

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

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JUN 02 2026

WV Department of
Environmental Protection

API 47 - 049 - 02589 County Marion District Paw Paw
Quad Grant Town Pad Name Green Lakes Field/Pool Name _____
Farm name Ministers Run Property Management LLC Well Number 15H
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 4382137.5 Easting 574602.1
Landing Point of Curve Northing 4381345.5 Easting 573409.8
Bottom Hole Northing 4386100.1 Easting 569848.4

Elevation (ft) 1448.7 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, SOLTEX

Date permit issued 6/2/25 Date drilling commenced 7/23/25 Date drilling ceased 9/29/25
Date completion activities began 11/21/25 Date completion activities ceased 1/4/26
Verbal plugging (Y/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 816' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 2271' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 652 657 Waynesburg, 700 705 Sewickley, 808 816 Pittsburgh Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed
Approved

Reviewed by:

06/28/2026
8-13-26

WR-35
Rev. 8/23/13

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API 47- 049 - 02589 Farm name Ministers Run Property Management LLC Well number 15H

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	N/A	N/A	Y/10 bbls
Surface	17 1/2"	13 3/8"	906	New	J 55/54.5	537.8	Y/38 bbls
Coal							
Intermediate 1	12 1/4"	9 5/8"	2366'	New	J 55/36	N/A	Y/24/bbls
Intermediate 2							
Intermediate 3							
Production	8 1/2"	5 1/2"	29358'	New	HP P 110/23	N/A	N
Tubing							
Packer type and depth set							

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Comment Details _____

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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	214	15.6	1.18	252.52	CTS	>72
Surface	Class L	1875	15.6	1.14	2138	CTS	8
Coal							
Intermediate 1	Class L	860	15.6	1.12	963	CTS	8
Intermediate 2							
Intermediate 3							
Production	50% Class L & 50% Poz	5620	14.5	1.16	6519	1686	>72
Tubing							

Drillers TD (ft) 29674' Loggers TD (ft) 29358'

Deepest formation penetrated Marcellus Plug back to (ft) _____

Plug back procedure _____

Kick off depth (ft) 8925'

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 and every 3rd joint to surface

Intermediate: Shoe track and every 3rd joint to surface

Production: Shoe track and every joint in the lateral to KOP, then every third 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 _____

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PERFORATION RECORD

[illegible]

Please insert additional pages as applicable.

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STIMULATION INFORMATION PER STAGE

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Complete a separate record for each stimulation stage.

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nt of	Amount of
(bbls)	Nitrogen/other (units)

[illegible]

Please insert additional pages as applicable.

08/28/2026

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
Marcellus	7,959' TVD	29,674' MD

[illegible]

Completed by Hollie Medley Telephone 304 212 0422
Signature  Title Regulatory Manager Date 5-29-26

08/28/2026

5634

Green Lakes 15H Perforation Report				
Stage Number	Report Date	Total Shots	Cluster 1 Top TD	Cluster 5 Bottom TD
1	11/21/2025		29,341	
2	11/21/2025	40	29,207	29,050
3	11/22/2025	40	29,008	28,851
4	11/22/2025	40	28,809	28,652
5	11/22/2025	40	28,610	28,453
6	11/23/2025	40	28,411	28,254
7	11/23/2025	40	28,212	28,055
8	11/24/2025	40	28,013	27,856
9	11/24/2025	40	27,814	27,657
10	11/25/2025	40	27,615	27,457
11	11/25/2025	40	27,416	27,258
12	11/26/2025	40	27,216	27,059
13	11/26/2025	40	27,017	26,860
14	11/27/2025	40	26,818	26,661
15	11/27/2025	40	26,619	26,462
16	11/28/2025	40	26,420	26,263
17	11/29/2025	40	26,221	26,064
18	11/29/2025	40	26,022	25,865
19	11/29/2025	40	25,823	25,666
20	11/30/2025	40	25,624	25,466
21	12/1/2025	40	25,425	25,267
22	12/1/2025	40	25,225	25,068
23	12/2/2025	40	25,026	24,869
24	12/3/2025	40	24,827	24,670
25	12/4/2025	40	24,628	24,471
26	12/4/2025	40	24,429	24,272
27	12/5/2025	40	24,230	24,073
28	12/5/2025	40	24,031	23,874
29	12/6/2025	40	23,832	23,675
30	12/6/2025	40	23,633	23,475
31	12/7/2025	40	23,434	23,276
32	12/8/2025	40	23,234	23,077
33	12/9/2025	40	23,035	22,878
34	12/9/2025	40	22,836	22,679
35	12/10/2025	40	22,637	22,480
36	12/10/2025	40	22,438	22,281
37	12/10/2025	40	22,239	22,082
38	12/11/2025	40	22,040	21,883
39	12/11/2025	40	21,841	21,684

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40	12/12/2025	40	21,642	21,484
41	12/12/2025	40	21,443	21,285
42	12/12/2025	40	21,243	21,086
43	12/13/2025	40	21,044	20,887
44	12/14/2025	40	20,845	20,688
45	12/15/2025	40	20,646	20,489
46	12/16/2025	40	20,447	20,290
47	12/16/2025	40	20,248	20,091
48	12/17/2025	40	20,049	19,892
49	12/17/2025	40	19,850	19,693
50	12/18/2025	40	19,651	19,493
51	12/18/2025	40	19,452	19,294
52	12/19/2025	40	19,252	19,095
53	12/19/2025	40	19,053	18,896
54	12/19/2025	40	18,854	18,697
55	12/20/2025	40	18,655	18,498
56	12/20/2025	40	18,456	18,299
57	12/21/2025	40	18,257	18,100
58	12/21/2025	40	18,058	17,901
59	12/21/2025	40	17,859	17,702
60	12/22/2025	40	17,660	17,502
61	12/22/2025	40	17,461	17,303
62	12/22/2025	40	17,261	17,104
63	12/23/2025	40	17,062	16,905
64	12/23/2025	40	16,863	16,706
65	12/24/2025	40	16,664	16,507
66	12/24/2025	40	16,465	16,308
67	12/24/2025	40	16,266	16,109
68	12/25/2025	40	16,067	15,910
69	12/25/2025	40	15,868	15,711
70	12/26/2025	40	15,669	15,511
71	12/26/2025	40	15,470	15,312
72	12/27/2025	40	15,270	15,113
73	12/27/2025	40	15,071	14,914
74	12/27/2025	40	14,872	14,715
75	12/28/2025	40	14,673	14,516
76	12/28/2025	40	14,474	14,317
77	12/29/2025	40	14,275	14,118
78	12/29/2025	40	14,076	13,919
79	12/29/2025	40	13,877	13,720
80	12/30/2025	40	13,678	13,520
81	12/30/2025	40	13,479	13,321
82	12/31/2025	40	13,279	13,122
83	12/31/2025	40	13,080	12,923

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84	1/1/2026	40	12,881	12,724
85	1/1/2026	40	12,682	12,525
86	1/1/2026	40	12,483	12,326
87	1/2/2026	40	12,284	12,127
88	1/2/2026	40	11,407	11,249
89	1/2/2026	40	11,207	11,049
90	1/2/2026	40	11,007	10,848
91	1/2/2026	40	11,488	11,330
92	1/3/2026	40	11,288	11,131
93	1/3/2026	40	11,089	10,932
94	1/3/2026	40	10,890	10,733
95	1/3/2026	40	10,691	10,534
96	1/3/2026	40	10,492	10,335
97	1/3/2026	40	10,293	10,136
98	1/4/2026	40	10,094	9,937
99	1/4/2026	40	9,895	9,738

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Green Lakes 15H 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)	Pump Time (min)
1	11/21/2025	5,134	12,800	10,564	92	20	7,192	300,180	625	160
2	11/21/2025	5,834	7,220	11,219	98	20	11,994	607,740	617	137
3	11/22/2025	5,429	6,785	11,211	98	20	12,302	600,040	616	138
4	11/22/2025	5,707	6,632	11,274	98	20	12,266	603,540	611	138
5	11/22/2025	6,059	7,727	10,957	98	20	12,021	598,440	612	135
6	11/23/2025	6,013	7,592	11,538	98	20	12,102	604,300	599	135
7	11/23/2025	5,365	6,822	11,466	97	20	12,027	600,080	689	138
8	11/24/2025	6,124	6,458	11,487	98	20	12,059	600,600	591	136
9	11/24/2025	5,497	6,897	11,426	98	20	12,049	600,620	597	135
10	11/25/2025	6,019	6,708	11,506	99	20	12,173	605,100	589	135
11	11/25/2025	5,684	7,541	11,489	99	20	12,237	600,240	580	136
12	11/26/2025	6,071	8,046	11,506	97	20	11,939	600,520	574	134
13	11/26/2025	5,626	6,353	11,614	98	20	11,928	601,060	580	134
14	11/27/2025	5,955	11,682	11,495	98	20	12,064	599,960	568	136
15	11/27/2025	6,047	6,855	11,527	97	20	11,984	599,760	569	135
16	11/28/2025	5,893	8,638	11,397	98	20	11,976	600,000	690	134
17	11/29/2025	5,318	6,060	11,555	98	20	11,958	603,140	560	134
18	11/29/2025	5,914	10,316	11,579	97	20	11,851	600,180	545	135
19	11/29/2025	5,552	6,132	11,633	97	20	11,846	600,320	552	134
20	11/30/2025	6,364	6,314	11,446	97	20	11,993	599,820	661	137
21	12/1/2025	5,586	6,290	11,446	98	20	11,773	599,720	535	132
22	12/1/2025	5,886	6,176	11,258	98	20	12,255	600,460	534	136
23	12/2/2025	6,310	6,790	11,151	98	20	12,149	600,150	527	136
24	12/3/2025	6,347	7,208	11,053	99	20	11,891	599,750	642	131
25	12/4/2025	6,256	6,869	11,016	98	20	11,947	604,940	518	134
26	12/4/2025	6,035	7,013	11,126	98	20	12,004	600,020	635	134
27	12/5/2025	6,194	7,753	11,223	97	20	11,974	600,300	510	135
28	12/5/2025	6,381	6,858	10,943	98	20	12,047	604,150	624	134
29	12/6/2025	5,724	7,647	10,942	98	20	12,002	601,150	502	135
30	12/6/2025	6,038	9,300	11,375	97	20	11,843	600,160	497	135
31	12/7/2025	6,190	7,494	11,445	98	20	11,861	599,940	610	133
32	12/8/2025	6,584	6,769	11,007	98	20	11,954	596,260	492	134
33	12/9/2025	6,280	5,235	10,712	98	20	12,123	603,800	486	136
34	12/9/2025	5,935	6,179	10,472	98	20	12,065	600,260	482	134
35	12/10/2025	6,338	10,203	11,057	98	20	11,928	599,580	477	133
36	12/10/2025	6,708	5,100	10,683	97	20	11,997	603,100	485	135
37	12/10/2025	5,971	7,415	11,297	98	20	11,933	600,120	469	135
38	12/11/2025	6,379	6,166	10,909	98	20	11,818	597,890	478	133
39	12/11/2025	6,142	6,560	11,172	98	20	11,905	599,900	460	134
40	12/12/2025	6,237	7,090	11,129	98	20	11,989	605,020	457	133
41	12/12/2025	6,088	6,566	10,890	98	20	11,904	600,080	456	135

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89	1/2/2026	6,707	4,013	9,655	101	20	11,781	598,100	249	127
90	1/2/2026	6,139	6,511	9,601	101	20	11,800	601,180	244	127
91	1/2/2026	6,148	6,470	9,470	101	20	11,573	602,580	343	124
92	1/3/2026	5,592	6,275	9,303	101	20	11,585	600,400	332	125
93	1/3/2026	5,804	6,089	9,344	101	20	11,701	601,020	232	125
94	1/3/2026	6,472	4,152	9,187	101	20	11,841	599,810	227	126
95	1/3/2026	5,905	5,277	9,278	101	20	11,840	600,480	223	126
96	1/3/2026	5,802	5,802	9,427	101	20	11,889	599,320	219	127
97	1/3/2026	6,276	7,051	9,397	102	20	11,605	600,620	337	124
98	1/4/2026	5,391	6,707	9,258	102	20	11,916	620,460	312	127
99	1/4/2026	5,575	7,649	9,343	101	20	11,735	614,780	320	128

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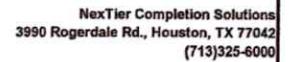
42	12/12/2025	5,806	5,062	10,920	98	20	11,852	600,200	447	132
43	12/13/2025	6,324	6,271	10,903	98	20	11,870	600,170	451	133
44	12/14/2025	5,976	6,747	11,144	96	20	12,333	600,100	443	155
45	12/15/2025	6,117	7,711	10,771	97	20	11,943	600,820	434	137
46	12/16/2025	6,181	6,613	11,167	98	20	12,054	600,500	459	134
47	12/16/2025	6,397	6,895	10,727	96	20	12,164	600,180	426	140
48	12/17/2025	5,755	6,681	10,935	98	20	11,810	600,150	422	132
49	12/17/2025	6,134	6,534	10,589	98	20	12,063	600,280	416	135
50	12/18/2025	6,503	6,480	10,860	98	20	11,903	599,060	414	132
51	12/18/2025	6,076	5,951	10,609	97	20	14,366	600,180	424	162
52	12/19/2025	6,659	6,661	10,721	99	20	11,945	600,000	405	130
53	12/19/2025	6,090	4,959	9,999	98	20	11,765	600,060	403	131
54	12/19/2025	6,076	6,234	10,188	99	20	11,857	600,045	334	130
55	12/20/2025	6,351	7,855	10,414	100	20	11,936	597,300	397	128
56	12/20/2025	5,880	7,908	10,411	99	20	11,841	601,890	393	131
57	12/21/2025	6,405	7,144	10,399	100	20	11,979	599,870	384	128
58	12/21/2025	5,750	6,636	10,099	100	20	11,845	600,060	381	129
59	12/21/2025	6,157	5,733	10,415	100	20	11,771	599,920	375	128
60	12/22/2025	6,112	6,592	10,412	100	20	11,849	599,990	396	128
61	12/22/2025	5,833	5,843	10,070	100	20	11,701	600,380	367	128
62	12/22/2025	5,808	6,618	10,086	101	20	11,810	602,380	361	126
63	12/23/2025	5,809	7,225	10,277	99	20	11,813	600,540	358	128
64	12/23/2025	5,925	7,596	10,336	100	20	11,764	600,260	354	128
65	12/24/2025	5,455	7,874	9,970	100	20	11,752	599,910	358	126
66	12/24/2025	5,721	7,285	10,126	100	20	12,104	598,720	346	134
67	12/24/2025	6,618	8,057	9,920	101	20	11,883	602,440	367	126
68	12/25/2025	6,249	6,633	9,897	99	20	11,863	600,190	337	130
69	12/25/2025	6,604	6,063	10,155	100	20	11,968	600,140	340	129
70	12/26/2025	6,069	8,020	10,308	101	20	11,949	599,960	329	127
71	12/26/2025	5,713	8,492	10,198	102	20	12,022	600,140	324	128
72	12/27/2025	6,116	6,952	10,116	101	20	11,911	602,560	405	127
73	12/27/2025	5,883	6,886	10,297	101	20	11,839	600,200	316	127
74	12/27/2025	6,140	5,446	10,301	101	20	11,809	600,080	315	127
75	12/28/2025	5,554	6,742	10,256	100	20	11,715	600,540	308	125
76	12/28/2025	5,778	6,652	9,923	100	20	11,716	597,460	303	128
77	12/29/2025	6,453	7,190	10,012	100	20	11,704	599,930	301	125
78	12/29/2025	6,080	7,207	10,532	100	20	11,849	600,220	295	129
79	12/29/2025	6,443	8,250	10,125	101	20	11,873	600,060	383	127
80	12/30/2025	6,667	4,331	10,242	100	20	11,730	598,420	286	127
81	12/30/2025	5,306	6,630	10,146	101	20	11,682	600,380	427	126
82	12/31/2025	5,916	6,335	9,607	101	20	11,972	600,240	406	129
83	12/31/2025	6,710	6,145	9,633	100	20	11,968	605,700	274	128
84	1/1/2026	6,730	6,307	9,374	96	20	12,094	600,400	270	141
85	1/1/2026	6,410	4,325	9,221	96	20	12,658	603,940	265	130
86	1/1/2026	5,611	6,174	9,260	99	20	11,529	600,350	390	127
87	1/2/2026	5,772	6,533	9,308	101	20	11,660	600,180	377	125
88	1/2/2026	6,111	4,647	9,163	100	20	11,636	600,480	253	126

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Green Lakes NW 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	425	Sand/silt
lime/silt	425	580	lime/silt
lime/sand/silt	580	640	lime/sand/silt
carbonaceous silt/sandstone	640	652	carbonaceous silt/sandstone
Waynesburg coal	652	657	Waynesburg coal
sandstone/limestone	657	700	sandstone/limestone
Sewickley Coal	700	705	Sewickley Coal
Limestone/siltstone/red beds	705	808	Limestone/siltstone/red beds
Pittsburgh coal	808	816	Pittsburgh coal
Limestone/siltstone	816	880	Limestone/siltstone
sandstone	880	940	sandstone
siltstone/sandstone	940	1090	siltstone/sandstone
red rock/siltstone	1090	1205	red rock/siltstone
siltstone/red silt/sandstone	1205	2021	siltstone/red silt/sandstone
Little Lime	2021	2049	Little Lime
Big Lime	2049	2141	Big Lime
Big Injun	2141	2271	Big Injun
Sand/silt	2271	2327	Sand/silt
Gantz	2327	2347	Gantz
Sand/shale/siltstone	2347	3006	Sand/shale/siltstone
Gordon	3006	3044	Gordon
Siltstone/sandstone	3044	3160	Siltstone/sandstone
Fourth Sand	3160	3185	Fourth Sand
sandstone/siltstone	3185	5260	sandstone/siltstone
siltstone	5260	7100	siltstone
Gray shale/siltstone	7100	7343	Gray shale/siltstone
Middlesex	7343	7544	Middlesex
Burkett	7544	7790	Burkett
Geneseo	7790	7840	Geneseo
Tully	7840	7884	Tully
Hamilton	7884	8005	Hamilton
Marcellus	8005	8060	Marcellus
Cherry Valley	8060	8066	Cherry Valley
Lower Marcellus	8066	8140	Lower Marcellus
Onondaga	8140	8158	Onondaga
Huntersville	8158	TD	Huntersville

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	PROPERTY INDEX
4-25-16.1	JOHN E STATLER
4-25-17	JOHN E STATLER
4-25-16	DENNIS J & WILLIAM A WELTON III
4-25-18	JOHN E STATLER
16-25-23	JOSEPH E URSE JR
4-25-28	WILLIAM F & NATALIE L HARRIS
4-25-31	JOHN E STATLER
16-15-24	RUTH JANE WALKER
16-15-23	DERRICK J & KELLY N JONES
16-15-22	LEWIS D TENNANT (1/2 INT) & DONNA J SHELTON (1/2 INT)
16-15-21.4	ERICA L & DAVID A MOORE
16-24-8	ROBERT W & WILLIAM J & JOHN C & GARY V WHITE
16-15-21.3	ELIZABETH STARCHER (LIFE 1156-722)
16-15-20.3	JOHN & ROBERTA CARPENTER
16-24-9	JOSEPH & LINDA S BILOTTA
16-24-12	ARNOLD J & SAUNDRA A MORGAN
16-24-28	BARRY L & LISA L KNICELEY
16-24-29	ARNOLD J & SAUNDRA A MORGAN
16-24-27	WILLIAM R BRAGG
16-25-4	ROBIN M COSNER
16-25-22	CORLISS PAUL & RUBY BROOKOVER
16-25-22.1	GREEN LAKES SPORTSMAN CLUB INC
16-26-1	BARBARA TROUT (2/12 INT)
16-26-26	MINISTERS RUN PROPERTY MANAGEMENT LLC
16-26-21	JERRY G & SHARON D SISLER
16-26-2	KENNETH E & SHIRLEY J BRAGG
16-26-3	KENNETH E & SHIRLEY J BRAGG
16-26-19	GARY W DAYTON

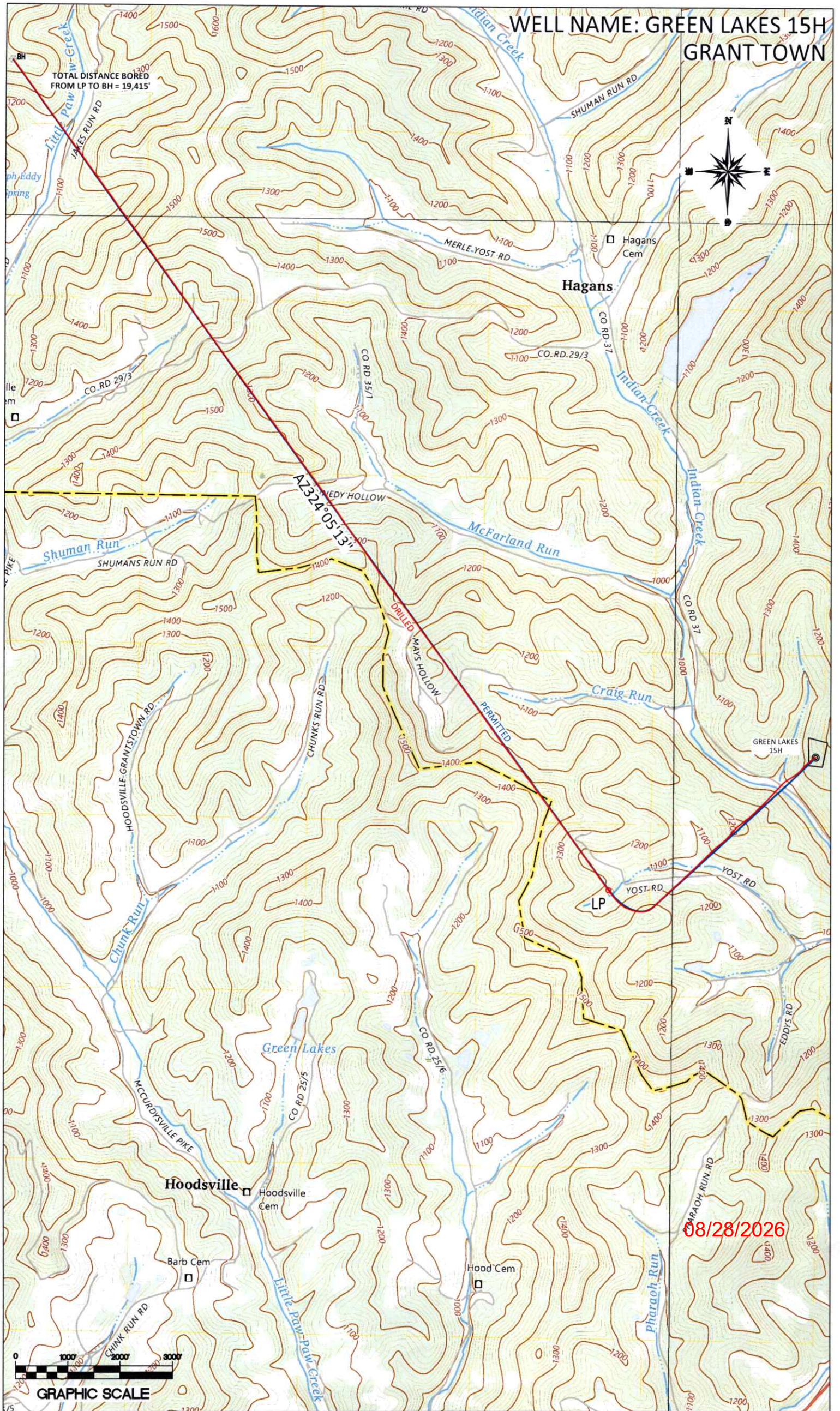
	LEASE INDEX		
A	WV-049-106675-001	P	WV-049-006372-001
B	WV-049-106358-001	Q	WV-061-006366-001
C	WV-049-106380-001	R	WV-061-000212-001-ACT
D	WV-049-106757-001	S	WV-049-004373-110
E	WV-049-106757-001	T	WV-049-004373-110
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G	WV-049-106604-002	V	WV-049-005493-001
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K	WV-049-106314-020	Z	WV-061-000212-001-ACT
L	WV-049-106314-020	AA	WV-061-004293-005
M	WV-049-105165-001	BB	WV-061-006609-001
N	WV-049-106314-020	CC	WV-061-000212-001-ACT
O	WV-049-106376-001	DD	WV-061-005764-001

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FILE #: NEE20
DRAWING #: 4051
SCALE: N/A

DATE: APRIL 3, 2026
OPERATOR'S WELL #: GREEN LAKES 15H
API WELL #: 47 61 02589
STATE COUNTY PERMIT

WELL NAME: GREEN LAKES 15H
GRANT TOWN



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GRAPHIC SCALE

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	11/21/2025
Job End Date:	01/04/2026
State:	West Virginia
County:	Marion
API Number:	47-049-02589-00-00
Operator Name:	Northeast Natural Energy LLC
Well Name and Number:	Green Lakes 15H
Latitude:	39.585715
Longitude:	-80.13126
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	8148.2055
Total Base Water Volume (gal)*:	52415342
Total Base Non Water Volume:	0



Water Source	Percent
Groundwater, < 1000TDS	85.00%
Other, > 1000TDS	15.00%

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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
7.5% Hydrochloric Acid	KLX Energy Services	Acid					
FDP-S1540-25	Halliburton	Friction Reducer					
FE-2A	Halliburton	Additive					
Fresh Water	Operator	Base Fluid					
HAI-501	Halliburton	Acid Corrosion Inhibitor					
LEGEND(TM) LD-7750W	MultiChem	Scale Control					
MC B-8123	MultiChem	Biocide					
MC MX 2-2822	MultiChem	Scale Inhibitor					
SAND-COMMON WHITE 40/70	Halliburton	Proppant					

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SAND-COMMON WHITE, 100M	Halliburton	Proppant					
Items above are Trade Names. Items below are the individual ingredients.							
			Water	7732-18-5	100.00000	87.89832	None
			Crystalline silica, quartz	14808-60-7	100.00000	11.90320	None
			Water	7732-18-5	100.00000	0.13401	None
			Complex Amine Compound	Proprietary	60.00000	0.04097	None
			Hydrotreated light petroleum distillate	64742-47-8	30.00000	0.02049	None
			Hydrochloric acid	7647-01-0	7.50000	0.00803	None
			Methanol	67-56-1	100.00000	0.00611	None
			Amines, polyethylenepoly-, ethoxylated, phosphonomethylated, sodium salts	70900-16-2	30.00000	0.00455	None
			Ethoxylated alcohol	Proprietary	5.00000	0.00341	None
			Ammonium salt	Proprietary	5.00000	0.00341	None
			Glutaraldehyde	111-30-8	30.00000	0.00255	None
			Sodium chloride	7647-14-5	5.00000	0.00088	None
			Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8	1.00000	0.00068	None
			Sorbitan monooleate polyoxyethylene derivative	9005-65-6	1.00000	0.00068	None
			Fatty nitrogen derived amides	Proprietary	1.00000	0.00068	None
			Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1	5.00000	0.00042	None
			Citric acid	77-92-9	60.00000	0.00041	None
			Phosphoric Acid Salt	Proprietary	5.00000	0.00012	None
			Mixture of dimer and trimer fatty acids of indefinite composition derived from tall oil	61790-12-3	30.00000	0.00002	None
			Modified thiourea polymer	Proprietary	30.00000	0.00002	None
			Formaldehyde	50-00-0	0.10000	0.00002	None
			Propargyl alcohol	107-19-7	5.00000	0.00000	None
			Hexadecene	629-73-2	5.00000	0.00000	None
			Ethoxylated alcohols	Proprietary	5.00000	0.00000	None

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

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** 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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