

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

API 47 - 095 - 02716 County Tyler District Ellsworth
Quad Porter Falls 7.5' Pad Name Grand Field/Pool Name ----
Farm name Kenneth Tomblin Et Al Well Number Vishnu 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 4373085m Easting 516290m
Landing Point of Curve Northing 4373519.98m Easting 516171.79m
Bottom Hole Northing 4377758m Easting 514733m

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 3/7/2021 Date drilling ceased 5/2/2021
Date completion activities began 5/15/2021 Date completion activities ceased 7/28/2021
Verbal plugging (Y/N) N/A Date permission granted N/A Granted by N/A

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

Reviewed by:

Stephen M. Hogg 6-13-22

API 47- 095 - 02716 Farm name Kenneth Tomblin Et Al Well number Vishnu 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"	2440'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	23130'	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) 3609 sx (Tail)	13.5 (Lead), 15.2(Tail)	1.4 (Lead), 1.26 (Tail)	816	~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 23174' MD, 6797' TVD (BHL), 6900' (Deepest Point Drilled) Loggers TD (ft) 23174' MD
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 6059'

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 - 02716 Farm name Kenneth Tomblin Et Al Well number Vishnu 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 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		
	TVD	MD	MD
Marcellus	6814' (TOP)	7123' (TOP)	

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 8604 mcfpd Oil 449 bpd NGL --- bpd Water 719 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 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 [Signature] Title Completions Technician Date 2/8/22

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

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API 47-095-02716 Farm Name Kenneth Tomblin Et Al Well Number Vishnu Unit 1H

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	5/15/2021	23057.7	23015	36	Marcellus
2	5/15/2021	22973.87982	22760.3587	36	Marcellus
3	5/15/2021	22722.43855	22508.9175	36	Marcellus
4	5/16/2021	22470.99728	22257.4762	36	Marcellus
5	5/16/2021	22219.55601	22006.0349	36	Marcellus
6	5/16/2021	21968.11474	21754.5937	36	Marcellus
7	5/16/2021	21716.67347	21503.1524	36	Marcellus
8	5/17/2021	21465.2322	21251.7111	36	Marcellus
9	5/17/2021	21213.79093	21000.2698	36	Marcellus
10	5/17/2021	20962.34966	20748.8286	36	Marcellus
11	5/17/2021	20710.90839	20497.3873	36	Marcellus
12	5/18/2021	20459.46712	20245.946	36	Marcellus
13	5/18/2021	20208.02585	19994.5048	36	Marcellus
14	5/18/2021	19956.58458	19743.0635	36	Marcellus
15	5/19/2021	19705.14331	19491.6222	36	Marcellus
16	5/19/2021	19453.70204	19240.181	36	Marcellus
17	5/19/2021	19202.26077	18988.7397	36	Marcellus
18	5/20/2021	18950.8195	18737.2984	36	Marcellus
19	5/20/2021	18699.37823	18485.8571	36	Marcellus
20	5/20/2021	18447.93696	18234.4159	36	Marcellus
21	5/20/2021	18196.49569	17982.9746	36	Marcellus
22	5/21/2021	17945.05442	17731.5333	36	Marcellus
23	5/21/2021	17693.61315	17480.0921	36	Marcellus
24	5/21/2021	17442.17188	17228.6508	36	Marcellus
25	5/21/2021	17190.73061	16977.2095	36	Marcellus
26	5/22/2021	16939.28934	16725.7683	36	Marcellus
27	5/22/2021	16687.84807	16474.327	36	Marcellus
28	5/22/2021	16436.4068	16222.8857	36	Marcellus
29	5/22/2021	16184.96553	15971.4444	36	Marcellus
30	5/23/2021	15933.52426	15720.0032	36	Marcellus
31	5/23/2021	15682.08299	15468.5619	36	Marcellus
32	5/23/2021	15430.64172	15217.1206	36	Marcellus
33	5/23/2021	15179.20045	14965.6794	36	Marcellus
34	5/23/2021	14927.75918	14714.2381	36	Marcellus
35	5/24/2021	14676.31791	14462.7968	36	Marcellus
36	5/24/2021	14424.87664	14211.3556	36	Marcellus
37	5/24/2021	14173.43537	13959.9143	36	Marcellus
38	5/24/2021	13921.9941	13708.473	36	Marcellus
39	5/25/2021	13670.55283	13457.0317	36	Marcellus
40	5/25/2021	13419.11156	13205.5905	36	Marcellus
41	5/25/2021	13167.67029	12954.1492	36	Marcellus
42	5/25/2021	12916.22902	12702.7079	36	Marcellus
43	5/25/2021	12664.78776	12451.2667	36	Marcellus
44	5/26/2021	12413.34649	12199.8254	36	Marcellus
45	5/26/2021	12161.90522	11948.3841	36	Marcellus
46	5/26/2021	11910.46395	11696.9429	36	Marcellus
47	5/26/2021	11659.02268	11445.5016	36	Marcellus
48	5/26/2021	11407.58141	11194.0603	36	Marcellus
49	5/27/2021	11156.14014	10942.619	36	Marcellus
50	5/27/2021	10904.69887	10691.1778	36	Marcellus
51	5/27/2021	10653.2576	10439.7365	36	Marcellus
52	5/27/2021	10401.81633	10188.2952	36	Marcellus
53	5/28/2021	10150.37506	9936.85397	36	Marcellus
54	5/28/2021	9898.933787	9685.4127	36	Marcellus
55	5/28/2021	9647.492517	9433.97143	36	Marcellus
56	5/28/2021	9396.051247	9182.53016	36	Marcellus
57	5/28/2021	9144.609977	8931.08889	36	Marcellus
58	5/29/2021	8893.168707	8679.64762	36	Marcellus
59	5/29/2021	8641.727438	8428.20635	36	Marcellus
60	5/29/2021	8390.286168	8176.76508	36	Marcellus
61	5/29/2021	8138.844898	7925.32381	36	Marcellus
62	5/29/2021	7887.403628	7673.88254	36	Marcellus
63	5/30/2021	7635.962358	7422.44127	36	Marcellus
64	5/30/2021	7384.521088	7171	36	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 (bbbls)	Amount of Nitrogen/ other (units)
1	5/15/2021	80.67	10193	8978	3958	165680	221700	N/A
2	5/15/2021	88.7	10418	5998	3238	505010	379844	N/A
3	5/15/2021	85.44	9976	6114	3162	509700	384350	N/A
4	5/16/2021	85.57	9981	5868	3442	502130	381932	N/A
5	5/16/2021	84.85	9943	5454	3058	504870	381672	N/A
6	5/16/2021	89.06	9862	5327	3507	509550	383543	N/A
7	5/16/2021	87.44	10052	8059	3460	504910	367212	N/A
8	5/17/2021	88.27	10074	7169	3305	506970	359194	N/A
9	5/17/2021	89.28	9986	7201	3684	507560	339707	N/A
10	5/17/2021	84.46	9781	7724	3245	509510	360762	N/A
11	5/17/2021	88.28	9628	7378	3656	500760	359701	N/A
12	5/18/2021	90.89	10089	7727	3461	507820	359679	N/A
13	5/18/2021	88.79	10059	4476	3113	504050	356539	N/A
14	5/18/2021	88.61	9964	7972	3160	506200	361262	N/A
15	5/19/2021	90.78	9911	5716	3638	508200	425437	N/A
16	5/19/2021	92.34	9933	6374	3661	506540	362192	N/A
17	5/19/2021	84.82	9108	5511	3450	507680	354308	N/A
18	5/20/2021	91.3	9777	5895	3703	508120	358190	N/A
19	5/20/2021	90.84	9619	5858	3230.48	505930	357966	N/A
20	5/20/2021	88.31	9366	5639	3371	506030	363235	N/A
21	5/20/2021	93.65	9685	5992	4215	503810	355946	N/A
22	5/21/2021	93.1	9621	5810	3883	515960	363486	N/A
23	5/21/2021	92.8	9776	5731	3650	507320	356124	N/A
24	5/21/2021	88.64	9219	6033	3440	508880	357097	N/A
25	5/21/2021	96.16	9569	5528	3737	510960	353447	N/A
26	5/22/2021	97.54	9710	5666	4046	502920	367882	N/A
27	5/22/2021	96.96	9772	5877	3463	501790	353880	N/A
28	5/22/2021	96.99	9640	5700	3920	508170	350761	N/A
29	5/22/2021	97.89	9475	5741	3591	504540	352853	N/A
30	5/23/2021	98.67	9528	5986	3560	508760	357019	N/A
31	5/23/2021	99.33	9765	5198	3456	499770	347489	N/A
32	5/23/2021	94.12	9209	4252	3266	506280	355994	N/A
33	5/23/2021	92.43	8870	6584	3403	506420	353916	N/A
34	5/23/2021	98.04	9408	6207	3434	499860	350636	N/A
35	5/24/2021	98.44	9272	6476	3574	507080	375664	N/A
36	5/24/2021	97.23	9412	6363	3620	506570	372884	N/A
37	5/24/2021	91.91	8638	8413	3254	512420	373667	N/A
38	5/24/2021	96.12	8867	8892	3692	503930	368475	N/A
39	5/25/2021	97.91	8991	8578	3556	503200	379904	N/A
40	5/25/2021	98.07	8938	9124	3754	506160	373492	N/A
41	5/25/2021	95.9	9104	8004	3363	509950	372152	N/A
42	5/25/2021	97.84	8987	7419	3004	498200	373039	N/A
43	5/25/2021	91.48	8972	8561	3340	503280	371482	N/A
44	5/26/2021	95.84	8874.45	9277.09	3466.24	502040	376047	N/A
45	5/26/2021	98.07	9056	7339	3356	495940	371588	N/A
46	5/26/2021	97.62	8932	7139	3447	505800	370789	N/A
47	5/26/2021	97.7	8932	7475	3359	508200	369123	N/A
48	5/26/2021	98.94	9009	6635	3124	512320	372562	N/A
49	5/27/2021	92.83	8967	6408	3426	504500	371304	N/A
50	5/27/2021	95.46	9235	7388	4379	408070	370086	N/A
51	5/27/2021	98.32	8987	6292	3310	501050	370605	N/A
52	5/27/2021	97.66	8558	6566	2967	507600	370615	N/A
53	5/28/2021	97.96	8347	5601	3301	499360	368742	N/A
54	5/28/2021	98.7	8646	5849	3030	500500	368968	N/A
55	5/28/2021	98.87	8382	6489	3021	501570	368346	N/A
56	5/28/2021	98.33	8164	6364	3041	499930	368457	N/A
57	5/28/2021	96.86	8052	5791	3005	503850	368548	N/A
58	5/29/2021	98.25	8212	7684	3016	500970	369158	N/A
59	5/29/2021	98.73	7858	7171	3160	505910	369651	N/A
60	5/29/2021	98.95	8438	6329	3003	499190	367137	N/A
61	5/29/2021	98.22	8134	5291	3124	499340	368538	N/A
62	5/29/2021	97.83	7793	6030	3740	499790	373984	N/A
63	5/30/2021	96.17	8037	6150	4516	508130	366512	N/A
64	5/30/2021	97.37	7524	4809	3500	517610	377447	N/A
	AVG=	94	9,223	6,573	3,453	31,905,120	23,333,921	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	2,041	2,084	N/A
Big Lime	2,067	2,974	2,042	2,974
Fifty Foot Sandstone	2,974	3,103	2,948	3,103
Gordon	3,103	3,381	3,077	3,381
Fifth Sandstone	3,381	3,460	3,355	3,460
Bayard	3,460	4,179	3,434	4,187
Speechley	4,179	4,504	4,161	4,517
Balltown	4,504	4,894	4,491	4,912
Bradford	4,894	5,161	4,886	5,183
Benson	5,161	5,458	5,157	5,484
Alexander	5,458	6,652	5,458	6,740
Sycamore	6,514	6,626	6,572	6,714
Middlesex	6,626	6,722	6,714	6,871
Burkett	6,722	6,751	6,871	6,935
Tully	6,751	6,814	6,935	7,123
Marcellus	6,814	NA	7,123	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:	5/15/2021
Job End Date:	5/30/2021
State:	West Virginia
County:	Tyler
API Number:	47-095-02716-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	VISHNU UNIT 1H
Latitude:	39.50716000
Longitude:	-80.81069000
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,900
Total Base Water Volume (gal):	24,464,551
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	86.57706	Density = 8.50
Ingredients	Listed Above	Listed Above	Water	7732-18-5	100.00000	0.08032	

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 DATE 10/02/2022



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Sand-Common White-100 Mesh, SSA-2	Halliburton	Proppant		Listed Below				
HAI-501	Halliburton	Acid Corrosion Inhibitor		Listed Below				
Sand-Premium White-30/70	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				
OPTIFLO-II DELAYED RELEASE BREAKER	Halliburton	Breaker		Listed Below				
HYDROCHLORIC ACID, 22 BAUME	Halliburton	Solvent		Listed Below				
MC B-8614A	Multichem	Biocide		Listed Below				

Sand-Premium White-40/70	Halliburton	Proppant							
				Listed Below					
Excellerate 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	13.28334			
			Complex Amine Compound	Proprietary	60.00000	0.02884			
			Hydrotreated light petroleum distillate	64742-47-8	30.00000	0.01442			
			Hydrochloric acid	7647-01-0	30.00000	0.01291			
			Proprietary	Proprietary	20.00000	0.00725			
			Proprietary	Proprietary	10.00000	0.00363			
			Guar gum	9000-30-0	100.00000	0.00360			
			Glutaraldehyde	111-30-8	30.00000	0.00254			
			Surfactant	Proprietary	5.00000	0.00240			
			Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8	5.00000	0.00240			
			Ethoxylated alcohols	Proprietary	5.00000	0.00048			
			Alkoxyated polyhydric alcohol	Proprietary	1.00000	0.00048			
			Organic chloride compound	Proprietary	1.00000	0.00048			
			Alkyl (C12-16) dimethylbenzyl ammonium chloride	68424-85-1	5.00000	0.00042			
			Ammonium persulfate	7727-54-0	100.00000	0.00010			
			Ethanol	64-17-5	1.00000	0.00008			
			Methanol	67-56-1	100.00000	0.00008			
			Oxylated phenolic resin	Proprietary	30.00000	0.00003			
			Modified thiourea polymer	Proprietary	30.00000	0.00002			

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					61790-12-3	30.00000	0.00002	
				Mixture of dimer and trimer fatty acids of indefinite composition derived from tall oil				
				Organic salt #2	Proprietary	0.01000	0.00000	
				Sodium hydroxide	1310-73-2	0.01000	0.00000	
				Nitrated acetate salt	Proprietary	0.01000	0.00000	
				Sodium glycolate	2836-32-0	0.01000	0.00000	
				Acrylamide	79-06-1	0.01000	0.00000	
				Organic salt #1	Proprietary	0.01000	0.00000	
				Formaldehyde	50-00-0	0.01000	0.00000	
				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)