

Well Operator's Report of Well Work



Well Number: Van Winkle N-16HU

API: 47 - 051 - 02349

Submission: Initial Amended

Notes:

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WV Department of
Environmental Protection

02/23/2024

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

API 47 - 051 - 02349 County Marshall District Meade
Quad Glen Easton 7.5' Pad Name Hunter Pethel Field/Pool Name _____
Farm name XcL Midstream Operating, LLC Well Number Van Winkle N-16HU
Operator (as registered with the OOG) EQT Production Company
Address 400 Woodcliff Drive City Canonsburg State PA Zip 15317

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4,403,538.52 Easting 523,381.01
Landing Point of Curve Northing _____ Easting _____
Bottom Hole Northing _____ Easting _____

Elevation (ft) 753' 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)
SOBM; Base oil, osmotic inhibitor, weighting agent, viscosifier, emulsifier, hardness buffer, fluid loss additive, LCM, Shale inhibitor, de-foamer, soaping agent, coagulant, flocculant; specific additives per WSSP and Permit.

Date permit issued 5/3/2021 Date drilling commenced spud: 1/7/2022 big rig: 3/26/2022 Date drilling ceased 5/4/2022
Date completion activities began 07/01/2023 Date completion activities ceased 10/24/2023
Verbal plugging (Y/N) N Date permission granted NA Granted by NA

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 440' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 895' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 339' & 434' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N



Reviewed by: [Signature]
02/23/2024

API 47- 051 - 02349 Farm name XcL Midstream Operating, LLC Well number Van Winkle N-16HU

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	38"	30"	120'	NEW	118.65#	N/A	Y
Surface	26"	20"	515'	NEW	106.5#	N/A	Y
Coal	26"	20"	515'	NEW	106.5#	N/A	Y
Intermediate 1	17 1/2"	13 3/8"	2,220'	NEW	54.5#	N/A	Y
Intermediate 2	12 3/8"	9 5/8"	10,351'	NEW	47#	N/A	Y
Intermediate 3							
Production	8 1/2"	5 1/2"	26,616'	NEW	23#	N/A	Y
Tubing							
Packer type and depth set							

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	A	380	15.6	1.21	459	0	8
Surface	A	1004	15.6	1.18	1184	0	8
Coal	A	1004	15.6	1.18	1184	0	8
Intermediate 1	A	1728	15.6	1.18	2039	0	8
Intermediate 2	A	4225	14.5	1.28	5408	0	8
Intermediate 3							
Production	A	6460	16.5	1.03	6653	0	8
Tubing							

Drillers TD (ft) 26,662' Loggers TD (ft) N/A

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

Plug back procedure N/A

Kick off depth (ft) 10,808'

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 3 centralizers on surface casing at equal distance.

Intermediate - 1 centralizer every other joint.

Production - one centralizer every other joint in lateral, one centralizer every joint through curve, one centralizer every other joint to surface.

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

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WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

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WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

API 47- 051 - 02349 Farm name XcL Midstream Operating, LLC Well number Van Winkle N-16HU

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>Utica</u>	<u>10,711-10,983</u> TVD	<u>11,319-26,662</u> MD
_____	_____	_____
_____	_____	_____
_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 8274 psi Bottom Hole _____ psi DURATION OF TEST 4 hrs

OPEN FLOW Gas 13770 mcfpd Oil 0 bpd NGL _____ bpd Water 37 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	
	<u>0</u>		<u>0</u>		

Please insert additional pages as applicable.

Drilling Contractor Nabors Drilling USA
Address 505 West Greens Road, Suite 1000 City Houston State TX Zip 77067

Logging Company n/a
Address _____ City _____ State _____ Zip 77067

Cementing Company Halliburton Energy Services, Inc.
Address 121 Champion Way, Suite 200 City Canonsburg State PA Zip 15317

Stimulating Company ProFrac
Address 333 Shops Boulevard City Willow Park State TX Zip 76087

Please insert additional pages as applicable.

Completed by Adam Hughey Telephone 724-579-5475
Signature _____ Title Director of Completions Date 2024-01-10

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

02/23/2024

Well # VAN WINKLE N-16HU (L027353) Final Formations API# 47-051-02349				
Formation Name	Drill Top MD (ftKB)	Drill Top (TVD) (ftKB)	Drill Btm MD (ftKB)	Drill Btm (TVD) (ftKB)
Sand/Shale	1	1	339	339
Sewickley Coal	339	339	434	434
Pittsburgh Coal	434	434	440	440
Sand/Shale	440	440	1,477	1,477
Maxton	1,477	1,477	1,656	1,655
Big Lime	1,656	1,655	1,705	1,704
Big Injun	1,705	1,704	1,949	1,947
Weir	1,949	1,947	2,148	2,146
Berea	2,148	2,146	2,419	2,416
Gordon	2,419	2,416	2,491	2,488
Fifty Foot	2,491	2,488	3,083	3,078
Speechley	3,083	3,078	4,565	4,539
Benson	4,565	4,539	4,933	4,900
Alexander	4,933	4,900	5,580	5,534
Rhinestreet	5,580	5,534	6,019	5,965
Middlesex	6,019	5,965	6,095	6,040
Geneseo	6,095	6,040	6,122	6,066
Tully	6,122	6,066	6,158	6,102
Hamilton	6,158	6,102	6,227	6,170
Marcellus	6,227	6,170	6,277	6,219
Onondaga	6,277	6,219	6,514	6,453
Oriskany	6,514	6,453	6,636	6,572
Helderberg	6,636	6,572	7,011	6,934
Salina	7,011	6,934	8,182	7,991
Lockport	8,182	7,991	8,604	8,360
Rose Hill	8,604	8,360	8,921	8,634
Packer Shell	8,921	8,634	9,166	8,849
Clinton/Tuscarora	9,166	8,849	9,278	8,947
Juniata/Queenston	9,278	8,947	10,158	9,740
Reedsville	10,158	9,740	11,319	10,711
Utica	11,319	10,711	26,662	10,983

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Perforation Data

02/23/2024

Van Winkle N-16HU Perf Table

Data Source: EQT Corporation

Stage_Number	Perf_Date	Depth_Bottom	Depth_Top	Shot_Count	Formation
2	07/26/2023	26383	26207	48	Utica
3	07/27/2023	26183	26008	48	Utica
4	07/27/2023	25984	25809	48	Utica
5	07/28/2023	25781	25613	48	Utica
6	07/28/2023	25585	25410	48	Utica
7	07/28/2023	25386	25211	48	Utica
8	07/29/2023	25189	25009	48	Utica
9	07/29/2023	24987	24812	48	Utica
10	07/30/2023	24788	24613	48	Utica
11	07/30/2023	24589	24413	48	Utica
12	07/30/2023	24390	24214	48	Utica
13	07/31/2023	24190	24015	48	Utica
14	07/31/2023	23991	23819	48	Utica
15	07/31/2023	23792	23616	48	Utica
16	07/31/2023	23592	23417	48	Utica
17	08/01/2023	23395	23215	48	Utica
18	08/01/2023	23194	23018	48	Utica
19	08/01/2023	22994	22819	48	Utica
20	08/01/2023	22795	22622	48	Utica
21	08/01/2023	22596	22420	48	Utica
22	08/02/2023	22397	22221	48	Utica
23	08/02/2023	22197	22020	48	Utica
24	08/02/2023	21998	21823	48	Utica
25	08/02/2023	21799	21623	48	Utica
26	08/03/2023	21599	21424	48	Utica
27	08/03/2023	21400	21225	48	Utica
28	08/03/2023	21201	21025	48	Utica
29	08/04/2023	21001	20826	48	Utica
30	08/04/2023	20802	20627	48	Utica
31	08/04/2023	20603	20427	48	Utica
32	08/05/2023	20404	20228	48	Utica
33	08/05/2023	20204	20029	48	Utica
34	08/06/2023	20005	19830	48	Utica
35	08/06/2023	19806	19630	48	Utica
36	08/06/2023	19606	19431	48	Utica
37	08/06/2023	19407	19232	48	Utica
38	08/06/2023	19208	19032	48	Utica
39	08/07/2023	19001	18830	48	Utica
40	08/07/2023	18809	18634	48	Utica
41	08/07/2023	18605	18434	48	Utica
42	08/07/2023	18411	18239	48	Utica
43	08/08/2023	18211	18036	48	Utica
44	08/08/2023	18012	17837	48	Utica
45	08/08/2023	17813	17639	48	Utica

46 08/08/2023	17613	17438	48 Utica
47 08/08/2023	17414	17239	48 Utica
48 08/09/2023	17215	17039	48 Utica
49 08/09/2023	17015	16840	48 Utica
50 08/09/2023	16815	16641	48 Utica
51 08/09/2023	16617	16441	48 Utica
52 08/10/2023	16418	16242	48 Utica
53 08/10/2023	16215	16043	48 Utica
54 08/10/2023	16019	15844	48 Utica
55 08/10/2023	15820	15644	48 Utica
56 08/11/2023	15616	15445	48 Utica
57 08/11/2023	15421	15246	48 Utica
58 08/11/2023	15222	15046	48 Utica
59 08/11/2023	15017	14845	48 Utica
60 08/11/2023	14823	14648	48 Utica
61 08/12/2023	14620	14448	48 Utica
62 08/12/2023	14420	14249	48 Utica
63 08/12/2023	14225	14050	48 Utica
64 08/12/2023	14024	13851	48 Utica
65 08/12/2023	13827	13654	48 Utica
66 08/13/2023	13627	13452	48 Utica
67 08/13/2023	13428	13253	48 Utica
68 08/13/2023	13229	13053	48 Utica
69 08/13/2023	13029	12854	48 Utica
70 08/14/2023	12830	12655	48 Utica
71 08/14/2023	12631	12453	48 Utica
72 08/14/2023	12432	12256	48 Utica
73 09/21/2023	11884	11709	48 Utica
74 09/21/2023	11686	11511	48 Utica

Stimulation Data

Stimulation_Date	Stage_Number	Avg_Pump_Rate	Avg_Treatment_Pressure	Pressure_Breakdown	ISIP	Prop_Total	Volume_Total_Calc	Proppant_Type	Proppant_Mesh_Size
8/29/2023	1	75	12417	11814	6396	254060	7284	Sand	100 MESH;
7/26/2023	2	78	11561	9404	7267	502200	8885	Sand	100 MESH; 40/70;
7/28/2023	3	77	11834	9611	7189	504760	8395	Sand	100 MESH; 40/70;
7/28/2023	4	75	11628	8887	7226	507500	8479	Sand	100 MESH; 40/70;
7/28/2023	5	74	11574	9377	7469	506520	8211	Sand	100 MESH; 40/70;
7/29/2023	6	76	11720	10246	7618	505380	8363	Sand	100 MESH; 40/70;
7/29/2023	7	79	11869	8609	7493	507920	8547	Sand	100 MESH; 40/70;
7/30/2023	8	78	11759	10506	7277	505480	8264	Sand	100 MESH; 40/70;
7/30/2023	9	75	11261	10089	7489	508380	8322	Sand	100 MESH; 40/70;
7/30/2023	10	80	11548	8897	7587	504480	8331	Sand	100 MESH; 40/70;
7/30/2023	11	82	11477	8826	7940	503540	8311	Sand	100 MESH; 40/70;
7/31/2023	12	84	11285	8503	8305	507980	8169	Sand	100 MESH; 40/70;
7/31/2023	13	80	10786	8808	8262	502620	8071	Sand	100 MESH; 40/70;
7/31/2023	14	80	10939	8714	7951	505040	8062	Sand	100 MESH; 40/70;
7/31/2023	15	80	10713	8941	8013	504540	8096	Sand	100 MESH; 40/70;
8/1/2023	16	80	10769	7937	8029	503960	8201	Sand	100 MESH; 40/70;
8/1/2023	17	81	11002	8254	7382	506930	8436	Sand	100 MESH; 40/70;
8/1/2023	18	80	11018	8060	7543	504800	8059	Sand	100 MESH; 40/70;
8/1/2023	19	80	11323	8203	8017	505040	7969	Sand	100 MESH; 40/70;
8/2/2023	20	80	10997	8036	7399	509260	8143	Sand	100 MESH; 40/70;
8/2/2023	21	80	10991	8052	8391	508380	8008	Sand	100 MESH; 40/70;
8/2/2023	22	84	10997	7838	7693	506380	7838	Sand	100 MESH; 40/70;
8/2/2023	23	85	11414	8171	7290	500400	7642	Sand	100 MESH; 40/70;
8/3/2023	24	80	11174	7957	7209	494940	8061	Sand	100 MESH; 40/70;
8/3/2023	25	82	11333	8425	7439	504960	7957	Sand	100 MESH; 40/70;
8/3/2023	26	81	10934	8253	8267	508000	7898	Sand	100 MESH; 40/70;
8/3/2023	27	82	11197	8609	7861	507240	8026	Sand	100 MESH; 40/70;
8/4/2023	28	80	10871	9485	7960	503560	8197	Sand	100 MESH; 40/70;
8/4/2023	29	80	11333	9538	7901	449880	7665	Sand	100 MESH; 40/70;
8/4/2023	30	80	11331	8934	7501	505460	9363	Sand	100 MESH; 40/70;
8/5/2023	31	82	11278	8578	7914	494520	7772	Sand	100 MESH; 40/70;
8/5/2023	32	81	11097	9489	8181	505560	8094	Sand	100 MESH; 40/70;
8/5/2023	33	80	10970	9298	10705	507220	7384	Sand	100 MESH; 40/70;
8/6/2023	34	80	11314	8873	8817	504220	7587	Sand	100 MESH; 40/70;
8/6/2023	35	79	11249	10068	8191	508000	7934	Sand	100 MESH; 40/70;
8/6/2023	36	79	11495	9468	7594	508540	8151	Sand	100 MESH; 40/70;
8/7/2023	37	80	11568	9193	7716	493860	7881	Sand	100 MESH; 40/70;
8/7/2023	38	80	11246	10087	8380	492880	7727	Sand	100 MESH; 40/70;
8/7/2023	39	80	11287	9193	8512	477300	7344	Sand	100 MESH; 40/70;
8/7/2023	40	80	11341	9332	8007	502620	7469	Sand	100 MESH; 40/70;
8/8/2023	41	81	11209	10069	8094	499280	7936	Sand	100 MESH; 40/70;
8/8/2023	42	81	11166	8814	7979	491240	7880	Sand	100 MESH; 40/70;
8/8/2023	43	80	10951	9152	8338	507240	7583	Sand	100 MESH; 40/70;
8/8/2023	44	81	10967	8847	8703	507340	7978	Sand	100 MESH; 40/70;
8/8/2023	45	80	10929	8341	8158	508240	7842	Sand	100 MESH; 40/70;
8/9/2023	46	81	11208	8889	8250	507880	8061.255	Sand	100 MESH; 40/70;
8/9/2023	47	81	11243	10009	8545	493360	7711	Sand	100 MESH; 40/70;
8/9/2023	48	80	11195	10045	8443	507140	7484	Sand	100 MESH; 40/70;
8/9/2023	49	81	10936	8970	7946	508700	7461	Sand	100 MESH; 40/70;
8/10/2023	50	85	11113	10765	7864	509800	7906	Sand	100 MESH; 40/70;
8/10/2023	51	85	11125	9120	8721	506780	7681	Sand	100 MESH; 40/70;

8/10/2023	52	80	10902	9633	8311	503360	7583 Sand	100 MESH; 40/70;
8/10/2023	53	80	10662	10033	8710	504720	7139 Sand	100 MESH; 40/70;
8/10/2023	54	80	10763	9199	7648	507540	7497 Sand	100 MESH; 40/70;
8/11/2023	55	85	10811	8438	7695	506380	7953 Sand	100 MESH; 40/70;
8/11/2023	56	85	10947	8155	8412	505200	7858 Sand	100 MESH; 40/70;
8/11/2023	57	83	11081	10345	8349	506300	7594 Sand	100 MESH; 40/70;
8/11/2023	58	85	10820	8763	8176	507120	7371 Sand	100 MESH; 40/70;
8/12/2023	59	86	10689	9469	8574	506940	7644 Sand	100 MESH; 40/70;
8/12/2023	60	85	10741	9316	8008	505780	7850.188 Sand	100 MESH; 40/70;
8/12/2023	61	85	10726	8935	8574	504180	7710 Sand	100 MESH; 40/70;
8/12/2023	62	84	10902	8281	7892	507860	7427 Sand	100 MESH; 40/70;
8/12/2023	63	84	11123	8670	7730	477060	7054 Sand	100 MESH; 40/70;
8/13/2023	64	85	10935	9009	7819	503680	8004 Sand	100 MESH; 40/70;
8/13/2023	65	84	10886	9667	8193	506200	7904 Sand	100 MESH; 40/70;
8/13/2023	66	84	10872	9131	8161	506160	7448 Sand	100 MESH; 40/70;
8/13/2023	67	85	10816	9114	8222	506660	7271 Sand	100 MESH; 40/70;
8/14/2023	68	85	11168	9597	8224	486340	7589 Sand	100 MESH; 40/70;
8/14/2023	69	86	10534	9580	8038	506920	7784 Sand	100 MESH; 40/70;
8/14/2023	70	86	10409	10950	8507	502480	7579 Sand	100 MESH; 40/70;
8/14/2023	71	82	10478	9201	7769	510780	7716 Sand	100 MESH; 40/70;
8/14/2023	72	80	10461	8669	8053	494700	7527 Sand	100 MESH; 40/70;

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	08/22/2023
Job End Date:	09/22/2023
State:	West Virginia
County:	Marshall
API Number:	47-051-02349-00-00
Operator Name:	EQT Production
Well Name and Number:	Van Winkle N-16HU
Latitude:	39.781471
Longitude:	-80.726959
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	10984
Total Base Water Volume (gal)*:	25832916.606
Total Base Non Water Volume:	0



Water Source	Percent
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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	EQT	Carrier/Base Fluid					
			Water	7732-18-5	100.00000	85.39923	None
Sand (Proppant)	EQT	Proppant					
			Silica Substrate	14808-60-7	100.00000	14.24445	None
MX-5-3886	Multi-Chem	Bacterial treatment					
			Calcium nitrate	13477-34-4	100.00000	0.03460	None
7.5 HCl	Profrac	Acid					
			7.5 HCl	7647-01-0	7.50000	0.01884	None
StimSTREAM FR 9800	ChemStream	Friction Reducer					
			Copolymer of 2-propenamamide	Proprietary	30.00000	0.00822	None
StimSTREAM FR 9800	ChemStream	Friction Reducer					

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			Petroleum Distillate	64742-47-8	20.00000	0.00365	None
LD-7750W	Multi-Chem	Scale Inhibitor					
			Methanol	67-56-1	60.00000	0.00277	None
MX-8-4543	Multi-Chem	Bacterial treatment					
			Contains no hazardous substances in concentrations above cut-off values according to the competent authority	Proprietary	100.00000	0.00224	None
ProFE 105	ProFrac	Iron Control					
			Citric Acid	77-92-9	100.00000	0.00143	None
ProFE 105	Profrac	Iron Control					
			Citric Acid	77-92-9	100.00000	0.00143	None
15 HCl	Profrac	Acid					
			15 HCl	7647-01-0	15.00000	0.00117	None
ProHib 100	ProFrac	Acid Corrosion Inhibitor					
			Methanol	67-56-1	90.00000	0.00053	None
ProFE 105	ProFrac	Iron Control					
			2-hydroxypropane-1,2,3-tricarboxylic acid	77-92-9	60.00000	0.00051	None
ProFE 105	Profrac	Iron Control					
			2-hydroxypropane-1,2,3-tricarboxylic acid	77-92-9	60.00000	0.00051	None
StimSTREAM FR 9800	ChemStream	Friction Reducer					
			Oleic Acid Diethanolamide	93-83-4	2.00000	0.00004	None
StimSTREAM FR 9800	ChemStream	Friction Reducer					
			Alcohols, C12-16, ethoxylated	68551-12-2	2.00000	0.00004	None
LD-7750W	Multi-Chem	Scale Inhibitor					
			Phosphonic Acid Salt	Proprietary	5.00000	0.00002	None
StimSTREAM FR 9800	ChemStream	Friction Reducer					
			Ammonium chloride ((NH4)Cl)	12125-02-9	1.00000	0.00001	None
ProHib 100	ProFrac	Acid Corrosion Inhibitor					

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			Imidazoline	61790-69-0	5.00000	0.00000	None
ProHib 100	ProFrac	Acid Corrosion Inhibitor					
			Xylene	1330-20-7	5.00000	0.00000	None
ProHib 100	ProFrac	Acid Corrosion Inhibitor					
			Alcohols, C7-ISO, C8-RICH	68526-83-0	5.00000	0.00000	None
ProHib 100	ProFrac	Acid Corrosion Inhibitor					
			Propapgyl Alcohol	107-19-7	5.00000	0.00000	None
ProHib 100	ProFrac	Acid Corrosion Inhibitor					
			Isopropanol	67-63-0	5.00000	0.00000	None
ProHib 100	ProFrac	Acid Corrosion Inhibitor					
			ethylbenzene	100-41-4	1.00000	0.00000	None

Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS

* 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%

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)