

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

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WV Department of
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API 47 - 061 - 01924 County Monongalia District Battelle
Quad Wadestown Pad Name Miracle Run Field/Pool Name _____
Farm name Byron Lane Rapp Well Number 6H
Operator (as registered with the OOG) Northeast Natural Energy
Address 707 Virginia St. E, Ste 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 4386826.7 Easting 558466.8
Landing Point of Curve Northing 4386861.5 Easting 558829.7
Bottom Hole Northing 4381423.9 Easting 562579.1

Elevation (ft) 1,521' 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 4/5/2023 Date drilling commenced 12/4/2023 Date drilling ceased 4/18/2024
Date completion activities began 12/21/2024 Date completion activities ceased 3/21/2025
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 1,238' Open mine(s) (Y/N) depths _____
Salt water depth(s) ft 2,628' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 718', 1,228' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) Y

Reviewed by:

APPROVED

Mpk
6/25/2025 09/19/2025

WR-35
Rev. 8/23/13

Page 2 of 35

API 47-061 - 01924

Farm name Byron Lane Rapp

Well number 6H

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	32"	24"	100'	New	78.9	NA	N
Surface	17 1/2"	13 3/8"	1464'	New	J-55/54.5	132'	Y- 63 bbls- to Surface
Coal							
Intermediate 1	12 1/4"	9 5/8"	2745'	New	J-55/36	2,467'	N- Top out Performed
Intermediate 2							
Intermediate 3							
Production	8 1/2"	5 1/2"	30,469'	New	HP P-110/20.2	NA	N
Tubing							
Packer type and depth set							

Comment Details Casing depths based on KB elevation. Conductor grouted not circulated. Intermediate cement 10' from surface determined via strap down backside. Performed top out job at request of the Inspector. CTS after top out. Production cement job was not planned for cement to surface, cement 500' inside 9 5/8" casing. Permit approved to set FW casing to cover Red Rock Formation.

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	270	15.6	1.18	318.6'	CTS	>72
Surface	L/100% NCM-956	1370	15.6	1.14	1,561.8'	CTS	8
Coal							
Intermediate 1	L/100% NCM-956	1100	15.6	1.12	1,232'	CTS	8
Intermediate 2							
Intermediate 3							
Production	Class L50/50 POZ	5690	14.5	1.16	6,600.4'	2,245'	>72
Tubing							

Drillers TD (ft) 30,512'

Loggers TD (ft) 30,487'

Deepest formation penetrated Marcellus

Plug back to (ft) _____

Plug back procedure _____

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Kick off depth (ft) 7522' MD/ 7420' TVD

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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: Shoe track and every joint in the lateral to KOP, then every 3rd joint 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 _____

09/19/2025

PERFORATION RECORD

[illegible]

STIMULATION INFORMATION PER STAGE

[illegible]

Please insert additional pages as applicable.

09/19/2025

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
Marcellus	8,163' TVD	30,512' MD

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OPEN FLOW Gas Oil NGL Water GAS MEASURED BY
4088 mcfpd _____ bpd _____ bpd _____ bpd ☐ Estimated ☐ Orifice ☐ Pilot

Please insert additional pages as applicable.

Please insert additional pages as applicable.

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

09/19/2025

506 35

Miracle Run 6H
Stimulation Report

MAY 26 2025

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Stage Number	Report Date	ISIP (psi)	Breakdown Pressure (psi)	Avg Treating Pressure (psi)	Avg Treating Rate (BPM)	Pad Volume (bbls)	Clean Fluid (Bbls)	Total Proppant Amount (lbs)	Flush Volume (bbls)
1	12/21/2024	5,085	8,234	9,472	83	2,955	9,822	300,970	673
2	12/21/2024	5,122	7,948	9,720	89	25	10,528	456,100	667
3	12/21/2024	5,131	4,832	9,565	86	262	9,874	456,920	662
4	12/21/2024	5,209	4,875	9,532	85	40	9,692	455,000	662
5	12/21/2024	5,351	6,032	9,627	90	68	10,034	454,950	657
6	12/22/2024	5,448	6,525	9,724	89	256	9,890	455,755	649
7	12/22/2024	5,469	6,970	9,794	89	220	10,284	455,720	645
8	12/22/2024	5,552	4,944	9,624	85	101	10,070	455,000	662
9	12/22/2024	6,038	4,882	9,815	85	60	9,744	455,160	694
10	12/23/2024	5,884	7,007	9,676	87	195	10,284	455,000	660
11	12/23/2024	5,821	6,905	10,076	90	187	10,142	455,000	696
12	2/22/2025	5,522	7,187	9,529	81	21	8,805	456,100	629
13	2/23/2025	5,216	7,073	9,561	78	27	9,987	458,100	668
14	2/23/2025	5,415	7,072	9,504	83	32	10,008	457,400	628
15	2/23/2025	5,369	7,307	9,611	85	25	9,840	460,580	623
16	2/24/2025	5,187	7,535	9,396	85	38	10,119	459,294	642
17	2/24/2025	5,352	8,016	9,284	82	25	10,387	456,380	645
18	2/24/2025	5,370	7,503	9,453	84	24	9,894	455,845	623
19	2/25/2025	5,484	5,568	9,348	82	24	10,493	456,291	610
20	2/25/2025	5,692	7,486	9,553	82	35	11,563	455,600	593
21	2/25/2025	5,656	5,666	9,503	85	86	9,449	453,350	579
22	2/26/2025	5,460	7,267	9,353	84	58	9,921	454,900	589
23	2/26/2025	5,871	7,525	9,648	88	32	9,775	457,100	597
24	2/26/2025	5,396	5,673	9,475	85	47	10,120	455,000	587
25	2/27/2025	5,524	5,371	9,511	84	45	9,631	455,100	583
26	2/27/2025	5,439	7,681	9,665	86	15	9,715	453,380	567
27	2/27/2025	5,790	6,412	9,691	83	14	9,381	455,520	553
28	2/27/2025	5,513	7,440	9,561	84	29	9,595	454,980	561
29	2/28/2025	6,540	7,468	9,818	88	23	9,870	454,870	561
30	2/28/2025	5,769	7,454	9,637	87	37	9,730	456,780	571
31	2/28/2025	5,710	7,645	9,731	87	65	10,688	453,960	551
32	3/1/2025	6,129	7,305	9,818	89	196	10,083	454,540	540
33	3/1/2025	5,352	5,757	9,668	87	35	9,740	454,750	537
34	3/1/2025	5,307	7,450	9,628	91	63	9,693	453,500	231
35	3/2/2025	4,993	7,188	9,762	93	28	9,864	454,620	591
36	3/2/2025	5,771	7,873	9,725	90	22	9,844	458,150	543
37	3/2/2025	4,877	7,473	9,706	89	33	9,706	453,500	529
38	3/2/2025	4,634	7,097	9,845	92	3,958	9,660	456,020	531
39	3/3/2025	5,375	7,323	9,816	94	34	9,889	455,640	534
40	3/3/2025	5,527	7,411	9,720	93	32	9,862	459,080	515
41	3/3/2025	5,675	7,348	9,694	91	38	9,697	454,500	524

09/19/2025

42	3/3/2025	5,205	7,084	9,778	93	33	9,677	456,000	496
43	3/4/2025	5,208	7,059	9,780	95	40	9,617	458,680	490
44	3/4/2025	5,552	7,138	9,626	93	30	9,763	454,540	505
45	3/4/2025	5,572	7,567	9,619	92	34	9,806	453,500	647
46	3/5/2025	5,369	5,790	9,738	94	78	9,591	455,500	612
47	3/5/2025	5,346	7,566	9,609	92	37	9,456	453,940	494
48	3/5/2025	5,620	6,834	9,640	93	24	9,671	450,260	487
49	3/5/2025	6,006	5,473	9,780	94	44	9,665	455,000	566
50	3/6/2025	5,683	7,442	9,812	94	35	9,466	455,820	488
51	3/6/2025	5,452	6,034	9,782	94	23	9,493	452,880	479
52	3/6/2025	5,340	6,654	9,700	85	92	9,893	452,620	496
53	3/6/2025	5,403	6,891	9,842	75	33	9,809	453,950	469
54	3/6/2025	5,725	6,912	9,756	86	60	9,748	455,960	464
55	3/7/2025	5,553	7,739	9,783	86	54	9,755	458,280	448
56	3/7/2025	5,520	7,333	9,807	85	44	10,069	454,420	454
57	3/7/2025	5,797	6,282	9,734	94	152	10,263	454,040	439
58	3/8/2025	5,961	7,970	9,716	95	34	9,645	454,980	448
59	3/8/2025	5,742	7,630	9,624	95	43	9,426	458,480	448
60	3/8/2025	5,937	7,121	9,573	94	168	9,942	453,760	436
61	3/8/2025	6,125	6,385	9,346	95	35	9,744	456,000	427
62	3/8/2025	5,552	6,605	9,872	89	52	9,405	454,980	441
63	3/9/2025	5,245	7,014	9,568	95	43	9,779	455,240	431
64	3/9/2025	5,945	7,116	9,316	95	22	9,493	454,100	429
65	3/9/2025	5,768	7,430	9,230	95	27	9,512	454,840	408
66	3/9/2025	5,514	6,519	8,870	95	37	9,603	455,600	414
67	3/10/2025	5,882	6,577	8,991	95	55	9,569	457,080	402
68	3/10/2025	5,614	5,658	8,983	96	28	9,549	453,040	392
69	3/10/2025	5,356	7,372	9,073	94	24	9,659	456,380	393
70	3/10/2025	5,256	7,807	9,328	95	62	9,905	454,480	424
71	3/11/2025	5,286	6,788	9,170	95	111	9,704	466,690	376
72	3/11/2025	5,230	6,914	9,212	96	17	9,555	456,020	367
73	3/11/2025	5,172	7,797	9,329	95	22	9,420	459,720	381
74	3/12/2025	5,665	7,316	9,439	95	36	10,625	461,920	338
75	3/12/2025	5,618	7,236	9,270	95	21	9,711	460,180	357
76	3/12/2025	5,708	4,851	8,998	95	29	9,823	456,060	351
77	3/12/2025	5,516	7,843	9,023	95	33	9,475	455,280	358
78	3/13/2025	5,343	7,393	9,293	95	14	9,415	455,220	348
79	3/13/2025	5,593	7,393	9,169	95	97	9,481	457,100	330
80	3/13/2025	5,391	7,119	9,607	98	62	9,579	455,120	337
81	3/13/2025	5,667	7,500	9,517	95	24	9,332	452,340	332
82	3/14/2025	5,720	7,976	9,457	94	29	9,459	452,960	338
83	3/14/2025	5,621	6,248	9,255	99	23	9,474	455,920	318
84	3/14/2025	5,519	7,154	9,000	95	17	9,554	455,240	320
85	3/15/2025	5,615	6,562	9,227	99	9	9,565	455,140	318
86	3/15/2025	5,539	6,950	9,157	98	24	9,475	459,280	249
87	3/15/2025	5,619	7,336	9,334	99	19	9,444	459,540	303
88	3/15/2025	5,307	7,215	9,409	99	9	9,507	455,160	308

7 of 35

89	3/16/2025	5,298	7,649	9,228	99	55	9,318	455,760	300
90	3/16/2025	5,489	7,249	9,318	99	22	9,418	458,120	288
91	3/16/2025	5,496	6,831	9,065	97	36	9,440	455,360	283
92	3/16/2025	5,534	7,120	9,038	100	17	9,506	450,960	275
93	3/17/2025	5,351	7,331	9,133	99	40	9,441	454,000	287
94	3/17/2025	5,425	7,083	9,294	99	20	9,403	458,540	261
95	3/17/2025	5,271	6,965	8,877	99	42	9,573	455,400	278
96	3/18/2025	5,310	6,754	8,952	99	38	9,120	455,200	267
97	3/18/2025	5,645	6,718	8,904	100	15	9,328	456,248	257
98	3/18/2025	5,683	6,973	8,801	99	14	9,313	459,120	252
99	3/18/2025	5,204	6,831	8,798	100	35	9,337	455,300	261
100	3/19/2025	5,544	6,862	8,928	100	40	8,487	455,280	257
101	3/19/2025	5,376	7,016	8,948	100	35	8,228	456,390	252
102	3/19/2025	5,445	7,102	8,563	99	11	9,419	456,100	227
103	3/19/2025	5,357	6,894	8,866	100	56	9,473	454,950	256
104	3/19/2025	5,268	6,918	8,842	100	30	8,204	455,300	276
105	3/20/2025	5,676	6,729	8,560	101	36	8,309	457,430	282
106	3/20/2025	5,900	6,048	8,513	99	22	9,329	454,200	254
107	3/20/2025	6,333	6,789	8,685	99	14	8,149	456,100	217
108	3/21/2025	5,334	6,661	8,376	100	48	8,071	454,850	224
109	3/21/2025	6,082	7,092	8,542	99	15	8,552	456,770	206
110	3/21/2025	5,382	6,097	8,350	101	21	9,292	455,560	197
111	3/21/2025	4,849	6,531	8,124	100	56	8,348	455,200	200

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806 35

Miracle Run 6H**Perforation Report**

Stage Number	Report Date	Total Shots	Cluster 1 Top TD	Cluster 5 Bottom TD
1	12/21/2024			30,361
2	12/21/2024	40	30,318	30,160
3	12/21/2024	40	30,118	29,960
4	12/21/2024	40	29,918	29,761
5	12/21/2024	40	29,719	29,561
6	12/22/2024	40	29,519	29,361
7	12/22/2024	40	29,319	29,162
8	12/22/2024	40	29,120	28,962
9	12/22/2024	40	28,920	28,762
10	12/23/2024	40	28,720	28,563
11	12/23/2024	40	28,521	28,363
12	2/22/2025	40	28,321	28,163
13	2/23/2025	40	28,121	27,964
14	2/23/2025	40	27,922	27,764
15	2/23/2025	40	27,722	27,564
16	2/24/2025	40	27,522	27,365
17	2/24/2025	40	27,323	27,165
18	2/24/2025	40	27,123	26,965
19	2/25/2025	40	26,923	26,766
20	2/25/2025	40	26,724	26,566
21	2/25/2025	40	26,524	26,366
22	2/26/2025	40	26,324	26,167
23	2/26/2025	40	26,125	25,967
24	2/26/2025	40	25,925	25,767
25	2/27/2025	40	25,725	25,568
26	2/27/2025	40	25,526	25,368
27	2/27/2025	40	25,326	25,168
28	2/27/2025	40	25,126	24,969
29	2/28/2025	40	24,927	24,769
30	2/28/2025	40	24,727	24,569
31	2/28/2025	40	24,527	24,370
32	3/1/2025	40	24,328	24,170
33	3/1/2025	40	24,128	23,970
34	3/1/2025	40	23,928	23,771
35	3/2/2025	40	23,729	23,571
36	3/2/2025	40	23,529	23,371
37	3/2/2025	40	23,329	23,172
38	3/2/2025	40	23,130	22,972
39	3/3/2025	40	22,930	22,772
40	3/3/2025	40	22,730	22,573
41	3/3/2025	40	22,531	22,373
42	3/3/2025	40	22,331	22,173

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09/19/2025

43	3/4/2025	40	22,131	21,974
44	3/4/2025	40	21,932	21,774
45	3/4/2025	40	21,732	21,574
46	3/5/2025	40	21,532	21,375
47	3/5/2025	40	21,333	21,175
48	3/5/2025	40	21,133	20,975
49	3/5/2025	40	20,933	20,776
50	3/6/2025	40	20,734	20,576
51	3/6/2025	40	20,534	20,376
52	3/6/2025	40	20,334	20,177
53	3/6/2025	40	20,135	19,977
54	3/6/2025	40	19,935	19,777
55	3/7/2025	40	19,735	19,578
56	3/7/2025	40	19,536	19,378
57	3/7/2025	40	19,336	19,178
58	3/8/2025	40	19,136	18,979
59	3/8/2025	40	18,937	18,779
60	3/8/2025	40	18,737	18,579
61	3/8/2025	40	18,537	18,379
62	3/8/2025	40	18,338	18,180
63	3/9/2025	40	18,138	17,980
64	3/9/2025	40	17,938	17,780
65	3/9/2025	40	17,739	17,581
66	3/9/2025	40	17,539	17,381
67	3/10/2025	40	17,339	17,181
68	3/10/2025	40	17,140	16,982
69	3/10/2025	40	16,940	16,782
70	3/10/2025	40	16,740	16,582
71	3/11/2025	40	16,541	16,383
72	3/11/2025	40	16,341	16,183
73	3/11/2025	40	16,141	15,983
74	3/12/2025	40	15,942	15,784
75	3/12/2025	40	15,742	15,584
76	3/12/2025	40	15,542	15,384
77	3/12/2025	40	15,343	15,185
78	3/13/2025	40	15,143	14,985
79	3/13/2025	40	14,943	14,785
80	3/13/2025	40	14,744	14,586
81	3/13/2025	40	14,544	14,386
82	3/14/2025	40	14,344	14,186
83	3/14/2025	40	14,144	13,987
84	3/14/2025	40	13,945	13,787
85	3/15/2025	40	13,745	13,587
86	3/15/2025	40	13,545	13,388
87	3/15/2025	40	13,346	13,188
88	3/15/2025	40	13,146	12,988
89	3/16/2025	40	12,946	12,789

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10 of 35

90	3/16/2025	40	12,747	12,589
91	3/16/2025	40	12,547	12,389
92	3/16/2025	40	12,347	12,190
93	3/17/2025	40	12,148	11,990
94	3/17/2025	40	11,948	11,790
95	3/17/2025	40	11,748	11,591
96	3/18/2025	40	11,549	11,391
97	3/18/2025	40	11,349	11,191
98	3/18/2025	40	11,149	10,992
99	3/18/2025	40	10,950	10,792
100	3/19/2025	40	10,750	10,592
101	3/19/2025	40	10,550	10,393
102	3/19/2025	40	10,351	10,193
103	3/19/2025	40	10,151	9,993
104	3/19/2025	40	9,951	9,794
105	3/20/2025	40	9,752	9,594
106	3/20/2025	40	9,552	9,394
107	3/20/2025	40	9,352	9,195
108	3/21/2025	40	9,153	8,995
109	3/21/2025	40	8,953	8,795
110	3/21/2025	40	8,753	8,596
111	3/21/2025	40	8,554	8,396

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09/19/2025

11 of 35

Miracle Run Completion Lithology			Describe rock type and record quantity and type of fluid (freshwater, brine, oil, gas, H2S, etc)
Lithology/Formation	Top Depth in FT TVD	Bottom Depth in FT TVD	
Sand/silt	0	170	Sand/silt
Sand/red shale	170	370	sand with reddish shale
sandstone/shale	370	715	sandstone/shale
Washington coal	715	718	coal
siltstone/sandstone/limestone	718	890	carbonaceous silt/sandstone
sandstone/siltstone	890	950	sandstone/siltstone
Limestone/siltstone	950	1040	Limestone/siltstone
Limestone/siltstone/red rock	1040	1100	Limestone/siltstone/red rock
Limestone/sandstone	1100	1227	Limestone/sandstone
Pittsburgh coal	1227	1237	Pittsburgh coal
Limestone/siltstone	1237	1280	Limestone/siltstone
Red Rock/siltstone/limestone	1280	1430	Red Rock/siltstone/limestone
Gray shale/siltstone	1430	1520	Gray shale/siltstone
sandstone/siltstone/red rock	1520	1780	sandstone/siltstone/red rock
Sandstone/Siltstone	1780	2300	Sandstone/Siltstone
Red Rock/siltstone	2300	2446	Red Rock/siltstone
Little Lime	2446	2488	Little Lime
Big Lime	2488	2627	Big Lime
Big Injun	2627	2700	Big Injun
Sand/silt	2700	3124	Sand/silt
Gantz	3124	3129	Gantz
Sand/silt	3129	3404	Sand/silt
Gordon	3404	3507	Gordon
Fourth Sand	3507	3527	Fourth Sand
siltstone/sandstone	3527	6900	siltstone/sandstone
Gray shale/siltstone	6900	7501	Gray shale/siltstone
Middlesex	7501	7718	Middlesex
Burkett	7718	7877	Burkett
Geneseo	7877	7926	Geneseo
Tully	7926	7974	Tully
Hamilton	7974	8075	Hamilton
Marcellus	8075	TD	Marcellus

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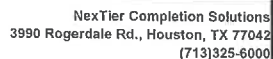


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Cement Job Log

[illegible]

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[illegible]

OPEN HOLE DATA			TUBULAR DATA									
8.75 in. O.H. 2,800 to 7,478 ft 8.5 in. O.H. 7,478 to 30,500 ft			5.5 in. 20#, (0 to 30,500 ft)			SIZE WEIGHT	THRD	DEPTH (ft)	GRADE	ID (in)	BURST (psi)	COLLAPSE (psi)
Ambient Tmp	Bulk Tmp	Slurry 1 Tmp	Slurry 2 Tmp	Slurry 3 Tmp	Slurry 4 Tmp							
61.0 °F		81.0 °F				5.5 20#	BTC	30469	P-110	4.778	12640	11080

Comments/Additional Details:

17-Apr-24
Date

09/19/2025

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	02/22/2025
Job End Date:	03/21/2025
State:	West Virginia
County:	Monongalia
API Number:	47-061-01924-00-00
Operator Name:	Northeast Natural Energy LLC
Well Name and Number:	Miracle Run 6H
Latitude:	39.629215
Longitude:	-80.318726
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	8157
Total Base Water Volume (gal)*:	41696802
Total Base Non Water Volume:	0



Water Source	Percent
Other, > 1000TDS	100.00%

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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	Operator	Carrier/Base Fluid					
			Water	7732-18-5	100.00000	88.23415	None
Sand (100 Mesh Proppant)	ProFrac	Proppant					
			Crystalline Silica (quartz)	14808-60-7	100.00000	10.39234	None
Sand (40/70 White Proppant)	ProFrac	Proppant					
			Crystalline Silica (quartz)	14808-60-7	100.00000	1.15747	None
Other Chemical(s)	Listed Above	See Trade Name(s) List					
			Water	7732-18-5	92.50000	0.11530	None
			ALKANES, C12-26-BRANCHED AND LINEAR	90622-53-0	40.00000	0.03347	None
			Water	7732-18-5	80.00000	0.01570	None
			WATER	7732-18-5	15.00000	0.01255	None

09/19/2025

34 of 35

			ETHOXYLATED ALCOHOLS (C12-16)	68551-12-2	5.00000	0.00418	None
			AA/Maleic Anhydride Co-polymer	9003-04-7	5.00000	0.00253	None
			Quaternary Ammonium Compounds	68424-85-1	3.00000	0.00059	None
			Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00059	None
			Ethanol	64-17-5	1.50000	0.00029	None
			Ethylene glycol	107-21-1	42.00000	0.00023	None
			Pyridinium, 1-(phenylmethyl)-, Et Me derivs, chloride	68909-18-2	25.00000	0.00014	None
			Alcohols, C11-14-iso, C13-rich, ethoxylated	78330-21-9	50.00000	0.00006	None
			Ciric Acid	77-92-9	10.00000	0.00006	None
			Polyacrylamide	9003-05-8	40.00000	0.00005	None
			Alcohols, C12 - 14 secondary, ethoxylated	84133-50-6	8.00000	0.00004	None
			WATER	7732-18-5	30.00000	0.00004	None
			Water	7732-18-5	5.00000	0.00003	None
			2-Propenal, 3-phenyl	104-55-2	4.00000	0.00002	None
			Methanol	67-56-1	2.00000	0.00001	None
			Methyl 9-decenoate	25601-41-6	1.00000	0.00001	None
			Methyl 9-dedecenoate	39202-17-0	1.00000	0.00001	None
			Sodium xylene sulfonate	1300-72-7	0.30000	0.00000	None
Hydrochloric Acid (7.5%)	Cooper Natural	Acidizing					
			Water	7732-18-5	92.50000	0.11530	None
			Hydrochloric Acid	7647-01-0	7.50000	0.00935	None
StimSTREAM FR 9800	Chemstream	Friction Reducer					
			ACRYLAMIDE-CHLORIDE SALT OF TRIMETHYLAMMONIO-ETHYL ACRYLATE COPOLYMER	69418-26-4	40.00000	0.03347	None
			ALKANES, C12-26-BRANCHED AND LINEAR	90622-53-0	40.00000	0.03347	None
			WATER	7732-18-5	15.00000	0.01255	None
			ETHOXYLATED ALCOHOLS (C12-16)	68551-12-2	5.00000	0.00418	None
Clearal 268A	Chemstream	Biocide					
			Water	7732-18-5	80.00000	0.01570	None
			Glutaraldehyde	111-30-8	20.00000	0.00393	None

09/19/2025

35 of 35

			Quaternary Ammonium Compounds	68424-85-1	3.00000	0.00059	None
			Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00059	None
			Ethanol	64-17-5	1.50000	0.00029	None
StimSTREAM SC 405	Chemstream	Scale Inhibitor					
			AA/Maleic Anhydride Co-polymer	9003-04-7	5.00000	0.00253	None
			AA/ATBS Co-polymer	9003-05-8	5.00000	0.00253	None
Acid Pack Pro LT	ProFrac	Acid Inhibitor					
			Ethylene glycol	107-21-1	42.00000	0.00023	None
			Pyridinium, 1-(phenylmethyl)-, Et Me derivs, chloride	68909-18-2	25.00000	0.00014	None
			Ciric Acid	77-92-9	10.00000	0.00006	None
			Alcohols, C12 - 14 secondary, ethoxylated	84133-50-6	8.00000	0.00004	None
			Water	7732-18-5	5.00000	0.00003	None
			2-Propenal, 3-phenyl	104-55-2	4.00000	0.00002	None
			Methanol	67-56-1	2.00000	0.00001	None
			Isotridecanol, ethoxylated	69011-36-5	1.80000	0.00001	None
			Methyl 9-decenoate	25601-41-6	1.00000	0.00001	None
			Methyl 9-dedecenoate	39202-17-0	1.00000	0.00001	None
			Sodium xylene sulfonate	1300-72-7	0.30000	0.00000	None
StimSTREAM FR 2800	Chemstream	Friction Reducer					
			Alcohols, C11-14-iso, C13-rich, ethoxylated	78330-21-9	50.00000	0.00006	None
			Polyacrylamide	9003-05-8	40.00000	0.00005	None
			WATER	7732-18-5	30.00000	0.00004	None
			Distillates (petroleum), hydrotreated light	64742-47-8	25.00000	0.00003	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

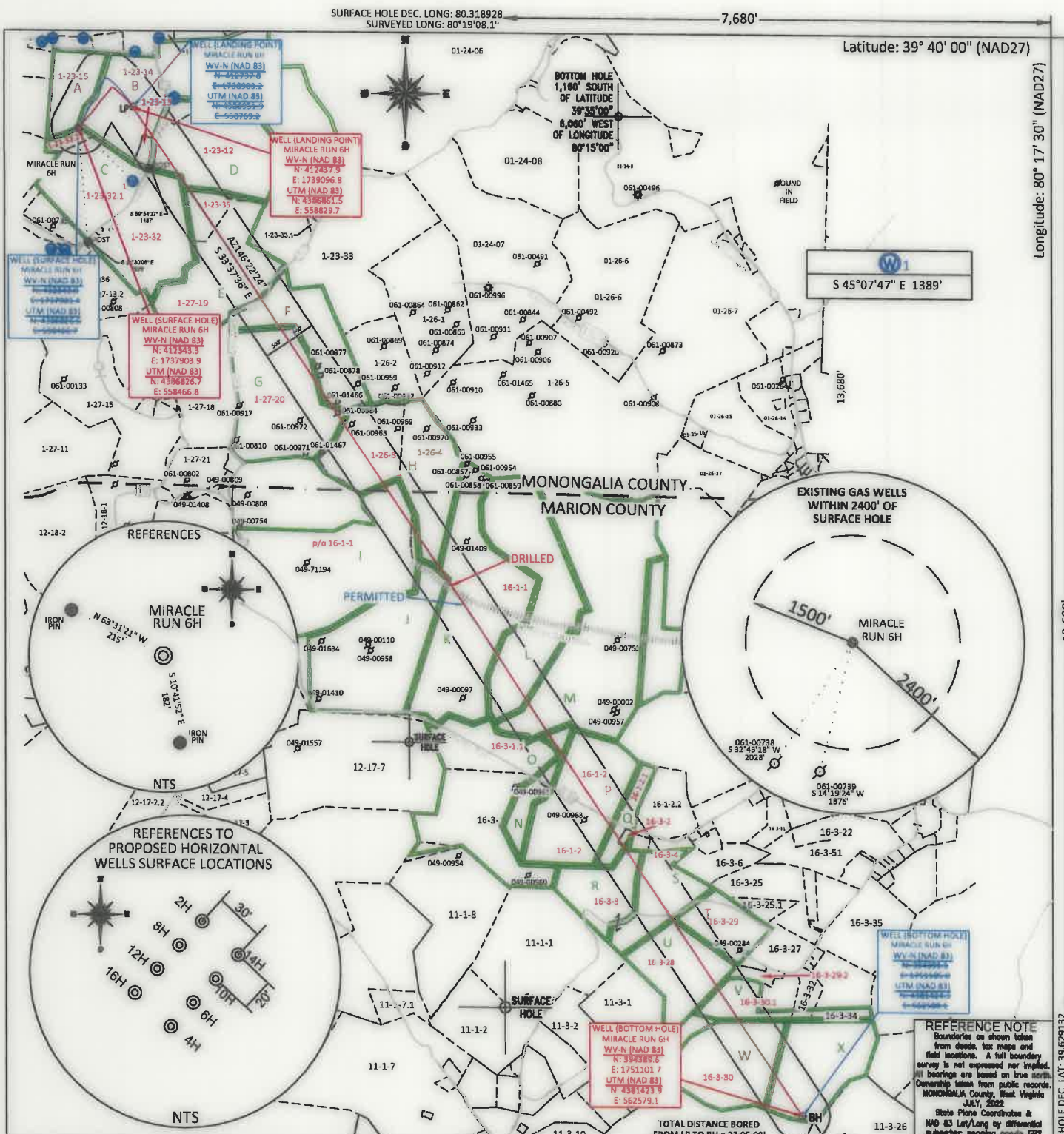
* Total Water Volume sources may include various types of water including fresh water, produced water, and recycled water

** Information is based on the maximum potential for concentration and thus the total may be over 100%

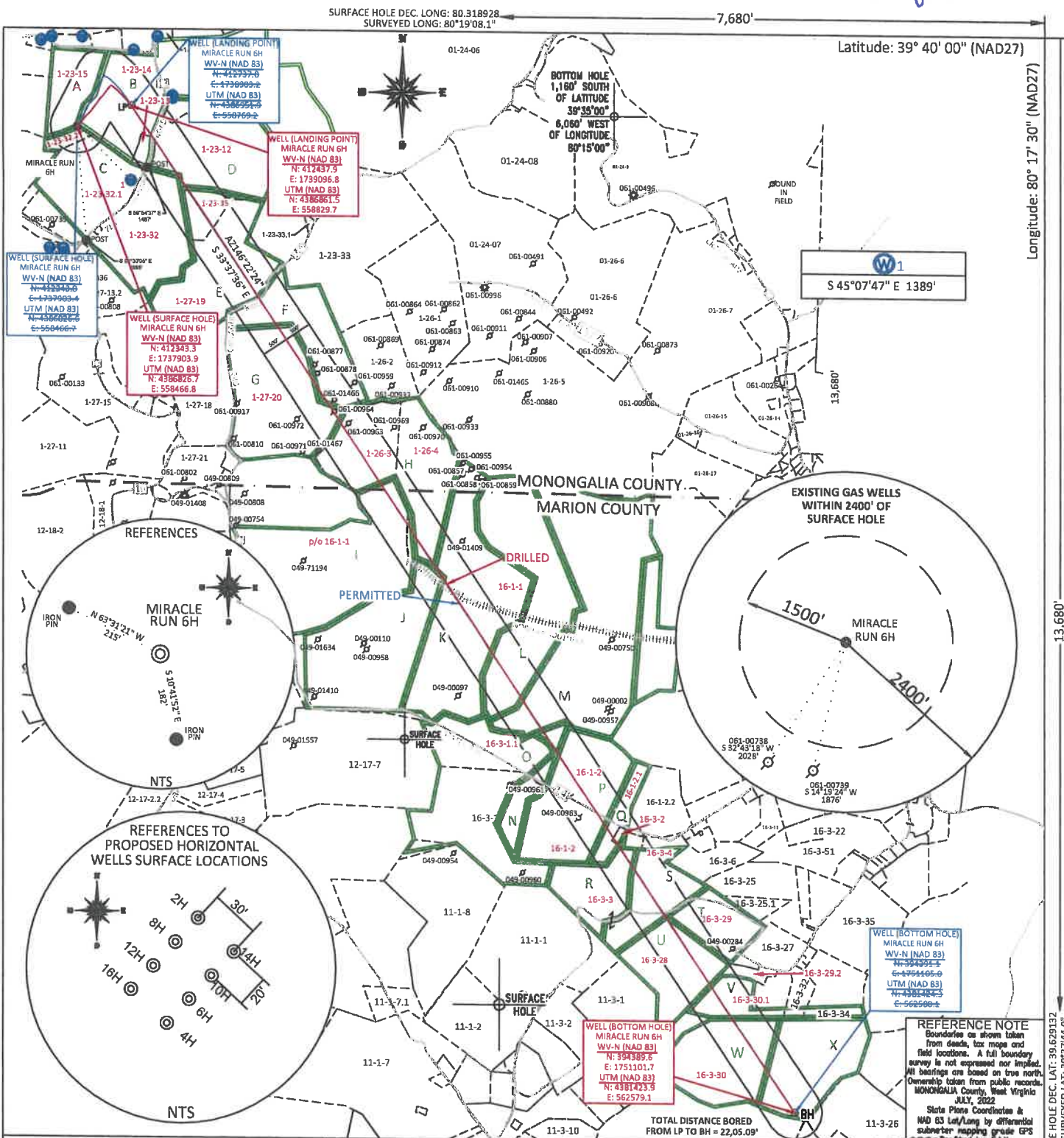
Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.

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

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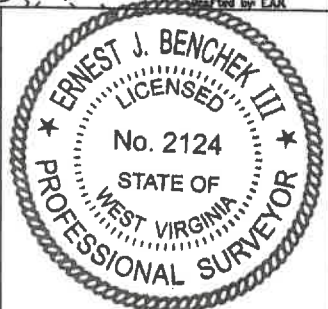


FILE #: NNE20	I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION. Signed: <i>[Signature]</i> L.L.S. #2124 : Ernest J. Benchek III	
DRAWING #: 3093		
SCALE: PLAT: 1" = 2000' TICK: 1" = 2000'		
MINIMUM DEGREE OF ACCURACY: 1/200		
PROVEN SOURCE OF ELEVATION: SUBMETER MAPPING GRADE GPS		
(+) 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 / BATTELLE SURFACE OWNER: BYRON LANE RAPP OIL & GAS ROYALTY OWNER: LEASE NUMBERS:		
DATE: MAY 5, 2025 OPERATOR'S WELL #: MIRACLE RUN 6H (AS-DRILLED) API WELL #: 47 61 01924 STATE COUNTY PERMIT AS-BUILT ELEVATION: 1,521.56' QUADRANGLE: WADESTOWN ACREAGE: 1872.25 +/- ACREAGE: 56.46 09/19/2025 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: 8,163' TMD: 30,512' DESIGNATED AGENT: JOHN ADAMS ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200 CITY: CHARLESTON STATE: WV ZIP CODE: 25301		



FILE #: NNE20
DRAWING #: 3093
SCALE: PLAT: 1" = 2800'
TICK: 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:
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 / BATTELLE SURFACE OWNER: BYRON LANE RAPP OIL & GAS ROYALTY OWNER: LEASE NUMBERS:		DATE: MAY 5, 2025 OPERATOR'S WELL #: MIRACLE RUN 6H (AS-DRILLED) API WELL #: 47 61 01924 STATE COUNTY PERMIT AS-BUILT ELEVATION: 1,521.56' QUADRANGLE: WADESTOWN ACREAGE: 1872.25 +/- ACREAGE: 56.46 +/- 09/19/2025
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: 8,163' TMD: 30,512' DESIGNATED AGENT: JOHN ADAMS ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200 CITY: CHARLESTON STATE: WV ZIP CODE: 25301

	PROPERTY INDEX
1-23-12	CNX LAND LLC
1-23-13	JOHN E BARR SR
1-23-14	CLAUDE S & JONI L ANDERSON
1-23-15	CLAUDE S & JONI L ANDERSON
1-23-32	BYRON LANE RAPP
1-23-32.2	NORTHEAST NATURAL ENERGY LLC
1-23-35	CNX LAND LLC
1-27-19	CNX LAND LLC
1-27-20	CONSOL MINING COMPANY LLC
1-26-3	CONSOL MINING COMPANY LLC
1-26-4	CONSOL MINING COMPANY LLC
16-1-1	MARION COUNTY COAL RESOURCES INC
16-3-1.1	DAVE L & DIANA L MCDOUGAL
16-1-2	JAMES A TENNANT & KIM M DENSON
16-1-2.1	GREGORY N & JULIE A TENNANT
16-3-2	MAYNARD A KNOTTS
16-1-2	JAMES A TENNANT & KIM M DENSON
16-3-4	WACO OIL & GAS
16-3-3	RALPH & ZORA SHRIVER
16-3-28	CHARLES L & SUSAN L UNDERWOOD
16-3-29	CHARLES L & SUSAN L UNDERWOOD
16-3-29.2	MATTHEW PAUL SICKLES
16-3-30.1	CHESTER L & SUSAN L MICHAEL
16-3-30	CHARLES L & SUSAN L UNDERWOOD

LEASE INDEX			
A	WV-061-003830-005	M	WV-049-004839-001
B	WV-061-003828-007	N	WV-049-086187-001
C	WV-061-005463-023	O	WV-049-086187-001
D	WV-061-003829-005	P	WV-049-086168-003
E	WV-061-000198-001-LOI	Q	WV-049-086168-003
F	WV-061-006138-005	R	WV-061-000198-001-LOI
G	WV-061-004692-002	S	WV-049-086145-001
H	WV-061-003844-025	T	WV-049-106399-002
I	WV-061-000198-001-LOI	U	WV-049-106192-001
J	WV-049-004839-001; WV-049-004839-002	V	WV-049-106436-001
		W	WV-049-106399-001
K	WV-061-006503-001	X	WV-049-106399-001
L	WV-049-106389-002		

09/19/2025

FILE #: NEE20
DRAWING #: 3093
SCALE: N/A

DATE: MAY 5, 2025
OPERATOR'S WELL #: MIRACLE RUN 6H
API WELL #: 47 61
STATE COUNTY PERMIT