

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

API 47-061-01818 County Monongalia District Battelle
Quad Mannington Pad Name McClellan Field/Pool Name _____
Farm name McClellan Well Number 10H
Operator (as registered with the OOG) Northeast Natural Energy LLC
Address 707 Virginia St. E., Suite 1200 City Charleston State WV Zip 25301

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4386004.7 Easting 561919.4
Landing Point of Curve Northing 4386228.0 Easting 562492.2
Bottom Hole Northing 4383763.4 Easting 564191.7

Elevation (ft) 1,412' 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)

SYNTHETIC BASED MUD FOR HORIZONTAL SECTION; BIO-BASE 365, CALCIUM CHLORIDE POWDER, G-Seal Plus, HRP, Lime, M-I WATE (BARITE), M-I-X II MEDIUM,
MEGADRIL P SYSTEM, MEGADRIL P SYSTEM RENTAL, MEGAMUL, SAFE-CARB 250, VERSATHIN HF, VERSAWET, VG-PLUS, VINSEAL MEDIUM, WALNUT NUT PLUG MEDIUM

Date permit issued 1/16/2019 Date drilling commenced 7/22/2019 Date drilling ceased 12/20/2020
Date completion activities began 2/9/2021 Date completion activities ceased _____
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 726', 1105', 1135' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 2150', 2470' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 1095' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by:

08/27/2021

API 47-061 - 01818 Farm name McClellan Well number 10H

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	30"	24"	58"	N		NA	Y, CTS
Surface	17-1/2"	13-3/8"	1,252'	N	54.5	NA	Y, 30 bbl
Coal							
Intermediate 1	12-1/4"	9-5/8"	2,702'	N	40	NA	Y, 22 bbl
Intermediate 2							
Intermediate 3							
Production	8-3/4"	5-1/2"	19,081'	N	20	NA	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	4500 psi ready mix	36				CTS	48
Surface	Class A	1,000	15.6	1.179	1,179	CTS	8
Coal							
Intermediate 1	Class A	899	15.6	1.18	1,061	CTS	8
Intermediate 2							
Intermediate 3							
Production	Class A	3,430	14.5	1.16	3,967	2,101'	48
Tubing							

Drillers TD (ft) 19,081' Loggers TD (ft) 19,051'
 Deepest formation penetrated Marcellus Plug back to (ft) NA
 Plug back procedure NA

Kick off depth (ft) 5,745 MD

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 _____

Surface: Bow spring centralizers every 3rd joint or approximately 120'

Intermediate: Bow spring centralizers every 3rd joint or approximately 120'

Production: Rigid body centralizers placed at a minimum of every other joint (~80') from TD to surface

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 _____

API 47- 061 - 01818 Farm name McClellan Well number 10H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>Marcellus</u>	<u>8,093'</u> TVD	<u>19,081'</u> MD
_____	_____	_____
_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 2,617 psi Bottom Hole 2,617 psi DURATION OF TEST 24 hrs

OPEN FLOW Gas 2,201 mcfpd Oil _____ bpd NGL _____ bpd Water _____ bpd
 GAS MEASURED BY Estimated Orifice Pilot

<u>LITHOLOGY/ FORMATION</u>	<u>TOP</u>		<u>BOTTOM</u>		<u>DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H₂S, ETC)</u>
	<u>DEPTH IN FT NAME TVD</u>	<u>DEPTH IN FT TVD</u>	<u>DEPTH IN FT MD</u>	<u>DEPTH IN FT MD</u>	
<u>See Attached</u>	<u>0</u>		<u>0</u>		

Please insert additional pages as applicable.

Drilling Contractor Patterson UTI
 Address 4000 Town Center Blvd, Suite 240 City Canonsburg State PA Zip 15317

Logging Company Baker Hughes
 Address 837 Phillipi Pike City Clarksburg State WV Zip 26301

Cementing Company Lightning Energy Service
 Address 104 Heliport Loop Rd City Bridgeport State WV Zip 26330

Stimulating Company Producers Service Company
 Address 109 Graham St. City Zanesville State OH Zip 43701

Please insert additional pages as applicable.

Completed by Hollie Medley Telephone 304-212-0422
 Signature Hollie Medley Title Regulatory Manager Date 7-16-21

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

McClellan Completion lithology

Lithology/Formation	Top Depth in FT TVD	Bottom Depth in FT TVD	Describe rock type and record quantity and type of fluid (freshwater, brine, oil, gas, H2S, etc)
Sand/silt	0	160	Sand/silt
silt/red shale	160	490	silt/red shale
siltstone/sandstone/limestone	490	520	siltstone/sandstone/limestone
limestone/siltstone/sandstone	520	576	siltstone
coal	576	580	coal
siltstone/limestone/shale	580	760	siltstone/shale
coal	760	992	siltstone/shale/limestone
siltstone/sandstone	992	998	coal
coal	998	1084	siltstone/shale/limestone
sandstone/siltstone/limestone	1084	1092	coal - Pittsburgh
coal-Pittsburgh	1092	1120	siltstone/shale/limestone
sandstone/limestone	1120	1150	sandstone
red shale/siltstone	1150	1480	siltstone/limestone/sand/red shale
Limestone/siltstone	1480	2050	siltstone/sandstone
sandstone	2050	2110	sandstone
sandstone/siltstone/red shale	2110	2260	siltstone/sandstone
siltstone/sandstone	2260	2470	siltstone/limestone
sandstone	2470	2500	Big Injun Sandstone
Upper Devonian Sands/silts	2500	3010	sandstone/siltstone
shale/siltstone	3010	3020	Gantz sandstone
Upper Devonian Sands/silts	3020	3560	Upper Devonian sandstones/siltstones
Devonian siltstones/shales	3560	7620	Devonian siltstones/shales
Middlesex shale/silt	7620	7790	Middlesex shale/silt
Burkett shale	7790	7816	Burkett Shale
Geneseo shale	7816	7845	Geneseo shale
Tully Limestone	7845	7898	Tully Limestone
Hamilton shale	7898	7996	Hamilton shale
Marcellus shale	7996	TD	Marcellus shale

McClellan 10H Perforation Summary				
Stage Number	Report Date	Cluster 5 Bottom TD	Cluster 1 Top TD	Total Shots
1	02/09/21	18,965	-	-
2	02/10/21	18,785	18,926	40
3	02/10/21	18,607	18,748	40
4	02/12/21	18,429	18,570	40
5	02/12/21	18,251	18,392	40
6	02/12/21	18,073	18,214	40
7	02/13/21	17,895	18,036	40
8	02/13/21	17,717	17,858	40
9	02/14/21	17,539	17,680	40
10	02/15/21	17,361	17,502	40
11	02/16/21	17,184	17,324	40
12	02/17/21	17,006	17,146	40
13	02/17/21	16,828	16,968	40
14	02/18/21	16,650	16,790	40
15	02/19/21	16,472	16,612	40
16	02/20/21	16,294	16,434	40
17	02/20/21	16,116	16,256	40
18	02/21/21	15,938	16,078	40
19	02/21/21	15,760	15,900	40
20	02/22/21	15,582	15,722	40
21	02/23/21	15,404	15,544	40
22	02/23/21	15,226	15,366	40
23	02/24/21	15,048	15,188	40
24	02/24/21	14,870	15,010	40
25	02/25/21	14,692	14,832	40
26	02/25/21	14,514	14,654	40
27	02/26/21	14,336	14,476	40
28	02/26/21	14,158	14,298	40
29	02/26/21	13,980	14,120	40
30	02/27/21	13,802	13,942	40
31	02/27/21	13,624	13,764	40
32	02/28/21	13,446	13,587	40
33	03/01/21	13,268	13,409	40
34	03/02/21	13,090	13,231	40
35	03/02/21	12,912	13,053	40
36	03/03/21	12,734	12,875	40
37	03/03/21	12,546	12,697	40
38	03/04/21	12,378	12,519	40
39	03/04/21	12,200	12,341	40
40	03/04/21	12,022	12,163	40
41	03/05/21	11,844	11,985	40
42	03/05/21	11,666	11,807	40

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43	03/06/21	11,488	11,629	40
44	03/06/21	11,310	11,451	40
45	03/07/21	11,133	11,273	40
46	03/07/21	10,955	11,095	40
47	03/08/21	10,777	10,917	40
48	03/08/21	10,599	10,739	40
49	03/09/21	10,421	10,561	40
50	03/09/21	10,243	10,383	40
51	03/10/21	10,065	10,205	40
52	02/27/21	9,887	10,027	40
53	03/10/21	9,709	9,849	40
54	03/11/21	9,531	9,671	40
55	03/11/21	9,353	9,493	40
56	03/11/21	9,175	9,315	40
57	03/12/21	8,997	9,137	40

McClellan 10H Stimulation Report

Stage Number	Report Date	ISIP (psi)	Breakdown Pressure (psi)	Avg Treating Pressure	Avg Treating Rate	Pad Volume (bbls)	Total Clean Fluid (Bbls)	Total Proppant Amount (lbs)	Flush Volume (bbls)
1	02/09/21	5,009	11,011	8,324	92	253	6,338	311,500	422
2	02/10/21	6,185	7,502	9,128	90	33	7,111	357,300	420
3	02/10/21	6,372	7,382	8,520	90	30	7,129	355,120	413
4	02/12/21	6,269	6,310	9,198	87	56	7,370	355,080	411
5	02/12/21	5,261	7,153	9,483	86	10	7,496	353,580	408
6	02/12/21	6,510	6,570	9,716	89	16	7,020	356,940	404
7	02/13/21	5,554	5,784	9,581	92	7	7,042	355,960	400
8	02/13/21	5,772	7,000	9,476	89	12	7,130	367,620	398
9	02/14/21	5,831	6,982	9,278	89	7	6,495	357,960	392
10	02/15/21	5,649	6,033	9,713	91	7	6,549	355,060	388
11	02/16/21	5,316	6,922	9,153	83	17	7,933	306,620	383
12	02/17/21	6,360	6,770	9,605	89	7	6,305	355,120	380
13	02/17/21	6,351	6,623	9,587	87	14	6,532	355,800	379
14	02/18/21	6,453	7,177	9,296	84	17	6,828	356,680	374
15	02/19/21	6,222	7,723	9,755	90	10	6,157	355,560	368
16	02/20/21	5,838	7,135	9,818	88	10	6,743	359,500	364
17	02/20/21	5,838	7,384	9,560	81	9	6,298	353,720	361
18	02/21/21	5,797	6,827	9,781	85	20	6,743	349,980	356
19	02/21/21	5,891	6,965	9,607	84	7	6,477	359,840	352
20	02/22/21	5,066	7,171	9,625	87	34	6,743	354,300	349
21	02/23/21	5,300	6,933	9,631	91	20	6,452	359,440	345
22	02/23/21	6,627	6,910	9,440	90	50	7,834	354,980	345
23	02/24/21	5,126	6,710	9,000	80	20	6,452	359,880	337
24	02/24/21	6,582	5,981	9,368	93	5	6,390	354,720	333
25	02/25/21	6,226	6,579	9,443	90	28	6,426	353,860	324
26	02/25/21	5,209	5,231	8,861	84	2	6,443	356,820	325
27	02/26/21	5,810	5,788	9,280	90	11	6,444	356,280	322
28	02/26/21	5,237	5,952	9,347	87	17	6,612	350,540	314
29	02/26/21	5,456	6,418	9,010	86	3	6,481	361,320	313
30	02/27/21	5,464	7,479	9,031	86	10	6,586	362,380	310
31	02/27/21	5,182	7,025	9,650	85	3	6,238	349,080	305
32	02/28/21	5,295	7,768	9,449	90	8	6,383	357,410	301
33	03/01/21	5,343	6,782	9,776	81	35	8,162	356,360	297
34	03/02/21	5,710	7,402	9,465	86	10	6,250	318,080	498
35	03/02/21	5,725	6,817	8,815	85	15	6,263	353,540	289
36	03/03/21	5,538	9,804	8,954	86	16	6,302	358,980	285
37	03/03/21	5,368	6,434	8,684	84	16	6,052	355,860	281
38	03/04/21	5,540	6,574	8,992	90	18	6,012	353,800	277
39	03/04/21	5,874	7,040	8,847	93	11	6,334	354,225	276
40	03/04/21	5,210	6,863	8,695	90	25	6,065	357,260	273
41	03/05/21	6,853	5,492	8,887	86	26	6,429	350,120	265
42	03/05/21	5,222	6,498	8,912	90	25	6,107	355,100	266
43	03/06/21	6,105	8,217	9,020	93	15	5,721	368,120	265
44	03/06/21	5,916	6,796	8,548	89	20	6,365	358,440	254
45	03/07/21	6,116	7,452	8,498	87	15	6,414	355,440	252
46	03/07/21	5,620	7,576	8,337	85	15	6,260	352,480	254

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47	03/08/21	6,373	7,784	8,365	90	22	6,212	355,480	237
48	03/08/21	5,385	7,305	8,689	89	15	6,210	369,740	240
49	03/09/21	5,791	7,200	8,487	89	16	7,039	355,120	238
50	03/09/21	6,364	7,035	8,483	89	10	5,631	352,720	237
51	03/10/21	5,807	7,246	8,325	90	17	6,755	361,400	251
52	02/27/21	5,959	7,008	8,445	88	15	6,965	359,380	223
53	03/10/21	6,114	7,410	8,300	88	15	5,661	354,880	218
54	03/11/21	5,417	7,090	8,338	91	18	7,365	361,220	226
55	03/11/21	6,598	6,607	8,198	90	8	6,267	355,960	206
56	03/11/21	5,817	6,076	7,987	86	15	5,805	355,860	206
57	03/12/21	5,541	6,662	8,233	89	-	6,001	358,080	206

08/27/2021



Ticket #: 0

Remit to:
 Lightning Energy Services
 104 Heliport Loop Road
 Bridgeport, WV 26330

Job Times				
	On Loc:	Job Start:	Job End:	Off Loc:
Date:	07/22/19	07/23/19		07/23/19
Time:	11:00am	3:20am	4:50am	7:00am

Customer and Well Information					
Customer: NORTHEAST		Well Name: McClellan	Well #: 10H	Well Type: GAS	
County:	State: WV	AFE #/API #: 100384-602	PO #/Permit #:	Well Class:	
Field:	Lease: McClellan	Rig Name/# : northeast rig 8			
Wellbore Information					
Bit Size (Inches): 17.5	Well MD (ft):	Well TVD (ft): 1300	BHST (F°):	BHCT (F°):	Deviation (°):
Drilling Fluid Type:	Drilling Fluid Density (ppg):	Packer Depth (ft):	Treating Down:		
Previous Casing/Liner					
Size (Inches): 24	Weight (lb/ft):	Thread:	Grade:	Total Footage (ft): 58	
Casing/Liner/Tubing					
Size (Inches): 13.375	Weight (lb/ft): 54.5	Thread:	Grade:	Total Footage (ft): 1252	
Job					
Job Type:		Connection to Well: YES		Top Plug: YES	
Lift Pressure (PSI): 476	Max Annulus Pressure (PSI):		Mix Water Temp (F°):	Bottom Plug: No	
Casing/Tubing Secured : YES	Pipe Rotated: No	Cement Return to Surface (bbl): 30		Top Job (bbl): no	
Pipe Reciprocated : No	Circulation Lost: No	Job Completed: YES			

08/27/2021



Ticket #: 0

Remit to:
 Lightning Energy Services
 104 Heliport Loop Road
 Bridgeport, WV 26330

Job Times				
On Loc:	Job Start:	Job End:	Off Loc:	
Date: 07/26/19			07/26/19	
Time: 12:00pm	1:30pm	3:51pm	5:00pm	

Customer and Well Information					
Customer: NORTHEAST		Well Name: McClellan	Well #: 10H	Well Type: GAS	
County:	State: WV	AFE #/API #: 100384-602	PO #/Permit #:	Well Class:	
Field:	Lease: McClellan		Rig Name/# : northeast rig 8		
Wellbore Information					
Bit Size (Inches): 12.25	Well MD (ft):	Well TVD (ft): 2735	BHST (F°):	BHCT (F°):	Deviation (°):
Drilling Fluid Type:	Drilling Fluid Density (ppg):	Packer Depth (ft):	Treating Down:		
Previous Casing/Liner					
Size (Inches): 13.375	Weight (lb/ft): 54.5	Thread:	Grade:	Total Footage (ft): 1252	
Casing/Liner/Tubing					
Size (Inches): 9.625	Weight (lb/ft): 40	Thread:	Grade:	Total Footage (ft): 2702	
Job					
Job Type:		Connection to Well: YES		Top Plug: YES	
Lift Pressure (PSI): 1546	Max Annulus Pressure (PSI):		Mix Water Temp (F°):	Bottom Plug: No	
Casing/Tubing Secured : YES	Pipe Rotated: No	Cement Return to Surface (bbl): 22		Top Job (bbl): no	
Pipe Reciprocated : No	Circulation Lost: No	Job Completed: YES			

08/27/2021

Cement Job Log



Customer:	NORTHEAST NATURAL ENERGY LLC	Date:	20-Dec-20	Serv. Supervisor:	Drew Forsythe
Cust. Rep.:	Sam Barker	Ticket #:	BPA-2012-0033	Serv. Center:	Black Lick - 1571
Well Name:	McClellan 10H	API Well #:	47-061-01818	County:	Monongalia
Well Type:		Rig:	Patterson 277	State:	WV
				Type of Job:	CM-PROD. CASING

Materials Furnished by NextTier								
Plugs	Casing Hardware	Physical Slurry Properties						
Innovex top and bottom	10K 5.5" Double Plug Container with Buttress Crossover	Sacks of Cement	Fluid Density (lb/gal)	Excess	Yield (cuft/sk)	Mix Water (gal/sk)	Fluid Volume (bbls)	Mix Water (bbls)
13.5 lb/gal PureScrub Spacer w/Surfactant	+1.0 GPB NSU-887L+0.2 GPB NSU-893L	110	13.5		5.62	26.89	110.00	70
14.5 lb/gal Cement	50 % NCM-910+50 % NPZ-010 +0.2 % NFP-701+0.15 % NAS-504+0.2 % NRT-213+0.15 % NFL-549+0.1 % NTC-405	3430	14.5		1.16	4.89	706.66	400
Fresh Water Displacement			8.33		-	-	421.38	
0					-	-		
					-	-		
					-	-		
					-	-		
					-	-		
					-	-		
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					-	-		
					-	-		
					-	-		
					-	-		

Displacement Chemicals:

OPEN HOLE DATA				TUBULAR DATA						
8.75 in. O.H. 2,720 to 5,766 ft		5.5 in. 20#, (0 to 19,081 ft)		SIZE WEIGHT	THRD	DEPTH (ft)	GRADE	ID (in)	BURST (psi)	COLLAPSE (psi)
Mix Cemt. Temperature °F	Lead Temp.	Middle Temp.	Tail Temp.	9.625# 40#		2720		8.835		
58.0 °F				5.5# 20#	BTC	19073	P110	4.778	12640	11080

PREVIOUS CASING DATA		PERFORATED INTERVAL DATA				CASING EQUIPMENT DEPTHS			
9.625 in. 36# (0 to 2,720 ft)		TOP	BTM	SPF	SIZE	SHOE	FLOAT	STAGE	ACP
						19069.8			

WELL FLUID		DISPLACEMENT FLUID			DIFF PRESS	CSG LIFT	MAX PRESS	Total Number of Runs	WATER ON LOC (bbl)
TYPE	DENSITY	VOLUME	TYPE	DENSITY	(psi)	(psi)	(psi)		
OBM	12.4#	423.4 bbl	H2O	8.3 ppg	2485		7000		1600

Bumped Plug	Final Differential (psi)	Floats Held (Y/N)	PSI Left on Casing	Cement to Surface (bbl)	Top of Cement (ft)	Full Circ. During Job (Y/N)	Max Pump Pressure (psi)	Casing Rotation	Additional Hrs Charged (hrs)	Casing Reciprocation	Rathole Length (ft)
Yes	3,700.00	Y	-	-	2,101	Yes	4,200.00	.No	-	No	43

Comments/Special Customer Instructions:

Drew Forsythe
 Service Supervisor

20-Dec-20
 Date

08/27/2021

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	2/9/2021
Job End Date:	3/12/2021
State:	West Virginia
County:	Monongalia
API Number:	47-061-01818-00-00
Operator Name:	Northeast Natural Energy LLC
Well Name and Number:	McClellan 10H
Latitude:	39.62156700
Longitude:	-80.27857700
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	8,094
Total Base Water Volume (gal):	15,653,148
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
Water	Company 1	Carrier/Base Fluid	Water	7732-18-5	100.00000	86.35300	None
Sand (Proppant)	Producers Service Corp	Proppant	Silica Substrate	14808-60-7	100.00000	13.35406	None
StimSTREAM FR 9800	Producers Service Corp	Friction Reducer	copolymer of 2-propenamide	Proprietary	30.00000	0.01601	None
			Petroleum Distillate	64742-47-8	20.00000	0.01067	None
			Alcohols, C12-16, ethoxylated	68551-12-2	2.00000	0.00107	None
			Oleic Acid Diethanolamide	93-83-4	2.00000	0.00107	None
			Ammonium chloride ((NH4)Cl)	12125-02-9	1.00000	0.00053	None
Clearal 268	Producers Service Corp	Biocide	Non-hazardous substances	Proprietary	80.00000	0.01560	None
			Glutaraldehyde	111-30-8	20.00000	0.00390	None
			Quaternary Ammonium Compounds	68424-85-1	3.00000	0.00058	None
			Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00058	None

			Ethanol	64-17-5	1.50000	0.00029	None
StimSTREAM SC 405	Producers Service Corp	Scale Inhibitor					
			Non-hazardous substances	Proprietary	70.00000	0.01321	None
			Diethylenetriamine penta (methylene phosphonic acid) (DTPMP)	15827-60-8	10.00000	0.00189	None
			2-Phosphono-1,2,4-butanetricarboxylic acid (PBTC)	37971-36-1	10.00000	0.00189	None
			Citric Acid	77-92-9	10.00000	0.00189	None
7.5% HCL	Producers Service Corp	Acidizing					
			Hydrochloric Acid	7647-01-0	7.50000	0.01506	None
4-N-1	Producers Service Corp	Inhibitor					
			Acetic acid	64-19-7	90.00000	0.00035	None
			Methanol	67-56-1	10.00000	0.00004	None
			2-Ethylhexanol	104-76-7	10.00000	0.00004	None
			Cocamide Diethanolamine	68603-42-9	5.00000	0.00002	None
			Diethanolamine	111-42-2	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.							
Other Chemical(s)	Listed Above	See Trade Name(s) List					
			Non-hazardous substances	Proprietary	80.00000	0.01560	
			Petroleum Distillate	64742-47-8	20.00000	0.01067	
			2-Phosphono-1,2,4-butanetricarboxylic acid (PBTC)	37971-36-1	10.00000	0.00189	
			Diethylenetriamine penta (methylene phosphonic acid) (DTPMP)	15827-60-8	10.00000	0.00189	
			Citric Acid	77-92-9	10.00000	0.00189	
			Alcohols, C12-16, ethoxylated	68551-12-2	2.00000	0.00107	
			Oleic Acid Diethanolamide	93-83-4	2.00000	0.00107	
			Quaternary Ammonium Compounds	68424-85-1	3.00000	0.00058	
			Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00058	
			Ammonium chloride ((NH4)Cl)	12125-02-9	1.00000	0.00053	
			Ethanol	64-17-5	1.50000	0.00029	
			Methanol	67-56-1	10.00000	0.00004	
			2-Ethylhexanol	104-76-7	10.00000	0.00004	
			Cocamide Diethanolamine	68603-42-9	5.00000	0.00002	
			Diethanolamine	111-42-2	1.00000	0.00000	

* Total Water Volume sources may include fresh water, produced water, and/or 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)