

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

API 47 - 061 - 01914 County Monongalia District Clay
Quad Osage Pad Name Dolls Run Field/Pool Name 1H
Farm name Bryan & Sierra VanNorman Well Number 1H
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 4388823.9 Easting 577809.0
Landing Point of Curve Northing 4388693.3 Easting 577689.3
Bottom Hole Northing 4392925.4 Easting 574901.1

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 11/9/2022 Date drilling commenced 7/19/23 Date drilling ceased 8/3/23
Date completion activities began 7/6/24 Date completion activities ceased 8/22/24
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:

MDK
4/25/2025 09/19/2025

WR-35
Rev. 8/23/13

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API 47-061 - 01914

Farm name Bryan & Sierra VanNorman

Well number 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	30"	26"	128'	New	68.75	NA	
Surface	24"	13-3/8"	947'	New	J-55/54.5	NA	N
Coal							
Intermediate 1	12-1/4"	9-5/8"	2,388'	New	J-55/36	NA	N
Intermediate 2							
Intermediate 3							
Production	8-3/4"	5-1/2"	25,225'	New	P-110/20	NA	Y
Tubing							
Packer type and depth set							

Comment Details Casing depths based on KB elevation

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 Common						48
Surface	L/100% NCM-956	2795	15.6	1.14	3175.28	CTS	8
Coal							
Intermediate 1	L/ 100% NCM-956	970	15.6	1.13	1094.02	CTS	8
Intermediate 2							
Intermediate 3							
Production	50:50 NCM-956/NPZ-010	4895	14.5	1.13	5507.77	1,700'	48
Tubing							

Drillers TD (ft) 25,281'

Loggers TD (ft) 25,256'

Deepest formation penetrated Marcellus

Plug back to (ft) _____

Plug back procedure _____

Kick off depth (ft) 7,872'

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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Well number ^{1H}[illegible]

STIMULATION INFORMATION PER STAGE

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Please insert additional pages as applicable.

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<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
Marcellus	8287'	25,281'

GAS TEST ☐ Build up ☐ Drawdown ☒ Open Flow OIL TEST ☐ Flow ☐ Pump

SHUT-IN PRESSURE Surface 2612 psi Bottom Hole 6559 psi DURATION OF TEST 24 hrs

OPEN FLOW Gas Oil NGL Water GAS MEASURED BY
 2493 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 **NexTier**
Address 3990 Rogerdale Rd City Houston State TX Zip 77042

Stimulating Company ProFrac
Address 800 Mountain View Dr. City Smithfield State PA Zip 15478
MAY 29 2023
107 Department of Justice

Please insert additional pages as applicable.

Completed by Hollie Medley Telephone 304-212-0422
Signature Hollie Medley Title Regulatory Manager Date 5/8/05

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

09/19/2025

50831

Dolls Run 1H 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	6,212	9,930	9,734	94	600	7,859	301,000	211
2	7/7/2024	6,329	6,471	9,454	94	113	13,086	600,000	573
3	7/7/2024	6,854	6,327	9,781	94	14	12,634	600,300	544
4	7/8/2024	6,887	6,591	9,631	94	7	12,775	600,000	531
5	7/9/2024	4,914	7,157	9,665	94	18	13,003	600,000	575
6	7/9/2024	5,454	7,142	9,513	93	4	12,708	603,000	531
7	7/10/2024	5,638	6,612	9,475	93	11	12,628	600,000	557
8	7/11/2024	6,565	7,069	9,320	94	28	12,867	604,400	532
9	7/11/2024	6,140	6,995	9,556	93	6	12,527	600,000	516
10	7/12/2024	6,345	6,181	9,272	94	10	12,886	600,000	542
11	7/12/2024	5,747	6,912	9,376	94	19	12,569	600,000	520
12	7/13/2024	5,803	7,626	9,615	94	9	12,707	600,000	521
13	7/14/2024	6,173	7,202	9,917	90	59	14,727	600,000	518
14	7/15/2024	5,970	7,002	9,457	94	14	12,840	600,000	506
15	7/15/2024	6,394	6,654	9,635	94	17	12,946	600,000	494
16	7/16/2024	6,368	6,304	9,424	94	2	13,680	600,260	511
17	7/16/2024	6,091	6,525	9,261	93	21	12,728	601,980	520
18	7/17/2024	5,915	6,954	9,556	94	9	12,657	600,500	502
19	7/18/2024	6,044	6,619	9,399	94	20	12,585	600,200	486
20	7/18/2024	5,913	7,027	9,339	94	1	12,581	601,000	482
21	7/19/2024	6,659	6,968	9,376	95	10	12,581	601,400	467
22	7/19/2024	6,247	7,130	9,447	94	22	12,503	600,000	475
23	7/20/2024	6,552	7,282	9,358	94	1	12,569	600,500	446
24	7/21/2024	6,058	7,057	9,498	94	19	12,503	600,000	484
25	7/21/2024	6,668	6,951	9,532	94	1	12,449	600,500	454
26	7/22/2024	6,023	6,743	9,203	94	7	12,492	600,000	459
27	7/22/2024	5,909	6,816	9,192	94	28	12,464	600,000	453
28	7/23/2024	6,323	6,649	9,204	94	4	12,271	600,700	428
29	7/23/2024	6,091	6,788	9,297	94	9	12,467	600,000	467
30	7/24/2024	6,018	7,009	9,317	94	7	12,370	600,500	438
31	7/25/2024	5,474	6,409	9,061	94	15	12,657	600,500	473
32	7/25/2024	6,080	6,744	9,357	95	3	12,447	596,500	425
33	7/26/2024	6,214	6,687	9,311	94	10	12,626	600,000	417
34	7/26/2024	5,960	7,156	9,389	94	11	12,402	600,000	428
35	7/27/2024	5,752	6,663	9,406	94	3	12,064	600,000	407
36	7/27/2024	6,075	6,792	9,288	94	13	12,429	600,000	435
37	7/28/2024	5,876	6,734	9,044	94	29	12,664	601,300	399
38	7/29/2024	5,818	7,011	9,370	90	7	12,431	600,000	426
39	7/29/2024	6,440	7,013	9,296	94	9	12,172	601,700	392
40	7/30/2024	5,997	6,975	9,221	94	11	12,481	601,100	380
41	7/30/2024	5,737	7,222	9,310	94	8	12,586	600,000	396
42	7/31/2024	6,154	7,692	9,359	93	20	12,443	600,000	382
43	8/1/2024	5,527	7,336	9,234	94	8	12,365	600,000	371

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Dolls Run 1H 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)
44	8/1/2024	6,285	7,242	9,221	94	15	12,500	600,000	374
45	8/2/2024	5,826	7,072	9,184	94	7	12,818	605,000	378
46	8/2/2024	6,003	6,852	9,043	94	10	12,245	600,000	369
47	8/3/2024	5,725	7,295	9,066	94	12	12,310	600,600	358
48	8/3/2024	6,256	5,873	8,914	94	8	12,392	602,820	356
49	8/4/2024	5,991	6,541	9,440	92	4	12,180	568,400	503
50	8/5/2024	5,852	6,839	8,683	94	6	12,365	600,900	349
51	8/5/2024	5,883	6,538	8,670	94	8	12,473	602,700	350
52	8/6/2024	5,792	6,591	9,258	94	14	12,231	576,400	361
53	8/7/2024	6,171	6,736	8,501	94	8	12,359	603,140	345
54	8/7/2024	6,066	6,477	9,190	94	16	12,378	601,000	354
55	8/8/2024	5,676	6,570	8,432	94	14	12,420	602,000	352
56	8/8/2024	5,835	6,644	8,430	94	8	12,610	599,320	333
57	8/9/2024	5,645	6,306	8,450	94	10	13,330	600,400	364
58	8/10/2024	6,416	6,888	8,661	94	6	12,277	599,940	289
59	8/10/2024	5,962	5,853	8,433	94	8	13,210	602,400	325
60	8/11/2024	5,842	6,865	8,334	94	12	13,027	599,700	338
61	8/12/2024	6,008	6,611	8,917	93	8	12,396	583,700	366
62	8/12/2024	6,450	6,993	8,278	94	10	12,635	601,600	320
63	8/13/2024	6,078	6,742	8,577	94	16	12,436	600,000	322
64	8/13/2024	6,173	6,724	8,326	94	6	12,294	599,860	283
65	8/14/2024	6,028	7,202	8,468	94	6	12,327	600,000	304
66	8/15/2024	5,992	5,825	8,505	94	7	12,306	600,500	274
67	8/15/2024	5,723	6,424	8,249	94	6	12,345	600,120	299
68	8/16/2024	6,415	9,339	8,240	94	1	12,378	600,000	291
69	8/16/2024	6,107	5,458	8,324	94	3	12,259	601,900	248
70	8/17/2024	6,055	6,985	8,433	94	13	12,235	600,000	262
71	8/17/2024	5,966	7,616	8,452	94	13	12,454	599,880	254
72	8/18/2024	6,972	6,485	8,298	94	11	12,255	600,000	200
73	8/18/2024	6,861	6,842	8,262	94	7	12,372	601,140	234
74	8/19/2024	6,366	6,690	8,189	94	5	12,410	600,000	245
75	8/19/2024	6,171	6,682	8,180	94	7	12,548	600,000	236
76	8/20/2024	5,991	7,377	8,180	94	7	12,299	601,400	234
77	8/20/2024	6,304	7,336	8,189	94	16	12,390	600,000	225
78	8/20/2024	5,899	7,128	7,814	94	10	12,333	600,000	229
79	8/20/2024	6,314	7,020	7,747	94	7	12,220	600,900	213
80	8/21/2024	6,327	6,946	7,706	94	7	12,191	599,340	224
81	8/21/2024	6,355	6,693	7,855	94	6	12,346	600,000	479
82	8/21/2024	6,398	7,884	8,214	94	4	12,309	600,000	202
83	8/21/2024	6,250	7,241	8,128	94	8	12,250	600,340	192
84	8/22/2024	6,071	8,283	8,467	94	8	12,262	601,280	186

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Dolls Run 1H Perforation Report

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Stage Number	Report Date	Total Shots	Cluster 1 Top TD	Cluster 5 Bottom TD
1	7/6/2024	40		25,116
2	7/7/2024	40	25,072	24,913
3	7/7/2024	40	24,871	24,712
4	7/8/2024	40	24,670	24,511
5	7/9/2024	40	24,468	24,310
6	7/9/2024	40	24,267	24,108
7	7/10/2024	40	24,066	23,907
8	7/11/2024	40	23,865	23,706
9	7/11/2024	40	23,664	23,505
10	7/12/2024	40	23,463	23,304
11	7/12/2024	40	23,262	23,103
12	7/13/2024	40	23,060	22,901
13	7/14/2024	40	22,859	22,700
14	7/15/2024	40	22,658	22,499
15	7/15/2024	40	22,457	22,298
16	7/16/2024	40	22,256	22,097
17	7/16/2024	40	22,055	21,896
18	7/17/2024	40	21,853	21,695
19	7/18/2024	40	21,652	21,493
20	7/18/2024	40	21,451	21,292
21	7/19/2024	40	21,250	21,091
22	7/19/2024	40	21,049	20,890
23	7/20/2024	40	20,848	20,689
24	7/21/2024	40	20,647	20,488
25	7/21/2024	40	20,445	20,287
26	7/22/2024	40	20,244	20,085
27	7/22/2024	40	20,043	19,884
28	7/23/2024	40	19,842	19,683
29	7/23/2024	40	19,641	19,482
30	7/24/2024	40	19,440	19,281
31	7/25/2024	40	19,239	19,080
32	7/25/2024	40	19,037	18,878
33	7/26/2024	40	18,836	18,677
34	7/26/2024	40	18,635	18,476
35	7/27/2024	40	18,434	18,275
36	7/27/2024	40	18,233	18,074
37	7/28/2024	40	18,032	17,873
38	7/29/2024	40	17,830	17,672
39	7/29/2024	40	17,629	17,470
40	7/30/2024	40	17,428	17,269
41	7/30/2024	40	17,227	17,068
42	7/31/2024	40	17,026	16,867
43	8/1/2024	40	16,825	16,666
44	8/1/2024	40	16,624	16,465
45	8/2/2024	40	16,422	16,264
46	8/2/2024	40	16,221	16,062
47	8/3/2024	40	16,020	15,861

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48	8/3/2024	40	15,819	15,660
49	8/4/2024	40	15,618	15,459
50	8/5/2024	40	15,417	15,258
51	8/5/2024	40	15,216	15,057
52	8/6/2024	40	15,014	14,855
53	8/7/2024	40	14,813	14,654
54	8/7/2024	40	14,612	14,453
55	8/8/2024	40	14,411	14,252
56	8/8/2024	40	14,210	14,051
57	8/9/2024	40	14,009	13,850
58	8/10/2024	40	13,807	13,649
59	8/10/2024	40	13,606	13,447
60	8/11/2024	40	13,405	13,246
61	8/12/2024	40	13,204	13,045
62	8/12/2024	40	13,003	12,844
63	8/13/2024	40	12,802	12,643
64	8/13/2024	40	12,601	12,442
65	8/14/2024	40	12,399	12,241
66	8/15/2024	40	12,198	12,039
67	8/15/2024	40	11,997	11,838
68	8/16/2024	40	11,796	11,637
69	8/16/2024	40	11,595	11,436
70	8/17/2024	40	11,394	11,235
71	8/17/2024	40	11,193	11,034
72	8/18/2024	40	10,991	10,832
73	8/18/2024	40	10,790	10,631
74	8/19/2024	40	10,589	10,430
75	8/19/2024	40	10,388	10,229
76	8/20/2024	40	10,187	10,028
77	8/20/2024	40	9,986	9,827
78	8/20/2024	40	9,784	9,626
79	8/20/2024	40	9,583	9,424
80	8/21/2024	40	9,382	9,223
81	8/21/2024	40	9,181	9,022
82	8/21/2024	40	8,980	8,821
83	8/21/2024	40	8,779	8,620
84	8/22/2024	40	8,578	8,419

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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
Geneseo	7964	8016	Geneseo
Tully	8016	8078	Tully
Hamilton	8078	8217	Hamilton
Marcellus	8217	TD	Marcellus

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Cement Job Log

NEXTIER

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

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Hydraulic Fracturing Fluid Product Component Information Disclosure



Job Start Date:	07/06/2024
Job End Date:	08/21/2024
State:	West Virginia
County:	Monongalia
API Number:	47-061-01914-00-00
Operator Name:	Northeast Natural Energy LLC
Well Name and Number:	Dolls Run 1H
Latitude:	39.645668
Longitude:	-80.09313
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	8274
Total Base Water Volume (gal)*:	45787350
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	88.28284	None
Sand (100 Mesh Proppant)	ProFrac	Proppant					
			Crystalline Silica (quartz)	14808-60-7	100.00000	8.02204	None
Sand (40/70 White Proppant)	ProFrac	Proppant					
			Crystalline Silica (quartz)	14808-60-7	100.00000	3.54022	None
Other Chemical(s)	Listed Above	See Trade Name(s) List					
			Water	7732-18-5	92.50000	0.09013	None
			ALKANES, C12-26-BRANCHED AND LINEAR	90622-53-0	40.00000	0.02374	None
			Water	7732-18-5	80.00000	0.01383	None
			WATER	7732-18-5	15.00000	0.00890	None

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			ETHOXYLATED ALCOHOLS (C12-16)	68551-12-2	5.00000	0.00297	None
			AA/Maleic Anhydride Co-polymer	9003-04-7	5.00000	0.00207	None
			Polyacrylamide	9003-05-8	40.00000	0.00094	None
			WATER	7732-18-5	30.00000	0.00071	None
			Quaternary Ammonium Compounds	68424-85-1	3.00000	0.00052	None
			Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00052	None
			Ethanol	64-17-5	1.50000	0.00026	None
			Alcohols, C11-14-iso, C13-rich, ethoxylated	78330-21-9	5.00000	0.00012	None
			Pyridinium, 1-(phenylmethyl)-, ethyl methyl derivs., chlorides	68909-18-2	25.00000	0.00009	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
Hydrochloric Acid (7.5%)	Tarquin	Acidizing					
			Water	7732-18-5	92.50000	0.09013	None
			Hydrochloric Acid	7647-01-0	7.50000	0.00731	None
StimSTREAM FR 9800	Chemstream	Friction Reducer					
			ACRYLAMIDE-CHLORIDE SALT OF TRIMETHYLAMMONIO-ETHYL ACRYLATE COPOLYMER	69418-26-4	40.00000	0.02374	None
			ALKANES, C12-26-BRANCHED AND LINEAR	90622-53-0	40.00000	0.02374	None
			WATER	7732-18-5	15.00000	0.00890	None
			ETHOXYLATED ALCOHOLS (C12-16)	68551-12-2	5.00000	0.00297	None
Clearal 268A	Chemstream	Biocide					
			Water	7732-18-5	80.00000	0.01383	None
			Glutaraldehyde	111-30-8	20.00000	0.00346	None
			Quaternary Ammonium Compounds	68424-85-1	3.00000	0.00052	None

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			Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00052	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	0.00207	None
			AA/ATBS Co-polymer	9003-05-8	5.00000	0.00207	None
StimSTREAM FR 2800	Chemstream	Friction Reducer					
			Polyacrylamide	9003-05-8	40.00000	0.00094	None
			WATER	7732-18-5	30.00000	0.00071	None
			Distillates (petroleum), hydrotreated light	64742-47-8	25.00000	0.00059	None
			Alcohols, C11-14-iso, C13-rich, ethoxylated	78330-21-9	5.00000	0.00012	None
Acid Pack Pro	Tarquin	Acid Inhibitor					
			Methanol	67-56-1	25.00000	0.00009	None
			Pyridinium, 1-(phenylmethyl)-, ethyl methyl derivs., chlorides	68909-18-2	25.00000	0.00009	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 Nonylphenols	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%

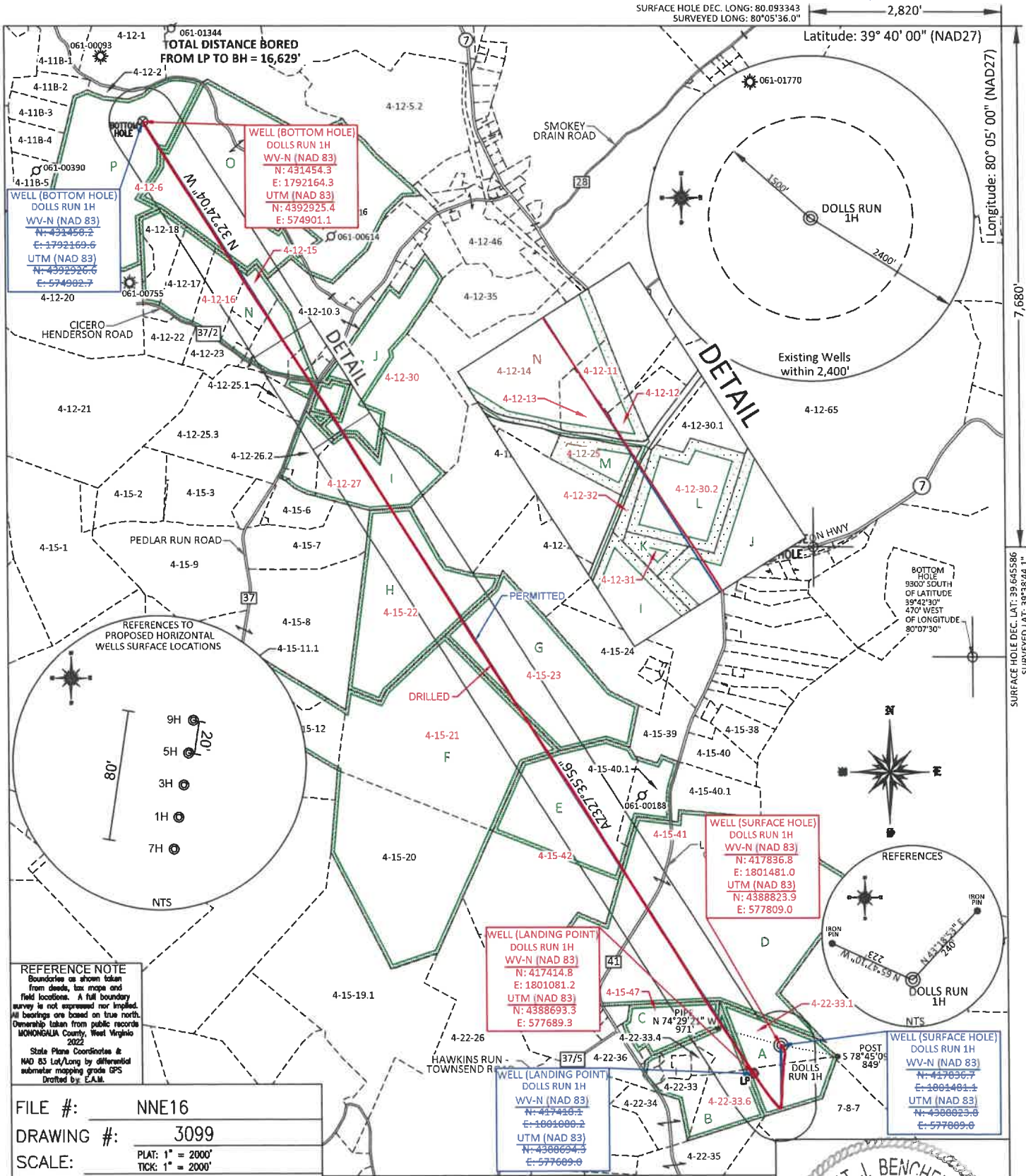
Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided. Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

Office Of Oil and Gas

MAY 29 2025

WV Department of
Environmental Protection

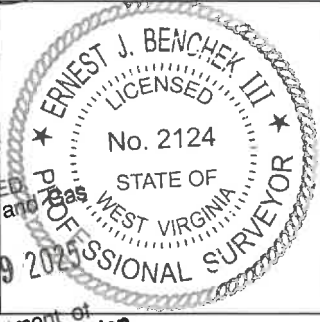
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REFERENCE NOTE
Boundaries as shown taken from deeds, tax maps and field locations. A full boundary survey is not expressed nor implied. All bearings are based on true north. Ownership taken from public records MONONGALIA County, West Virginia 2022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

FILE #: NNE16
DRAWING #: 3099
SCALE: PLAT: 1" = 2000'
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:

DATE: FEBRUARY 2024
OPERATOR'S WELL #: DOLLS RUN 1H
API WELL #: 47 61 01914
STATE COUNTY PERMIT
AS-BUILT ELEVATION: 1,522.6'
QUADRANGLE: OSAGE
ACREAGE: 27.74
ACREAGE: 1,211.22+/-

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
WELL OPERATOR: NORTHEAST NATURAL ENERGY LLC
ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200
CITY: CHARLESTON STATE: WV ZIP CODE: 25301
DRILLED DEPTH: TVD: 8,287' TMD: 25,281'
DESIGNATED AGENT: JOHN ADAMS
ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200
CITY: CHARLESTON STATE: WV ZIP CODE: 25301

	PROPERTY OWNER INDEX
4-22-33.1	BRYAN & SIERRA VANNORMAN
4-22-33.6	DANIEL D. & MARTHA P. SPERANDIO
4-15-47	MARVIN E. MORRIS
4-15-41	DONNA N. & ROBERT ALLEN WRIGHT
4-15-42	STATE OF WEST VIRGINIA BUREAU OF COMMERCE
4-15-21	STATE OF WEST VIRGINIA BUREAU OF COMMERCE
4-15-22	MARK V. & BETTY A. EDDY
4-15-23	STATE OF WEST VIRGINIA BUREAU OF COMMERCE
4-12-27	ROBERT I. JONES
4-12-30	ROBERT C. WALLS FAMILY TRUST
4-12-31	ROBERT C. & DIANA WALLS
4-12-30.2	ROBERT C. WALLS
4-12-32	ROBERT C. & DIANA WALLS
4-12-25	JOY HENDERSON & KIMBERLY SCHNAPP
4-12-12	VICTORIO & PERLA C. CARREON
4-12-13	JOHANNA LEA MULL
4-12-11	JOHANNA LEA MULL
4-12-14	EDWARD F. & CATHY W. JERNELL
4-12-15	JOSHUA MICHAEL SANDONE
4-12-16	HARRY L. CHAMBERS
4-12-6	ALPHEUS MICHAEL HENDERSON

LEASE INDEX			
A	WV-061-004020-000	I	WV-061-005963-003
B	WV-061-004020-000	J	WV-061-006045-001
C	WV-061-005830-001	K	WV-061-006010-001
D	WV-061-005246-002	L	WV-061-005516-002
E	WV-061-004237-001	M	WV-061-003963-001
F	WV-061-004240-001	N	WV-061-003475-015
G	WV-061-001575-014	O	WV-061-004058-000
H	WV-061-004255-001	P	WV-061-004058-000

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FILE #: <u>NEE14</u>	DATE: <u>FEBRUARY 12, 2024</u>
DRAWING #: <u>3099</u>	OPERATOR'S WELL #: <u>DOLLS RUN 1H</u>
SCALE: <u>N/A</u>	API WELL #: <u>47</u> <u>61</u> <u>01914</u> STATE COUNTY PERMIT