.00002		
			Methanol	67-56-1		100.00000	0.00002		

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			Modified thiourea polymer	Proprietary	30.00000	0.00001
			Mixture of dimer and trimer fatty acids of indefinite composition derived from tall oil	61790-12-3	30.00000	0.00001
			Sodium glycolate	2836-32-0	0.01000	0.00001
			Formaldehyde	50-00-0	0.01000	0.00001
			Organic salt #1	Proprietary	0.01000	0.00001
			Acrylamide	79-06-1	0.01000	0.00001
			Nitrated acetate salt	Proprietary	0.01000	0.00001
			Organic salt #2	Proprietary	0.01000	0.00001
			Sodium hydroxide	1310-73-2	0.01000	0.00001
			Propargyl alcohol	107-19-7	5.00000	0.00000
			Hexadecene	629-73-2	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)