

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

API 47 - 061 - 01820 County Monongalia District Battelle
Quad Mannington Pad Name McClellan Field/Pool Name _____
Farm name McClellan Well Number 9H
Operator (as registered with the OOG) Northeast Natural Energy LLC
Address 707 Virginia Street 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 4386027.7 Easting 561910.8
Landing Point of Curve Northing 4386373.5 Easting 562230.4
Bottom Hole Northing 4390101.0 Easting 559651.8

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 02/22/2019 Date drilling commenced 5/29/2019 Date drilling ceased 4/15/2020
Date completion activities began 5/8/2020 Date completion activities ceased 5/28/2020
Verbal plugging (Y/N) N Date permission granted NA Granted by _____

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:

10/08/2021

API 47-061 - 01820 Farm name McClellan Well number 9H

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"	55'	N		NA	
Surface	17.5"	13.375"	1,210	N	54.5	NA	Y, 50 bbl
Coal							
Intermediate 1	12.25"	9.625"	2,918'	N	40	NA	Y, 43 bbl
Intermediate 2							
Intermediate 3							
Production	8.5"	5.5	23,831'	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						48
Surface	Class A	1,250	15.6	1.19	1,484	CTS	8
Coal							
Intermediate 1	Class A	1,100	15.2	1.13	1,240	CTS	8
Intermediate 2							
Intermediate 3							
Production	Class A	4,300	14.5	1.16	4,975	2,385'	48
Tubing							

Drillers TD (ft) 23,870' Loggers TD (ft) 23,840'
 Deepest formation penetrated Oriskany (Pilot), Marcellus (Horizontal) Plug back to (ft) 5,138'
 Plug back procedure A pilot hole was drilled on synthetic based mud to an approximate depth of 8,390' and plugged back with solid cement.

Kick off depth (ft) 5,260'

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 - 01820 Farm name McClellan Well number 9H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
<u>Marcellus</u>	<u>8,072'</u>	<u>TVD</u>	<u>23,870'</u> <u>MD</u>
_____	_____	_____	_____
_____	_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface NA psi Bottom Hole 3001 psi DURATION OF TEST 24 hrs

OPEN FLOW Gas Oil NGL Water GAS MEASURED BY
2821 mcfpd _____ bpd _____ bpd _____ bpd 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	

See attached	0		0		

Please insert additional pages as applicable.

Drilling Contractor Highlands Drilling
 Address 900 Virginia St. E. City Charleston State WV Zip 25301

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

Cementing Company Lightening Energy Services
 Address 104 Heliport Loop Road City Bridgeport State WV Zip 26330

Stimulating Company Producers Services
 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 _____

McClellan 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 9H Perforation Summary

Stage Number	Report Date	Cluster 5 Bottom TD	Cluster 1 Top TD	Total Shots
1	05/08/20	23,723	0	0
2	05/09/20	23,542	23,683	40
3	05/09/20	23,363	23,504	40
4	05/09/20	23,184	23,325	40
5	05/10/20	23,005	23,146	40
6	05/10/20	22,826	22,967	40
7	05/10/20	22,647	22,788	40
8	05/10/20	22,468	22,609	40
9	05/11/20	22,289	22,430	40
10	05/11/20	22,110	22,251	40
11	05/11/20	21,931	22,072	40
12	05/11/20	21,752	21,893	40
13	05/12/20	21,573	21,714	40
14	05/12/20	21,394	21,535	40
15	05/12/20	21,215	21,356	40
16	05/13/20	21,036	21,177	40
17	05/13/20	20,856	20,998	40
18	05/13/20	20,677	20,819	40
19	05/14/20	20,498	20,640	40
20	05/14/20	20,319	20,461	40
21	05/14/20	20,140	20,282	40
22	05/14/20	19,961	20,102	40
23	05/15/20	19,782	19,923	40
24	05/15/20	19,603	19,744	40
25	05/15/20	19,424	19,565	40
26	05/16/20	19,245	19,386	40
27	05/16/20	19,066	19,207	40
28	05/16/20	18,887	19,028	40
29	05/16/20	18,708	18,849	40
30	05/17/20	18,529	18,670	40
31	05/17/20	18,350	18,491	40
32	05/17/20	18,171	18,312	40
33	05/17/20	17,992	18,133	40
34	05/17/20	17,813	17,954	40
35	05/18/20	17,634	17,775	40
36	05/18/20	17,455	17,596	40
37	05/18/20	17,275	17,417	40
38	05/18/20	17,096	17,238	40
39	05/19/20	16,917	17,059	40
40	05/19/20	16,738	16,880	40
41	05/19/20	16,559	16,701	40
42	05/19/20	16,380	16,521	40
43	05/20/20	16,201	16,342	40
44	05/20/20	16,022	16,163	40
45	05/20/20	15,843	15,984	40
46	05/20/20	15,664	15,805	40

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McClellan 9H Perforation Summary

47	05/20/20	15,485	15,626	40
48	05/21/20	15,306	15,447	40
49	05/21/20	15,127	15,268	40
50	05/21/20	14,948	15,089	40
51	05/21/20	14,769	14,910	40
52	05/21/20	14,590	14,731	40
53	05/22/20	14,411	14,552	40
54	05/22/20	14,232	14,373	40
55	05/22/20	14,053	14,194	40
56	05/22/20	13,874	14,015	40
57	05/23/20	13,694	13,836	40
58	05/23/20	13,515	13,657	40
59	05/23/20	13,336	13,478	40
60	05/23/20	13,157	13,299	40
61	05/23/20	12,978	13,120	40
62	05/24/20	12,799	12,940	40
63	05/24/20	12,620	12,761	40
64	05/24/02	12,441	12,582	40
65	05/24/20	12,262	12,403	40
66	05/24/20	12,083	12,224	40
67	05/25/20	11,904	12,045	40
68	05/25/20	11,725	11,866	40
69	05/25/20	11,546	11,687	40
70	05/25/20	11,367	11,508	40
71	05/26/20	11,188	11,329	40
72	05/26/20	11,009	11,150	40
73	05/26/20	10,830	10,971	40
74	05/26/20	10,651	10,792	40
75	05/27/20	10,472	10,613	40
76	05/27/20	10,293	10,434	40
77	05/27/20	10,113	10,255	40
78	05/27/20	9,934	10,076	40
79	05/27/20	9,755	9,897	40
80	05/27/20	9,576	9,718	40
82	05/28/20	9,218	9,359	40
83	05/28/20	9,039	9,180	40
84	05/28/20	8,860	9,001	40

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McMlellan 9H Stimulation Report

Stage Number	Report Date	ISIP (psi)	Breakdown Pressure (psi)	Avg Treating Pressure (psi)	Avg Treating Rate (BPM)	Pad Volume (bbls)	Total Clean Fluid (bbls)	Total Proppant Amount (lbs)	Flush Volume (bbls)
1	05/08/20	4,540	6,026	9,050	77	595	7,545	302,040	537
2	05/09/20	5,245	7,652	9,794	81	188	9,275	376,940	527
3	05/09/20	4,981	8,014	9,512	85	119	8,256	378,800	546
4	05/09/20	5,336	6,948	9,833	83	524	8,807	377,540	519
5	05/10/20	5,609	6,832	9,595	85	42	7,889	375,650	515
6	05/10/20	5,657	7,063	9,874	87	50	7,865	375,630	505
7	05/10/20	5,331	7,466	9,751	87	56	7,957	375,960	507
8	05/10/20	5,284	6,615	9,675	84	52	7,150	358,580	501
9	05/11/20	5,805	6,592	9,836	87	69	7,333	356,450	500
10	05/11/20	5,040	7,082	9,967	88	65	7,339	350,930	495
11	05/11/20	5,141	6,871	9,885	90	52	7,539	355,400	496
12	05/11/20	5,427	5,891	9,789	89	79	7,705	360,340	491
13	05/12/20	5,394	7,114	9,725	88	55	7,291	356,200	490
14	05/12/20	5,374	6,806	9,720	87	50	7,087	356,010	486
15	05/12/20	5,458	6,520	9,867	88	70	7,351	354,190	474
16	05/13/20	6,080	6,898	9,797	88	54	7,396	357,220	470
17	05/13/20	6,163	6,527	9,918	90	50	8,032	356,250	465
18	05/13/20	5,473	6,378	9,726	89	42	7,289	354,790	465
19	05/14/20	5,828	6,720	9,766	90	56	7,007	355,510	455
20	05/14/20	5,006	7,158	9,577	88	50	7,195	355,280	461
21	05/14/20	5,293	6,958	9,738	89	124	6,794	361,350	459
22	05/14/20	5,503	6,849	9,825	92	54	7,120	355,030	449
23	05/15/20	5,565	7,250	9,615	89	60	7,148	352,770	449
24	05/15/20	5,518	7,312	9,606	85	44	7,003	354,930	447
25	05/15/20	5,152	7,690	9,649	89	85	6,853	359,000	434
26	05/16/20	6,214	7,121	9,580	90	53	6,985	357,280	435
27	05/16/20	5,396	7,449	9,564	90	60	7,108	354,400	430
28	05/16/20	5,480	7,758	9,724	90	60	7,212	361,360	424
29	05/16/20	6,116	7,785	9,653	88	65	6,671	356,010	417
30	05/17/20	5,566	7,266	9,498	89	39	6,447	355,020	414
31	05/17/20	6,305	7,491	9,689	89	27	6,762	353,560	417
32	05/17/20	5,015	7,345	9,426	90	28	6,778	356,220	422
33	05/17/20	5,474	7,687	9,799	93	49	6,632	354,130	407
34	05/17/20	5,115	7,233	9,557	93	58	6,484	355,330	400
35	05/18/20	5,316	7,620	9,783	95	41	6,154	355,090	401
36	05/18/20	5,092	7,610	9,440	88	38	6,782	354,560	401
37	05/18/20	5,066	7,596	9,630	88	36	6,740	354,430	398
38	05/18/20	5,139	4,621	9,013	84	38	6,452	361,790	380
39	05/19/20	5,524	7,425	9,290	90	87	6,447	372,080	376
40	05/19/20	5,762	6,740	9,119	89	50	6,814	354,380	386
41	05/19/20	5,234	6,616	8,982	89	23	6,649	354,640	383
42	05/19/20	5,340	7,164	9,386	96	57	6,577	351,810	369
43	05/20/20	5,212	7,507	9,545	94	44	6,752	354,370	362

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McMlellan 9H Stimulation Report

44	05/20/20	5,756	6,885	9,613	91	51	6,492	355,670	364
45	05/20/20	5,831	7,363	9,291	91	42	6,203	354,250	366
46	05/20/20	5,271	7,691	9,341	93	66	6,394	354,890	351
47	05/20/20	5,374	7,544	9,503	93	37	6,786	354,330	344
48	05/21/20	5,068	7,517	9,391	92	56	6,518	357,640	347
49	05/21/20	5,746	7,602	9,076	90	33	5,969	354,880	352
50	05/21/20	5,213	7,097	8,894	88	26	6,202	355,560	346
51	05/21/20	5,551	7,724	9,030	89	36	6,052	360,230	330
52	05/21/20	5,912	7,798	9,933	71	25	8,531	356,970	324
53	05/22/20	6,117	7,733	9,479	92	56	7,559	352,780	341
54	05/22/20	5,857	7,620	9,069	92	42	6,557	354,280	327
55	05/22/20	5,555	7,980	9,122	90	19	6,234	358,190	316
56	05/22/20	5,063	7,672	9,752	88	51	6,132	356,760	310
57	05/23/20	5,181	8,020	9,620	88	87	6,281	356,890	303
58	05/23/20	6,179	7,339	8,665	89	29	7,015	352,520	314
59	05/23/20	6,379	7,466	8,860	91	27	6,277	354,880	305
60	05/23/20	6,356	6,946	8,464	88	27	6,582	362,790	291
61	05/23/20	5,956	7,088	8,723	92	31	6,156	358,820	295
62	05/24/20	5,024	8,523	8,857	93	14	6,216	358,940	287
63	05/24/20	5,949	5,454	8,568	91	47	6,588	359,650	289
64	05/24/02	5,410	6,930	8,488	90	103	6,657	359,720	289
65	05/24/20	6,246	6,872	8,526	90	32	6,179	356,670	275
66	05/24/20	5,795	7,975	8,854	91	22	6,256	353,640	271
67	05/25/20	6,155	6,428	8,474	90	27	6,225	354,350	268
68	05/25/20	6,470	7,092	8,498	89	27	6,270	356,620	274
69	05/25/20	5,864	7,113	8,684	91	27	6,413	352,210	270
70	05/25/20	5,606	7,030	8,498	92	26	6,200	355,340	255
71	05/26/20	5,706	6,595	8,440	92	48	6,088	356,550	253
72	05/26/20	5,963	6,977	8,178	88	21	6,354	355,840	254
73	05/26/20	5,611	7,496	8,407	90	30	5,866	353,580	245
74	05/26/20	5,384	7,493	8,600	90	40	5,944	354,490	240
75	05/27/20	5,087	8,063	9,232	87	40	5,938	357,710	235
76	05/27/20	5,238	7,731	8,575	91	42	6,182	351,350	246
77	05/27/20	5,478	7,747	8,350	90	15	6,370	352,870	238
78	05/27/20	6,244	7,679	8,428	95	18	6,321	353,970	225
79	05/27/20	6,175	7,113	8,074	90	25	6,221	350,670	220
80	05/27/20	5,572	6,580	7,862	90	35	5,778	356,040	225
82	05/28/20	5,912	6,955	8,022	90	42	6,017	358,360	205
83	05/28/20	6,247	6,692	7,892	92	32	6,109	354,500	215
84	05/28/20	5,705	6,462	7,645	92	37	6,192	361,020	206

10/08/2021



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:	06/10/19	06/10/19	06/10/19	06/10/19
Time:	3:00am	12:05am	2:08 AM	4:00 AM

Customer and Well Information					
Customer: NORTHEAST		Well Name: McClellan		Well #: 9H	Well Type: GAS
County:	State: WV	AFE #/API #:		PO #/Permit #:	Well Class:
Field:		Lease: McClellan		Rig Name/#: HIGHLAND RIG 8	
Wellbore Information					
Bit Size (Inches): 17.5	Well MD (ft):	Well TVD (ft): 1277	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): 55	
Casing/Liner/Tubing					
Size (Inches): 13.625	Weight (lb/ft): 54.5	Thread:	Grade: J55 LTC	Total Footage (ft): 1210	
Job					
Job Type: Intermediate		Connection to Well: YES		Top Plug: YES	
Lift Pressure (PSI): 480	Max Annulus Pressure (PSI):		Mix Water Temp (F°):	Bottom Plug: No	
Casing/Tubing Secured : YES	Pipe Rotated: No	Cement Return to Surface (bbl): 50		Top Job (bbl):	
Pipe Reciprocated : No	Circulation Lost: No	Job Completed: YES			



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: 06/12/19			06/12/19	
Time: 11:00am	5:00pm	7:39pm	9:00pm	

Customer and Well Information					
Customer: NORTHEAST		Well Name: McClellan	Well #: 9H	Well Type: GAS	
County:	State: WV	AFE #/API #:	PO #/Permit #:	Well Class:	
Field:	Lease: McClellan	Rig Name/# : HIGHLAND RIG 8			
Wellbore Information					
Bit Size (Inches): 12.25	Well MD (ft):	Well TVD (ft): 2968	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): 1210	
Casing/Liner/Tubing					
Size (Inches): 9.625	Weight (lb/ft): 40	Thread:	Grade:	Total Footage (ft): 2918	
Job					
Job Type: Intermediate		Connection to Well: YES		Top Plug: YES	
Lift Pressure (PSI): 1670	Max Annulus Pressure (PSI):	Mix Water Temp (F°):		Bottom Plug: No	
Casing/Tubing Secured : YES	Pipe Rotated: No	Cement Return to Surface (bbl): 43	Top Job (bbl):		
Pipe Reciprocated : No	Circulation Lost: No	Job Completed: YES			

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	5/8/2020
Job End Date:	5/28/2020
State:	West Virginia
County:	Monongalia
API Number:	47-061-01820-00-00
Operator Name:	Northeast Natural Energy LLC
Well Name and Number:	McClellan 9H
Latitude:	39.62177300
Longitude:	-80.27867500
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	8,858
Total Base Water Volume (gal):	23,751,290
Total Base Non Water Volume:	86,517



Hydraulic Fracturing Fluid Composition:

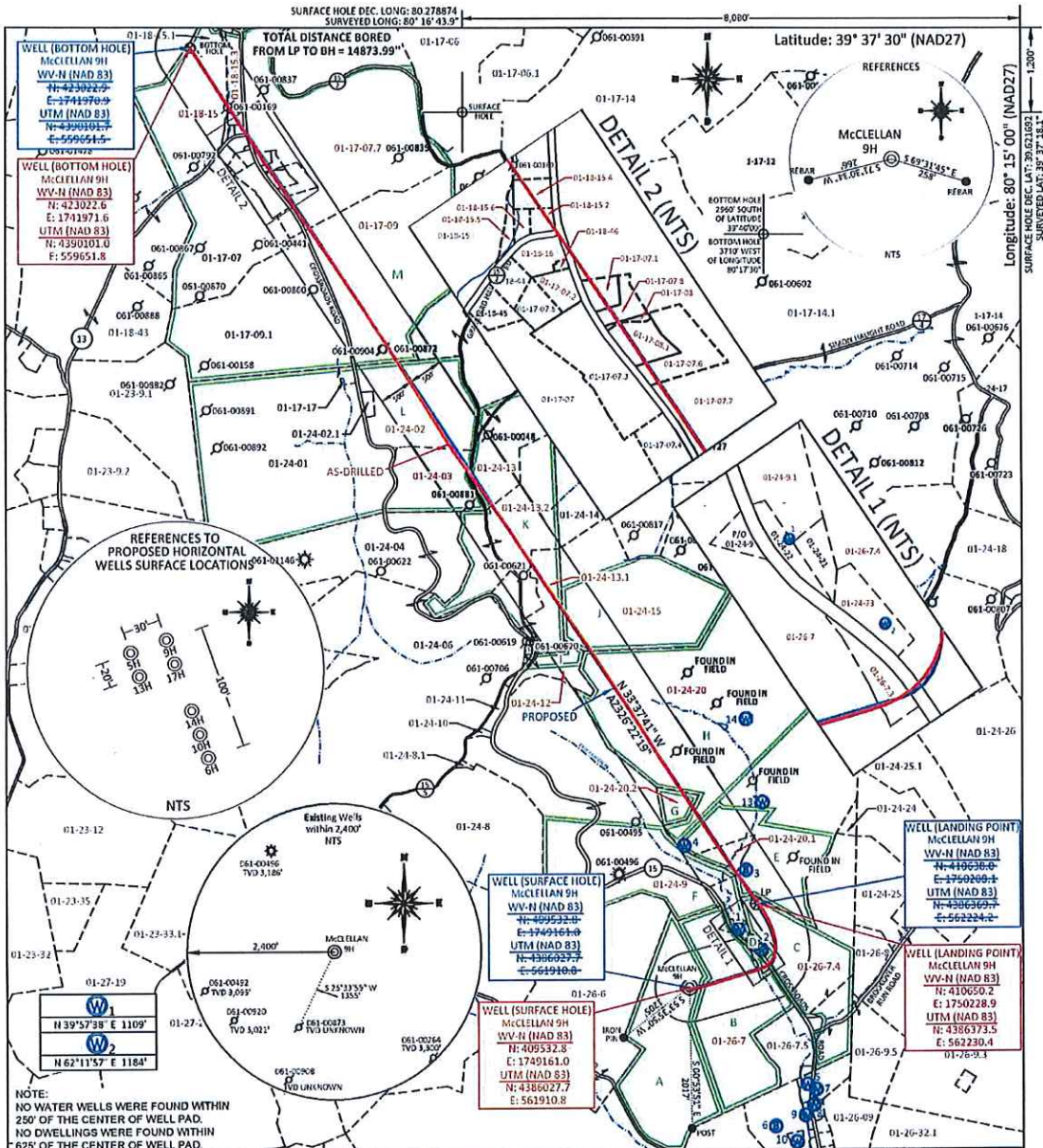
Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	NINE	Carrier/Base Fluid	Water	7732-18-5	100.00000	86.57300	None
Sand (Proppant)	Producers Service Corp	Proppant					
StimSTREAM FR 9800	Producers Service Corp	Friction Reducer	Silica Substrate	14808-60-7	100.00000	13.09755	None
			copolymer of 2-propenamide	Proprietary	30.00000	0.01604	None
			Petroleum Distillate	64742-47-8	20.00000	0.01070	None
			Oleic Acid Diethanolamide	93-83-4	2.00000	0.00107	None
			Alcohols, C12-16, ethoxylated	68551-12-2	2.00000	0.00107	None
			Ammonium chloride (NH4)Cl	12125-02-9	1.00000	0.00053	None
StimStream SC-404	Producers Service Corp	Scale Inhibitor					
			Non-Hazardous substances	Proprietary	85.00000	0.01808	None
			Bis(HexaMethylene Triamine Penta)(BHMT)	34690-00-1	5.00000	0.00106	None
			Citric acid	77-92-9	5.00000	0.00106	None
			2-Phosphono-1,2,4-butanetricarboxylic acid (PBTC)	37971-36-1	5.00000	0.00106	None

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Clearal 268	Producers Service Corp	Biocide	Non-Hazardous substances	Proprietary					
			Glutaraldehyde	111-80-8		80.00000		0.01439	None
			Didecyl dimethyl ammonium chloride	7173-51-5		20.00000		0.00360	None
			Quaternary Ammonium Compounds	68424-85-1		3.00000		0.00054	None
			Ethanol	64-17-5		3.00000		0.00054	None
7.5% HCL	Producers Service Corp	Acidizing	Hydrochloric Acid	7647-01-0		1.50000		0.00027	None
4-N-1	Producers Service Corp	Inhibitor	Acetic acid	64-19-7		7.50000		0.01768	None
			Methanol	67-56-1		90.00000		0.00084	None
			2-Ethylhexanol	104-76-7		10.00000		0.00009	None
			Cocamide Diethanolamine	88603-42-9		10.00000		0.00009	None
			Diethanolamine	111-42-2		5.00000		0.00005	None
						1.00000		0.00001	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		85.00000		0.01808	
			Non-Hazardous substances	Proprietary		80.00000		0.01439	
			Petroleum Distillate	64742-47-8		20.00000		0.01070	
			Alcohols, C12-16, ethoxylated	68551-12-2		2.00000		0.00107	
			Oleic Acid Diethanolamide	93-83-4		2.00000		0.00107	
			2-Phosphono-1,2,4-butanetricarboxylic acid (PBTC)	37971-36-1		5.00000		0.00106	
			Citric acid	77-92-9		5.00000		0.00106	
			Didecyl dimethyl ammonium chloride	7173-51-5		3.00000		0.00054	
			Quaternary Ammonium Compounds	68424-85-1		3.00000		0.00054	
			Ammonium chloride ((NH4)Cl)	12125-02-9		1.00000		0.00053	
			Ethanol	64-17-5		1.50000		0.00027	
			Methanol	67-56-1		10.00000		0.00009	
			2-Ethylhexanol	104-76-7		10.00000		0.00009	
			Cocamide Diethanolamine	88603-42-9		5.00000		0.00005	
			Diethanolamine	111-42-2		1.00000		0.00001	

* 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)



FILE #: NNE14
 DRAWING #: 2850
 SCALE: 1" = 2000'
 PLAT: 1" = 2000'
 TCK: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1/200
 PROVEN SOURCE OF ELEVATION: SUBMETER MAPPING GRADE GPS

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.
 Signed: [Signature]
 L.L.S. #2124 : Ernest J. Benchek III



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 WYDEP
 OFFICE OF OIL & GAS
 601 57TH STREET
 CHARLESTON, WV 25304

DATE: JULY 10, 2020
 OPERATOR'S WELL #: McCLELLAN 9H AS-DRILLED
 API WELL #: 47 61 01820
 STATE COUNTY PERMIT
 AS-BUILT ELEVATION: 1,411.7'

Well Type: Oil Waste Diposal Production Deep
 Gas Liquid Injection Storage Shallow

WATERSHED: UPPER MONONGAHELA
 COUNTY/DISTRICT: MONONGALIA / BATTLE QUADRANGLE: MANNINGTON
 SURFACE OWNER: ALYCEMARIE MCCLELLAN & MICHELLE D. MOORE ACREAGE: 1098.86 +/-
 OIL & GAS ROYALTY OWNER: Barbara June Sutton, et al ACREAGE: 129.4 +/-
 LEASE NUMBERS: _____

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
 CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY): _____

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 8,072' TMD: 23,870'
 WELL OPERATOR: NORTHEAST NATURAL ENERGY LLC DESIGNATED AGENT: JOHN ADAMS
 ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200
 CITY: CHARLESTON STATE: WV ZIP CODE: 25301

10/08/2021