

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

API 47 - 061 - 01931 County Monongalia District Clay
Quad Osage Pad Name Dolls Run Field/Pool Name _____
Farm name Bryan & Sierra VanNorman Well Number 7H
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 4388817.7 Easting 577808.2
Landing Point of Curve Northing 4388819.3 Easting 577174.7
Bottom Hole Northing 4393356.5 Easting 574184.8

Elevation (ft) 1,522' 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 - 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 6/7/23 Date drilling commenced 7/2/23 Date drilling ceased 7/18/23
Date completion activities began 7/6/24 Date completion activities ceased 8/23/24
Verbal plugging (Y/N) N Date permission granted _____ Granted by _____

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

Freshwater depth(s) ft 873' Open mine(s) (Y/N) depths _____
Salt water depth(s) ft 2,326' Void(s) encountered (Y/N) depths _____
Coal depth(s) ft 318', 545', 793', 875' Cavern(s) encountered (Y/N) depths _____
Is coal being mined in area (Y/N) N

APPROVED

Reviewed by:

6/25/2025
09/19/2025

API 47- 061 - 01931 Farm name Bryan & Sierra VanNorman Well number 7H

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"	26"	128'	N	68.75	NA	
Surface	24"	13-3/8"	984'	N	J-55/54.5	NA	N
Coal							
Intermediate 1	12-1/4"	9-5/8"	2,383'	N	J-55/36	NA	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"	5-1/2"	26,612'	N	P-110/20	NA	Y
Tubing							
Packer type and depth set							

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Comment Details Casing depths based on KB elevation

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Top (MD)

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	WOC (hrs)
Conductor	Class A Common					48
Surface	L/100% NCM-956	2,795	15.6	1.14	3175.28	8
Coal						
Intermediate 1	L/100% NCM-956	780	15.6	1.13	879.73	8
Intermediate 2						
Intermediate 3						
Production	50:50 NCM-956/NPZ-010	5,205	14.5	1.13	5857.82	48
Tubing						

Drillers TD (ft) 26,671' Loggers TD (ft) 26,646'

Deepest formation penetrated Marcellus Plug back to (ft) _____

Plug back procedure _____

Kick off depth (ft) 7,832'

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: Shoe track & every 3rd joint to surface

Intermediate: Shoe track & every 3rd joint to surface

Production: Rigid bow centralizers at shoe track & every joint in the lateral to KOP. Bow springs from KOP to surface every third joint.

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 _____

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PERFORATION RECORD

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STIMULATION INFORMATION PER STAGE

[illegible]

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PRODUCING FORMATION(S)	DEPTHS	
Marcellus	8,302'	26,671'

GAS TEST				☐ Build up	☐ Drawdown	☒ Open Flow	OIL TEST				☐ Flow	☐ Pump		
SHUT-IN PRESSURE		Surface	2582		psi	Bottom Hole		5390		psi	DURATION OF TEST		24	hrs
OPEN FLOW		Gas	Oil		NGL	Water		GAS MEASURED BY						
		1833	mcfpd	bpd	bpd	bpd		☐ Estimated ☒ Orifice ☐ Pilot						

[illegible]

Drilling Contractor	Patterson- UTI					
Address	67090 Executive Drive	City	St. Clairsville	State	OH	Zip 43950
Logging Company	Baker Hughes					
Address	1681 E. Main Street	City	Bridgeport	State	WV	Zip 26330
Cementing Company	NextTier					
Address	3990 Rogerdale Rd	City	Houston	State	TX	Zip 77042
Stimulating Company	ProFrac					
Address	800 Mountain View Drive	City	Smithfield	State	PA	Zip 15478

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

09/19/2025

50832

Dolls Run 7H 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	7/6/2024	5,855	10,295	9,908	88	203	8,766	300,000	602
2	7/7/2024	6,501	6,919	9,558	94	99	11,589	550,000	608
3	7/8/2024	6,253	6,934	9,566	92	4	11,159	550,200	569
4	7/8/2024	6,283	6,382	9,584	93	5	11,954	550,640	572
5	7/9/2024	5,542	7,673	9,856	93	52	11,733	550,200	592
6	7/10/2024	6,222	6,597	9,490	93	6	11,286	551,000	557
7	7/10/2024	5,843	6,903	9,687	94	52	11,358	550,200	577
8	7/11/2024	6,672	7,097	9,626	94	16	11,606	550,200	569
9	7/11/2024	6,148	9,428	9,740	92	6	11,312	551,200	548
10	7/12/2024	6,582	6,816	9,770	94	438	12,082	550,200	567
11	7/13/2024	5,604	6,829	9,636	94	457	11,826	550,000	550
12	7/13/2024	5,884	7,089	9,756	94	50	13,294	550,000	548
13	7/14/2024	6,339	7,050	9,776	93	499	12,286	550,200	550
14	7/15/2024	6,719	7,319	9,871	93	51	11,473	550,000	570
15	7/15/2024	6,560	7,553	9,819	92	21	11,544	550,700	518
16	7/16/2024	6,954	7,435	9,778	94	10	10,900	550,320	538
17	7/17/2024	5,343	7,118	9,746	91	33	11,740	550,400	541
18	7/17/2024	5,633	6,370	9,740	93	7	11,640	550,900	522
19	7/18/2024	6,419	7,166	9,482	94	12	11,551	550,720	514
20	7/18/2024	5,615	7,026	9,652	94	14	11,361	551,400	555
21	7/19/2024	6,154	7,037	9,529	94	4	11,431	551,000	501
22	7/20/2024	6,087	7,196	9,574	94	13	11,392	550,900	590
23	7/20/2024	6,363	7,486	9,338	94	3	11,123	550,500	501
24	7/21/2024	6,492	6,769	9,451	94	7	11,220	550,000	510
25	7/21/2024	5,336	7,226	9,734	93	4	11,461	550,000	498
26	7/22/2024	6,166	6,598	9,289	94	9	11,361	550,500	503
27	7/22/2024	5,792	7,004	9,515	94	6	11,411	550,000	470
28	7/23/2024	6,059	6,722	9,568	94	5	11,195	550,420	472
29	7/24/2024	5,857	6,065	9,557	94	17	11,202	550,000	472
30	7/24/2024	6,191	7,003	9,417	94	9	11,411	550,500	490
31	7/25/2024	5,905	6,942	9,457	94	10	11,138	550,000	460
32	7/25/2024	5,832	7,144	9,317	95	5	11,177	550,000	402
33	7/26/2024	5,936	7,264	9,304	94	6	11,271	550,200	455
34	7/26/2024	6,096	6,865	9,351	94	5	11,278	550,000	470
35	7/27/2024	6,389	7,137	9,522	94	4	11,073	550,300	438
36	7/28/2024	5,933	6,623	9,354	94	17	11,494	550,000	466
37	7/28/2024	6,150	6,920	9,517	94	9	11,175	551,110	434
38	7/29/2024	5,618	7,293	9,579	93	8	11,421	550,000	428
39	7/29/2024	6,218	6,676	9,175	94	9	11,359	550,000	445
40	7/30/2024	6,113	7,143	9,452	94	27	11,375	550,800	423
41	7/30/2024	5,829	7,006	9,409	94	12	11,121	550,000	422
42	7/31/2024	5,926	6,795	9,527	94	5	11,114	550,500	414
43	8/1/2024	6,057	6,670	9,174	94	6	11,107	550,000	419
44	8/1/2024	6,079	7,116	9,200	94	23	11,310	550,000	419
45	8/2/2024	6,087	6,828	9,057	94	7	11,111	550,000	401

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Dolls Run 7H

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)
46	8/2/2024	5,872	6,949	9,038	94	18	11,066	550,000	419
47	8/3/2024	6,269	7,043	9,251	94	4	11,039	551,100	387
48	8/4/2024	6,393	7,143	9,296	94	6	11,296	552,400	399
49	8/4/2024	7,874	6,850	9,159	92	4	10,973	514,400	409
50	8/5/2024	6,162	6,570	8,855	94	6	11,236	550,500	379
51	8/5/2024	5,970	6,749	8,972	94	16	11,286	553,020	380
52	8/6/2024	5,479	6,497	8,847	94	33	11,214	550,400	389
53	8/7/2024	6,017	7,034	8,736	95	11	11,303	549,600	383
54	8/7/2024	6,225	6,816	8,978	94	12	11,285	549,940	365
55	8/8/2024	5,849	7,791	9,046	93	8	11,319	525,200	504
56	8/8/2024	5,835	6,644	8,430	94	8	12,610	599,320	333
57	8/9/2024	6,485	7,020	8,998	94	18	11,930	550,000	349
58	8/10/2024	5,447	7,134	8,944	94	14	11,251	552,300	343
59	8/10/2024	5,646	7,374	9,095	94	8	11,365	549,380	359
60	8/11/2024	5,863	6,997	8,864	94	8	11,397	554,500	340
61	8/12/2024	6,694	7,220	8,958	94	5	11,470	551,200	346
62	8/12/2024	5,917	6,965	9,056	94	11	11,320	549,000	336
63	8/13/2024	5,991	7,397	8,901	94	8	11,247	550,000	347
64	8/13/2024	6,816	7,364	8,949	94	7	11,270	550,000	344
65	8/14/2024	5,902	7,001	8,709	94	7	11,395	550,000	327
66	8/15/2024	5,763	6,970	8,681	93	26	11,452	550,000	518
67	8/15/2024	6,437	6,150	8,700	94	4	11,137	550,000	304
68	8/16/2024	5,895	7,136	8,488	94	12	11,407	550,000	427
69	8/17/2024	5,890	6,752	8,350	93	5	11,200	551,120	287
70	8/17/2024	6,122	6,577	8,315	94	6	11,051	550,000	299
71	8/18/2024	5,577	7,053	8,519	93	6	11,119	551,100	278
72	8/18/2024	5,859	6,736	8,389	94	11	11,109	550,000	200
73	8/18/2024	5,408	7,303	8,474	93	6	10,961	551,420	269
74	8/19/2024	5,712	6,827	8,288	93	11	11,210	550,000	273
75	8/19/2024	5,924	6,673	8,231	94	7	11,089	550,000	265
76	8/20/2024	6,172	7,591	8,267	94	9	11,067	550,440	265
77	8/20/2024	6,289	6,835	8,024	94	16	11,285	550,000	273
78	8/20/2024	6,512	6,983	7,985	93	14	11,347	552,000	251
79	8/20/2024	5,886	7,147	8,282	94	5	11,176	550,800	239
80	8/21/2024	6,331	7,245	8,129	94	8	11,272	550,000	252
81	8/21/2024	6,060	6,935	8,110	94	11	11,179	550,000	249
82	8/21/2024	6,124	6,914	8,072	94	9	11,088	550,300	234
83	8/21/2024	6,083	6,749	7,971	94	12	11,134	551,340	227
84	8/22/2024	5,951	6,776	7,987	94	11	11,045	556,200	221
85	8/22/2024	6,240	7,077	8,010	94	7	11,226	550,000	221
86	8/22/2024	6,721	7,579	8,088	94	8	11,081	550,000	225
87	8/22/2024	5,840	7,668	8,037	94	7	12,121	550,000	268
88	8/22/2024	6,342	7,621	7,942	94	15	11,240	550,000	213
89	8/22/2024	6,365	6,993	8,212	92	11	11,144	550,020	197
90	8/22/2024	5,798	7,281	7,972	93	8	11,198	556,000	197

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Dolls Run 7H
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)
91	8/23/2024	5,849	7,782	8,034	93	8	11,314	580,200	217

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Dolls Run 7H Perforation Report				
Stage Number	Report Date	Total Shots	Cluster 1 Top TD	Cluster 5 Bottom TD
1	7/6/2024	40		26,505
2	7/7/2024	40	26,461	26,304
3	7/8/2024	40	26,262	26,104
4	7/8/2024	40	26,062	25,905
5	7/9/2024	40	25,863	25,705
6	7/10/2024	40	25,663	25,506
7	7/10/2024	40	25,464	25,306
8	7/11/2024	40	25,264	25,107
9	7/11/2024	40	25,065	24,907
10	7/12/2024	40	24,865	24,708
11	7/13/2024	40	24,666	24,508
12	7/13/2024	40	24,466	24,309
13	7/14/2024	40	24,267	24,109
14	7/15/2024	40	24,067	23,910
15	7/15/2024	40	23,868	23,710
16	7/16/2024	40	23,668	23,511
17	7/17/2024	40	23,469	23,311
18	7/17/2024	40	23,269	23,112
19	7/18/2024	40	23,070	22,912
20	7/18/2024	40	22,870	22,713
21	7/19/2024	40	22,671	22,513
22	7/20/2024	40	22,471	22,314
23	7/20/2024	40	22,272	22,114
24	7/21/2024	40	22,072	21,915
25	7/21/2024	40	21,873	21,715
26	7/22/2024	40	21,673	21,516
27	7/22/2024	40	21,474	21,316
28	7/23/2024	40	21,274	21,117
29	7/24/2024	40	21,075	20,917
30	7/24/2024	40	20,875	20,718
31	7/25/2024	40	20,676	20,518
32	7/25/2024	40	20,476	20,319
33	7/26/2024	40	20,277	20,119
34	7/26/2024	40	20,077	19,920
35	7/27/2024	40	19,878	19,720
36	7/28/2024	40	19,678	19,521
37	7/28/2024	40	19,479	19,321
38	7/29/2024	40	19,279	19,122
39	7/29/2024	40	19,080	18,922
40	7/30/2024	40	18,880	18,723
41	7/30/2024	40	18,681	18,523
42	7/31/2024	40	18,481	18,324
43	8/1/2024	40	18,282	18,124
44	8/1/2024	40	18,082	17,925
45	8/2/2024	40	17,883	17,725
46	8/2/2024	40	17,683	17,526
47	8/3/2024	40	17,484	17,326

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Dolls Run 7H Perforation Report				
Stage Number	Report Date	Total Shots	Cluster 1 Top TD	Cluster 5 Bottom TD
48	8/4/2024	40	17,284	17,127
49	8/4/2024	40	17,085	16,927
50	8/5/2024	40	16,885	16,728
51	8/5/2024	40	16,686	16,528
52	8/6/2024	40	16,486	16,329
53	8/7/2024	40	16,287	16,129
54	8/7/2024	40	16,087	15,930
55	8/8/2024	40	15,888	15,730
56	8/8/2024	40	15,688	15,531
57	8/9/2024	40	15,489	15,331
58	8/10/2024	40	15,289	15,132
59	8/10/2024	40	15,090	14,932
60	8/11/2024	40	14,890	14,733
61	8/12/2024	40	14,691	14,533
62	8/12/2024	40	14,491	14,334
63	8/13/2024	40	14,292	14,134
64	8/13/2024	40	14,092	13,935
65	8/14/2024	40	13,893	13,735
66	8/15/2024	40	13,693	13,536
67	8/15/2024	40	13,494	13,336
68	8/16/2024	40	13,294	13,137
69	8/17/2024	40	13,095	12,937
70	8/17/2024	40	12,895	12,738
71	8/18/2024	40	12,696	12,538
72	8/18/2024	40	12,496	12,339
73	8/18/2024	40	12,297	12,139
74	8/19/2024	40	12,097	11,940
75	8/19/2024	40	11,898	11,740
76	8/20/2024	40	11,698	11,541
77	8/20/2024	40	11,499	11,341
78	8/20/2024	40	11,299	11,142
79	8/20/2024	40	11,100	10,942
80	8/21/2024	40	10,900	10,743
81	8/21/2024	40	10,701	10,543
82	8/21/2024	40	10,501	10,344
83	8/21/2024	40	10,302	10,144
84	8/22/2024	40	10,102	9,945
85	8/22/2024	40	9,903	9,745
86	8/22/2024	40	9,703	9,546
87	8/22/2024	40	9,504	9,346
88	8/22/2024	40	9,304	9,147
89	8/22/2024	40	9,105	8,947
90	8/22/2024	40	8,905	8,748
91	8/23/2024	40	8,706	8,548

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Dolls Run 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	220	Sand/silt
Sand/red shale	220	275	sand with reddish shale
sandstone/shale	275	620	sandstone/shale
Washington coal	315	318	coal
siltstone/sandstone	318	607	carbonaceous silt/sandstone
Waynesburg coal	542	545	Waynesburg coal
sandstone/limestone	545	580	sandstone/limestone
Limestone/siltstone	580	790	Limestone/siltstone
Sewickley coal	790	793	Sewickley coal
Limestone	793	870	Limestone
Pittsburgh coal	870	875	Pittsburgh coal
Limestone/siltstone	875	995	Limestone/siltstone
sandstone/siltstone	995	1840	sandstone/siltstone
Red Rock/siltstone/limestone	1840	2074	Red Rock/siltstone/limestone
Little Lime	2074	2105	Little Lime
Big Lime	2105	2251	Big Lime
Big Injun	2251	2326	Big Injun
Sand/silt	2326	2696	Sand/silt
Gantz	2696	2702	Gantz
Sand/shale	2702	2776	Sand/shale
Gordon	2776	3024	Gordon
Fourth Sand	3024	3030	red sandstone and siltstone
siltstone/sandstone	3030	7179	siltstone/sandstone
Gray shale/siltstone	7179	7357	Gray shale/siltstone
Middlesex	7357	7725	Middlesex
Burkett	7725	7964	Burkett
Genesee	7964	8016	Genesee
Tully	8016	8078	Tully
Hamilton	8078	8217	Hamilton
Marcellus	8217	TD	Marcellus

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Nex Tier Completion Solutions
3990 Rogerdale Rd., Houston, TX 77042
(713)325-6000

[illegible]

Cement Job Log

[illegible]

Michael Franca

18-Jul-23

Service Supervisor

Date _____

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	07/06/2024
Job End Date:	08/23/2024
State:	West Virginia
County:	Monongalia
API Number:	47-061-01931-00-00
Operator Name:	Northeast Natural Energy LLC
Well Name and Number:	Dolls Run 7H
Latitude:	39.645615
Longitude:	-80.09315
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	8288
Total Base Water Volume (gal)*:	45219678
Total Base Non Water Volume:	0



Water Source	Percent
Other, > 1000TDS	85.00%

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	Operator	Carrier/Base Fluid					
			Water	7732-18-5	100.00000	88.19395	None
Sand (100 Mesh Proppant)	ProFrac	Proppant					
			Crystalline Silica (quartz)	14808-60-7	100.00000	8.16710	None
Sand (40/70 White Proppant)	ProFrac	Proppant					
			Crystalline Silica (quartz)	14808-60-7	100.00000	3.46952	None
Other Chemical(s)	Listed Above	See Trade Name(s) List					
			Water	7732-18-5	92.50000	0.09869	None
			ALKANES, C12-26-BRANCHED AND LINEAR	90622-53-0	40.00000	0.02486	None
			Water	7732-18-5	80.00000	0.01365	None
			WATER	7732-18-5	15.00000	0.00932	None

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			ETHOXYLATED ALCOHOLS (C12-16)	68551-12-2	5.00000	0.00311	None
			AA/Maleic Anhydride Co-polymer	9003-04-7	5.00000	0.00227	None
			Quaternary Ammonium Compounds	68424-85-1	3.00000	0.00051	None
			Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00051	None
			Polyacrylamide	9003-05-8	40.00000	0.00043	None
			WATER	7732-18-5	30.00000	0.00032	None
			Ethanol	64-17-5	1.50000	0.00026	None
			Pyridinium, 1-(phenylmethyl)-, ethyl methyl derivs., chlorides	68909-18-2	25.00000	0.00010	None
			Ethanoic Acid	64-19-7	15.00000	0.00006	None
			Ethoxylated Alcohols	68131-39-5	15.00000	0.00006	None
			Alcohols, C11-14-iso, C13-rich, ethoxylated	78330-21-9	5.00000	0.00005	None
			Proprietary	Proprietary	10.00000	0.00004	None
			Proprietary	Proprietary	10.00000	0.00004	None
			2-ethylhexanol	104-76-7	5.00000	0.00002	None
			Ethoxylated Nonylphenos	127087-87-0	5.00000	0.00002	None
Hydrochloric Acid (7.5%)	Tarquin	Acidizing					
			Water	7732-18-5	92.50000	0.09869	None
			Hydrochloric Acid	7647-01-0	7.50000	0.00800	None
StimSTREAM FR 9800	Chemstream	Friction Reducer					
			ACRYLAMIDE-CHLORIDE SALT OF TRIMETHYLAMMONIO-ETHYL ACRYLATE COPOLYMER	69418-26-4	40.00000	0.02486	None
			ALKANES, C12-26-BRANCHED AND LINEAR	90622-53-0	40.00000	0.02486	None
			WATER	7732-18-5	15.00000	0.00932	None
			ETHOXYLATED ALCOHOLS (C12-16)	68551-12-2	5.00000	0.00311	None
Clearal 268A	Chemstream	Biocide					
			Water	7732-18-5	80.00000	0.01365	None
			Glutaraldehyde	111-30-8	20.00000	0.00341	None
			Quaternary Ammonium Compounds	68424-85-1	3.00000	0.00051	None

			Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00051	None
			Ethanol	64-17-5	1.50000	0.00026	None
StimSTREAM SC 405	Chemstream	Scale Inhibitor					
			AA/Maleic Anhydride Co-polymer	9003-04-7	5.00000	0.00227	None
			AA/ATBS Co-polymer	9003-05-8	5.00000	0.00227	None
StimSTREAM FR 2800	Chemstream	Friction Reducer					
			Polyacrylamide	9003-05-8	40.00000	0.00043	None
			WATER	7732-18-5	30.00000	0.00032	None
			Distillates (petroleum), hydrotreated light	64742-47-8	25.00000	0.00027	None
			Alcohols, C11-14-iso, C13-rich, ethoxylated	78330-21-9	5.00000	0.00005	None
Acid Pack Pro	Tarquin	Acid Inhibitor					
			Methanol	67-56-1	25.00000	0.00010	None
			Pyridinium, 1-(phenylmethyl)-, ethyl methyl derivs., chlorides	68909-18-2	25.00000	0.00010	None
			Ethanoic Acid	64-19-7	15.00000	0.00006	None
			Ethoxylated Alcohols	68131-39-5	15.00000	0.00006	None
			Proprietary	Proprietary	10.00000	0.00004	None
			Proprietary	Proprietary	10.00000	0.00004	None
			2-ethylhexanol	104-76-7	5.00000	0.00002	None
			Ethoxylated Nonylphenos	127087-87-0	5.00000	0.00002	None

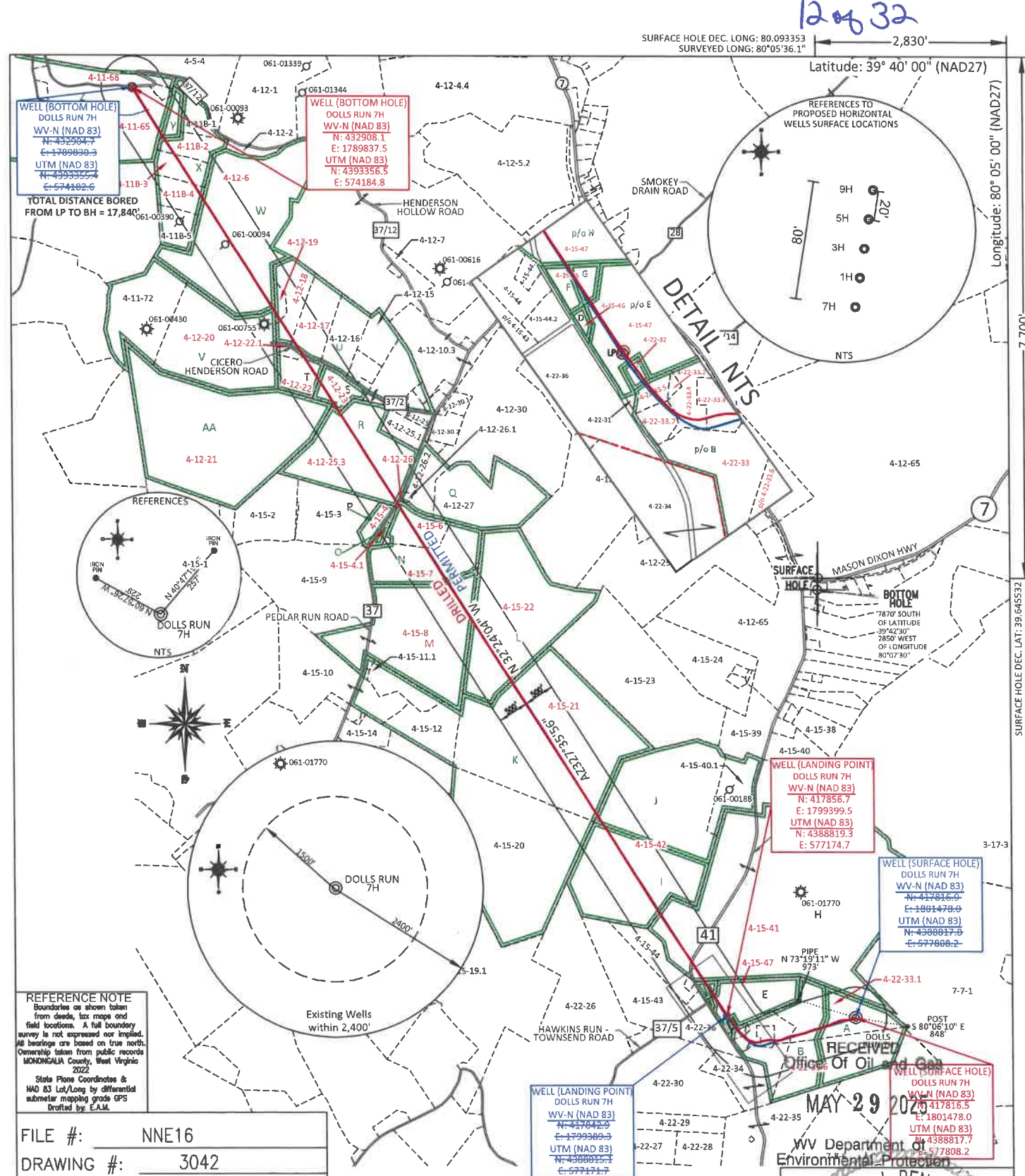
Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS

* 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.

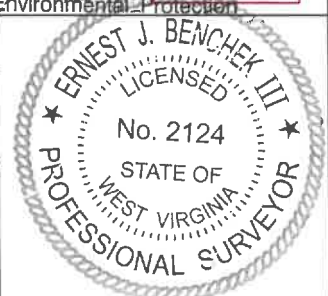
Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)



REFERENCE NOTE
Boundaries as shown taken from deeds, tax maps and field locations. A full boundary survey is not expressed nor implied. All bearings are based on true north. Ownership taken from public records MONONGALIA County, West Virginia 2022
State Plane Coordinates & NAD 83 Lat/Long by differential submeter mapping grade GPS
Drafted by: E.A.M.

FILE #: NNE16
DRAWING #: 3042
SCALE: PLAT: 1" = 2200'
TICK: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: 1/200
PROVEN SOURCE OF ELEVATION: SUBMETER MAPPING GRADE GPS

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:
L.L.S. #2124 : Ernest J. Benchek III



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25304
Well Type: ☐ Oil ☐ Waste Diposal ☐ Production ☐ Deep ☒ Gas ☐ Liquid Injection ☐ Storage ☒ Shallow
WATERSHED: DUNKARD CREEK
COUNTY/DISTRICT: MONONGALIA / CLAY
SURFACE OWNER: BRYAN & SIERRA VANNORMAN
OIL & GAS ROYALTY OWNER: MARK V EDDY
LEASE NUMBERS:
TARGET FORMATION: MARCELLUS
WELL OPERATOR: NORTHEAST NATURAL ENERGY LLC
ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200
CITY: CHARLESTON STATE: WV ZIP CODE: 25301
DATE: FEBRUARY 12, 2024
OPERATOR'S WELL #: DOLLS RUN 7H
API WELL #: 47 61 01931
STATE COUNTY PERMIT
AS-BUILT ELEVATION: 1,522.6'
QUADRANGLE: OSAGE
ACREAGE: 27.74
ACREAGE: 1,563.611 +/-
DRILL ☒ CONVERT ☐ DRILL DEEPER ☐ REDRILL ☐ FRACTURE OR STIMULATE ☒
PLUG OFF FORMATION ☐ PERFORATE NEW FORMATION ☐ PLUG & ABANDON ☐
CLEAN OUT & REPLUG ☐ OTHER CHANGE ☐ (SPECIFY):
DRILLED DEPTH: TVD: 8,302' TMD: 26,671'
DESIGNATED AGENT: JOHN ADAMS
ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200
CITY: CHARLESTON STATE: WV ZIP CODE: 25301

	PROPERTY OWNER INDEX
4-12-25.3	JEFFERY & MARTHA J BARON
4-15-6	MARY RUTH JOHNSON
4-15-4.1	DAVID L & BARBARA L STULL
4-15-7	MARK V & BETTY EDDY
4-15-22	MARK V & BETTY A EDDY
4-15-8	MARK V & BETTY A EDDY
4-15-21	STATE OF WEST VIRGINIA BUREAU OF COMMERCE
4-15-42	STATE OF WEST VIRGINIA BUREAU OF COMMERCE
4-15-41	DONNA N & ROBERT ALLEN WRIGHT
4-15-47	MARVIN E MORRIS
4-22-33.1	DENNIS J & MELINDA S THORNE
4-22-33.6	DANIEL D & MARTHA P SPERANDIO
4-15-45	MILFORD RAY MORRIS
4-15-46	MARVIN E MORRIS
4-22-32	MARVIN E MORRIS
4-22-33.7	BRENDA LEA MERRIFIELD & THORTON LEE MERRIFIELD JR
4-22-33	GARY & REBECCA SPERANDIO
4-15-4	ELIZABETH JUNE JONES & KATHRYN JOYCE TENNANT
4-12-26	MARY RUTH JOHNSON
4-22-33.5	DANIEL D & MARTHA P SPERANDIO
4-22-33.4	MELINDA S & DENNIS J THORNE
4-22-33.3	MICHAEL M FRAME
4-12-23	RONALD A LEMLEY
4-12-22	RONALD A LEMLEY
4-12-20	CLARENCE W LEMLEY JR & CHARLOTTE E
4-12-22.1	RONALD A LEMLEY
4-12-17	JOSHUA M SANDONE
4-12-18	JOSHUA M SANDONE
4-12-19	JOSHUA M SANDONE
4-12-6	ALPHEUS MICHAEL HENDERSON
4-12-21	VINCENT KOLANKO, MARK SELLARO & CRA PROPERTIES
4-11B-2	GARRETT SAURBORN
4-11B-4	STACY D RILEY
4-11B-3	RICHARD A FRANCIS
4-11-65	JOSEPH C & LOUIE A STATLER
4-11-68	ADRIANE NICOLE & JOHN SCHAUFFNER; DAVID
	SCHAUFFNER; NICHOLAS SCHAUFFNER

	LEASE INDEX		
A	WV-061-004020-000	O	WV-061-006094-001
B	WV-061-004020-000	P	WV-061-005771-001
C	WV-061-005830-001	Q	WV-061-005963-003
D	WV-061-005983-003	R	WV-061-006203-001
E	WV-061-005830-001	S	WV-061-006234-001
F	WV-061-006124-001	T	WV-061-003544-002
G	WV-061-006124-001	U	WV-061-003475-015
H	WV-061-005246-002	V	WV-061-004058-000
I	WV-061-004238-001	W	WV-061-004058-000
J	WV-061-004237-001	X	WV-061-006234-001
K	WV-061-004240-001	Y	WV-061-005690-001
L	WV-061-004255-001	Z	WV-061-003575-001
M	WV-061-004202-001	AA	WV-061-006234-001
N	WV-061-005617-002		

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WV Department of
Environmental Protection

09/19/2025

FILE #: NEE14	DATE: FEBRUARY 12, 2024
DRAWING #: 3042	OPERATOR'S WELL #: DOLLS RUN 7H
SCALE: N/A	API WELL #: 47 61 01931 STATE COUNTY PERMIT