

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

API 47-095-02715 County Tyler District Ellsworth
Quad Porter Falls 7.5' Pad Name Grand Field/Pool Name -----
Farm name Kenneth Tomblin Et Al Well Number Tapeats 3H
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 4373069m Easting 516298m
Landing Point of Curve Northing 4373570.93m Easting 517228.59m
Bottom Hole Northing 4378092m Easting 515692m

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 3/16/2021 Date drilling ceased 3/28/2021
Date completion activities began 5/31/2021 Date completion activities ceased 7/1/2021
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 25' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 2305' Void(s) encountered (Y/N) depths No
Coal depth(s) ft 431' Cavern(s) encountered (Y/N) depths No
Is coal being mined in area (Y/N) No

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NO

Reviewed by:
Stephen M. Long 6-1322

API 47-095 - 02715 Farm name Kenneth Tomblin Et Al Well number Tapeats 3H

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"	360'	New	54.5#, J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2786'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	24004'	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) 3696 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) 24049' MD, 6849' TVD (BHL), 6910' (Deepest Point Drilled) Loggers TD (ft) 24049' MD
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 7053'

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 _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

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

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API 47- 095 - 02715 Farm name Kenneth Tomblin Et Al Well number Tapeats 3H

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								

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Please insert additional pages as applicable.

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PRODUCING FORMATION(S)	DEPTHS	
Marcellus	6831' (TOP) TVD	8101' (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 8163 mcfpd Oil 326 bpd NGL -- bpd Water 691 bpd GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
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***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 Brandi Hankins Telephone 303-357-7223
Signature  Title Completions Technician Date 2/8/22

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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	5/31/2021	23937.3	23896.9	36	Marcellus
2	5/31/2021	23855.99773	23643.7841	36	Marcellus
3	6/1/2021	23606.08186	23393.8683	36	Marcellus
4	6/1/2021	23356.16599	23143.9524	36	Marcellus
5	6/1/2021	23106.25011	22894.0365	36	Marcellus
6	6/2/2021	22856.33424	22644.1206	36	Marcellus
7	6/2/2021	22606.41837	22394.2048	36	Marcellus
8	6/2/2021	22356.50249	22144.2889	36	Marcellus
9	6/3/2021	22106.58662	21894.373	36	Marcellus
10	6/3/2021	21856.67075	21644.4571	36	Marcellus
11	6/3/2021	21606.75488	21394.5413	36	Marcellus
12	6/4/2021	21356.839	21144.6254	36	Marcellus
13	6/4/2021	21106.92313	20894.7095	36	Marcellus
14	6/4/2021	20857.00726	20644.7937	36	Marcellus
15	6/5/2021	20607.09138	20394.8778	36	Marcellus
16	6/5/2021	20357.17551	20144.9619	36	Marcellus
17	6/5/2021	20107.25964	19895.046	36	Marcellus
18	6/6/2021	19857.34376	19645.1302	36	Marcellus
19	6/6/2021	19607.42789	19395.2143	36	Marcellus
20	6/6/2021	19357.51202	19145.2984	36	Marcellus
21	6/7/2021	19107.59615	18895.3825	36	Marcellus
22	6/7/2021	18857.68027	18645.4667	36	Marcellus
23	6/7/2021	18607.7644	18395.5508	36	Marcellus
24	6/8/2021	18357.84853	18145.6349	36	Marcellus
25	6/8/2021	18107.93265	17895.719	36	Marcellus
26	6/8/2021	17858.01678	17645.8032	36	Marcellus
27	6/9/2021	17608.10091	17395.8873	36	Marcellus
28	6/9/2021	17358.18503	17145.9714	36	Marcellus
29	6/9/2021	17108.26916	16896.0556	36	Marcellus
30	6/10/2021	16858.35329	16646.1397	36	Marcellus
31	6/10/2021	16608.43741	16396.2238	36	Marcellus
32	6/11/2021	16358.52154	16146.3079	36	Marcellus
33	6/11/2021	16108.60567	15896.3921	36	Marcellus
34	6/11/2021	15858.6898	15646.4762	36	Marcellus
35	6/12/2021	15608.77392	15396.5603	36	Marcellus
36	6/12/2021	15358.85805	15146.6444	36	Marcellus
37	6/12/2021	15108.94218	14896.7286	36	Marcellus
38	6/12/2021	14859.0263	14646.8127	36	Marcellus
39	6/13/2021	14609.11043	14396.8968	36	Marcellus
40	6/13/2021	14359.19456	14146.981	36	Marcellus
41	6/14/2021	14109.27868	13897.0651	36	Marcellus
42	6/14/2021	13859.36281	13647.1492	36	Marcellus
43	6/14/2021	13609.44694	13397.2333	36	Marcellus
44	6/15/2021	13359.53107	13147.3175	36	Marcellus
45	6/15/2021	13109.61519	12897.4016	36	Marcellus
46	6/15/2021	12859.69932	12647.4857	36	Marcellus
47	6/16/2021	12609.78345	12397.5698	36	Marcellus
48	6/16/2021	12359.86757	12147.654	36	Marcellus
49	6/16/2021	12109.9517	11897.7381	36	Marcellus
50	6/17/2021	11860.03583	11647.8222	36	Marcellus
51	6/17/2021	11610.11995	11397.9063	36	Marcellus
52	6/17/2021	11360.20408	11147.9905	36	Marcellus
53	6/17/2021	11110.28821	10898.0746	36	Marcellus
54	6/18/2021	10860.37234	10648.1587	36	Marcellus
55	6/18/2021	10610.45646	10398.2429	36	Marcellus
56	6/18/2021	10360.54059	10148.327	36	Marcellus
57	6/19/2021	10110.62472	9898.41111	36	Marcellus
58	6/19/2021	9860.708844	9648.49524	36	Marcellus
59	6/19/2021	9610.792971	9398.57937	36	Marcellus
60	6/20/2021	9360.877098	9148.66349	36	Marcellus
61	6/20/2021	9110.961224	8898.74762	36	Marcellus
62	6/20/2021	8861.045351	8648.83175	36	Marcellus
63	6/20/2021	8611.129478	8398.91587	36	Marcellus
64	6/21/2021	8361.213605	8149	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	5/31/2021	72.04	9734.56	8490.83	3356.41	180180	221700	N/A
2	5/31/2021	83.52	10071	6500	3909	516040	379844	N/A
3	6/1/2021	85.37	10026	5338	3051	517930	384350	N/A
4	6/1/2021	79.75	9792.16	5442.03	3374.25	503530	381932	N/A
5	6/1/2021	86.92	10029	5397	3705	507870	381672	N/A
6	6/2/2021	91.78	9827	5606	3109.75	505810	383543	N/A
7	6/2/2021	85.86	9972	9882	3128.96	503830	367212	N/A
8	6/2/2021	87.97	10062	10325	3642	503740	359194	N/A
9	6/3/2021	86.23	9735	9862	3176.66	500450	339707	N/A
10	6/3/2021	90	10000	9659	2841.29	510720	360762	N/A
11	6/3/2021	93.25	10074	10187	3603	511210	359701	N/A
12	6/4/2021	90.56	10023	10014	3075.91	510070	359679	N/A
13	6/4/2021	90.3	10016	10017	3034.72	505000	356539	N/A
14	6/4/2021	94.53	10080	9811	3306	515660	361262	N/A
15	6/5/2021	91.29	9700	9623	3725.57	506060	425437	N/A
16	6/5/2021	89.53	9929	9274	2758.57	520240	362192	N/A
17	6/5/2021	95.16	10010	9015	3415	503530	354308	N/A
18	6/6/2021	96.33	10059	8558	3172	513950	358190	N/A
19	6/6/2021	94.23	10001	9937	3159.54	499480	357966	N/A
20	6/6/2021	96.09	9967	9827	3825	518630	363235	N/A
21	6/7/2021	97.46	9910	8964	3674	504190	355946	N/A
22	6/7/2021	97.08	9915	10210	2921.11	512580	363486	N/A
23	6/7/2021	95.98	9921	7605	2608	509280	356124	N/A
24	6/8/2021	96.61	10036	8823	3818	508330	357097	N/A
25	6/8/2021	96.09	9953	7360	2890.87	504800	353447	N/A
26	6/8/2021	94.7	9571	9588	3389	511300	367882	N/A
27	6/8/2021	97.09	10005	6883	3284.89	510390	353880	N/A
28	6/9/2021	94.74	9522	8059	3987	499760	350761	N/A
29	6/9/2021	92.31	9247	6228	3927	500340	352853	N/A
30	6/10/2021	93.81	9587	7469	3321	509580	357019	N/A
31	6/10/2021	85.51	9060	8261	3508	506540	347489	N/A
32	6/11/2021	97.99	9787	4948	3722	510060	355994	N/A
33	6/11/2021	92.23	9071	7292	3796	509680	353916	N/A
34	6/11/2021	96.48	9007	7617	3634	508540	350636	N/A
35	6/12/2021	94.79	9091	7753	4075	507050	375664	N/A
36	6/12/2021	95.62	9047	7121	4009	509080	372884	N/A
37	6/12/2021	93.71	9087	8643	4113	506200	373667	N/A
38	6/12/2021	95.53	9041	8126	3450	501180	368475	N/A
39	6/13/2021	94.55	9030	7324	3565	508620	379904	N/A
40	6/13/2021	96.01	9053	7310	4093	509400	373492	N/A
41	6/14/2021	91.71	9010	7600	3382	505220	372152	N/A
42	6/14/2021	93.45	9011	8324	3484	504540	373039	N/A
43	6/14/2021	96.74	8925	7775	3408	499180	371482	N/A
44	6/15/2021	97.35	9063	6635	3413	511550	376047	N/A
45	6/15/2021	96.11	9028	8970	3581	506950	371588	N/A
46	6/15/2021	93.69	9059	9323	4120	504240	370789	N/A
47	6/16/2021	97.53	8857	6935	3583	506270	369123	N/A
48	6/16/2021	96.53	8944	8977	3595	505480	372562	N/A
49	6/16/2021	92.75	8643	9318	3285	506120	371304	N/A
50	6/17/2021	98.12	8895	2124	3229	504820	370086	N/A
51	6/17/2021	97.63	8793	8834	3364	502197	370605	N/A
52	6/17/2021	95.63	8843	8113	3505	506290	370615	N/A
53	6/17/2021	95.06	9009	7261	3275	506680	368742	N/A
54	6/18/2021	95.97	8905	7910	3101	507140	368968	N/A
55	6/18/2021	97.62	8614	8504	3334	504470	368346	N/A
56	6/18/2021	97.19	8467	6103	2985	509370	368457	N/A
57	6/19/2021	98.22	8322	6594	2967	507590	368548	N/A
58	6/19/2021	97.6	8266	8153	3409	508900	369158	N/A
59	6/19/2021	97.34	7933	8377	3225	505920	369651	N/A
60	6/20/2021	96.77	8016	8232	3244	505790	367137	N/A
61	6/20/2021	98.25	8106	7840	3036	509050	368538	N/A
62	6/20/2021	98.75	8049	7173	3317	515440	373984	N/A
63	6/20/2021	97.16	7946	7385	3277	511260	366512	N/A
64	6/21/2021	97.36	7835	6098	3691	508740	377447	N/A
	AVG=	94	9,290	7,983	3,421	32,164,037	23,333,921	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	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	2,022	2,084	N/A
Big Lime	2,048	2,968	2,168	3,290
Fifty Foot Sandstone	2,968	3,098	3,264	3,444
Gordon	3,098	3,395	3,418	3,786
Fifth Sandstone	3,395	3,462	3,760	3,865
Bayard	3,462	4,159	3,839	4,673
Speechley	4,159	4,489	4,647	5,057
Balltown	4,489	4,891	5,031	5,530
Bradford	4,891	5,158	5,504	5,840
Benson	5,158	5,406	5,814	6,126
Alexander	5,406	6,664	6,100	7,626
Sycamore	6,525	6,638	7,434	7,600
Middlesex	6,638	6,741	7,600	7,799
Burkett	6,741	6,773	7,799	7,889
Tully	6,773	6,831	7,889	8,101
Marcellus	6,831	NA	8,101	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:	5/31/2021
Job End Date:	6/21/2021
State:	West Virginia
County:	Tyler
API Number:	47-095-02715-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	TAPEATS UNIT 3H
Latitude:	39.50702000
Longitude:	-80.81059000
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,910
Total Base Water Volume (gal):	24,197,983
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	86.35532	Density = 8.50
Ingredients	Listed Above	Listed Above	Water	7732-18-5	100.00000	0.05825	

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FLUID Enviro-Syn HCR-7000-WL	Fluid Energy Group	Acid Replacement		Listed Below			
Sand-Common White-100 Mesh, SSA-2	Halliburton	Proppant		Listed Below			
HAI-501	Halliburton	Acid Corrosion Inhibitor		Listed Below			
MC B-8614A	MultiChem	Biocide		Listed Below			
HYDROCHLORIC ACID, 22 BAUME	Halliburton	Solvent		Listed Below			
WG-36 GELLING AGENT	Halliburton	Gelling Agent		Listed Below			
OPTIFLO-II DELAYED RELEASE BREAKER	Halliburton	Breaker		Listed Below			
Excelerate LX-15	Halliburton	Friction Reducer		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	13.50398	
	Complex Amine Compound	Proprietary	60.00000	0.03508	
	Hydrotreated light petroleum distillate	64742-47-8	30.00000	0.01754	
	Proprietary	Proprietary	20.00000	0.01097	
	Proprietary	Proprietary	10.00000	0.00549	
	Hydrochloric acid	7647-01-0	30.00000	0.00444	
	Guar gum	9000-30-0	100.00000	0.00410	
	Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8	5.00000	0.00292	
	Surfactant	Proprietary	5.00000	0.00292	
	Glutaraldehyde	111-30-8	30.00000	0.00251	
	Ethoxylated alcohols	Proprietary	5.00000	0.00059	
	Organic chloride compound	Proprietary	1.00000	0.00058	
	Alkoxyated polyhydric alcohol	Proprietary	1.00000	0.00058	
	Alkyl (C12-16) dimethylbenzyl ammonium chloride	68424-85-1	5.00000	0.00042	
	Ammonium persulfate	7727-54-0	100.00000	0.00008	
	Ethanol	64-17-5	1.00000	0.00008	
	Methanol	67-56-1	100.00000	0.00003	
	Oxylated phenolic resin	Proprietary	30.00000	0.00003	
	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 hydroxide	1310-73-2	0.01000	0.00001	
	Organic salt #1	Proprietary	0.01000	0.00001	
	Organic salt #2	Proprietary	0.01000	0.00001	
	Nitrated acetate salt	Proprietary	0.01000	0.00001	

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			Formaldehyde	50-00-0	0.01000	0.00001	
			Sodium glycolate	2836-32-0	0.01000	0.00001	
			Acrylamide	79-06-1	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)